

# OAK RIDGE CITY COUNCIL MEETING

Municipal Building Courtroom

October 10, 2011—7:00 p.m.

## AGENDA (Amended)

### I. INVOCATION

Curtis McClane with Highland View Church of Christ

### II. PLEDGE OF ALLEGIANCE

### III. ROLL CALL

### IV. APPEARANCE OF CITIZENS

### V. PROCLAMATIONS AND PUBLIC RECOGNITIONS

A proclamation designating the month of October 2011 as *Fraud and Financial Abuse Awareness Month*.

### VI. SPECIAL REPORTS

Presentation to City Council from seven (7) City Boards and Commissions Representatives to provide information to the public about the structure, purpose, and achievements of their boards to generate interest in the end of year elections.

### VII. CONSENT AGENDA

- a. Approval of the minutes of the September 12, 2011 City Council Meeting.
- b. Adoption of a resolution to adopt the Updated 2011 Anderson County Multi-Jurisdictional Hazard Mitigation Plan in accordance with federal requirements.
- c. Adoption of a resolution authorizing the purchase of 4,000 feet of water pipe from Southern Pipe & Supply Co., Inc., Knoxville, Tennessee, for the replacement of the water main from the Robertsville Road Pump Station to West Outer Drive in the estimated amount of \$178,159.50.

### VIII. RESOLUTIONS

- a. Tennessee Department of Transportation Enhancement (TDOT) Grant
  - i. A public hearing and resolution authorizing the City to apply for a Tennessee Department of Transportation Enhancement Grant in the amount of \$1,000,000.00, with a twenty percent (20%) local cash match, to support the revitalization of Jackson Square, and to accept said grant if approved. (Option A)
  - ii. A public hearing and resolution authorizing the City to apply for a Tennessee Department of Transportation Enhancement Grant in the amount of \$1,000,000.00, with a twenty percent (20%) local cash match, to support implementation of the Oak Ridge Bicycle and Pedestrian Plan on Lafayette Drive and Scarboro Road, and to accept said grant if approved. (Option B)
- b. A resolution authorizing an expenditure of \$50,000.00 from the Economic Diversification Fund to provide sponsorship to the 2012 Secret City Festival.

- c. A resolution authorizing a professional services agreement with the Arts Council of Oak Ridge to provide entertainment, production support, activities and programs related to the upcoming 2012 Secret City Festival and authorizing the reimbursement of actual costs incurred in an amount not to exceed \$150,000.00.
- d. A resolution to extend the employee medical insurance contract between the City of Oak Ridge and the State of Tennessee Local Government Health Insurance Program for the period of January 1, 2012 through December 31, 2012 at an estimated cost of \$3,875,000.00.

IX. PUBLIC HEARINGS AND FIRST READING OF ORDINANCES

First Reading of Ordinance

- a. AN ORDINANCE TO AMEND TITLE 3, TITLED "MUNICIPAL COURT," CHAPTER 4, TITLED "COURT ADMINISTRATION," SECTION 3-406, TITLED "COST ESTABLISHED," SUBSECTION (A), TITLED "CITY COURT CLERK FEE," OF THE CODE OF ORDINANCES, CITY OF OAK RIDGE, TENNESSEE, BY INCREASING THE CITY COURT CLERK FEE TO EIGHTY-ONE DOLLARS AND TWENTY-FIVE CENTS (\$81.25).

Public Hearings and First Reading of Ordinances

- b. AN ORDINANCE TO AMEND ORDINANCE NO. 2, TITLED "THE ZONING ORDINANCE OF THE CITY OF OAK RIDGE, TENNESSEE," BY AMENDING THE ZONING MAP WHICH IS MADE A PART OF THE ORDINANCE BY CHANGING THE ZONING DISTRICT OF PARCELS 1.04, 1.17, AND 1.18, ROANE COUNTY TAX MAP 30, ALSO KNOWN AS BUILDING K-1225, ED-9A, AND ED-9B, LOCATED AT HERITAGE CENTER, FROM F.I.R., FEDERAL INDUSTRY AND RESEARCH TO IND-2, INDUSTRIAL MANHATTAN DISTRICT OVERLAY (IND-2/IMDO).
- c. AN ORDINANCE TO AMEND ORDINANCE NO. 2, TITLED "THE ZONING ORDINANCE OF THE CITY OF OAK RIDGE, TENNESSEE," ARTICLE IX, TITLED "SPECIAL DISTRICTS," BY DELETING SECTION 9.07, TITLED "FLOODPLAIN REGULATIONS," IN ITS ENTIRETY AND SUBSTITUTING THEREFOR A NEW SECTION 9.07, TITLED, "FLOODPLAIN REGULATIONS," TO UPDATE THE PROVISIONS FOR COMPLIANCE WITH THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S (FEMA) CURRENT REQUIREMENTS, TO MINIMIZE DANGER TO LIFE AND PROPERTY DUE TO FLOODING, AND TO MAINTAIN THE CITY'S ELIGIBILITY FOR PARTICIPATION IN THE NATIONAL FLOOD INSURANCE PROGRAM.
- d. AN ORDINANCE TO AMEND ORDINANCE NO. 2, TITLED "THE ZONING ORDINANCE OF THE CITY OF OAK RIDGE, TENNESSEE," BY AMENDING THE ZONING MAP WHICH IS MADE A PART OF THE ORDINANCE BY CHANGING THE ZONING DISTRICT OF AN APPROXIMATE FIFTY-FOOT-WIDE STRIP CROSSING PARCELS 8.00, 9.00, 10.00, AND 12.00, ANDERSON COUNTY TAX MAP 100G, GROUP A, LOCATED ALONG THE SOUTH SIDE OF EMORY VALLEY ROAD FROM FRANKLIN ROAD HEADING EAST TO THE WEST BOUNDARY OF 707 EMORY VALLEY ROAD, THENCE HEADING SOUTH ALONG THE BOUNDARY LINE ENDING AT THE RIGHT-OF-WAY OF FAIRBANKS ROAD, FROM RG-1, RESIDENTIAL, OPEN SPACE AND RESERVED TO IND-1, INDUSTRIAL.
- e. AN ORDINANCE TO AMEND ORDINANCE NO. 2, TITLED "THE ZONING

ORDINANCE OF THE CITY OF OAK RIDGE, TENNESSEE, BY AMENDING SECTION 3.18, TITLED "TEMPORARY USE PERMITS," SUBSECTION (D)(3) TO CLARIFY THAT SALES ARE PERMITTED IN PAVED PARKING AREAS PROVIDED IT DOES NOT INTERFERE WITH VEHICULAR CIRCULATION ON THE SITE; SECTION 13.01, TITLED "INTRODUCTION," SUBSECTION (A) TO ADD THAT SITE PLAN APPROVAL EXPIRES ONE YEAR FROM THE FINAL APPROVAL DATE; SECTION 13.02, TITLED "DESIGN REVIEW STANDARDS," SUBSECTIONS (D)(1), (E)(2), AND (H)(2) TO EXPAND THE APPLICABLE ZONES; SECTION 13.02, TITLED "DESIGN REVIEW STANDARDS," SUBSECTION (E)(3) TO PLACE A REQUIREMENT ON TREE PLANTING IN ISLANDS AND TO PLACE A PAVEMENT DISTANCE FROM REAR AND SIDE LOT LINES; SECTION 13.02, TITLED "DESIGN REVIEW STANDARDS," SUBSECTIONS (F)(2) TO REQUIRE SHRUB ROWS TO BE PLANTED TO SCREEN A PARKING LOT THAT CAN BE VIEWED FROM A PRIVATE STREET AND NOT JUST A PUBLIC STREET; SECTION 13.02, TITLED "DESIGN REVIEW STANDARDS," SUBSECTION (F)(4)(A)(4) TO EXPAND THE APPLICABLE ZONES AND TO REQUIRE THE MAINTENANCE BOND TO BE POSTED FOR TWO YEARS INSTEAD OF ONE IF A PERMANENT IRRIGATION SYSTEM HAS NOT BEEN INSTALLED; SECTION 14.05, TITLED "GENERAL REQUIREMENTS," PART (4) TO INCLUDE SCHOOLS AND CHURCHES AS A BUSINESS THAT CAN BE ISSUED A TEMPORARY PERMIT AND TO LIMIT THE NUMBER OF PERMITS TO ONE DURING ANY THREE MONTH PERIOD INSTEAD OF ONE DURING ANY FOUR MONTH PERIOD; SECTION 14.06, TITLED "SIGNS ALLOWED IN ALL DISTRICTS (EXEMPT SIGNS)," PART (8) TO INCLUDE AUCTION SIGNS; AND SECTION 16.12, TITLED "USES REQUIRING PLANNING COMMISSION APPROVAL," SUBSECTION (A) TO CORRECT THE REFERENCE TO THE OAK RIDGE MUNICIPAL PLANNING COMMISSION.

X. FINAL ADOPTION OF ORDINANCES

a. Adoption of Ordinances (Second Reading)

(NONE)

XI. ELECTIONS/APPOINTMENTS, ANNOUNCEMENTS AND SCHEDULING

a. Elections/Appointments

Notice of Elections for the end of year boards and commissions.

b. Announcements

c. Scheduling

XII. COUNCIL REQUESTS FOR NEW BUSINESS ITEMS OR FUTURE BRIEFINGS

XIII. SUMMARY OF CURRENT EVENTS

a. City Manager's Report

b. City Attorney's Report

XIV. ADJOURNMENT

**PROCLAMATIONS**

**AND**

**PUBLIC RECOGNITIONS**

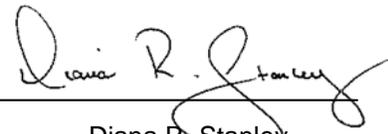
**CITY CLERK MEMORANDUM**  
**11-48**

DATE: October 6, 2011  
TO: Honorable Mayor and Members of City Council  
FROM: Diana Stanley, Acting City Clerk  
SUBJECT: PROCLAMATION

Fraud and Financial Abuse Awareness Month

The accompanying proclamation is presented for the Council's consideration at the request of Liz Batchelor, a representative of the Anderson County, East Tennessee Elder Watch Coalition.

This proclamation is an addition to the October 10, 2011 City Council Meeting Agenda.

  
Diana R. Stanley

Attachment

# PROCLAMATION

**WHEREAS**, nationally and in the State of Tennessee fraud and financial abuse are greatly underreported and there is a great need to educate and raise awareness of this devastating crime; and

**WHEREAS**, fraud and identity theft are some of the most costly crimes Americans face with over 975,000 fraud and identity theft complaints in the U.S., and over 23,000 complaints reported in Tennessee resulting in Tennesseans losing more than \$20 million dollars to these crimes; and

**WHEREAS**, the Tennessee Division of Consumer Affairs within the Department of Commerce and Insurance works tirelessly to address and mediate consumer complaints of unfair and deceptive practices and fraud, to return funds to consumers, and to work with the Attorney General's Office and other local, state, and federal agencies to help in the prosecution of fraud; and

**WHEREAS**, in Tennessee, it is a crime for a caretaker to misuse government funds of an elderly or disabled adult; and

**WHEREAS**, public awareness of this costly problem is the key to preventing further exploitation, abuse, and loss of money; and

**WHEREAS**, the Adult Protective Services Division within the Tennessee Department of Human Services and the Tennessee Commission on Aging and Disability are responsible for awareness, prevention, investigation, and reporting of fraud and financial abuse crimes against elderly and disabled adults in Tennessee; and

**WHEREAS**, the statewide Tennessee Vulnerable Adult Coalition and the regional Coalitions in South Central, East, Upper Cumberland, Middle, West, and Northeast Tennessee are grassroots organizations working to eliminate the costly crime of fraud and financial abuse, educate vulnerable adults about prevention strategies, identify suspicious signs or activities, and encourage reporting of such crimes and ultimately reduce the rate of fraud and financial abuse among vulnerable adults; and

**WHEREAS**, the Tennessee Department of Human Services, the Tennessee Department of Commerce and Insurance, along with the Tennessee Commission on Aging and Disability declare fraud and financial abuse a state priority.

**NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF OAK RIDGE, TENNESSEE** that October 2011 be proclaimed

## **FRAUD AND FINANCIAL ABUSE AWARENESS MONTH**

in the City of Oak Ridge, Tennessee, and that all citizens be encouraged to raise awareness on prevention measures to avoid becoming victims of fraud and financial abuse.

**IN WITNESS WHEREOF**, I have hereunto set my hand and caused the Great Seal of the City of Oak Ridge to be affixed, this the 10<sup>th</sup> day of October in the year 2011.

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MAYOR

# **SPECIAL REPORTS**

## CITY CLERK MEMORANDUM

11-45

**DATE:** September 29, 2011

**TO:** Honorable Mayor and Members of City Council  
Mark S. Watson, City Manager

**FROM:** Diana R. Stanley, Acting City Clerk

**SUBJECT:** CONTINUED PRESENTATIONS FROM BOARDS AND COMMISSIONS  
REPRESENTATIVES

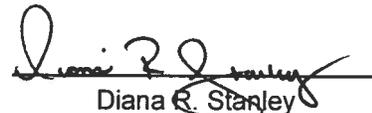
On February 14, 2011, City Council approved Resolution No. 2-8-11 to simplify the election process for certain boards and commissions by setting all terms of office (with the exception of student members) to commence on January 1, by extending current members' terms of office through to the December 31 following their current term, and by establishing all officers to be elected each January.

A number of City Boards and Commissions will be participating in the end-of-year election to elect new members either due to expiring terms or to fill vacancies. In an effort to generate interest from those eager to become involved in their community and help to make a positive impact on the City's future, the City Clerk's office has contacted representatives from those boards and commissions and asked them to make a brief presentation for the public to learn about the structure, purpose, and achievements of City Boards and Commissions from those involved.

Several representatives gave a brief presentation at the September 12, 2011 City Council meeting, and the following Boards and Commissions Representatives will be speaking at the October 10, 2011 City Council meeting:

Personnel Advisory Board  
Board of Building and Housing Code Appeals  
Highland View Redevelopment  
Oak Ridge Housing Authority  
Oak Ridge Municipal Planning Commission  
Traffic Safety Advisory Board  
Board of Zoning Appeals

Mary Frances Tolliver, Chair  
Bruce Ryan LeForce, Chair  
Mayor Tom Beehan, Chair  
Judith L. Osucha, Chair  
Terry C. Domm, Chair  
Phil Wallace, Co-Chair  
Judith L. Mason, Chair

  
Diana R. Stanley

# CONSENT AGENDA

# MINUTES OF THE OAK RIDGE CITY COUNCIL MEETING

September 12, 2011

The regular meeting of the City Council of the City of Oak Ridge, Tennessee, convened at 7:00 p.m. on September 12, 2011 in the Courtroom of the Municipal Building with Mayor Thomas L. Beehan presiding.

## INVOCATION

The Invocation was given by Pastor Robert May from the Oak Ridge Family Bible Church.

## PLEDGE OF ALLEGIANCE

Jeff Collins, Oak Ridge Firefighter Engineer, led the Pledge of Allegiance to the Flag of the United States of America.

## ROLL CALL

Upon roll call, the following members of Council were present: Mayor Thomas Beehan; Anne Garcia Garland; L. Charles Hensley; Charles J. Hope, Jr.; D. Jane Miller; David N. Mosby; and Ellen D. Smith.

Also present were Mark S. Watson, City Manager; Kenneth R. Krushenski, City Attorney; Steven W. Jenkins, Deputy City Manager; and Diana R. Stanley, Acting City Clerk.

## APPROVAL OF AGENDA ADDITIONS

Councilmember Hensley made a motion to have the additions: (1) Swearing-in of Oak Ridge Fire Chief, Richard Darryl Kerley; and (2) A special presentation of a commemorative plaque from the Oak Ridge Firefighter Association in remembrance of the 10th Anniversary of the September 11, 2001 tragedy added to the agenda. The motion was seconded by Councilmember Hope and carried by unanimous voice vote with Councilmembers Garcia Garland, Hensley, Hope, Miller, Mosby, Smith and Mayor Beehan voting "Aye."

## PUBLIC RECOGNITIONS

### **Swearing-in of Oak Ridge Fire Chief, Richard Darryl Kerley.**

City Manager Mark S. Watson swore-in Oak Ridge Fire Chief, Richard Darryl Kerley. Immediately following, Fire Chief Kerley recognized his family who was in attendance as well as fellow firefighters from Seymour, Tennessee.

### **A special presentation of a commemorative plaque from the Oak Ridge Firefighter Association in remembrance of the 10th Anniversary of the September 11, 2001 tragedy. The commemorative plaque includes a piece of steel from one of the towers of the World Trade Center.**

Members of the Oak Ridge Firefighter Association Local 1446, Jeff Collins and Andy Sheets, presented a special commemorative plaque to the City of Oak Ridge for cooperating with a relief drive following the September 11, 2001 tragedy. The plaque was accepted by Mayor Beehan and City Manager Mark S. Watson.

## APPEARANCE OF CITIZENS

Martha de la Garza Fowler, 116 Windover Circle, came forward and discussed using alternative facilities, such as the Wildcat Den, the refurbished Daniel Arthur Building, and the Civic Center as a facility for senior citizens. She went on to further discuss whether or not the City needed a new senior center and the costs that would be associated with the new facility.

Leroy Gilliam, 108 Tracy Lane, came forward and spoke in support of an updated senior center in Oak Ridge. Mr. Gilliam expressed his concerns regarding the use of other facilities and their accessibility.

Trina Baughn, 119 Newport Drive, came forward and expressed her concerns regarding the costs for the Senior Center studies that have taken place.

### **PROCLAMATIONS**

#### **A proclamation designating the week of September 11–17, 2011 as National Direct Support Professionals Week.**

Councilmember Hensley moved, seconded by Councilmember Miller, that the proclamation be adopted. The motion carried by unanimous voice vote with Councilmembers Garcia Garland, Hensley, Hope, Miller, Mosby, Smith, and Mayor Beehan voting “Aye.” The proclamation was presented to Lola Norbury from the Emory Valley Center and Tony Harper, a Direct Support Professional.

#### **A proclamation recognizing September 24, 2011 as National Public Lands Day.**

Councilmember Smith moved, seconded by Councilmember Hensley, that the proclamation be adopted. The motion carried by unanimous voice vote with Councilmembers Garcia Garland, Hensley, Hope, Miller, Mosby, Smith, and Mayor Beehan voting “Aye.” Jimmy Groton, President of Tennessee Citizens Wilderness Planning (TCWP) accepted the proclamation along with Dr. LeAnn Russell, co-founder of the TCWP.

### **SPECIAL REPORTS**

#### **Presentation to City Council from five City Boards and Commissions Representatives to provide information to the public about the structure, purpose, and achievements of their boards to generate interest in the end of year elections.**

City Manager Mark S. Watson briefly explained that the purpose of the presentations was to provide a televised overview of the boards to City Council and the public to assist with the recruiting efforts that will take place in the fall. Mr. Watson further explained that the election occurring at year end. The boards that are presenting are those that would be participating in the end of year elections.

The Personnel Advisory Board presentation was postponed until the October City Council Meeting.

The following chairs provided an overview of the history, structure, current members, membership, meetings, community involvement, and duties:

- Randy Tedford, Chair of Beer Permit Board
- Katy Brown, Executive Director of the Oak Ridge Convention and Visitors Bureau
- David McCoy, Chair of Elder Citizens Advisory Board
- Jimmy Groton, Chair of Environmental Quality Advisory Board

#### **Presentation from City Manager Mark S. Watson on the Manhattan Project National Historical Park: Interpretive History Center.**

City Manager Mark S. Watson introduced a presentation regarding Oak Ridge's National Park Service designation and the idea of having an interpretive history center connected to the Oak Ridge Library. The presentation focused on the library expansion as part of the history center, as well as the use of existing structures and/or facilities located near or around the Library to strengthen connectivity and possibly build on partnerships with existing organizations, such as the American Museum of Science and Energy. Additionally, the City Manager briefly discussed the use of the K-25 Fire Station as a possible Interpretive Center for the K-25 landmark.

## **CONSENT AGENDA**

Councilmember Miller moved, seconded by Councilmember Hensley and carried by unanimous voice vote with Councilmembers Garcia Garland, Hensley, Hope, Miller, Mosby, Smith, and Mayor Beehan voting “Aye,” the Consent Agenda was approved as presented, thereby:

- a. Approving the minutes of the August 8, 2011 City Council Meeting.
- b. Adopting Resolution No. 9-84-11 to change the name of the Oak Ridge Entrepreneurial Center located at 1010 Commerce Park Drive to the Oak Ridge Tech Commercialization Center.
- c. Adopting Resolution No. 9-85-11 authorizing an agreement with First Place Finish, Inc., Oak Ridge, Tennessee for poured-in-place rubber safety surfacing for Cedar Hill Park Playground in the estimated amount of \$34,150.00.
- d. Adopting Resolution No. 9-86-11 approving the City’s Management-Operations-Maintenance Program as required for compliance with the U.S. Environmental Protection Agency (EPA) Administrative Order.

## **RESOLUTIONS**

### **Resolution No. 9-87-11**

**A resolution authorizing the City to enter into a Memorandum of Agreement with the United States Department of Energy to continue the provision of fire protection and emergency response services to the East Tennessee Technology Park through September 30, 2015.**

Councilmember Hensley moved, seconded by Councilmember Miller, that the resolution be adopted. After brief deliberation the resolution was adopted by unanimous voice vote with Councilmembers Garcia Garland, Hensley, Hope, Miller, Mosby, Smith, and Mayor Beehan voting “Aye.”

### **Resolution No. 9-88-11**

**A resolution awarding two contracts (COR 11-14-E2 and COR 11-15-E2) to Improved Technologies Group, LLC, Knoxville, Tennessee, for the rehabilitation of portions of the wastewater collection and transportation system as required for compliance with the U.S. Environmental Protection Agency Administrative Order, said contracts in the grand total estimated amount of \$2,069,335.00.**

Councilmember Smith moved, seconded by Councilmember Hensley, that the resolution be adopted. After brief deliberation the resolution was adopted by unanimous voice vote with Councilmembers Garcia Garland, Hensley, Hope, Miller, Mosby, Smith, and Mayor Beehan voting “Aye.”

### **Resolution No. 9-89-11**

**A resolution awarding a contract (COR 11-18) to Portland Utilities Construction Co., LLC, Portland, Tennessee, for the furnishing of all labor, tools, materials, equipment and supplies necessary to perform all work and services for the sewer point repair project in the estimated amount of \$827,610.00.**

Councilmember Smith moved, seconded by Councilmember Hensley, that the resolution be adopted. After brief deliberation the resolution was adopted by unanimous voice vote with Councilmembers Garcia Garland, Hensley, Hope, Miller, Mosby, Smith, and Mayor Beehan voting “Aye.”

### **Resolution No. 9-90-11**

**A resolution to transmit the document entitled City of Oak Ridge Comments on the Request for**

**Proposals (RFP) entitled “Management and Operating Contract of the Y-12 National Security Complex (Y-12) and Pantex Plant (Pantex), with an option for Savannah River Tritium Operations (SRTO),” (DE-SOL-0001458) to the U.S. Department of Energy as the official comments of the City of Oak Ridge.**

Councilmember Hensley moved, seconded by Councilmember Smith, that the resolution be adopted. Councilmember Miller recused herself from taking any action on this resolution given that her employer is participating in the bid.

City Council requested that the City Manager direct staff to incorporate the following additions and changes provided by members of Council to the document titled, “Management and Operating Contract of the Y-12 National Security Complex (Y-12) and Pantex Plant (Pantex), with an option for Savannah River Tritium Operations (SRTO).”

- Strengthen the point for item #2 regarding separate security contracts, clarify the definition of security clearance for item #6, and provide a statement of “why” the City requests the headquarters to be located within city limits for item #8. (Request made by Councilmember Smith).
- Incorporate a broader statement for item #6, so as to not have limitations on the contractor’s engagements with the community. (Request made by Councilmember Hensley).
- Provide a reason for item #8 regarding the request to have the headquarters within city limits. (Request made by Councilmember Garcia Garland).
- Structure item #3 to be specific so as to emphasize distinct economic pledges. (Request made by Councilmember Hope).

Following the discussion of changes and additions, the resolution was adopted by voice vote with Councilmembers Garcia Garland, Hensley, Hope, Smith, and Mayor Beehan voting “Aye.” Councilmembers Miller and Mosby abstained. Mosby abstained because his employer is participating in the bid.

**Resolution No. 9-91-11**

**A resolution to amend the City Attorney’s Employment Agreement, as approved by Resolution 2-26-01, to provide for a one-year contract extension and a two percent (2%) salary increase, with the salary increase effective on March 1, 2011.**

Councilmember Miller moved, seconded by Councilmember Smith, that the resolution be adopted. Councilmember Miller, Chair of the City Attorney Evaluation Committee, reported on the committee’s recommendation of a 2% salary increase and one-year contract extension as a show of support.

Following a brief discussion regarding the contract extension, the resolution was adopted by unanimous voice vote with Councilmembers Garcia Garland, Hensley, Hope, Miller, Mosby, Smith, and Mayor Beehan voting “Aye.”

**PUBLIC HEARING AND FIRST READING OF ORDINANCES**

(NONE)

**FINAL ADOPTION OF ORDINANCES**

(NONE)

## **ELECTIONS/APPOINTMENTS, ANNOUNCEMENTS AND SCHEDULING**

### Elections / Appointments

#### **Council's confirmation and election of the three new hotel/motel members to the Oak Ridge Convention and Visitors Bureau Board of Directors.**

On first ballot, Ms. Ashley Walden-Richards was unanimously elected to serve on the Oak Ridge Convention and Visitors Bureau representing the hotel/motel membership for a term of office ending on December 31, 2012 receiving the votes of Councilmembers Garcia Garland, Hensley, Hope, Miller, Mosby, Smith, and Mayor Beehan.

Councilmember Hensley moved, seconded by Councilmember Hope that City Council confirms Gretchen Julius and Misty Williams as hotel/motel appointments for the Oak Ridge Convention and Visitors Bureau for terms of office ending on December 31, 2012. The appointments were confirmed by unanimous voice vote with Councilmembers Garcia Garland, Hensley, Hope, Miller, Mosby, Smith, and Mayor Beehan voting "Aye."

### Announcements

(NONE)

### Scheduling

(NONE)

## **COUNCIL REQUESTS FOR NEW BUSINESS ITEMS OR FUTURE BRIEFINGS**

Councilmember Hensley requested that the City not lose sight of visioning.

Councilmember Mosby briefly discussed an idea for a "Community Bike Ride" that is tentatively scheduled for November 5, 2011.

## **SUMMARY OF CURRENT EVENTS**

### City Manager's Report

#### **Certificate of Achievement for Excellence in Financial Reporting to be awarded to the City of Oak Ridge.**

City Manager Mark S. Watson explained that he had recently received notice that the City of Oak Ridge was a recipient for financial reporting.

### City Attorney's Report

(NONE)

## **ADJOURNMENT**

The meeting adjourned at 9:30 p.m.

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Diana R. Stanley, Acting City Clerk

INTER-DEPARTMENTAL MEMORANDUM  
FIRE DEPARTMENT HEADQUARTERS  
11-34

DATE: September 29, 2011  
TO: Mark S. Watson, City Manager  
FROM: Darryl Kerley, Fire Chief  
SUBJECT: Anderson County, Tn. Multi-Jurisdictional Hazard Mitigation Plan - 2011 Update

I have reviewed Oak Ridge's Individual Mitigation Action Plan that will be incorporated into the Multi-Jurisdictional Hazard Mitigation Plan 2011 Update and recommend adoption this plan. The plan serves as a guide for protecting community assets, personal property, and citizens' lives during all times of emergencies, natural and man-made. Many of the fire service goals and objectives contained within the plan are also identified in the Fire Department Strategic Plan and are currently being performed or in planning stages to be executed.

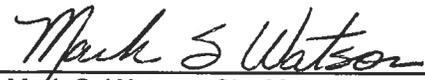
The Multi-Jurisdictional Hazard Mitigation Plan 2011 Update will be accessible at <http://em-associates.org/anderson-county.htm>. Currently, draft sections of the plan are available at the aforementioned website.

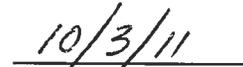
Staff recommends approval of the attached resolution.

  
Darryl Kerley, Fire Chief

Attachments

**City Manager's Comments:**

  
Mark S. Watson, City Manager

  
Date

**Anderson County**  
**Office of Emergency Management and Homeland Security**

**Steve Payne, Director**

111 South Charles G. Seivers Boulevard  
Clinton, TN 37716

Phone 865/457-6765

Fax 865/457-6557

September 29, 2011

Council Members:

I will be attending your legislative meeting to request your approval and adoption of the Anderson County Multi-Jurisdictional Hazard Mitigation Plan.

The federal Disaster Mitigation Act of 2000 requires all city and county governments to develop a hazard mitigation plan for their respective communities in order to be eligible to receive pre-disaster mitigation grant funding and post-disaster federal assistance. The plan must meet specific Federal Emergency Management Agency (FEMA) requirements and be updated every five years.

In 2010, Anderson County received a FEMA grant to update the 2005 Anderson County Multi-Jurisdictional Hazard Mitigation Plan previously adopted by our county and its five municipalities. Grant funds are used to pay contracted labor and expenses. The county's 25% required match for this grant will be more than met by in-kind hours given by the 51 members of the Mitigation Planning Committee, comprised of representatives from all jurisdictions, as well as citizens, voluntary agencies, and private sector resources.

Our 2011 updated plan was conditionally approved by FEMA on July 28, pending adoption by all jurisdictions for final approval.

The updated plan examines disasters that have affected our communities in the past, evaluates our risk for disasters that may occur in the future, estimates the impact of those potential disasters, and suggests projects to prevent or reduce that impact. Through FEMA requires only natural disasters be addressed, the Planning Committee believed that, as a DOE/TVA county, we would be remiss in not including human-caused/technological disasters in the plan.

The heart of the plan lies in the goals, objectives, and actions listed for each jurisdiction. These goals, objectives, and actions are just that – goals, objectives, and actions. They are not chiseled in stone or quantified by pass/fail. They are ideas and actions the Planning Committee believes to be realistic, attainable, and necessary to improve the safety of the citizens of Anderson County. Many of these are "old actions," carried over from the 2005 plan. Some are new, reflecting new hazards we have encountered over the past five years that should be addressed. Many are actions already being implemented which the committee believes are important and should be continued. Many can be accomplished within existing departmental budgets, costing only the time

of employees already on staff. While “time is money” and cost has been estimated in dollars for each action item, there will be no requirement for additional funds to be budgeted to accomplish a majority of the action items. And though an implementation timeline is given for each action, these dates are suggested, not mandated. Both actions and timeline are intended to guide, not direct.

For those actions requiring major expenditures, federal grants are available. The Planning Committee has endeavored to establish broad, comprehensive objectives to allow us to apply for grants that will mitigate problems throughout the county. By working together, a single pre-disaster mitigation grant to mitigate flooding issues can benefit both cities and rural areas.

The plan can be modified at any time using the process described in Section 8. Responsibility for managing and evaluating the plan rests with Anderson County Emergency Management Agency staff.

Please access and review the plan at <http://em-associates.org/anderson-county.htm>. The county goals are in Section 7. City-specific goals are found in the Individual Mitigation Action Plans.

The members of the Planning Committee have done an admirable job in preparing and ensuring this plan was approved by TEMA and FEMA on first submission. On their behalf, I ask for your assistance in promoting adoption by your jurisdiction as we begin this final step for full FEMA approval of the plan.

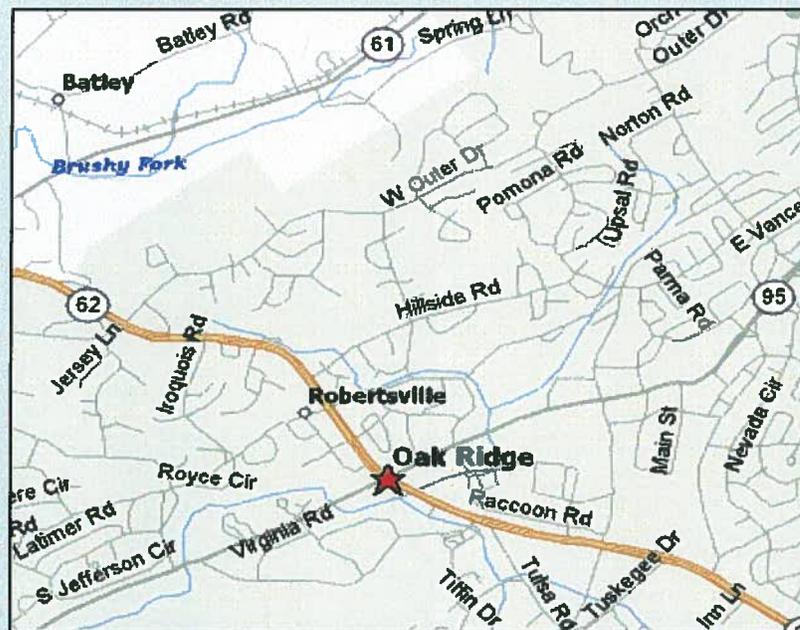
Please contact me if I can provide further information.

Thank you.

Sincerely,

Lin Chilcoat  
Anderson County Emergency Management Agency  
Hazard Mitigation Plan Coordinator  
[thearlowmama@hotmail.com](mailto:thearlowmama@hotmail.com)  
865-457-7846

# OAK RIDGE, TENNESSEE INDIVIDUAL MITIGATION ACTION PLAN



## ANDERSON COUNTY, TN. MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN 2011 UPDATE

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## SECTION 1 OAK RIDGE

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### 1.1 Description

Immediately northeast of Oak Ridge, the southwestward-flowing Clinch River bends sharply to the southeast for roughly 6 miles (9.7 km) toward Solway, where it turns again to the southwest. After flowing for approximately 17 miles (27 km), the river bends sharply to the northwest at Copper Ridge, and continues in this direction for nearly 7 miles (11 km). At the K-25 plant, the Clinch turns southwest again and flows for another 11 miles (18 km) to its mouth on the Tennessee River at Kingston. This series of bends creates a half-rectangle formation—surrounded by water on the northeast, east, and southwest—in which Oak Ridge is situated.

Five elongate ridges that run roughly parallel to one another in a northeast-to-southwest direction striate the Oak Ridge area. In order from west to east, the five ridges are Black Oak Ridge (which connects the Elza and K-25 bends of the Clinch and thus "walls off" the half-rectangle), East Fork Ridge, Pine Ridge, Chestnut Ridge, and Haw Ridge. The five ridges are divided by four valleys—East Fork Valley (between Black Oak and East Fork Ridge), Gamble Valley (between East Fork and Pine Ridge), Bear Creek Valley (between Pine and Chestnut Ridge), and Bethel Valley (between Chestnut and Haw Ridge). These ridges and valleys are part of the Appalachian Ridge-and-Valley Physiographic Province. The main section of the city is located in the northeast, where East Fork and Pine Ridge give way to low, scattered hills. Many of the city's residences are located along northeastern slope of Black Oak Ridge.

The completion of Melton Hill Dam in 1963 created Melton Hill Lake, which borders the city on the northeast and east. The lakefront on the east side of the city is a popular recreation area with bicycling trails and picnic areas lining the shore. The lake is also well known as a venue for rowing competitions. Watts Bar Lake—an impoundment of the Tennessee River, which covers the lower 23 miles (37 km) of the Clinch, borders Oak Ridge to the south and southwest.

According to the United States Census Bureau, the city has a total area of 89.9 square miles (232.9 km), of which, 85.6 square miles (221.6 km) are land and 4.4 square miles (11.3 km) (4.86%) are water.

### 1.2 History

The earliest substantial occupation of the Oak Ridge area occurred during the Woodland period (c. 1000 B.C.–1000 A.D.), although artifacts dating to the Paleo-Indian period have been found throughout the Clinch Valley. Two Woodland mound sites—the Crawford Farm Mounds and the Freels Farm Mounds—were uncovered in the 1930s as part of the Norris Basin salvage excavations. Both sites were located just southeast of the former Scarboro community. The Bull Bluff site, which was occupied during both the Woodland and Mississippian (c. 1000–1600 A.D.) periods, was uncovered in the 1960s in anticipation of the construction of Melton Hill Dam. Bull Bluff is a cliff located immediately southeast of Haw Ridge, opposite Melton Hill Park. The Oak Ridge area was largely uninhabited by the time Euro-American explorers and settlers arrived in the late 18th century, although the Cherokee claimed the land as part of their hunting grounds. In the 19th century, the Oak Ridge area saw the development of several rural farming communities, namely Edgemoor and Elza in the northeast, East Fork and Wheat in the



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southwest, Robertsville in the west, and Bethel and Scarboro in the southeast. The settlers who founded these communities first arrived in the late 1790s, when the Cherokee signed the Treaty of Holston, ceding what is now Anderson County to the United States.

According to local tradition, John Hendrix (1865–1915), an eccentric local resident regarded as a mystic, prophesied the establishment of Oak Ridge some 40 years before construction began. Upset by the death of his young daughter and the subsequent departure of his wife and remaining family, he became religious and told his neighbors he was seeing visions. When he described his visions, people thought he was insane; for this reason, he was institutionalized for a time. According to several published accounts, one vision that he described repeatedly was an uncannily accurate description of the city and production facilities that were built 28 years after his death. The version recalled by neighbors and relatives has been reported as follows:

"In the woods, as I lay on the ground and looked up into the sky, there came to me a voice as loud and as sharp as thunder. The voice told me to sleep with my head on the ground for 40 nights and I would be shown visions of what the future holds for this land.... and I tell you, Bear Creek Valley someday will be filled with great buildings and factories, and they will help toward winning the greatest war that ever will be. And there will be a city on Black Oak Ridge and the center of authority will be on a spot middle-way between Sevier Tadlock's farm and Joe Pyatt's place. A railroad spur will branch off the main L&N line, run down toward Robertsville and then branch off and turn toward Scarborough. Big engines will dig big ditches, and thousands of people will be running to and fro. They will be building things, and there will be great noise and confusion and the earth will shake. I've seen it. It's coming."

In September of 1942, 60,000 acres of ridges and valleys along Black Oak Ridge met military requirements needed for the Manhattan Project – isolation, electric power, water, labor, and accessibility to towns and roadways. The 3,000 persons residing in approximately 1,000 homes throughout the rural communities of Scarboro, Wheat, and Robertsville were given a matter of weeks to remove their possessions and relocate, as their property was needed to develop the world's first atomic weapons to bring an end to World War II. Under the auspices of the Corps of Engineers, 80,000 construction workers raced against time to build three mystery plants to be known as K-25, X-10, and Y-12. Begun in June 1943, and completed in early 1945, the K-25 building was the largest building in the world under one roof, the distinctive "U" shape one-half mile long and 1,000 feet wide, the site covering 1,500 acres. Because of the wartime shortage of copper, Y-12 had the distinction of using \$300 million worth of silver, borrowed from the U.S. Treasury, for electromagnetic windings and associated electrical conductors.

Houses were built at a rate of two per hour. Over 300 miles of roads were built or improved, and 55 miles of rail line constructed. Originally planned for a population of 13,000, the city became the fifth largest city in Tennessee when population peaked at 75,000 in three years as scientists and workers from all over the world arrived to build two atomic bombs. The bus transportation system was the fourth largest in the U.S. The project cost \$1.65 billion in 1945. At one time in 1945, Oak Ridge used one-seventh of all the electricity produced in the U.S.

Oak Ridge was originally called Clinton Engineering Works. For seven years, the city existed as a "secret city." It was not shown on any maps, did not allow visitors other than by special approval, had guards with machine guns posted at every entrance to the area, and required all residents to wear badges at all times when outside their homes.

On June 1, 1947, two years after World War II ended, Oak Ridge was transferred to the authority of the U.S. Atomic Energy Commission (AEC), and in 1949, the city was opened to the public.



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The Roane-Anderson Company administered most community functions under a government contract. During 1955-1959, government-owned houses and land were sold to the residents. In 1959, the town was incorporated and a city manager and City Council form of government was adopted by the community. Today, Oak Ridge is often called “The Secret City,” “The Atomic City,” “The City Behind the Fence,” or simply, “The Ridge.”

Three of the four major facilities created for the wartime bomb production are still standing today:

- K-25, where uranium was enriched by the gaseous diffusion process until 1985, is now being decommissioned and decontaminated.
- Y-12, originally used for electromagnetic separation of uranium, is still in use for nuclear weapons processing and materials storage.
- X-10, site of a test graphite reactor, is now the site of Oak Ridge National Laboratory.

The S-50 liquid thermal diffusion plant was demolished soon after the war.

In 1983, the Department of Energy declassified a report showing that significant amounts of mercury had been released from the Oak Ridge Reservation into East Fork Poplar Creek between 1950 and 1977. A federal court ordered the DOE to bring the Oak Ridge Reservation into compliance with federal and state environmental regulations.

Currently, the Department of Energy runs a nuclear and high-tech research establishment at the site and performs national security work. Jaguar, a supercomputer at Oak Ridge National Laboratory, was the world's fastest computer until October 2010, when it was surpassed by China's Tianhe-I.

### 1.3 Significant Characteristics

Approximately 60% of the city's 90 square mile land area is owned by the Department of Energy. Within the city are 4.4 square miles of water area, 1,282 acres of parkland, and 1,336 acres of greenbelt.

An 800-acre recreation area at Haw Ridge has been set aside as an undeveloped recreational area for biking. In conjunction with a private group, the city is considering plans to establish more soccer fields throughout the city.

The American Museum of Science and Energy showcases the history of Oak Ridge and some of the newest scientific advancements. Science and energy tend to be fascinating subjects, and in 1949, the American Museum of Atomic Energy was opened in an old wartime cafeteria facility in Oak Ridge to educate visitors about the science behind atomic energy, as well as to show the peaceful uses of that type of energy. In 1975, a new, spacious facility was built, and three year later, the museum was renamed the American Museum of Science and Energy (AMSE).

The AMSE has five different exhibits that teach visitors about science and energy. The exhibits begin with the Story of Oak Ridge, with displays of historical photographs, documents, and artifacts regarding the Manhattan Project. At the Exploration Station, visitors are able to take part in a number of different activities involving problem solving, static electricity, robotics, vision, light and color, and sound. The Y-12 and National Defense exhibit has models of various weapons, clothing, and tools used at the Y-12 plant over the years. Earth's Energy Resources provides maps, tools, models, and audiovisual materials to explore energy resources -- coal, oil, geothermal hydropower, and natural gas -- that are a part of the earth. The last exhibit is the



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World of the Atom, the tiniest particle found on the earth. A cross-section of a nuclear reactor is provided, along with a simulation of an underground nuclear waste storage area. Information covers the pioneering of atomic scientists, natural radiation, fusion, and nuclear energy in space.

The Children's Museum of Oak Ridge has many play centers for children to discover, solve problems, and experience new and different things – hands-on.

The museum houses a variety of exhibits. The Rainforest is a simulated Amazon experience with sound effects, a waterfall, walkway, murals, and observation deck above the canopy of faux trees, flowers, and wild animals. The World of Trains is a collection of models donated by Milton Lloyd, a prominent citizen and model train railroader in Knoxville. The exhibit has a hands-on play room with a mock up of a diesel engine and HO scale, a club room, caboose, and garden railroad. The Appalachian Heritage display has a recreated homestead with artifacts from the 1850s to the 1880s. The Knoxville 1910s exhibit shows city and country life during that time. The International Hall offers a place for children to learn about different countries with music from Africa or Japanese Kokeshi dolls. Other displays include Waterworks, The Bird Room, The Dollhouse, The Arctic, Native Americans, Life in the 30s, and a nature walk.

Oak Ridge hosts several national and international rowing regattas each year, drawing competitors and visitors from the eastern half of the U.S.

## 1.4 Population and Demographics

It should be noted that although this Plan is a 2011 Plan, the city level 2010 census data was not available prior to the completion of this Plan.

As of the census of 2000, there were 27,387 people, 12,062 households, and 7,695 families residing in the city. The population density was 320.1 people per square mile (123.6/km). There were 13,417 housing units at an average density of 156.8/sq mi (60.6/km). The racial makeup of the city was 86.96% White, 8.18% African American, 0.30% Native American, 2.10% Asian, 0.02% Pacific Islander, 0.76% from other races, and 1.68% from two or more races. Hispanic or Latino of any race was 1.93% of the population.

There were 12,062 households, of which 26.8% had children under the age of 18 living with them, 49.7% were married couples living together, 11.1% had a female householder with no husband present, and 36.2% were non-families. 32.7% of all households were made up of individuals and 15.0% had someone living alone who was 65 years of age or older. The average household size was 2.24 and the average family size was 2.83.

In the city the population was spread out with 22.4% under the age of 18, 6.6% from 18 to 24, 23.6% from 25 to 44, 26.3% from 45 to 64, and 21.1% who were 65 years of age or older. The median age was 43 years. For every 100 females there were 88.1 males. For every 100 females age 18 and over, there were 83.4 males.

### 2010 Census

Population: 29,330

### 2009 Estimates:

Males: 12,996 (46.8%)

Females: 14,755 (53.2%)

Median resident age: 43.4 years; Tennessee median age: 35.9 years



## 1.5 Economy

The 2000 census reported the median income for a household in the city was \$41,950, and the median income for a family was \$57,087. Males had a median income of \$45,149 versus \$27,500 for females. The per capita income for the city was \$24,793. About 8.0% of families and 10.9% of the population were below the poverty line, including 17.5% of those under age 18 and 5.5% of those age 65 or over.

### Estimates for 2009:

Median household income: \$48,776 (\$41,950 in 2000); Tennessee: \$41,725

Per capita income: \$27,629

Median house/condo value: \$136,628 (\$97,100 in 2000); Tennessee: \$137,300

Year	Permits	Average Cost
2000	56	\$146,700
2001	57	\$146,800
2002	46	\$156,500
2003	47	\$181,100
2004	55	\$156,600
2005	62	\$156,600
2006	62	\$156,600
2007	47	\$156,600
2008	31	\$156,600
2009	24	\$156,600

The federal government projects at Oak Ridge are reduced in size and scope, but are still the city's principal economic activity and one of the biggest employers in the Knoxville metropolitan area. The Department of Energy (DOE) owns the federal sites and maintains a major office in the city. Oak Ridge National Laboratory is the largest multipurpose lab in DOE's national laboratory system, and is home to the Spallation Neutron Source, a 1.4 billion dollar project completed in 2006, and "Jaguar," the world's second-most powerful scientific supercomputer that has peak performance of more than one quadrillion operations per second. The Y-12 National Nuclear Security Complex is a component of the U.S. nuclear weapons complex. Bechtel Jacobs serves as DOE's primary contractor, conducting an extensive program of decontamination and decommissioning, environmental cleanup, and waste management that aims to remove or stabilize the residues remaining from decades of government production and research activities.

The DOE Office of Scientific and Technical Information, which disseminates government research and development information and operates the Science.gov web site, is located in the city. The Oak Ridge Institute for Science and Education, operated by Oak Ridge Associated Universities, conducts research and education programs for the Department of Energy, Department of Homeland Security, and other federal agencies. The Atmospheric Turbulence and Diffusion Division (ATDD), one of several field divisions of the National Oceanic and Atmospheric Administration (NOAA) Air Resources Laboratory, is also located in the city. ATDD began under the Atomic Energy Commission (AEC) sponsorship in 1948 as a Weather Bureau research office providing meteorological information and expertise for the AEC.



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Currently, its main function is to perform air quality-related research directed toward issues of national and global importance.

IPIX, Remotec (now a subsidiary of Northrop Grumman), and several other technology-based companies have been founded in Oak Ridge. Wackenhut provides security services for DOE's local facilities, employing about 900 people. Several radioactive waste processing companies, including Energy Solutions, have operations in Oak Ridge.

<b>Table 1.5.2 Oak Ridge Most Common Industries</b>			
<b>Industry</b>	<b>All</b>	<b>Males</b>	<b>Females</b>
Professional, scientific, and technical services	22.0% (2,647)	28.4% (1,793)	14.9% (854)
Health care	11.2% (1,348)	6.4% (406)	16.4% (942)
Educational services	9.2% (1,105)	3.9% (244)	15.0% (861)
Accommodation and food services	6.0% (718)	5.2% (328)	6.8% (390)
Construction	5.2% (621)	8.2% (518)	1.8% (103)
Administrative and support and waste management services	4.7% (565)	5.1% (324)	4.2% (241)
Public administration	3.9% (468)	3.5% (221)	4.3% (247)
Finance and insurance	3.2% (388)	2.0% (129)	4.5% (259)
Department and other general merchandise stores	2.3% (278)	1.6% (104)	3.0% (174)
Social assistance	2.1% (259)	0.7% (47)	3.7% (212)
Utilities	1.8% (216)	2.3% (144)	1.3% (72)
Religious, grant making, civic, professional, and similar organizations	1.8% (212)	1.4% (86)	2.2% (126)
Real estate and rental and leasing	1.7% (211)	1.9% (117)	1.6% (94)
Transportation equipment	1.7% (207)	2.4% (152)	1.0% (55)
Motor vehicle and parts dealers	1.5% (179)	2.4% (149)	0.5% (30)
Food and beverage stores	1.4% (173)	1.5% (97)	1.3% (76)
Metal and metal products	1.3% (154)	1.4% (90)	1.1% (64)
Repair and maintenance	1.0% (121)	1.4% (86)	0.6% (35)
Personal and laundry services	1.0% (117)	0.6% (41)	1.3% (76)
Publishing, and motion picture and sound recording industries	1.0% (115)	0.8% (51)	1.1% (64)
Miscellaneous manufacturing	0.9% (113)	1.1% (69)	0.8% (44)
Arts, entertainment, and recreation	0.9% (109)	0.5% (32)	1.3% (77)
Plastics and rubber products	0.9% (109)	1.6% (104)	0.1% (5)
Clothing and accessories, including shoe, stores	0.7% (89)	0.3% (17)	1.3% (72)
Sporting goods, camera, and hobby and toy stores	0.6% (72)	0.3% (21)	0.9% (51)
Broadcasting and telecommunications	0.6% (70)	0.9% (56)	0.2% (14)
Computer and electronic products	0.6% (69)	0.8% (48)	0.4% (21)
Truck transportation	0.6% (68)	1.1% (68)	0.0% (0)
Machinery	0.6% (68)	0.9% (60)	0.1% (8)
Nonmetallic mineral products	0.5% (57)	0.8% (52)	0.1% (5)
Used merchandise, gift, novelty, and souvenir, and other stores	0.5% (56)	0.1% (8)	0.8% (48)
Other transportation, and support activities, and couriers	0.4% (53)	0.7% (47)	0.1% (6)
Chemicals	0.4% (51)	0.5% (31)	0.3% (20)



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<b>Table 1.5.2 Oak Ridge Most Common Industries</b>			
<b>Industry</b>	<b>All</b>	<b>Males</b>	<b>Females</b>
Other direct selling establishments	0.4% (49)	0.5% (33)	0.3% (16)
Electronic shopping and mail-order houses	0.4% (49)	0.5% (30)	0.3% (19)
Furniture and home furnishings, and household appliance stores	0.4% (48)	0.6% (36)	0.2% (12)
Printing and related support activities	0.4% (45)	0.5% (32)	0.2% (13)
Data processing, libraries, and other information services	0.4% (45)	0.3% (19)	0.5% (26)
Building material and garden equipment and supplies dealers	0.4% (43)	0.6% (41)	0.0% (2)
Pharmacies and drug stores	0.4% (43)	0.3% (19)	0.4% (24)
Office supplies and stationery stores	0.4% (43)	0.6% (37)	0.1% (6)
Radio, TV, and computer stores	0.3% (41)	0.5% (33)	0.1% (8)
Miscellaneous nondurable goods merchant wholesalers	0.3% (40)	0.2% (15)	0.4% (25)
Machinery, equipment, and supplies merchant wholesalers	0.3% (38)	0.3% (21)	0.3% (17)
Food	0.3% (37)	0.2% (11)	0.5% (26)
Apparel	0.3% (34)	0.1% (7)	0.5% (27)
Metals and minerals, except petroleum, merchant wholesalers	0.3% (34)	0.5% (34)	0.0% (0)
Recyclable material merchant wholesalers	0.2% (29)	0.1% (7)	0.4% (22)
U. S. Postal Service	0.2% (29)	0.3% (22)	0.1% (7)
Health and personal care, except drug stores	0.2% (27)	0.0% (0)	0.5% (27)
Professional and commercial equipment and supplies wholesalers	0.2% (26)	0.4% (26)	0.0% (0)
Air transportation	0.2% (21)	0.2% (14)	0.1% (7)
Furniture and related product manufacturing	0.2% (21)	0.3% (21)	0.0% (0)
Electrical equipment, appliances, and components	0.1% (18)	0.1% (7)	0.2% (11)
Groceries and related products merchant wholesalers	0.1% (17)	0.2% (11)	0.1% (6)
Agriculture, forestry, fishing and hunting	0.1% (17)	0.2% (15)	0.0% (2)
Private households	0.1% (16)	0.0% (0)	0.3% (16)
Mining, quarrying, and oil and gas extraction	0.1% (15)	0.2% (15)	0.0% (0)
Retail florists	0.1% (15)	0.2% (10)	0.1% (5)
Electrical and electronic goods merchant wholesalers	0.1% (15)	0.2% (15)	0.0% (0)
Jewelry, luggage, and leather goods stores	0.1% (14)	0.0% (0)	0.2% (14)
Vending machine operators	0.1% (9)	0.1% (9)	0.0% (0)
Fuel dealers	0.1% (7)	0.1% (7)	0.0% (0)
Hardware, plumbing and heating equipment, and supplies merchant wholesalers	0.1% (7)	0.1% (7)	0.0% (0)

## 1.6 Infrastructure

Oak Ridge is governed by a seven-member city council that includes a Mayor. The city has its own Police, Fire, Public Works, and Parks and Recreation Departments.

<b>Department</b>	<b>FT/PT Employees</b>
Finance Administration	45/2
Law Enforcement	70/1
Fire Service	41/0



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Streets	53/0
Utilities	63/0
Parks/Recreation	22/26
Housing/Community	11/0
Education	637/219
Library/Other	16/13

**Colleges/Universities Nearest to Oak Ridge:**

The University Of Tennessee (25 miles; Knoxville, TN; Enrollment: 23,333)  
 Pellissippi Technical Community College (7 miles; Knoxville, TN; Enrollment: 5,196)  
 Roane State Community College (21 miles; Harriman, TN; Enrollment: 3,490)  
 Roane State Community College (0 miles; Oak Ridge, TN; Enrollment 4,350)  
 Maryville College (30 miles; Maryville, TN; Enrollment 1,103)  
 Lincoln Memorial University (67 miles; Harrogate, TN; Enrollment 4,445)  
 Carson-Newman College (72 miles; Jefferson City, TN; Enrollment: 2,073)  
 Walters State Community College (72 miles; Morristown, TN; Enrollment: 3,893)

**Public High Schools in Oak Ridge:**

Oak Ridge High School (Students: 1,542; Location: 1450 Oak Ridge Turnpike; Grades: 9-12)

**Public Elementary/Middle Schools in Oak Ridge:**

Woodland Elementary (Students: 444; Location: 168 Manhattan Avenue; Grades: K-4)  
 Linden Elementary (Students: 433; Location: 700 Robertsville Road; Grades: K-4)  
 Willow Brook Elementary (Students: 420; Location: 298 Robertsville Road; Grades: K-4)  
 Glenwood Elementary (Students: 315; Location: 125 Audubon Road; Grades: K-4)  
 Oak Ridge Preschool (Students 270; 304 New York Avenue; Grades: PK  
 Jefferson Middle School (Students: 710; Location: 200 Fairbanks Road; Grades: 5-8)  
 Robertsville Middle School (Students: 701; Location: 245 Robertsville Road; Grades: 5-8)

**Private Elementary/Middle Schools in Oak Ridge:**

St. Mary's School (Students: 225; 323 Vermont Ave; Grades: PK - 8)  
 Montessori Center of Oak Ridge (Students: 30; 728 Emory Valley Rd #24; Grades: PK - K)  
 Christian Outreach Academy (Students: 17; 535 Oak Ridge Turnpike; Grades: K - 8)

**Library in Oak Ridge:**

Oak Ridge Public Library (Operating Income: \$980,273; Location: 1401 Oak Ridge Turnpike; 111,564 Books; 7,053 Audio Materials; 4,104 Video Materials; 231 Serial Subscriptions)

Oak Ridge has five industrial parks - Oak Ridge Summit, Heritage Center, Horizon Center, Bethel Valley, and Commerce Park - totaling approximately 6,500 acres. Space remains available for new construction within these parks. A 1,200 acre site has been set aside and may be developed as the Clinch River Industrial Park. A strategic goal is to promote joint industrial park development with surrounding communities.

The city's strategic goals include encouraging DOE to release 200 acres near Wisconsin Avenue in the far west end for new housing, and increasing new housing starts by 25% in the next three



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years. Despite the downturn in the housing market, numerous residential developments have been completed by private developers in the past five years. In east Oak Ridge, two developments sharing a golf course -- the 278 acre Centennial Village, and Park Meade Place, a 13 acre development of town homes and private executive homes -- have been completed. In west Oak Ridge, Rarity Ridge, a 1,200 acre tract, is underway with a traditional neighborhood development of 2,800 residential units and a town center with retail, commerce, and office space. In central Oak Ridge, Willow Place -- a good example of infill redevelopment -- is completed with 75 mostly single-resident homes. With a population growth of seven percent, these developments are planned to attract a portion of the many workers who are employed in, but live outside, Anderson County.

Within the city of Oak Ridge are 55 square miles of federal land under the control of DOE. Recent changes in land use in this area include construction of the \$1.4 billion Spallation Neutron Source completed in 2006, and completion of a \$10 million haul road to curtail transportation of hazardous cleanup materials on public roadways. Extensive environmental studies were conducted for both projects.

In October 2006, DOE contracted with Oak Ridge to provide fire protection to East Tennessee Technology Park. An additional city fire station has been established at this location and will dramatically improve response time to the large Rarity Ridge subdivision and other homes and businesses in the far western portion of Oak Ridge.



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## 1.7 Capabilities

The Legal and Regulatory Capabilities survey documents authorities available to the jurisdiction and/or enabling legislation at the state level affecting planning and land management tools that support local hazard mitigation planning efforts. The identified planning and land management tools are typically used by states and local and tribal jurisdictions to implement hazard mitigation activities. If the jurisdiction does not have this capability or authority, another entity/jurisdiction may have this authority at a higher level of government (county, parish, or regional political entity), or the state may prohibit the local jurisdictions from having this authority.

**Table 1.7.1 Oak Ridge Legal And Regulatory Capabilities**

Regulatory Tools/Plans	Regulatory Type: Ordinance, Resolution, Codes, Plans Etc.	Date Adopted	Local Authority	State Prohibited	Higher Authority	Electronic copy included
Building Codes	International Building Code	2007	Y			
Capital Improvements Plan	Ordinance 14/107	04/2010	Y			Y
Comprehensive Plan	Resolution 5-64-88	1988	Y	N	N	Y
Continuity of Operations Plan						
Community Rating System (Flood)						
Economic Development Plan	Oak Ridge Economic Development Board		Y			
Emergency Management Accredited						
Emergency Response Plan	County Basic Emergency Operations Plan	05/31/10	Y		Y	Y
Flood Management Plan	Ordinance 14-402	2007	Y	N	N	Y
Growth Control Ordinance	Anderson County Urban Growth Plan	03/23/01	Y	N	N	N
Hazard Mitigation Plan	Anderson County Multi-Jurisdictional HMP	09/2005	Y	N	Y	Y
Hazard Setback Regulations	Ordinance 14-301	04/1969	Y	N	N	Y
Hillside Ordinance	Ordinance 14-504	02/1998	Y	N	N	Y
Historic Ordinance						
NFIP Participant	#475441	10/27/72	Y	N	Y	N
Post-disaster Ordinance						
Post-disaster Recovery Plan	County Basic Emergency Operations Plan	05/31/10	Y	N	Y	Y
Real Estate Disclosure	Tennessee Real Estate Commission		N	N	Y	N
Shoreline Ordinance						
Site Plan Requirements	Ordinance 14-505	02/2004	Y	N	N	Y
Storm Water/Pollution Plan						
Subdivision Regulations	Ordinance 14-201	02/2004	Y	N	N	Y
Wildfire Ordinance	SBCCI Fire Code	2007	Y	N	Y	Y
Zoning Ordinances	Ordinance 14-301	Annually	Y	N	N	Y



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The Administrative and Technical Capabilities survey documents personnel employed by the jurisdiction and the public and private sector resources that may be accessed to mitigate hazards in the community. For smaller jurisdictions with limited capacities, no local staff resources may be available for many of the categories, and public resources at the next higher level of government may be able to provide technical assistance to the community.

For some hazard mitigation actions, federal agencies may provide technical assistance, such as the U.S. Department of Agriculture (USDA) Cooperative Extension Service, which has offices in most counties. The planning team in rural communities must be creative in identifying outside resources to augment limited local capabilities. This information will be used when evaluating alternative mitigation actions.

<b>Table 1.7.2 Oak Ridge Administrative And Technical Capabilities</b>					
<b>C=County Provides #, S=State Provides #, F=Federal Provides #</b>					
<b>Position</b>	<b>Staff/Personnel Resources</b>	<b>Department/Agency</b>	<b>Number Fully Trained</b>	<b>Number Fully Equipped</b>	<b>Total Personnel</b>
Agriculture Resource	Agent	State/County Extension Svc.	S3	S3	S3
Building Inspector	Professional	Zoning and Inspections	4	4	4
Emergency Communications	911 specialists	E-911	9	9	9
Emergency Manager	Certified Professional	Emergency Management	C1	C1	C1
Emergency Staff	Professional(s)	Emergency Management	C1	C1	C1
EMS	Certified	Fire Department	70	70	70
EMT/Paramedic	Certified	Fire/Rescue Service	16	16	16
Fire Personnel	Professional(s)	Fire Department	73	73	73
Floodplain Manager	Engineer(s)	Engineering/Public Works	1	1	1
GIS Specialist	Professional(s)	Property Assessor/IT	1	1	1
Government Elected	Elected Officials	Mayor/Council	7	7	7
Government Administration	Employees	Jurisdiction Total	40	40	40
Grant writer	Professional(s)	Jurisdiction	1	1	1
Hazards Analysis Mgr.	Certified	Emergency Management	1	1	1
Hazmat Team	Certified	Fire/Sheriff Department	50	50	50
Information Systems	Professional	Information Systems Department	10	10	10
Land Use/Management	Engineer(s)/Planners	State/Local Planning	7	7	7
Law Enforcement	Sheriff, Police, Trooper	Sheriff/Police Department	75	75	75
Medical Practioners	Doctor(s)/Nurse(s)	Medical Facilities	300	300	300
Public Health	Professionals	Department of Public Health	C12	C12	C12
Public Works	Engineers/Staff	Public Works	70	70	70
Public Utilities	Professionals	Public Utilities	120	120	120
Search & Rescue	Volunteers	Rescue Squad	70	70	70
Surveyor	Professional	Contracted	1	1	1
<b>Total Jurisdiction Employees</b>					<b>368</b>



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The Fiscal Capabilities survey identifies whether the jurisdiction has access to or is eligible to use certain financial resources for hazard mitigation.

Table 1.7.3 Oak Ridge Fiscal Capabilities					
Financial Resources	Description	Status			
		Yes	No	TBD	Used
Community Grants	Community Development Block Grants (CDBG)	Y			Y
	Hazard Mitigation Planning Grants (HMPG) – disaster related	Y			Y
	PDM for Disaster Resistant Universities		N		
	PDM Grants for Communities	Y			Y
	Department of Health Grants	Y			
	Department of Justice Grants	Y			Y
	Department of Agriculture Grants			X	
	Department of Energy Grants	Y			Y
	Department of Education Grants	Y			Y
	Fire Department Grants	Y			Y
	Flood Management Grants (FMA)	Y			
	Homeland Security Grant Program (HSGP)	Y			Y
	Repetitive Flood Claims Grants (RFC)	Y			
	Severe Repetitive Loss Grants (SRL)	Y			
	Private foundation grants	Y			Y
	Private business/industry grants	Y			Y
Debt Procurement	Incur debt based on special tax/revenue bonds	Y			Y
Debt Procurement	Incur debt through private activity bonds (private/jurisdiction bonds)	Y			
Impact Fees	Charge developer fees for new developments (impact fees)	Y		X	
Jurisdiction Bonds	Incur debt via general obligation bonds (no guaranteed repayment source)	Y			
Project Funding	Capital improvement budget	Y			Y
Spending Restrictions	Able to withhold spending in hazard-prone areas (permits)	Y			Y
Special Taxes	Authority to levy taxes for specific purposes (i.e. sales tax)	Y			Y
Utility Fees	Collect fees for water, sewer, gas, cable or electric service	Y			Y
Annual Revenue	173,490,940	Annual Budget	179,474,429	Sales Tax Revenue	8,400,000
Public Structures	Number 29	Total Value	591,500,000	Total Sq. Ft.	1,9981,123
Private Facilities	Number of Business	655	Number of Industries		57



## 1.8 Mitigation Goals and Objectives

The Mitigation Committee believes that each of the following goals, objectives, and action items is necessary to begin to address hazard issues in the City of Oak Ridge. The following goal statements represent a broad target for the City of Oak Ridge to achieve through the implementation of its own specific Mitigation Action Plan before the next Plan update.

<b>Table 1.8.1 Countywide Goals and Objectives</b>	
<b>Goals</b>	<b>Objectives</b>
Goal 1: Improve the capability of Anderson County and participating jurisdictions to prepare for, respond to, and recover from all profiled hazards	Objective 1.1: Improve capabilities to evaluate and manage hazard incidents. Objective 1.2: Improve dissemination of all hazards awareness, preparedness, and training information to citizens. Objective 1.3: Improve warning, evacuation, and information capabilities. Objective 1.4: Improve multi-jurisdictional, multi-agency response to all hazards Objective 1.5: Improve capabilities to recover from all hazard incidents.
Goal 2: Minimize the impact of hazardous materials spills and releases.	Objective 2.1: Identify and establish requirements for fixed sites with reportable quantities of hazardous materials. Objective 2.2: Educate citizens on response to hazardous materials incidents. Objective 2.3 Improve responder safety and response to hazardous materials events. Objective 2.4: Reduce effects to the environment from hazardous materials spills. Objective 2.5: Reduce risk of citizen proximity to hazardous materials incidents.
Goal 3: Minimize the impact of severe weather incidents on citizens and property.	Objective 3.1: Reduce the impact of drought. Objective 3.2: Reduce the impact of extreme temperatures. Objective 3.3: Reduce loss of life and property from high wind, hail, and lightning incidents caused by tropical storms, thunderstorms, and tornados. Objective 3.4: Reduce the impact of ice and snow caused by severe winter storms. Objective 3.5: Minimize utility loss during all severe weather incidents.
Goal 4: Reduce the impact on citizens and property from flash and riverine flooding incidents caused by thunderstorms and tropical storms.	Objective 4.1: Continue participation in and improve citizen awareness of the NFIP. Objective 4.2: Apply for Community Rating System approval. Objective 4.3: Identify and restrict development in flood prone areas. Objective 4.4: Reduce flooding from streams and creeks. Objective 4.5: Reduce repetitive roadway flooding. Objective 4.6: Increase citizen awareness of flood hazard and safety. Objective 4.7: Improve emergency response to flood incidents.
Goal 5: Reduce loss of life and property from urban fires.	Objective 5.1: Increase citizen awareness of fire hazards, prevention, and safety. Objective 5.2: Reduce the incidence and severity of structure fires. Objective 5.3: Improve firefighter safety and urban fire response capabilities. Objective 5.4: Improve water supply in rural areas.
Goal 6: Minimize the impact of wildfires on citizens and property.	Objective 6.1: Increase citizen awareness of and preparedness for wildfire incidents. Objective 6.2: Enforce outdoor burn ban and permit requirements. Objective 6.3: Improve firefighter safety and effectiveness in fighting wild land fires. Objective 6.4: Reduce loss of structures in urban interface wildfire incidents.
Goal 7: Protect the county's citizens and assets from domestic and international terrorism.	Objective 7.1: Increase citizen awareness of and preparedness for terrorism incidents. Objective 7.2: Reduce any loss of life resulting from terrorism events. Objective 7.3: Improve terrorism response and emergency responder safety.
Goal 8: Reduce loss of life and property from meth labs.	Objective 8.1: Increase citizen awareness of meth lab hazards, recognition, and reporting. Objective 8.2: Improve emergency responder safety at clandestine labs.



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Goal 9: Minimize property damage and public risk from landslides.	Objective 9.1: Identify areas prone to landslide. Objective 9.2: Restrict development in areas prone to landslide. Objective 9.3: Increase citizen awareness of landslide hazards.
Goal 10: Minimize potential loss of life and economic impact from dam failure.	Objective 10.1: Reduce loss of life from Norris Dam failure. Objective 10.2: Reduce loss of life and property from failure of privately owned dams. Objective 10.3: Reduce threat of private dam failure.
Goal 11: Minimize damage to property from land subsidence.	Objective 11.1: Identify karst prone areas. Objective 11.2: Improve citizen awareness of land subsidence hazards.
Goal 12: Minimize damage and loss of life from earthquakes.	Objective 12.1: Evaluate the potential for a damaging earthquake in Anderson County. Objective 12.2: Increase citizen awareness of earthquake hazards and pre-disaster mitigation strategies.
Goal 13: Minimize the impact of bioterrorism and widespread health emergencies.	Objective 13.1: Increase citizen awareness of and preparedness for pandemics. Objective 13.2: Improve response to bioterrorism incidents and pandemic emergencies. Objective 13.3: Reduce the impact of pandemic health emergencies on business, agriculture, and emergency services agencies.

## 1.9 Multi-Jurisdictional Mitigation Actions

Each jurisdiction participating in this Plan is responsible for implementing specific mitigation actions as prescribed in the adopted Mitigation Actions. In each Mitigation Action Plan, every proposed action is assigned to a specific local department or agency in order to delegate responsibility and accountability and increase the likelihood of subsequent implementation. This approach enables individual jurisdictions to update their unique mitigation strategy as needed without altering the broader focus of the countywide Plan. The separate adoption of locally specific actions also ensures that each jurisdiction is not held responsible for monitoring and implementing the actions of other jurisdictions involved in the planning process.

The mitigation actions proposed by each of the Anderson County jurisdictions participating under this Plan are contained in individual Mitigation Action Plans (MAPs). Each MAP has been designed to address the specific hazard risk and unique needs of each jurisdiction.

## 1.10 Mitigation Actions

The actions listed in the Oak Ridge Mitigation Action Plan serve as an easily understood menu of mitigation policies and projects for local decision-makers who want to quickly review their jurisdiction's respective element of the countywide Plan. In preparing the individual MAPs, each jurisdiction considered its overall hazard risk and capability to mitigate identified hazards as recorded through the risk and capability assessment process and to meet the countywide mitigation goals and the unique needs of the community.

The Mitigation Action table contains the following information:

- Responsibility = the responsible department or agency.
- Funding Source = appropriate agency budget and private/public grants.
- Estimated Cost/Benefit = the dollar cost of implementing the action vs. the dollar benefit of having the action in place, i.e., Cost of \$1,000, Benefit of \$10,000 =(\$1,000/\$10,000). The cost/benefit estimates of action items are based on previous and/or expected expenditures and estimated cost avoidance or reduction in life or property loss.



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- The estimated completion date is an estimate of the completion year and may cross two budget years. In many cases the action item is completed annually or is ongoing.

The following Table shows the hazard and action item identifier for the Mitigation Action table.

Table 1.10.1 Mitigation Action Item Identifier Table																					
Action Identifier and Application	All Hazards	Drought	Earthquake	Extreme Temp	Flooding	Hail	High Wind	Ice/Snow	Land/Mudslide	Land	Subsidence	Lightning	Wildfire	Pandemic	HAZMAT	Illegal Drugs	Terrorism	Transportation	Urban Fire	Utility Power	Utility Water
	AH	DR	EX	ET	FL	HA	HW	IS	LM	LS	LG	WF	PD	HM	IL	TR	TN	UF	UP	UW	
	1		2		3			4			a-z										
	Public Populations				1st Responder			Jurisdiction General			Jurisdiction Specific			Sequence Character							

Table 1.10.2 Oak Ridge Mitigation Action Items					
Hazard Goal & Action	Action/Project Description	Responsible Entity	Funding Source	Cost/Benefit Estimate	Date Complete Estimate
<b>Goal 1: Improve the capability of Anderson County and participating jurisdictions to prepare for, respond to, and recover from all profiled hazard incidents.</b>					
<b>Objective 1.1: Improve capabilities to evaluate and manage hazard incidents.</b>					
1.1a AH 3	Continue participation in annual Hazard Mitigation Planning Committee meetings to review progress and oversee implementation of the mitigation plan.	Planning Committee Members	Dept Budget	12,700/ 25,000	Ongoing
1.1d AH 3	Develop and annually update a list of vendor 24/7 contact information and pre-disaster MOUs.	Purchasing Agent	Dept Budget	12,500/ 100,000	FY 12-13
1.1e AH 4	Improve the city's Emergency Operations Center by providing adequate space, office, computer, and display equipment to enhance information sharing during activation.	City EMA Director	DOE Grant, City Budget	15,000/ 100,000	FY 13-14
1.1k AH 3	Develop a post-disaster ordinance.	City Council	City Budget	3,000/ 100,000	FY 13-14
1.1l AL 3	Complete requirements to attain NWS Storm Ready Community status.	Community Development	Dept Budget	12,500/ 100,000	FY 14-15
<b>Objective 1.2: Improve dissemination of all hazards awareness, preparedness, and training information to citizens.</b>					
1.2a AH1	Develop and maintain a city web page with citizen information to include shelter locations; shelter-in-place, safe room, and flood insurance information; FEMA on-line course listing; and links to disaster preparedness websites.	IT Director, Fire Chief	Dept Budget	10,000/ 100,000	FY 12-13
1.2b AH 1	Partner with volunteer and emergency response agencies to post on agency websites links to training available to citizens.	IT Director	Dept Budget	500/ 50,000	Ongoing



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<b>Table 1.10.2 Oak Ridge Mitigation Action Items</b>					
<b>Hazard Goal &amp; Action</b>	<b>Action/Project Description</b>	<b>Responsible Entity</b>	<b>Funding Source</b>	<b>Cost/ Benefit Estimate</b>	<b>Date Complete Estimate</b>
1.2c AH 1	Publish in area newspapers notice of citizen training opportunities and availability of citizen awareness training links on website.	Emergency Response Agencies	Dept Budget	500/ 50,000	Ongoing
<b>Objective 1.3: Improve warning, evacuation, and information capabilities.</b>					
1.3a AH 1	Seek grant funding to purchase and install warning sirens.	Grants Director	CDBG, City Budget	250,000/ 1,000,000	FY 14-15
1.3d AH 1	Seek grant funding to purchase and install an automated wide area rapid notification system.	Grants Director	CDBG, City Budget	20,000/ 100,000	FY 14-15
1.3e AH 1	Enact legislation to require NOAA weather radios in all schools, day care, industrial, and health care facilities.	City Council	State, Private Industry	3,000/ 100,000	FY 14-15
1.3f AH 1	Seek grant funding to provide NOAA weather radios to low-income residents.	Grants Director	Private Industry Contribution	25,000/ 1,000,000	FY 14-15
1.3g AH 3	Update evacuation routes and procedures.	Fire Chief	Dept Budget	5,000/ 100,000	FY 14-15
1.3h AH 4	Continue to support school phone system to notify parents of school emergencies.	Board of Education	School Budget	5,000/ 100,000	Ongoing
<b>Objective 1.4: Improve multi-jurisdictional, multi-agency response to all hazard incidents.</b>					
1.4a AH 3	Complete BEOP assigned mitigation and preparedness activities.	Response Agencies	Dept Budget	7,500/ 250,000	Ongoing
1.4b AH 2	Ensure all emergency response personnel are Incident Command System and National Incident Management System training compliant.	Fire Chief, Police Chief	Dept Budget	5,000/ 100,000	Ongoing
1.4f AH 2	Participate in annual exercises involving all emergency response agencies.	Response Agencies	Dept Budget	12,500/ 100,000	Ongoing
1.4h AH 2	Publish notice of federal, state, and local training opportunities to all emergency response personnel.	Response Agencies	Dept Budget	500/ 100,000	Ongoing
<b>Objective 1.5: Improve capabilities to recover from all hazard incidents.</b>					
1.5a AH 3	Develop comprehensive, economic, and continuity of operations plans.	City Mayor, City Council	City Budget	50,000 500,000	FY 15-16
1.5b AH 3	Develop redundancy strategies to prevent loss of public records in the event of damage to critical facilities.	City Depts.	Dept Budget	25,000/ 100,000	FY 15-16
1.5d AH 3	Provide debris management training for public works.	Public Works	Dept Budget	12,500/ 2,000,000	FY 15-16
1.5e AH 3	Develop a post-disaster recovery ordinance.	City Council	City Budget	15,000/ 1,000,000	FY 15-16
<b>Goal 2: Minimize the impact of hazardous materials spills and releases.</b>					
<b>Objective 2.1: Identify and establish requirements for fixed sites with reportable quantities of hazardous materials</b>					
2.1e HM 3	Enact legislation to require each Tier II site to install alert devices and develop a warning plan.	City Council, EMA	TIER II Sites	50,000/ 100,000	FY 14-15
2.1f HM 3	Create a GIS map database of Tier II sites to display ERG-established zones and evacuation perimeters.	GIS, Fire Chief	Dept Budget	7,500/ 200,000	FY 12-13



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<b>Table 1.10.2 Oak Ridge Mitigation Action Items</b>					
<b>Hazard Goal &amp; Action</b>	<b>Action/Project Description</b>	<b>Responsible Entity</b>	<b>Funding Source</b>	<b>Cost/ Benefit Estimate</b>	<b>Date Complete Estimate</b>
<b>Objective 2.2: Educate citizens on response to hazardous materials incidents</b>					
2.2a HM 1	Publish articles in area newspapers to instruct citizens on shelter-in-place.	Fire Chief	Dept Budget	500/ 100,000	Ongoing
2.2b HM 1	Partner with LEPC and EMA to distribute hazardous materials awareness and preparedness literature at community events.	Fire Chief, EMA, LEPC	Dept Budget LEPC	2,500/ 100,000	Ongoing
2.2c HM 1	Partner with schools to present programs on shelter-in-place and environmental effects of hazardous materials.	Fire Chief, Board of Education	Dept Budget	5,000/ 100,000	Ongoing
<b>Objective 2.3: Improve responder safety and Countywide response to hazardous materials incidents</b>					
2.3a HM 2	Provide training for hazardous materials awareness, operations, TEPP, technician, and CBRNE levels as appropriate for all emergency responders.	Fire Chief, Police Chief, TEMA	Dept Budget Homeland Security Grants	75,000/ 1,000,000	Ongoing
2.3d HM 2	Participate in annual hazardous materials tabletop exercises and drills involving all emergency response agencies.	City Response Agencies, EMA, LEPC	Dept Budget LEPC Grant	25,000/ 100,000	Ongoing
2.3g HM 3	Continue to participate in DOE drills and exercises.	City Response Agencies	Dept Budget	7,500/ 100,000	Ongoing
<b>Objective 2.4: Reduce effects to the environment from transportation hazardous materials spills.</b>					
2.4a TN 2	Provide training for firefighters in containing hazardous materials spills on roadways.	Fire Chief	Dept Budget	25,000/ 100,000	Ongoing
2.4b TN 2	Provide the fire department equipment to contain hazardous materials spills on roadways.	Fire Chief	Dept Budget	5,000/ 500,000	FY 12-13
2.4c TN 1	Partner with TN One-Call to distribute "call before you dig" literature to citizens at community events.	Fire Chief, TN One Call	Dept Budget	2,500/ 100,000	FY 12-13
2.4d TN 2	Provide fire department personnel CSX rail incident training.	Fire Chief	Dept Budget	20,000/ 200,000	FY 12-13
<b>Objective 2.5: Reduce risk of citizen proximity to hazardous materials incidents.</b>					
2.5a HM 3	Establish codes to prohibit construction of residential or public structures near fixed hazardous materials sites.	Codes Dept, City Council	City Budget	3,000/ 100,000	FY 14-15
2.5b TN 3	Establish codes to prohibit construction of special needs population facilities near rail lines.	Codes Dept, City Council	City Budget	3,000/ 100,000	FY 14-15
<b>Goal 3: Minimize the impact of severe weather incidents on citizens and property.</b>					
<b>Objective 3.1: Reduce the impact of drought.</b>					
3.1a DR 1	Partner with EMA to distribute drought awareness and preparedness literature to citizens at community events.	Community Development, EMA	Dept Budget	2,500/ 100,000	Ongoing
3.1b DR 3	Enact legislation to restrict non-essential water usage during periods of drought.	City Council	City Budget	3,000/ 100,000	FY 13-14
3.1c DR 3	Maintain and update annually contact information for suppliers of potable water.	Purchasing Dept	Dept Budget	500/ 100,000	Ongoing
<b>Objective 3.2: Reduce the impact of extreme temperatures.</b>					



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**Table 1.10.2 Oak Ridge Mitigation Action Items**

Hazard Goal & Action	Action/Project Description	Responsible Entity	Funding Source	Cost/Benefit Estimate	Date Complete Estimate
3.2a ET 1	Partner with EMA to distribute extreme heat and extreme cold awareness and preparedness literature to citizens at community events.	Community Development, EMA	Dept Budget	2,500/ 100,000	Ongoing
3.2b ET 1	Assist community agencies to establish heating/cooling centers for vulnerable populations.	Community Development, Health Dept	Dept Budget	3,000/ 100,000	FY 12-13
3.2c ET 2	Provide training for all city personnel subject to extreme heat and cold.	Public Works, Fire Chief	Dept Budget	3,500/ 100,000	FY 12-13
<b>Objective 3.3: Reduce the loss of life and property from high wind, hail, and lightning incidents caused by tropical storms, thunderstorms, and tornados.</b>					
3.3a HA 1	Partner with EMA to distribute hail awareness and preparedness literature to citizens at community events.	Community Development, EMA	Dept Budget	2,500/ 100,000	Ongoing
3.3d HW 1	Publish news articles and partner with EMA and Red Cross to distribute literature to educate the public on safe rooms and shelter-in-place.	Community Development, EMA, Red Cross	Dept Budget	2,500/ 100,000	Ongoing
3.3f HW 3	Continue to enforce building codes for new structures and structures undergoing renovation.	Codes Dept	Dept Budget	15,000/ 500,000	Ongoing
3.3k HW 2	Equip all fire/rescue vehicles with chain saws to ensure clearing of emergency routes following high wind incidents.	Fire Chief	AFG Grants, Dept Budget	12,500/ 100,000	FY 13-14
3.3l LG 1	Partner with EMA and Red Cross to distribute lightning awareness and preparedness literature to citizens at community events.	Community Development, EMA, Red Cross	Dept Budget	2,500/ 100,000	Ongoing
3.3m LG 3	Install lightning protection devices and grounding on critical facilities	Public Works	Dept Budget	50,000/ 2,500,000	FY 14-15
<b>Objective 3.4: Reduce the impact of ice and snow caused by severe winter storms.</b>					
3.4a IS 1	Partner with EMA and Red Cross to distribute severe winter storm awareness and preparedness literature to citizens at community events.	Community Development, EMA, Red Cross	Dept Budget	2,500/ 100,000	Ongoing
3.4c IS 2	Seek grant funding to equip all emergency response vehicles with on demand tire chains to ensure access to victims during ice and snow incidents.	Fire Chief, Police Chief	AFG Grants, Dept Budget	150,000/ 1,000,000	FY 15-16
3.4d IS 2	Develop emergency services winter storm response protocols.	Fire Chief, Police Chief	Dept Budget	2,500/ 100,000	FY 12-13
<b>Objective 3.5: Minimize utility loss during all severe weather incidents</b>					
3.5a UP 3	Continue aggressive power line right-of-way clearing to reduce incidence of telephone and power lines downed by high wind or ice/snow incidents.	Electric Utilities, Public Works	Dept Budget	50,000/ 500,000	Ongoing
3.5b UP 3	Enact legislation to require buried lines in all new cluster developments.	Codes Dept, City Council	City Budget	3,000/ 500,000	FY 15-16



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Table 1.10.2 Oak Ridge Mitigation Action Items					
Hazard Goal & Action	Action/Project Description	Responsible Entity	Funding Source	Cost/ Benefit Estimate	Date Complete Estimate
3.5c UP 1	Publish news articles and partner with EMA to distribute literature to increase citizen awareness of downed line prevention and safety.	Community Development, Electric Utilities, EMA	Dept Budget	2,500/ 100,000	Ongoing
3.5d UP 2	Provide downed line safety training to all emergency responders.	Electric Utilities	Dept Budget	15,000/ 200,000	Ongoing
3.5e UP 3	Seek grant funding to install generators or "pigtailed" in critical government facilities and fuel depots.	Grants Director	CDBG, City Budget	100,000/ 1,000,000	FY 15-16
3.5g UW 3	Seek grant funding to install water line insulation for low-income residents.	Grants Director	CDBG, ADFAC	75,000/ 500,000	FY 15-16
<b>Goal 4: Reduce the impact of citizens and property from flash and riverine flooding incidents caused by thunderstorms and tropical storms.</b>					
<b>Objective 4.1: Continue participation in and improve citizen awareness of the National Flood Insurance Program.</b>					
4.1a FL 1	Partner with EMA and Red Cross to publish news articles to advise citizens of the availability of flood insurance.	Community Development, EMA, Red Cross	Dept Budget	500/ 100,000	Ongoing
4.1b FL 1	Include information on flood insurance availability on city web page.	Community Development, IT Director	Dept Budget	500/ 100,000	FY 12-13
4.1c FL 1	Partner with local insurance agents and EMA to provide flood insurance literature to be distributed to citizens at community events.	Community Development, EMA, Local Insurers	Dept Budget	2,500/ 100,000	Ongoing
<b>Objective 4.2: Apply for Community Rating System approval.</b>					
4.2a FL 3	Coordinate with EMA to apply to receive Community Rating System status.	Community Development, EMA	Dept Budget	1,500/ 300,000	FY 14-15
<b>Objective 4.3: Identify and restrict development in flood prone areas.</b>					
4.3a FL 3	Continue to use updated FIRMs and GIS 100/500 year flood maps to restrict construction or placement of mobile homes within the flood plain.	Codes & Zoning Depts.	Dept Budget	2,500/ 100,000	Ongoing
4.3b FL 3	Evaluate methods to improve storm water systems in flood prone areas.	Storm Water Coordinator	Dept Budget	12,500/ 200,000	FY 14-15
4.3c FL 3	Evaluate the efficacy of construction of water flow and detention ponds in flood prone areas.	Storm Water Coordinator	Dept Budget	12,500/ 200,000	FY 14-15
4.3d FL 3	Continue to work with property owners to reduce run-off and erosion.	Storm Water Coordinator	Dept Budget	12,500/ 25,000	Ongoing
<b>Objective 4.4: Reduce flooding from streams and creeks.</b>					
4.4a FL 3	Install larger culverts to permit clear stream flow.	Public Works	Dept Budget TDOT	200,000/ 500,000	FY 14-15
4.4b FL 3	Provide regular maintenance to remove debris from flood prone streams and creeks.	Public Works	Dept Budget	150,000/ 300,000	Ongoing



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**Table 1.10.2 Oak Ridge Mitigation Action Items**

<b>Hazard Goal &amp; Action</b>	<b>Action/Project Description</b>	<b>Responsible Entity</b>	<b>Funding Source</b>	<b>Cost/ Benefit Estimate</b>	<b>Date Complete Estimate</b>
4.4c FL 4	Seek grant funds and partner with DOE to construct a detention basin on East Fork Poplar Creek to remediate flooding on Jefferson Avenue.	Storm Water Coordinator Grants Director	PDM Grant City Budget	3,000/ 200,000	FY 14-15
4.4d FL 4	Seek grant funding to elevate three bridges on Illinois Avenue	Storm Water Coordinator, Grants Director	PDM Grant, City Budget	3,000/ 500,000	FY 14-15
<b>Objective 4.5: Reduce repetitive roadway flooding.</b>					
4.5a FL 3	Identify and map repetitive flooding roadways and bridges.	Public Works, GIS, Highway Dept	Dept Budget	12,500/ 300,000	FY 14-15
4.5b FL 3	Evaluate efficacy of raising grade level or expanding ditch depth and width along repetitive flooding roadways	Public Works	Dept Budget	12,500/ 500,000	FY 14-15
4.5c FL 1	Partner with NWS to erect "Turn Around, Don't Drown" signage at flooding points.	Public Works	Dept Budget Private Sector Grants	5,000/ 100,000	FY 13-14
4.5d FL 1	Erect staff signage indicating water depth at flooding points.	Public Works	Dept Budget HMGP Grant	25,000/ 100,000	FY 13-14
4.5e FL 1	Install gates to block roadways and bridges during flooding.	Public Works	Dept Budget HMGP Grant	50,000/ 100,000	FY 13-14
4.5f FL 4	Seek grant funds to enlarge storm drains at Glassboro Road, Baypath Drive, and Lafayette Drive at the Midway/Midland Roads industrial park area.	Storm Water Coordinator, Grants Director	PDM Grant City Budget	3,000/ 500,000	FY 14-15
4.5g FL 4	Seek grant funds to remediate back up of East Fork Poplar Creek on Illinois Avenue.	Storm Water Coordinator, Grants Director	PDM Grant, City Budget	3,000/ 250,000	FY 14-15
<b>Objective 4.6: Increase citizen awareness of flood hazard and safety.</b>					
4.6a FL 1	Partner with EMA and Red Cross to distribute flood awareness and preparedness literature at community events.	Community Development, EMA, Red Cross	Dept Budget	2,500/ 100,000	Ongoing
4.6b FL 1	Work with citizens in affected areas to develop a community flood response plan.	Public Works	Dept Budget	5,000/ 100,000	FY 13-14
<b>Objective 4.7: Improve emergency response to flood incidents.</b>					
4.7a FL 3	Identify and map areas made inaccessible by bridge and/or roadway flooding.	Public Works, GIS	Dept Budget	5,000/ 100,000	FY 13-14
4.7c FL 2	Train emergency response agencies in flood response safety.	Response Agencies	Dept Budget	10,000/ 100,000	FY 12-13



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<b>Table 1.10.2 Oak Ridge Mitigation Action Items</b>					
<b>Hazard Goal &amp; Action</b>	<b>Action/Project Description</b>	<b>Responsible Entity</b>	<b>Funding Source</b>	<b>Cost/ Benefit Estimate</b>	<b>Date Complete Estimate</b>
<b>Goal 5: Reduce loss of life and property from urban fires.</b>					
<b>Objective 5.1: Increase citizen awareness of fire hazards, prevention, and safety.</b>					
5.1a UF 1	Continue aggressive fire prevention education programs in all schools.	Fire Chief	Dept Budget	10,000/ 100,000	Ongoing
5.1b UF 1	Seek grant funding to purchase materials and equipment to enhance fire prevention education programs.	Fire Chief	Dept Budget AFG Program	5,000/ 100,000	Ongoing
5.1c UF 1	Partner with volunteer agencies to present fire prevention education programs to service clubs, senior citizens, and special needs populations.	Fire Chief, Volunteer Agencies	Dept Budget	5,000/ 100,000	Ongoing
5.1d UF1	Partner with volunteer agencies to present programs on the use of fire extinguishers.	Fire Chief, Volunteer Agencies	Dept Budget	5,000/ 100,000	Ongoing
5.1e UF 1	Partner with EMA to distribute fire prevention education literature at community events.	Fire Chief, EMA	Dept Budget	2,500/ 100,000	Ongoing
5.1f UF 1	Partner with the media to promote "change your clock, change your smoke alarm battery" twice yearly.	Fire Chief	Dept Budget	500/ 100,000	Ongoing
5.1g UF 1	Seek grant funding to provide free smoke alarms to citizens.	Fire Chief	Dept Budget AFG Program	5,000/ 100,000	Ongoing
5.1h UF 1	Partner with volunteer agencies to install smoke alarms for special needs populations.	Fire Chief, Volunteer Agencies	Dept Budget Agency Budget	2,500/ 100,000	Ongoing
<b>Objective 5.2: Reduce the incidence and severity of structure fires.</b>					
5.2b UF 3	Continue rigid enforcement of existing fire and electrical codes.	Codes Dept	Dept Budget	15,000/ 100,000	Ongoing
5.2c UF 3	Enact legislation to require sprinkler systems in all new construction.	City Council	City Budget	3,000/ 250,000	FY 14-15
5.2d UF 3	Develop and annually update emergency pre-plans for all public buildings, schools, businesses, and churches.	Fire Chief	Dept Budget	50,000/ 2,000,000	Ongoing
<b>Objective 5.3: Improve firefighter safety and response capabilities</b>					
5.3a UF 2	Provide training for state and national certifications for career firefighters.	Fire Chief	Dept Budget	25,000/ 100,000	Ongoing
5.3b UF 3	Continue to apply for Assistance to Firefighter Grants (AFG).	Fire Chief	Dept Budget	5,000/ 2,000,000	Ongoing
5.3c UF 3	Continue to provide matching funds to departments awarded Assistance to Firefighter Grants (AFG).	City Council	City Budget	50,000/ 1,000,000	Ongoing
<b>Goal 6: Minimize the impact of wildfires on citizens and property</b>					
<b>Objective 6.1: Increase citizen awareness and preparedness for wildfire incidents.</b>					
6.1a WF 1	Expand public fire prevention education to include programs on wildfire and arson.	Fire Chief	Dept Budget	1,000/ 100,000	Ongoing
6.1b WF 1	Publish news articles to promote wildfire awareness.	Fire Chief, Forestry	Dept Budget	500/ 100,000	Ongoing



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**Table 1.10.2 Oak Ridge Mitigation Action Items**

Hazard Goal & Action	Action/Project Description	Responsible Entity	Funding Source	Cost/Benefit Estimate	Date Complete Estimate
6.1c WF 1	Publish outdoor burn permit requirements in area newspapers in October.	Fire Chief, Forestry	Dept Budget	500/ 100,000	Ongoing
6.1e WF 1	Publish outdoor burn ban information in area newspapers, as required.	Forestry, Fire Chief	Dept Budget	500/ 100,000	Ongoing
6.1f WF 1	Partner with the Division of Forestry and EMA to distribute USFS fuels reduction, wildfire awareness, and prevention literature at community events.	Forestry, Fire Chief, EMA	Dept Budget	2,500/ 100,000	Ongoing
<b>Objective 6.2: Enforce outdoor burn ban and permit requirements.</b>					
6.2a WF 3	Enact legislation to make mandatory fines for non-permitted outdoor burning.	City Council	City Budget	3,000/ 100,000	FY 14-15
6.2b WF 3	Require prosecution and restitution for arson.	Forestry, City Council	Dept Budget	3,000/ 100,000	FY 14-15
<b>Objective 6.3: Improve firefighter safety and effectiveness during wild land firefighting operations.</b>					
6.3a WF 3	Continue the partnership between the fire department and the Division of Forestry.	Forestry, Fire Chief	N/A	0/ 50,000	Ongoing
6.3b WF 3	Provide annual wild land fire training for all fire department personnel.	Forestry, Fire Chief	Dept Budget	25,000/ 100,000	Ongoing
6.3c WF 3	Seek grant funding to purchase wild land firefighting equipment.	Fire Chief, Grants Director	Dept Budget AFG, Forestry Grants	15,000/ 100,000	Ongoing
<b>Objective 6.4: Reduce loss of structures in urban interface wildfire incidents.</b>					
6.4a WF 3	Enforce codes stipulating setback distances for all new structures not using fire-resistive materials.	Codes Dept	Dept Budget	3,000/ 150,000	FY 14-15
6.4b WF 3	Partner with Forestry and EMA to publish news articles and distribute Firewise literature to increase citizen awareness of recommended setback distances.	Community Development, Forestry, EMA	Dept Budget	2,500/ 150,000	Ongoing
<b>Goal 7: Protect the county's citizens and assets from domestic and international terrorism.</b>					
<b>Objective 7.1: Increase citizen awareness and preparedness for terrorism incidents.</b>					
7.1a TR 1	Partner with TEMA and EMA to distribute terrorism awareness and preparedness literature at community events.	Community Development, TEMA, EMA	Dept Budget	2,500/ 100,000	Ongoing
<b>Objective 7.2: Decrease the possibility of and loss of life from attacks on public facilities.</b>					
7.2a TR 3	Continue to restrict parking of vehicles in close proximity to critical facilities.	Public Works	Dept Budget	10,000/ 2,000,000	Ongoing
7.2c TR 3	Assist critical facilities to develop emergency response plans.	Fire Chief, Critical Facilities	Dept Budget	25,000/ 250,000	FY 12-13
7.2d TR 3	Develop and practice quarterly an evacuation plan for all critical facilities.	Fire Chief, Critical Facilities	Dept Budget	12,500/ 250,000	FY 13-14



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<b>Table 1.10.2 Oak Ridge Mitigation Action Items</b>					
<b>Hazard Goal &amp; Action</b>	<b>Action/Project Description</b>	<b>Responsible Entity</b>	<b>Funding Source</b>	<b>Cost/ Benefit Estimate</b>	<b>Date Complete Estimate</b>
7.2e TR 3	Partner with schools to improve security and lockdown procedures.	Police Chief, School Board	Dept Budget	12,500/ 250,000	Ongoing
<b>Objective 7.3: Improve terrorism response capabilities and emergency responder safety.</b>					
7.3a TR 3	Continue to participate in the Joint Terrorism Task Force.	Police Chief	Dept Budget	12,500/ 100,000	Ongoing
7.3b TR 2	Provide Emergency Response to Terrorism training for all emergency response agencies.	TEMA, Fire Chief, Police Chief	Dept Budget	15,000/ 100,000	Ongoing
<b>Goal 8: Reduce loss of life and property from meth labs.</b>					
<b>Objective 8.1: Increase citizen awareness of meth lab hazards, recognition, and reporting.</b>					
8.1a IL 3	Partner with the drug task force and EMA to distribute meth lab awareness information at community events.	Police Chief, Drug Task Force, EMA	Dept Budget	2,500/ 100,000	Ongoing
8.1b IL 1	Provide meth lab awareness training for citizens.	Police Chief	Dept Budget	5,000/ 100,000	Ongoing
8.1c IL 1	Partner with schools to promote awareness, recognition, and reporting of meth labs.	Police Chief, Board of Education	Dept Budget	12,500/ 100,000	Ongoing
<b>Objective 8.2: Improve emergency responder safety at clandestine labs.</b>					
8.2a IL 4	Continue participation in the state and federal drug task force.	Police Chief	Dept Budget DOJ, DEA	5,000/ 100,000	Ongoing
8.2b IL 2	Provide training and equipment for law enforcement and drug task force personnel.	Police Chief	Dept Budget DOJ, DEA	30,000/ 100,000	Ongoing
8.2c IL 2	Develop meth lab SOGs for emergency responders.	Police Chief, Fire Chief	Dept Budget	5,000/ 100,000	FY 12-13
<b>Goal 9: Minimize property damage and public risk from landslides.</b>					
<b>Objective 9.1: Identify areas prone to landslide.</b>					
9.1a LM 3	Participate in a countywide study to determine and GIS map potential landslide areas.	Public Works, GIS	Dept Budget	12,500/ 500,000	FY 16-17
9.1b LM 3	Conduct meetings between road and planning departments to prioritize potential landslide areas and methods of remediation.	Public Works, Highway Dept	Dept Budget	12,500/ 500,000	FY 16-17
9.1c LM 4	Seek grant funding to remediate areas prone to landslide on Melton Lake Drive.	Public Works, Grants Director	HMGP Grant City Budget	3,000/ 250,000	FY 16-17
<b>Objective 9.2: Restrict development in areas prone to landslide.</b>					
9.2a LM 3	Revise zoning and building codes to restrict construction in landslide hazard areas.	Codes Dept	Dept Budget	3,000/ 500,000	FY 16-17
<b>Objective 9.3: Increase citizen awareness of landslide hazards.</b>					
9.3a LM 1	Partner with EMA to distribute landslide awareness and safety information at community events.	Community Development, EMA	Dept Budget	2,500/ 100,000	Ongoing
9.3b LM 1	Erect signage to warn motorists of landslide danger at identified sites.	Public Works	Dept Budget	3,000/ 100,000	FY 16-17



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<b>Table 1.10.2 Oak Ridge Mitigation Action Items</b>					
<b>Hazard Goal &amp; Action</b>	<b>Action/Project Description</b>	<b>Responsible Entity</b>	<b>Funding Source</b>	<b>Cost/ Benefit Estimate</b>	<b>Date Complete Estimate</b>
<b>Goal 10: Minimize potential loss of life and economic impact from dam failure.</b>					
<b>Objective 10.1: Reduce loss of life from Norris Dam failure.</b>					
10.1c FL 1	Partner with EMA to distribute dam failure awareness and preparedness literature at community events.	Community Development, EMA	Dept Budget	2,500/ 100,000	Ongoing
<b>Objective 10.3: Improve emergency preparedness and response to flooding from dam failure.</b>					
10.3a FL 3	Quantify extent of flooding in Oak Ridge from Norris Dam failure.	GIS	Dept Budget	7,500/ 200,000	FY 16-17
10.3b FL 4	Develop emergency plans for response to and recovery from Norris Dam failure.	Fire Chief Police Chief	Dept Budget	5,000/ 1,000,000	FY 16-17
<b>Goal 11: Minimize damage to property from land subsidence.</b>					
<b>Objective 11.1: Identify karst prone areas.</b>					
11.1a LS 3	Participate in a UT geology department countywide study of karst areas and known sinkholes.	Public Works, EMA	Dept Budget	12,500/ 3,000,000	FY 16-17
11.1b LS 3	Create GIS maps showing karst areas.	GIS	Dept Budget	5,000/ 3,000,000	FY 16-17
<b>Objective 11.2: Improve citizen awareness of land subsidence hazards</b>					
11.2b LS 3	Require property owners to sign acknowledgement of subsidence risk notification before issuing building permits on high-risk sites.	Planning & Zoning	Dept Budget	1,000/ 100,000	FY 16-17
11.2c LS 1	Partner with EMA to distribute subsidence awareness literature at community events.	Community Development, EMA	Dept Budget	2,500/ 100,000	Ongoing
<b>Goal 12: Minimize damage and loss of life from earthquakes.</b>					
<b>Objective 12.1: Evaluate the potential for a damaging earthquake in Anderson County.</b>					
12.1a EQ 3	Participate in a state Division of Geology study to quantify the potential for an earthquake greater than 6.0 in Anderson County.	Public Works, GIS	Dept Budget	12,500/ 100,000	FY 16-17
12.1b EQ 3	Participate in a UT geology department study to identify areas of greatest earthquake hazard.	Public Works, GIS	Dept Budget	12,500/ 100,000	FY16-17
12.1c EQ 3	Create a GIS mapping database to determine critical facilities and numbers of other structures that would be affected by earthquake.	GIS	Dept Budget	5,000/ 100,000	FY 16-17
<b>Objective 12.2: Increase citizen awareness of earthquake hazards and pre-disaster mitigation strategies.</b>					
12.2a EQ 1	Partner with EMA to distribute earthquake awareness and preparedness literature at community events.	Community Development, EMA	Dept Budget	2,500/ 100,000	Ongoing
12.2b EQ 1	Partner with EMA and local insurance agents to distribute earthquake insurance information at community events.	Community Development, EMA, Local Insurers	Dept Budget	2,500/ 100,000	Ongoing
<b>Goal 13: Minimize the impact of bioterrorism and widespread health emergencies.</b>					
<b>Objective 13.1: Increase citizen awareness and preparedness for pandemic health incidents.</b>					



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<b>Table 1.10.2 Oak Ridge Mitigation Action Items</b>					
<b>Hazard Goal &amp; Action</b>	<b>Action/Project Description</b>	<b>Responsible Entity</b>	<b>Funding Source</b>	<b>Cost/ Benefit Estimate</b>	<b>Date Complete Estimate</b>
13.1a PD 1	Partner with the Health Department and EMA to distribute pandemic awareness and preparedness literature at community events.	Community Development, Health Dept, EMA	Dept Budget	2,500/ 100,000	Ongoing
13.1b PD 1	Include on the city web page the state Health Department link for pandemic planning information.	IT Director	N/A	0/ 100,000	FY 12-13
<b>Objective 13.2: Improve response to bioterrorism incidents and pandemic health emergencies.</b>					
13.2c PD 3	Continue to participate in Strategic National Stockpile drills and exercises.	Emergency Response Agencies, Health Dept	Dept Budget	5,000/ 100,000	Ongoing
<b>Objective 13.3: Reduce the impact of bioterrorism and pandemic health emergencies on business, agriculture, and emergency services agencies.</b>					
13.3a PD 3	Assist businesses to develop pandemic emergency plans.	Community Development, Health Dept	Dept Budget	25,000/ 200,000	FY 13-14
13.3b PD 3	Develop pandemic emergency plans for emergency services and city departments.	All City Depts. and Agencies, Health Dept	Dept Budget	12,500/ 300,000	FY 13-14



## 1.11 Mitigation Actions Prioritizing

Prioritizing mitigation actions for each jurisdiction was based on the “STAPLEE” process. “STAPLEE” uses multiple factors under the categories of Social, Technical, Admistration, Legal, Economic and Environment. The original “STAPLEE” factors have been modified to enhance the prioritization process. The enhancements include adding life, property and economic items to the Social category and implementing weighting factors to Social and Economic categories. A weighting factor of 3 is used for loss of life, property, and economic loss. A weighting factor of 2 is used for cost/benefit items. The actual table used for prioritization is at the end of this section.

<b>Table 1.11.1 “STAPLEE” Prioritizing Process</b>			
<b>Issue</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>Social</b>			
High Community Acceptance	Potential objection from public and/or very expensive	Unknown if objectionable, or costs may be significant	Not objectionable and low/no costs
High Effect on saving lives	Life saving impact is low	Life saving impact is moderate	Life saving impact is significant
High Effect on reducing property loss	Effect on reducing property loss is low	Effect on reducing property loss is moderate	Effect on reducing property loss is significant
Effect on reducing economic loss	Effect on reducing economic loss is low	Effect on reducing economic loss is moderate	Effect on reducing economic loss is significant
<b>Technical</b>			
Technical Feasible	Technology not currently existing	Emerging or untested technology or unknown	Technology readily available
Is a Long-Term Solution	No, is not effective in helping reduce losses in the long term	Potentially or unknown	Yes, is effective in helping reduce losses in the long term
No Secondary Impacts	Yes, likely to create secondary problems	Potentially or unknown	No, unlikely to create secondary problems
<b>Administrative</b>			
Little Staffing is required	Need to hire a permanent employee(s)	Potentially need to hire a temporary employee(s) or unknown.	Do not have to hire
Funding Potential is high	No obvious source of funding available and action has significant cost impact	Limited or unknown funding available	Little or no funding required or funding can be readily obtained
Low Maintenance and Operations	The action is likely to require high level of ongoing maintenance	Unknown or action has the potential for moderate ongoing maintenance	Action requires limited or no ongoing maintenance
<b>Political</b>			
High Political Support	Local Elected Official likely to be contentious	Local Elected Official may be controversial	Local Elected Official likely to be supportive
Local Champion available	Unlikely there is a Local Elected Official to support	Uncertain if there is a Local Elected Official to champion	A Local Elected Official is likely to support and champion
High Public Support	Public Political support is unlikely	Public Political support is uncertain	Public Political support is likely
<b>Legal</b>			
State Authority Exists	No legal state authority exists	Legal state authority is unclear, uncertain or adoption is in progress	Legal state authority exists



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Local Authority Exists	No legal authority exists	Legal authority is unclear, uncertain or adoption is in progress	Legal authority exists
Potential Legal Challenge is high	High likelihood of legal challenge by stakeholders	Moderate likelihood of legal challenge by stakeholders	Low likelihood of legal challenge by stakeholders
<b>Economic</b> High Action Benefit	Low benefit to the jurisdiction from the action	Moderate benefit to the jurisdiction from the action	High benefit to the jurisdiction from the action
Low Action Cost	High cost to implement action	Moderate cost to implement action	Low cost to implement action
High Economic Contribution	Low contribution to other community economic goals	Moderate contribution to other community economic goals	High contribution to other community economic goals
Outside Funding is Required	Likely for action to be delayed pending outside sources of funding	Possible for action to be delayed pending outside sources of funding	Unlikely for action to be delayed pending outside sources of funding
<b>Environmental</b> Low Land/Water Effect	High likelihood of negative consequences to land/water	Moderate likelihood of negative consequences to land/water	Low likelihood of negative consequences to land/water
Low Endangered Species Effect	High likelihood of potential negative consequences to endangered species	Moderate likelihood of negative consequences to endangered species	Low likelihood of negative consequences to endangered species
Low Hazmat Waste Site affect	High likelihood of potential affect on hazardous materials and waste sites	Moderate likelihood of affect on hazardous materials and waste sites	Low likelihood of affect on hazardous materials and waste sites
Low Environment Effect	No, project is not consistent with jurisdiction environmental goals	Possible, project is consistent with jurisdiction environmental goals	Yes, project is consistent with jurisdiction environmental goals
Federal Law Compliant	No	Uncertain	Yes
Prioritizing mitigation actions for each jurisdiction was based on the "STAPLEE" process. "STAPLEE" uses multiple factors under the categories of <u>S</u> ocial, <u>T</u> echnical, <u>A</u> dmistration, <u>L</u> egal, <u>E</u> conomic and <u>E</u> nvironment			

Table 1.11.2 "STAPLEE" Mitigation Actions Prioritization Table																										
Action/Project Description	Social			Technical		Administrative		Political		Legal		Economic		Environmental		Prioritization										
	High Community Acceptance	High Effect on Loss of Life-WF=3	High Effect on Property Loss WF=3	High Effect on Economic Loss WF=3	Is Technical Feasibility	Is a Long-Term Solution	No Secondary Impacts	Little Staffing required	Funding Potential is High	Low Maintenance/Operations	High Political Support	Has a Local Champion	Has Public Support	State Authorized	Local Authority Exists		Potential Legal Challenge is High	Action Benefit is High WF=2	Action Cost is Low WF=2	High Economic Goal Contribution	Outside Funding Not Required	Land/Water Effect is Low	Low Endangered Species Effect	HAZMAT Waste Site Effect is Low	Environmental Effect is Low	Federal Law Compliant is High



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**Table 1.11.2 "STAPLEE" Mitigation Actions Prioritization Table**

Action/Project Description	Social			Technical			Administrative			Political			Legal			Economic			Environmental			Prioritization			
	High Community Acceptance	High Effect on Loss of Life-WF=3	High Effect on Property Loss WF=3	High Effect on Economic Loss WF=3	is Technical Feasibility is a Long-Term Solution	No Secondary Impacts	Little Staffing required	Funding Potential is High	Low Maintenance/Operations	High Political Support	Has a Local Champion	Has Public Support	State Authorized	Local Authority Exists	Potential Legal Challenge is High	Action Benefit is High WF=2	Action Cost is Low WF=2	High Economic Goal Contribution	Outside Funding Not Required	Land/Water Effect is Low	Low Endangered Species Effect		HAZMAT Waste Site Effect is Low	Environmental Effect is Low	Federal Law Compliant is High
Continue aggressive fire prevention education programs in all schools.	3	9	9	9	3	2	2	2	3	2	3	3	3	3	6	6	3	3	3	3	3	3	3	3	94
Partner with volunteer agencies to present fire prevention education programs to service clubs, senior citizens, and special needs populations.	3	9	9	9	3	2	2	2	3	2	3	3	3	3	6	6	3	3	3	3	3	3	3	3	94
Partner with volunteer agencies to present programs on the use of fire extinguishers.	3	9	9	9	3	2	2	2	3	2	3	3	3	3	6	6	3	3	3	3	3	3	3	3	94
Partner with EMA to distribute fire prevention education literature at community events.	3	9	9	9	3	2	2	2	3	2	3	3	3	3	6	6	3	3	3	3	3	3	3	3	94
Seek grant funding to purchase materials and equipment to enhance fire prevention education programs.	3	9	9	9	3	2	2	2	2	2	2	3	3	3	6	6	3	3	3	3	3	3	3	3	92
Partner with the media to promote "change your clock, change your smoke alarm battery" twice yearly.	3	6	9	9	3	2	2	2	3	2	3	3	3	3	6	6	3	3	3	3	3	3	3	3	91
Partner with schools to improve security and lockdown procedures.	3	6	6	6	3	3	3	2	3	2	3	3	3	3	6	6	3	3	3	3	3	3	3	3	88
Quantify extent of flooding in Oak Ridge from Norris Dam failure.	3	6	9	9	3	3	3	2	2	2	2	2	3	3	6	4	3	3	3	3	3	3	3	3	88
Partner with volunteer agencies to install smoke alarms for special needs populations.	3	6	9	9	3	3	2	2	2	2	2	3	3	3	6	4	3	2	3	3	3	3	3	3	87
Participate in a state Division of Geology study to quantify the potential for an earthquake greater than 6.0 in Anderson County.	3	6	6	9	3	2	3	2	3	2	2	2	3	3	6	6	3	3	3	3	3	3	3	3	87
Partner with schools to present programs on shelter-in-place and environmental effects of hazardous materials.	3	6	3	6	3	3	3	2	3	2	3	3	3	3	6	6	3	3	3	3	3	3	3	3	85
Partner with EMA to distribute dam failure awareness and preparedness literature at community events.	3	6	6	9	3	2	3	2	3	2	3	3	3	3	4	4	3	3	3	3	3	3	3	3	85



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Table 1.11.2 "STAPLEE" Mitigation Actions Prioritization Table

Action/Project Description	Social		Technical		Administrative		Political		Legal		Economic		Environmental		Prioritization												
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Participate in a UT geology department study to identify areas of greatest earthquake hazard.	3	6	6	9	3	2	3	2	2	3	2	2	2	3	3	3	6	4	3	3	3	3	3	3	3	3	85
Continue to enforce building codes for new structures and structures undergoing renovation.	2	6	9	9	3	3	2	2	2	2	2	2	2	3	3	1	6	4	3	3	3	3	3	3	3	3	84
Seek grant funding to provide free smoke alarms to citizens.	3	6	9	9	3	3	2	2	1	2	1	1	3	3	3	3	6	4	3	2	3	3	3	3	3	3	84
Continue rigid enforcement of existing fire and electrical codes.	2	6	9	9	3	3	2	1	2	2	2	2	2	3	3	2	6	4	3	3	3	3	3	3	3	3	84
Include on the city web page the state Health Department link for pandemic planning information.	3	9	0	6	3	2	3	2	3	2	3	3	3	3	3	3	6	6	3	3	3	3	3	3	3	3	84
Expand public fire prevention education to include programs on wildfire and arson.	3	3	6	6	3	2	3	2	3	2	3	2	3	3	3	3	6	6	3	3	3	3	3	3	3	3	83
Publish news articles to promote wildfire awareness.	3	3	6	6	3	2	3	2	3	2	3	2	3	3	3	3	6	6	3	3	3	3	3	3	3	3	83
Publish outdoor burn permit requirements in area newspapers in October.	3	3	6	6	3	2	3	2	3	2	3	2	3	3	3	3	6	6	3	3	3	3	3	3	3	3	83
Publish outdoor burn ban information in area newspapers, as required.	3	3	6	6	3	2	3	2	3	2	3	2	3	3	3	3	6	6	3	3	3	3	3	3	3	3	83
Partner with the Division of Forestry and EMA to distribute USFS fuels reduction, wildfire awareness, and prevention literature at community events.	3	3	6	6	3	2	3	2	3	2	3	2	3	3	3	3	6	6	3	3	3	3	3	3	3	3	83
Create a GIS mapping database to determine critical facilities and numbers of other structures that would be affected by earthquake.	3	6	6	9	3	2	3	2	2	2	2	2	2	3	3	3	6	4	3	2	3	3	3	3	3	3	83



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Continue participation in annual Hazard Mitigation Planning Committee meetings to review progress and oversee implementation of the mitigation plan.	2	9	9	9	3	3	2	1	3	1	2	2	2	3	3	3	6	4	3	1	2	2	2	2	3	3	82
Partner with LEPC and EMA to distribute hazardous materials awareness and preparedness literature at community events.	3	6	6	6	3	2	3	2	3	2	2	2	3	3	3	3	6	4	3	2	3	3	3	3	3	3	82
Continue to use updated FIRMs and GIS 100/500 year flood maps to restrict construction or placement of mobile homes within the flood plain.	2	6	6	9	3	3	2	2	2	1	2	2	2	3	3	3	6	4	3	3	3	3	3	3	3	3	82
Continue the partnership between the fire department and the Division of Forestry.	3	3	6	6	3	2	3	2	3	2	3	3	3	3	3	3	4	6	3	3	3	3	3	3	3	3	82
Partner with Forestry and EMA to publish news articles and distribute Firewise literature to increase citizen awareness of recommended setback distances.	3	3	6	6	3	2	3	2	3	2	3	3	3	3	3	3	4	6	3	3	3	3	3	3	3	3	82
Partner with TEMA and EMA to distribute terrorism awareness and preparedness literature at community events.	3	3	6	6	3	2	3	2	3	2	3	3	3	3	3	3	4	6	3	3	3	3	3	3	3	3	82
Partner with EMA to distribute earthquake awareness and preparedness literature at community events.	3	0	6	9	3	3	3	2	3	2	2	2	2	3	3	3	6	6	3	3	3	3	3	3	3	3	82
Require prosecution and restitution for arson.	3	3	6	6	3	3	3	2	3	2	3	3	3	3	3	3	4	4	3	3	3	3	3	3	3	3	81
Continue to participate in Strategic National Stockpile drills and exercises.	3	9	0	6	3	2	3	2	3	2	3	3	3	3	3	3	6	4	3	2	3	3	3	3	3	3	81
Assist businesses to develop pandemic emergency plans.	3	6	0	6	3	2	3	2	3	2	3	3	3	3	3	3	6	6	3	3	3	3	3	3	3	3	81



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Partner with volunteer and emergency response agencies to post on agency websites links to training available to citizens.	2	6	6	6	3	3	3	2	3	2	2	2	3	3	3	4	4	2	3	3	3	3	3	3	80
Publish in area newspapers notice of citizen training opportunities and availability of citizen awareness training links on website.	2	6	6	6	3	3	3	2	3	2	2	2	3	3	3	4	4	2	3	3	3	3	3	3	80
Enact legislation to require NOAA weather radios in all schools, day care, industrial, and health care facilities.	3	9	3	3	3	3	2	2	3	2	2	3	3	3	3	6	4	2	3	3	3	3	3	3	80
Partner with EMA and Red Cross to distribute flood awareness and preparedness literature at community events.	3	6	6	6	3	2	3	2	3	2	3	2	3	3	3	3	3	3	3	3	3	3	3	3	80
Work with citizens in affected areas to develop a community flood response plan.	3	6	6	9	3	2	2	2	3	2	3	2	3	3	3	3	2	3	3	2	3	3	3	3	80
Develop and annually update emergency pre-plans for all public buildings, schools, businesses, and churches.	2	6	6	6	3	2	3	1	2	2	3	2	3	3	3	6	4	3	2	3	3	3	3	3	80
Provide training for state and national certifications for career firefighters.	3	3	6	6	3	2	3	2	3	2	3	2	3	3	3	6	4	3	2	3	3	3	3	3	80
Continue to apply for Assistance to Firefighter Grants (AFG).	3	3	6	6	3	2	3	2	3	2	3	2	3	3	3	6	4	3	2	3	3	3	3	3	80
Continue to provide matching funds to departments awarded Assistance to Firefighter Grants (AFG).	3	3	6	6	3	2	3	2	3	2	3	2	3	3	3	6	4	3	2	3	3	3	3	3	80
Complete BEOP assigned mitigation and preparedness activities.	2	6	6	6	3	3	3	2	3	2	2	2	2	3	3	4	4	3	2	3	3	3	3	3	79



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Develop and maintain a city web page with citizen information to include shelter locations; shelter-in-place, safe room, and flood insurance information; FEMA on-line course listing; and links to disaster preparedness websites.	3	9	6	6	3	3	3	1	2	1	2	2	2	2	2	2	3	3	3	4	2	3	2	3	3	3	3	78	
Provide training for hazardous materials awareness, operations, TEPP, technician, and CBRNE levels as appropriate for all emergency responders.	3	6	6	6	3	2	3	2	2	2	2	2	2	2	2	2	3	3	3	3	4	4	3	2	3	3	3	3	78
Publish news articles and partner with EMA and Red Cross to distribute literature to educate the public on safe rooms and shelter-in-place.	3	9	0	3	3	2	3	2	3	3	3	2	3	3	3	3	4	6	2	3	3	3	3	3	3	3	3	78	
Partner with local insurance agents and EMA to provide flood insurance literature to be distributed to citizens at community events.	2	0	9	6	3	3	2	2	3	2	3	2	3	2	3	3	3	3	3	4	4	3	3	3	3	3	3	78	
Identify and map repetitive flooding roadways and bridges.	2	6	6	6	3	3	3	2	2	2	3	2	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	78	
Assist critical facilities to develop emergency response plans.	3	3	3	6	3	2	3	2	3	2	3	2	3	2	3	3	3	3	3	4	6	3	3	3	3	3	3	78	
Develop and practice quarterly an evacuation plan for all critical facilities.	3	3	3	6	3	2	3	2	3	2	3	2	3	3	3	3	4	6	3	3	3	3	3	3	3	3	3	78	
Develop emergency plans for response to and recovery from Norris Dam failure.	3	6	9	9	3	2	3	2	2	2	2	2	2	2	2	2	3	3	3	6	4	3	3	3	3	3	3	78	
Develop pandemic emergency plans for emergency services and city departments.	3	6	0	6	3	2	3	2	3	2	3	3	3	3	3	3	6	4	3	2	3	3	3	3	3	3	3	78	
Complete requirements to attain NWS Storm Ready Community status.	2	6	6	6	3	3	2	2	2	2	2	2	2	2	2	2	3	3	3	4	4	2	3	3	3	3	3	77	
Enact legislation to require sprinkler systems in all new construction.	2	6	9	9	3	3	2	2	2	2	2	1	1	3	3	1	6	2	3	2	2	3	3	2	3	2	3	77	



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Partner with the Health Department and EMA to distribute pandemic awareness and preparedness literature at community events.	3	9	0	0	3	3	2	3	2	2	3	2	3	3	3	3	6	3	3	3	3	3	3	3	77	
Develop a post-disaster ordinance.	2	6	6	6	3	3	2	2	3	1	2	2	2	3	3	2	4	6	3	3	2	2	3	2	3	76
Seek grant funding to provide NOAA weather radios to low-income residents.	3	9	0	3	3	3	3	2	2	2	2	2	3	3	3	3	6	4	2	2	3	3	3	3	75	
Continue to support school phone system to notify parents of school emergencies	3	6	3	3	3	3	3	1	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	75	
Partner with TN One-Call to distribute "call before you dig" literature to citizens at community events.	3	3	3	3	3	3	2	2	3	3	2	2	3	3	2	6	6	2	3	3	3	3	3	3	75	
Publish news articles and partner with EMA to distribute literature to increase citizen awareness of downed line prevention and safety.	2	3	3	3	3	2	2	3	3	3	2	3	3	3	3	4	6	3	3	3	3	3	3	3	75	
Provide downed line safety training to all emergency responders.	2	3	3	3	3	2	3	2	3	3	3	2	3	3	3	4	6	3	3	3	3	3	3	3	75	
Seek grant funding to install generators or "pigtailes" in critical government facilities and fuel depots.	2	3	3	3	3	2	3	2	3	3	2	3	3	3	3	4	6	3	3	3	3	3	3	3	75	
Partner with EMA and Red Cross to publish news articles to advise citizens of the availability of flood insurance.	2	0	6	6	3	3	2	2	3	2	3	2	3	3	3	4	4	3	3	3	3	3	3	3	75	
Include information on flood insurance availability on city web page.	2	0	6	6	3	3	2	2	3	2	3	2	3	3	3	4	4	3	3	3	3	3	3	3	75	
Provide annual wild land fire training for all fire department personnel.	3	3	6	6	3	2	3	2	2	2	2	2	2	3	3	4	4	3	2	3	3	3	3	3	75	
Partner with EMA to distribute landslide awareness and safety information at community events.	3	3	3	6	3	2	3	2	2	2	2	3	3	3	3	4	4	3	3	3	3	3	3	3	75	



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Improve the city's Emergency Operations Center by providing adequate space, office, computer, and display equipment to enhance information sharing during activation.	2	9	9	9	3	3	2	1	1	1	2	2	2	3	3	2	3	1	3	1	2	2	3	2	3	74
Participate in annual hazardous materials tabletop exercises and drills involving all emergency response agencies.	2	6	6	6	3	2	2	2	1	2	2	2	2	3	3	2	6	2	3	2	3	3	3	3	3	74
Continue to participate in DOE drills and exercises.	2	6	6	6	3	2	2	2	2	2	2	2	2	3	3	2	6	4	3	2	2	2	3	2	3	74
Enact legislation to make mandatory fines for non-permitted outdoor burning.	2	3	6	6	3	3	2	2	2	2	2	2	2	3	3	2	4	4	3	3	3	3	3	3	3	74
Continue to restrict parking of vehicles in close proximity to critical facilities.	2	3	3	6	3	3	3	2	3	3	2	2	2	3	3	2	4	4	3	3	3	3	3	3	3	74
Revise zoning and building codes to restrict construction in landslide hazard areas	2	3	3	6	3	3	3	2	3	3	2	1	1	3	3	1	4	6	3	3	3	3	3	3	3	73
Develop and annually update a list of vendor 24/7 contact information and pre-disaster MOUs.	1	3	3	6	3	3	3	3	3	3	2	2	2	3	3	3	3	3	2	3	3	3	3	3	3	72
Seek grant funding to purchase and install an automated wide area rapid notification system.	2	9	3	3	3	3	3	2	1	2	2	2	2	3	3	3	6	2	2	1	3	3	3	3	3	72
Develop a post-disaster recovery ordinance.	2	3	3	6	3	3	2	2	2	3	1	1	3	3	3	2	4	6	2	3	3	3	3	3	3	72
Enact legislation to require each Tier II site to install alert devices and develop a warning plan.	3	9	3	6	3	3	2	2	2	2	2	1	3	2	2	6	2	3	2	2	2	3	2	3	2	72
Publish articles in area newspapers to instruct citizens on shelter-in-place.	3	6	0	3	3	2	3	2	3	2	2	2	3	3	3	6	4	2	2	3	3	3	3	3	3	72
Partner with EMA to distribute extreme heat and extreme cold awareness and preparedness literature to citizens at community events.	3	3	3	3	3	2	3	2	3	2	3	3	2	3	3	4	4	2	3	3	3	3	3	3	3	72



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Partner with EMA and Red Cross to distribute severe winter storm awareness and preparedness literature to citizens at community events.	3	3	3	3	3	2	3	2	3	2	2	3	3	3	3	4	4	3	3	3	3	3	3	3	72
Coordinate with EMA to apply to receive Community Rating System status.	1	0	6	6	3	2	2	2	2	2	2	2	3	3	3	4	6	3	3	3	3	3	3	3	72
Seek grant funding to purchase wild land firefighting equipment.	3	3	6	6	3	2	3	2	1	2	2	2	3	3	3	4	2	3	2	3	3	3	3	3	72
Enforce codes stipulating setback distances for all new structures not using fire-resistive materials.	2	3	6	6	3	3	2	2	2	2	1	1	2	3	3	2	4	4	3	3	3	3	3	3	72
Partner with schools to promote awareness, recognition, and reporting of meth labs.	3	0	3	3	3	3	2	2	3	2	3	3	3	3	3	4	6	2	3	3	3	3	3	3	72
Participate in annual exercises involving all emergency response agencies.	2	6	6	6	3	2	2	2	2	2	2	2	3	3	2	6	2	3	1	2	2	3	2	3	71
Publish notice of federal, state, and local training opportunities to all emergency response personnel.	2	3	3	3	3	3	3	3	3	3	2	2	3	3	3	4	4	2	2	3	3	3	3	3	71
Develop redundancy strategies to prevent loss of public records in the event of damage to critical facilities.	3	0	3	6	3	3	3	2	2	2	3	2	3	3	3	6	2	3	1	3	3	3	3	3	71
Provide the fire department equipment to contain hazardous materials spills on roadways.	2	3	3	6	3	3	3	2	2	2	2	2	3	3	3	6	2	3	1	3	3	3	3	3	71
Establish codes to prohibit construction of special needs population facilities near rail lines.	3	6	3	3	3	3	2	3	1	3	1	2	3	3	3	2	2	2	3	2	3	3	3	3	71
Partner with EMA to distribute hail awareness and preparedness literature to citizens at community events.	2	3	3	3	3	3	3	2	2	2	3	2	3	3	3	4	6	2	2	3	3	3	3	3	71



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Partner with EMA and Red Cross to distribute lightning awareness and preparedness literature to citizens at community events.	3	3	3	3	3	2	3	2	2	2	2	2	3	3	3	4	6	2	3	3	3	3	3	3	71	
Provide debris management training for public works.	3	3	3	6	3	2	3	2	1	2	2	2	2	3	3	3	6	2	3	1	3	3	3	3	3	70
Create a GIS map database of Tier II sites to display ERG-established zones and evacuation perimeters.	3	6	0	6	3	3	3	1	2	1	2	2	2	3	3	3	6	2	3	1	3	3	3	3	3	70
Provide training for firefighters in containing hazardous materials spills on roadways.	3	3	3	3	3	2	3	2	2	2	2	3	2	2	3	3	6	2	3	2	3	3	3	3	3	70
Establish codes to prohibit construction of residential or public structures near fixed hazardous materials sites.	2	6	6	6	3	3	1	2	1	2	1	1	2	2	2	2	1	6	2	3	3	3	3	3	3	70
Participate in a countywide study to determine and GIS map potential landslide areas.	2	3	3	3	3	2	2	2	3	3	2	2	2	2	3	3	3	4	6	2	2	3	3	3	3	70
Partner with EMA to distribute subsidence awareness literature at community events.	3	3	3	3	3	2	3	2	3	2	2	2	2	3	3	3	4	4	2	3	3	3	3	3	3	70
Ensure all emergency response personnel are Incident Command System and National Incident Management System training compliant.	2	3	3	6	3	3	3	2	2	2	2	2	2	3	3	3	4	2	3	1	3	3	3	3	3	69
Develop comprehensive, economic, and continuity of operations plans.	2	3	3	6	3	3	2	2	2	2	2	1	2	3	3	3	6	2	3	1	3	3	3	3	3	69
Develop emergency services winter storm response protocols.	2	3	0	3	3	2	3	2	3	2	2	2	2	3	3	3	4	6	3	3	3	3	3	3	3	69
Continue participation in the state and federal drug task force.	3	0	3	3	3	2	2	2	3	2	2	3	2	3	3	3	4	6	2	3	3	3	3	3	3	69
Partner with EMA and local insurance agents to distribute earthquake insurance information at community events.	2	0	6	9	3	3	3	2	2	1	2	1	1	3	3	3	2	2	3	3	3	3	3	3	3	69



Anderson County, Tn.  
Multi-Jurisdictional  
Hazard Mitigation Plan  
2011 Update

Table 1.11.2 "STAPLEE" Mitigation Actions Prioritization Table																										
Action/Project Description	Social			Technical			Administrative			Political			Legal		Economic		Environmental		Prioritization							
	High Community Acceptance	High Effect on Loss of Life-WF=3	High Effect on Property Loss WF=3	High Effect on Economic Loss WF=3	is Technical Feasibility	is a Long-Term Solution	No Secondary Impacts	Little Staffing required	Funding Potential is High	Low Maintenance/Operations	High Political Support	Has a Local Champion	Has Public Support	State Authorized	Local Authority Exists	Potential Legal Challenge is High	Action Benefit is High WF=2	High Economic Goal Contribution	Outside Funding Not Required	Land/Water Effect is Low	Low Endangered Species Effect	HAZMAT Waste Site Effect is Low	Environmental Effect is Low	Federal Law Compliant is High	Total Priority Score	
Partner with EMA to distribute drought awareness and preparedness literature to citizens at community events.	3	0	3	3	3	2	3	2	3	2	3	2	3	3	3	4	4	2	3	3	3	3	3	3	68	
Provide training for all city personnel subject to extreme heat and cold.	3	3	3	3	3	2	3	2	2	2	2	3	2	3	3	3	4	4	2	1	3	3	3	3	3	68
Evaluate the efficacy of construction of water flow and detention ponds in flood prone areas.	3	3	3	6	3	3	2	2	2	2	2	2	2	3	3	2	6	4	3	1	2	2	2	2	3	68
Participate in a UT geology department countywide study of karst areas and known sinkholes.	2	3	3	3	3	2	3	2	2	2	2	2	2	3	3	3	4	4	2	3	3	3	3	3	3	68
Create GIS maps showing karst areas.	2	3	3	3	3	2	3	2	2	2	2	2	2	3	3	3	4	4	2	3	3	3	3	3	3	68
Seek grant funding to purchase and install warning sirens.	3	9	0	3	3	3	2	2	1	2	3	2	3	3	2	6	2	2	1	2	2	3	2	3	3	67
Evaluate efficacy of raising grade level or expanding ditch depth and width along repetitive flooding roadways	3	6	6	6	3	3	2	2	1	2	2	2	3	3	2	3	1	3	1	2	2	2	2	3	3	67
Continue to participate in the Joint Terrorism Task Force.	2	3	3	3	3	2	2	2	3	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	67
Conduct meetings between road and planning departments to prioritize potential landslide areas and methods of remediation.	2	3	3	3	3	2	2	2	3	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	67
Provide fire department personnel CSX rail incident training.	2	3	3	3	3	2	3	2	2	3	2	1	2	3	3	3	4	2	2	3	3	3	3	3	3	66
Enact legislation to restrict non-essential water usage during periods of drought.	2	0	3	3	3	3	2	3	2	3	2	2	2	3	3	2	4	4	2	3	3	3	3	3	3	66
Equip all fire/rescue vehicles with chain saws to ensure clearing of emergency routes following high wind incidents.	3	3	3	3	3	2	3	1	2	2	2	2	3	3	3	3	4	4	1	1	3	3	3	3	3	66
Install lightning protection devices and grounding on critical facilities	2	3	6	3	3	3	2	2	1	2	1	1	1	3	3	3	4	4	3	2	3	2	3	3	3	66



Anderson County, Tn.  
Multi-Jurisdictional  
Hazard Mitigation Plan  
2011 Update

**Table 1.11.2 "STAPLEE" Mitigation Actions Prioritization Table**

Action/Project Description	Social			Technical			Administrative			Political			Legal			Economic			Environmental			Prioritization					
	High Community Acceptance	High Effect on Loss of Life-WF=3	High Effect on Property Loss WF=3	High Effect on Economic Loss WF=3	is Technical Feasibility is a Long-Term Solution	No Secondary Impacts	Little Staffing required	Funding Potential is High	Low Maintenance/Operations	High Political Support	Has a Local Champion	Has Public Support	State Authorized	Local Authority Exists	Potential Legal Challenge is High	Action Benefit is High WF=2	Action Cost is Low WF=2	High Economic Goal Contribution	Outside Funding Not Required	Land/Water Effect is Low	Low Endangered Species Effect		HAZMAT Waste Site Effect is Low	Environmental Effect is Low	Federal Law Compliant is High	Total Priority Score	
Continue aggressive power line right-of-way clearing to reduce incidence of telephone and power lines downed by high wind or ice/snow incidents.	3	3	3	6	3	2	2	1	2	2	3	2	3	3	2	2	6	2	3	1	2	2	2	3	2	3	66
Enact legislation to require buried lines in all new cluster developments.	3	3	3	6	3	2	2	1	2	2	3	2	3	3	2	2	6	2	3	1	2	2	2	3	2	3	66
Evaluate methods to improve storm water systems in flood prone areas.	2	0	3	6	3	3	2	2	2	2	2	2	2	3	3	2	6	4	3	3	2	2	2	2	3	3	66
Provide Emergency Response to Terrorism training for all emergency response agencies.	2	3	3	3	3	2	2	2	2	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	3	66
Partner with the drug task force and EMA to distribute meth lab awareness information at community events.	3	0	3	3	3	2	2	2	3	2	2	3	2	3	3	3	4	4	2	2	3	3	3	3	3	3	66
Develop meth lab SOGs for emergency responders.	2	0	3	3	3	2	2	2	3	2	2	2	2	3	3	3	4	6	2	2	3	3	3	3	3	3	66
Require property owners to sign acknowledgement of subsidence risk notification before issuing building permits on high-risk sites.	2	3	3	3	3	2	2	2	2	2	2	2	2	3	3	2	4	4	2	3	3	3	3	3	3	3	66
Update evacuation routes and procedures.	2	6	0	0	3	3	3	2	3	2	2	2	2	3	3	3	4	2	2	3	3	3	3	3	3	3	65
Maintain and update annually contact information for suppliers of potable water.	3	3	0	0	3	2	3	2	3	2	2	3	2	3	3	3	4	4	2	3	3	3	3	3	3	3	65
Provide meth lab awareness training for citizens.	3	0	3	3	3	2	2	2	2	2	2	3	2	3	3	3	4	4	2	2	3	3	3	3	3	3	65
Provide training and equipment for law enforcement and drug task force personnel.	2	0	3	3	3	2	2	2	3	2	2	3	2	3	3	3	4	4	2	2	3	3	3	3	3	3	65
Install larger culverts to permit clear stream flow.	3	3	3	6	3	3	2	1	1	2	2	2	2	3	3	2	6	2	3	1	2	2	2	2	2	3	64
Partner with NWS to erect "Turn Around, Don't Drown" signage at flooding points.	2	6	0	0	3	3	3	2	2	2	3	2	3	3	3	3	3	3	1	3	2	3	3	3	3	3	64



Anderson County, Tn.  
Multi-Jurisdictional  
Hazard Mitigation Plan  
2011 Update

Table 1.11.2 "STAPLEE" Mitigation Actions Prioritization Table																									
Action/Project Description	Social			Technical			Administrative			Political		Legal		Economic			Environmental			Prioritization					
	High Community Acceptance	High Effect on Loss of Life-WF=3	High Effect on Property Loss WF=3	High Effect on Economic Loss WF=3	Is Technical Feasibility	Is a Long-Term Solution	No Secondary Impacts	Little Staffing required	Funding Potential is High	Low Maintenance/Operations	High Political Support	Has a Local Champion	Has Public Support	State Authorized	Local Authority Exists	Potential Legal Challenge is High	Action Benefit is High WF=2	Action Cost is Low WF=2	High Economic Goal Contribution	Outside Funding Not Required	Land/Water Effect is Low	Low Endangered Species Effect	HAZMAT Waste Site Effect is Low	Environmental Effect is Low	Federal Law Compliant is High
Continue to work with property owners to reduce run-off and erosion.	2	0	3	6	3	2	2	2	2	2	2	2	3	3	2	4	4	3	3	2	2	2	2	3	63
Seek grant funds and partner with DOE to construct a detention basin on East Fork Poplar Creek to remediate flooding on Jefferson Avenue.	2	3	3	3	3	3	2	2	3	2	2	2	3	3	2	4	2	3	1	2	3	3	2	3	63
Seek grant funding to elevate three bridges on Illinois Avenue	2	3	3	3	3	3	2	2	3	2	2	2	3	3	2	4	2	3	1	2	3	3	2	3	63
Erect staff signage indicating water depth at flooding points.	3	6	0	0	3	3	3	2	2	2	3	3	3	3	3	3	2	1	2	2	3	3	3	3	63
Install gates to block roadways and bridges during flooding.	3	6	0	0	3	3	3	2	2	2	3	3	3	3	3	3	2	1	2	2	3	3	3	3	63
Seek grant funds to enlarge storm drains at Glassboro Road, Baypath Drive, and Lafayette Drive at the Midway/Midland Roads industrial park area.	2	3	3	3	3	3	2	2	3	2	2	2	3	3	2	4	2	3	1	2	3	3	2	3	63
Seek grant funds to remediate back up of East Fork Poplar Creek on Illinois Avenue.	2	3	3	3	3	3	2	2	3	2	2	2	3	3	2	4	2	3	1	2	3	3	2	3	63
Seek grant funding to equip all emergency response vehicles with on demand tire chains to ensure access to victims during ice and snow incidents.	2	3	0	3	3	3	2	2	2	2	2	2	3	3	3	4	2	3	1	3	3	3	3	3	62
Seek grant funding to install water line insulation for low-income residents.	2	0	3	3	3	3	3	2	1	2	1	2	3	3	3	4	4	1	1	3	3	3	3	3	62
Provide regular maintenance to remove debris from flood prone streams and creeks.	3	3	3	6	3	2	2	1	1	1	2	2	3	3	2	6	2	3	1	2	2	2	2	3	62
Seek grant funding to remediate areas prone to landslide on Melton Lake Drive	3	3	3	3	3	3	2	2	1	2	2	3	3	3	2	3	2	2	2	2	2	3	2	3	61
Erect signage to warn motorists of landslide danger at identified sites.	3	3	0	0	3	2	3	2	2	2	2	2	3	3	3	4	4	1	2	3	3	3	3	3	61



Anderson County, Tn.  
Multi-Jurisdictional  
Hazard Mitigation Plan  
2011 Update

Table 1.11.2 "STAPLEE" Mitigation Actions Prioritization Table

Action/Project Description	Social			Technical		Administrative		Political		Legal		Economic			Environmental		Prioritization										
	High Community Acceptance	High Effect on Loss of Life-WF=3	High Effect on Property Loss WF=3	High Effect on Economic Loss WF=3	is Technical Feasibility	is a Long-Term Solution	No Secondary Impacts	Little Staffing required	Funding Potential is High	Low Maintenance/Operations	High Political Support	Has a Local Champion	Has Public Support	State Authorized	Local Authority Exists	Potential Legal Challenge is High	Action Benefit is High WF=2	Action Cost is Low WF=2	High Economic Goal Contribution	Outside Funding Not Required	Land/Water Effect is Low	Low Endangered Species Effect	HAZMAT Waste Site Effect is Low	Environmental Effect is Low	Federal Law Compliant is High	Total Priority Score	
Assist community agencies to establish heating/cooling centers for vulnerable populations.	3	3	0	3	3	3	2	2	1	1	2	2	2	3	3	2	6	2	2	1	2	2	3	2	3	3	58

**RESOLUTION**

A RESOLUTION TO ADOPT THE UPDATED 2011 ANDERSON COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN IN ACCORDANCE WITH FEDERAL REQUIREMENTS.

WHEREAS, the State of Tennessee has ordained that every county and incorporated municipality in the state is required to have a Hazard Mitigation Plan approved by the Tennessee Emergency Management Agency (TEMA) to maintain eligibility for state disaster assistance after November 2004; and

WHEREAS, the Federal Emergency Management Agency (FEMA), under the Disaster Mitigation Act of 2000, has ordained that every county and incorporated municipality within the county is required to have a Hazard Mitigation Plan approved by FEMA in order to be eligible for Hazard Mitigation Grant Program funding for Presidential disasters declared after November 2004; and

WHEREAS, under the Disaster Mitigation Act of 2000, FEMA has issued an Interim Final Rule that details the minimum criteria for local hazard mitigation plans; and

WHEREAS, the City of Oak Ridge agrees with the concept and necessity for hazard mitigation planning; and

WHEREAS, the Anderson County Hazard Mitigation Planning Committee recommends the adoption of the Anderson County Multi-Jurisdictional Hazard Mitigation Plan; and

WHEREAS, under the Disaster Mitigation Act of 2000, FEMA has issued an Interim Final Rule that details the minimum criteria for local hazard mitigation plans; and

WHEREAS, TEMA and FEMA have conducted a review of and approved the Anderson County Multi-Jurisdictional Hazard Mitigation Plan.

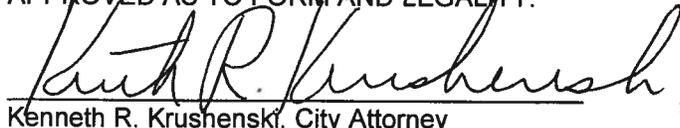
NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF OAK RIDGE, TENNESSEE:

That in accordance with federal requirements, the *Anderson County Multi-Jurisdictional Hazard Mitigation Plan* is hereby adopted as recommended by the Anderson County Hazard Mitigation Planning Committee.

BE IT FURTHER RESOLVED that the Mayor is hereby authorized to execute all necessary legal documents to accomplish the same.

This the 10th day of October 2011.

APPROVED AS TO FORM AND LEGALITY:

  
\_\_\_\_\_  
Kenneth R. Krushenski, City Attorney

\_\_\_\_\_  
Thomas L. Beehan, Mayor

\_\_\_\_\_  
Diana R. Stanley, Acting City Clerk

**PUBLIC WORKS MEMORANDUM**  
**11-26**

**DATE:** September 30, 2011  
**TO:** Mark S. Watson, City Manager  
**FROM:** Gary M. Cinder, P.E., Director of Public Works  
**SUBJECT:    **Robertsville Pump Station to West Outer Drive Water Main Replacement****

The accompanying resolution authorizes the expenditure of funds in the estimated amount of \$178,159.50 to Southern Pipe and Supply, Knoxville, TN for the purchase of 4,000 feet of 16 inch ductile iron water main for replacement from the Robertsville Road Pump Station to West Outer Drive.

The existing 14 inch cast iron water main was installed in 1942 to fill the Louisiana Avenue two million gallon reservoir. Water flows from the Water Treatment Plant to the Robertsville Road Pump Station at Robertsville Road and North Illinois Avenue where it is pumped to the reservoir. The components to this pump station were completely replaced two years ago with replacement of the water main to follow.

At nearly seventy years old, this line has reached its useful life. There have been multiple line failures which are common for cast iron pipe. When this line breaks, flow to the Louisiana Avenue reservoir is interrupted until the system can be reconfigured to send some water from the East Booster temporarily.

Sealed bids were solicited from several vendors for this water pipe with Southern Pipe and Supply submitting the low bid. City crews will be installing this pipe over the next few months as time permits.

Funding for this project is available in the Water Works budget. Staff recommends approval of the accompanying resolution.

  
\_\_\_\_\_  
Gary M. Cinder

ks

**City Manager's Comments:**

I have reviewed the above issue and recommend council action as outlined in this document.

  
\_\_\_\_\_  
Mark S. Watson

  
\_\_\_\_\_  
Date

**CITY OF OAK RIDGE, TENNESSEE**  
**Abstract of Bids**

RFQ #125353  
OPENING DATE: September 19, 2011 11:00 A.M.

DESCRIPTION	ITEM	UNIT	BIDDER:		BIDDER:		BIDDER:		BIDDER:	
			Southern Pipe & Supply 1706 Transport Lane Knoxville, TN 37924	G. & C. Supply Co., Inc. P. O. Drawer 459 Atwood, TN 38220	Consolidated Pipe & Supply Co., Inc. 7224 Ball Camp Pike Knoxville, TN 37931	HD Supply Waterworks 5905 Old Rutledge Pike Knoxville, TN 37914	UNIT COST	TOTAL	UNIT COST	TOTAL
16" Ductile Iron Pipe  THE FURNISHING OF 16" DUCTILE IRON PIPE PER THE SPECIFICATIONS PROVIDED BY THE CITY OF OAK RIDGE PUBLIC WORKS DEPARTMENT	1	225	\$ 791.82	\$ 178,159.50	\$ 809.46	\$ 182,128.50	\$ 810.90	\$ 182,452.50	\$ 812.80	\$ 182,880.00
	TOTAL PRICE		\$ 178,159.50	\$ 182,128.50	\$ 182,452.50	\$ 182,880.00				
	TERMS		Net 30	Net 30	Net 30	Net 30				
	DELIVERY		7-10 Days ARO	7-10 Days ARO	7-10 Days ARO	2 Weeks ARO				
F.O.B.		Oak Ridge	Oak Ridge	Oak Ridge	Oak Ridge					
VIA		DIRECT	DIRECT	DIRECT	DIRECT					
OTHER BIDDERS CONTACTED: Hayes Pipe Supply - Knoxville, TN Piping Supply Company - Chattanooga, TN										
BIDS OPENED AND RECORDED BY:—										
Lyn Majeski Accounting Division Manager										
BIDS REVIEWED BY:—										
Janice McGinnis Finance Director										
REASON FOR AWARD			RECOMMEND AWARD BE MADE TO:							
ONLY BID RECEIVED			Southern Pipe & Supply							
LOW PRICE			1706 Transport Lane							
BETTER OR REQUIRED DESIGN			Knoxville, TN 37924							
EARLY DELIVERY										
LOWEST TOTAL COST			X							

**RESOLUTION**

A RESOLUTION AUTHORIZING THE PURCHASE OF 4,000 FEET OF WATER PIPE FROM SOUTHERN PIPE & SUPPLY CO., INC., KNOXVILLE, TENNESSEE, FOR THE REPLACEMENT OF THE WATER MAIN FROM THE ROBERTSVILLE ROAD PUMP STATION TO WEST OUTER DRIVE IN THE ESTIMATED AMOUNT OF \$178,159.50.

WHEREAS, the water main from the Robertsville Road Pump Station to West Outer Drive has had multiple line failures; and

WHEREAS, at seventy (70) years old, the water main has reached its useful life and is in need of replacement; and

WHEREAS, the City of Oak Ridge has issued invitations to bid for the purchase of 4,000 feet of water pipe to replace the water main from the Robertsville Road Pump Station to West Outer Drive, with City crews completing the actual installation of pipe; and

WHEREAS, bids were received and publicly opened on September 19, 2011, with Southern Pipe & Supply Co., Inc., Knoxville, Tennessee, submitting the lowest and best bid, which bid the City Manager recommends be accepted.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF OAK RIDGE, TENNESSEE:

That the recommendation of the City Manager is approved and award is hereby to Southern Pipe & Supply Co., Inc., 1706 Transport Lane, Knoxville, Tennessee 37924, for the for the purchase of 4,000 feet of water pipe to replace the water main from the Robertsville Road Pump Station to West Outer Drive; said award in strict accordance with Requisition No.125353, the required specifications, and the bid as publicly opened on September 19, 2011, and in the estimated amount of \$178,159.50.

This the 10th day of October 2011.

APPROVED AS TO FORM AND LEGALITY:



Kenneth R. Krushenski, City Attorney

Thomas L. Beehan, Mayor

\_\_\_\_\_  
Diana R. Stanley, Acting City Clerk

LEGAL DEPARTMENT MEMORANDUM  
11-36

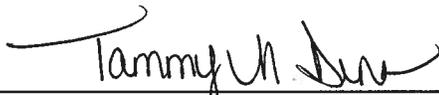
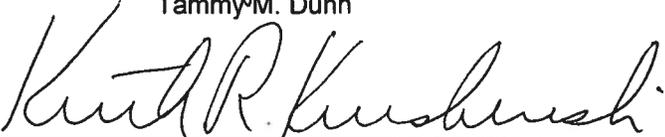
DATE: September 29, 2011  
TO: Mark S. Watson, City Manager  
FROM: Kenneth R. Krushenski, City Attorney  
Tammy M. Dunn, Senior Staff Attorney  
SUBJECT: AMENDMENT OF CITY CODE §3-406(A) TO INCREASE THE CITY COURT CLERK FEE

An item for the agenda is an ordinance to amend City Code §3-406(a) to increase the city court clerk fee from \$59.00 to \$81.25.

In 2004, the City's city court clerk fee was increased from \$30.00 to \$59.00 to be more in line with other cities' court costs. The Honorable Robert A. McNees, III, City Judge, and Karen Hendrix, City Court Clerk, have reviewed the city court clerk fee, as well as the bond forfeiture amounts, due to recent changes in state law. After thorough review, Judge McNees has requested an increase in the city court clerk fee from \$59.00 to \$81.25.

The adoption of the new city court clerk fee amount will result in total court costs of \$95.00 broken down as follows: \$81.25 city court clerk fee + \$13.75 city litigation tax. This total will put the City closer to the amount that other municipalities charge. For those individuals who are found guilty in court or who are found guilty for failure to appear in court, an additional amount is added to their total court costs. This additional amount is required by State law and is referred to as the state litigation tax. The state litigation tax is currently set at \$13.75.

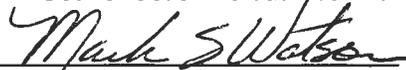
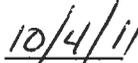
Approval of the attached ordinance is recommended.

  
\_\_\_\_\_  
Tammy M. Dunn  
  
\_\_\_\_\_  
Kenneth R. Krushenski

Attachment

**City Manager's Comments:**

I have reviewed the above issue and recommend Council action as outlined in this document.

  
\_\_\_\_\_  
Mark S. Watson  
  
\_\_\_\_\_  
Date

## Court Cost Survey 2011

<u>CITY/TOWN</u>	<u>TOTAL COURT COST*</u> <u>(See Footnote)</u>
<b>Clinton</b>	\$125.00
<b>Columbia</b>	\$149.50
<b>Dickson</b>	\$113.75
<b>Fairview</b>	\$176.00
<b>Franklin</b>	\$76.00
<b>Hendersonville</b>	\$106.00
<b>Knoxville</b>	\$96.50
<b>La Vergne</b>	\$100.00
<b>Lebanon</b>	\$127.00
<b>Lenoir City</b>	\$185.00 - \$191.00 (depending on charge)
<b>Maryville</b>	\$73.50 - \$83.50 (depending on charge)
<b>Millington</b>	\$89.75
<b>Murfreesboro</b>	\$113.50
<b>Oak Ridge (current)</b>	\$86.50
<b>Oak Ridge (proposed)</b>	\$108.75
<b>Smyrna</b>	\$188.33

\* Survey was conducted by email, phone and website search. An initial request was sent by email to municipal attorneys, which accounts for the variety of cities represented on the survey. Adjacent cities that did not respond to the email and were contacted by phone or the information was obtained through their website. Oliver Springs did not respond to phone calls and information on court costs was not available online. Cities that were contacted by phone or email were asked whether the court cost amount included litigation taxes. For information obtained through websites, it is unknown whether litigation taxes are included and, therefore, the amount listed should be considered as a minimum amount. The above amounts do not include any fines.

TITLE

AN ORDINANCE TO AMEND TITLE 3, TITLED "MUNICIPAL COURT," CHAPTER 4, TITLED "COURT ADMINISTRATION," SECTION 3-406, TITLED "COSTS ESTABLISHED," SUBSECTION (A), TITLED "CITY COURT CLERK FEE," OF THE CODE OF ORDINANCES, CITY OF OAK RIDGE, TENNESSEE, BY INCREASING THE CITY COURT CLERK FEE TO EIGHTY-ONE DOLLARS AND TWENTY-FIVE CENTS (\$81.25).

WHEREAS, the City of Oak Ridge currently charges \$59.00 for the city court clerk fee; and

WHEREAS, the City has not raised the city court clerk fee since 2004; and

WHEREAS, the City desires to raise the city court clerk fee to \$81.25 to be more in line with the amount charged by other municipalities, with the new fee effective January 1, 2012.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF OAK RIDGE, TENNESSEE:

Section 1. Title 3, titled, "Municipal Court," Chapter 4, titled "Court Administration," Section 3-406, titled "Costs established," Subsection (a), titled "City court clerk fee," of the Code of Ordinances, City of Oak Ridge, Tennessee, is hereby amended by deleting the phrase "fifty nine dollars (\$59.00)" and substituting therefor the phrase "eighty-one dollars and twenty-five cents (\$89.25)" beginning January 1, 2012.

Section 2. This ordinance shall become effective ten (10) days after adoption on second reading, the welfare of the City of Oak Ridge requiring it.

APPROVED AS TO FORM AND LEGALITY:

  
\_\_\_\_\_  
Kenneth R. Krushenski, City Attorney

\_\_\_\_\_  
Thomas L. Beehan, Mayor

\_\_\_\_\_  
Diana R. Stanley, Acting City Clerk

First Reading: 10/10/2011  
Publication Date: \_\_\_\_\_  
Second Reading: \_\_\_\_\_  
Publication Date: \_\_\_\_\_  
Effective Date: \_\_\_\_\_

# RESOLUTIONS

**COMMUNITY DEVELOPMENT MEMORANDUM**  
**11-61**

DATE: September 28, 2011

TO: Mark S. Watson, City Manager

THROUGH: Kathryn G. Baldwin, Community Development Director 

FROM: Athanasia Senecal Lewis, Community Development Specialist 

SUBJECT: **TDOT ENHANCEMENT GRANT**

An item for the October City Council agenda is adoption of a resolution to apply for a Tennessee Department of Transportation (TDOT) Enhancement grant. The TDOT Enhancement program provides annual funding and has allocated more than \$200 million dollars throughout the state since it began receiving federal funding in 1991.

Eligible TDOT Enhancement activities are: facilities for bicycles and pedestrians; safety and educational activities for pedestrians; acquisition of scenic easements and scenic or historic sites (including battlefields); scenic or historic highway programs (including visitor centers); historic preservation; rehabilitation and operation of historic transportation buildings, structures or facilities (including historic railroad facilities and canals); preservation of abandoned railway corridors; inventory, control and removal of outdoor advertising; archaeological planning and research; environmental mitigation; and establishment of transportation museums.

The TDOT Enhancement grant requires a 20 percent cash match. The cash requirement is new criterion and in-kind matches will not be accepted.

Staff is proposing two separate projects, independent of one another, for Council selection and there will be a public hearing at the beginning of the October 10 Council meeting. Council has two resolutions to choose from, depending on which project is selected. Both projects are described below.

**Jackson Square Projects**

The first project supports revitalization in Jackson Square. The project scope may include, but is not limited to, reconfiguration of the parking lot within Jackson Square immediately south of Broadway Avenue. The parking lot reconfiguration provides additional parking; improves existing sidewalk infrastructure; creates an open space; establishes a pedestrian framework and enriches the natural landscape. These improvements provide an aesthetic backdrop for economic development within the Jackson Square retail market.

The proposal calls for restriping of the parking lot with 90 degree-angled spaces in order to provide additional parking and allow for inclusion of designated handicapped spaces, ramps, and appropriate signage. Green space will be added to the center of the parking lot to be used for community interaction and serve as a gathering space during special events.

In addition, handicapped accessible ramps will be added to the parking lot on the north side of Broadway Avenue to establish handicapped accessible connectivity to the parking lot that serves the Farmers Market. This will make it easier to cross Broadway Avenue from the Farmer's Market to Jackson Square. This will enhance pedestrian activity with special emphasis on handicapped accommodations. Existing sidewalks, which have experienced significant decay causing safety issues, will be replaced along the Jackson Square storefronts. Park benches and trash receptacles will be placed throughout the parking lot and an interactive water fountain will be located in the middle of the established green space. Landscaping will also be used to enrich the entire project area, heightening the aesthetic appeal, which

will create an improved sense of place. In addition, existing inappropriate street lights will be replaced with pedestrian-scale lighting, which adheres to dark sky standards.

The City of Oak Ridge has focused on the Jackson Square area for two studies this past year. Those studies identified Jackson Square as a strong location for small businesses surrounded by residential housing and close to adjacent work centers. At the UT-MBA plan briefing, the City Manager was strongly encouraged to bring a project forward that would start the reinvestment and focus on Jackson Square. This proposal, working in conjunction with local business owners, is the result of that collaboration. Pre-reviews with TDOT reveal this to be a strong project.

### **Corridor Projects from Bicycle and Pedestrian Plan**

The second project supports implementation of proposals in the Bicycle and Pedestrian Plan that was adopted by City Council on April 11, 2011. Corridors in the Bicycle and Pedestrian Plan were prioritized based on their proximity to: a school facility, community facility, park facility, major employer, residential neighborhood, and network gap in the existing transportation infrastructure. Additional factors, like health impact and ease of implementation, were also considered. The Lafayette Drive Corridor is the fourth highest ranking corridor in the Bicycle and Pedestrian Plan. This project along Lafayette Drive extends from Oak Ridge Turnpike to Illinois Avenue. This corridor will be extended to Tennessee Avenue for a total project length of 1.73 miles. A map and typical roadway section for the Lafayette Drive improvement is shown on the enclosure.

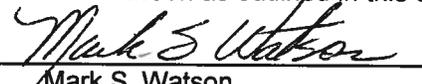
The section along New York Avenue will be signed only as a bike route. The existing five-foot-wide sidewalk section from Oak Ridge Turnpike to Emory Valley Road on the west side of Lafayette is proposed to be widened to eight feet. Improvements along the west side of Lafayette Drive from Emory Valley Road to Illinois Avenue include a seven-foot-wide bike lane, curb and gutter, and sidewalks. Proposed improvements along the east side of Lafayette Drive from Oak Ridge Turnpike to Illinois Avenue include a seven-foot-wide bike lane. Other significant project costs include engineering services, right-of-way and easement acquisitions, utility relocation, storm drainage, retaining walls, cut/fill excavation, signs and pavement markings.

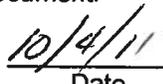
Routes and needs were identified in the Bicycle and Pedestrian Plan. The use of Lafayette Drive was initially identified as an important link. This segment is eligible for funding not only through TDOT Enhancement Grant funding, but through regional CMAC funding. The latter would be the preferred funding source particularly as a *Rails-to-Trails* link is finalized to Y-12. The initial link does not involve the inactive rail system as staff continues to negotiate this transfer.

Both projects are estimated to cost up to \$1 million dollars with a \$200 thousand dollar cash match from the City

#### **City Manager's Comments:**

I have reviewed the above issue and recommend Council action as outlined in this document.

  
\_\_\_\_\_  
Mark S. Watson

  
\_\_\_\_\_  
Date

**RESOLUTION**

A RESOLUTION AUTHORIZING THE CITY TO APPLY FOR A TENNESSEE DEPARTMENT OF TRANSPORTATION ENHANCEMENT GRANT IN THE AMOUNT OF \$1,000,000.00, WITH A TWENTY PERCENT (20%) LOCAL CASH MATCH, TO SUPPORT THE REVITALIZATION OF JACKSON SQUARE, AND TO ACCEPT SAID GRANT IF APPROVED.

WHEREAS, the Tennessee Department of Transportation has grant funds available for enhancement activities such as bicycle/pedestrian projects and scenic beautification; and

WHEREAS, the City desires to submit an enhancement grant application to support the revitalization of Jackson Square which may include parking and sidewalk improvements, landscaping and green space, and accessibility ramps; and

WHEREAS, said grant requires a twenty percent (20%) local match, which cannot be in the form of in-kind services and must be cash; and

WHEREAS, the City Manager recommends that the City submit a grant application to TDOT in the amount of \$1,000,000.00.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF OAK RIDGE, TENNESSEE:

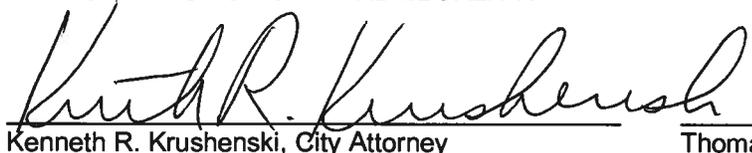
That the recommendation of the City Manager is approved and the City is hereby authorized to submit an enhancement grant application to the Tennessee Department of Transportation to support the revitalization of Jackson Square; said grant application in the amount of \$1,000,000.00, with a twenty percent (20%) local cash match requirement.

BE IT FURTHER RESOLVED that if said application is approved, the City is authorized to accept said funding.

BE IT FURTHER RESOLVED that the Mayor is hereby authorized to execute the appropriate legal documents to accomplish the same.

This the 10th day of October 2011.

APPROVED AS TO FORM AND LEGALITY:

  
\_\_\_\_\_  
Kenneth R. Krushenski, City Attorney

\_\_\_\_\_  
Thomas L. Beehan, Mayor

\_\_\_\_\_  
Diana R. Stanley, Acting City Clerk

**RESOLUTION**

A RESOLUTION AUTHORIZING THE CITY TO APPLY FOR A TENNESSEE DEPARTMENT OF TRANSPORTATION ENHANCEMENT GRANT IN THE AMOUNT OF \$1,000,000.00, WITH A TWENTY PERCENT (20%) LOCAL CASH MATCH, TO SUPPORT IMPLEMENTATION OF THE OAK RIDGE BICYCLE AND PEDESTRIAN PLAN ON LAFAYETTE DRIVE AND SCARBORO ROAD, AND TO ACCEPT SAID GRANT IF APPROVED.

WHEREAS, the Tennessee Department of Transportation has grant funds available for enhancement activities such as bicycle/pedestrian projects and scenic beautification; and

WHEREAS, the City desires to submit an enhancement grant application to support implementation of the Oak Ridge Bicycle and Pedestrian Plan, approved by Resolution 4-27-11, on Lafayette Drive and Scarboro Road which may include adding sidewalks and bicycle lanes or other forms of bicycle/pedestrian accommodations; and

WHEREAS, said grant requires a twenty percent (20%) local match, which cannot be in the form of in-kind services and must be cash; and

WHEREAS, the City Manager recommends that the City submit a grant application to TDOT in the amount of \$1,000,000.00.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF OAK RIDGE, TENNESSEE:

That the recommendation of the City Manager is approved and the City is hereby authorized to submit an enhancement grant application to the Tennessee Department of Transportation to support implementation of the Oak Ridge Bicycle and Pedestrian Plan on Lafayette Drive and Scarboro Road; said grant application in the amount of \$1,000,000.00, with a twenty percent (20%) local cash match requirement.

BE IT FURTHER RESOLVED that if said application is approved, the City is authorized to accept said funding.

BE IT FURTHER RESOLVED that the Mayor is hereby authorized to execute the appropriate legal documents to accomplish the same.

This the 10th day of October 2011.

APPROVED AS TO FORM AND LEGALITY:

  
\_\_\_\_\_  
Kenneth R. Krushenski, City Attorney

\_\_\_\_\_  
Thomas L. Beehan, Mayor

\_\_\_\_\_  
Diana R. Stanley, Acting City Clerk

RECREATION AND PARKS MEMORANDUM  
11-07

DATE: September 29, 2011  
TO: Mark S. Watson, City Manager  
FROM: Josh Collins, Recreation and Parks Director  
SUBJECT: SECRET CITY FESTIVAL SPONSORSHIP

The accompanying Resolution authorizes a sponsorship of \$50,000 from the Economic Diversification Fund and designates the City of Oak Ridge as a "Festival Sponsor" for the 2012 Secret City Festival.

The Secret City Festival Steering Committee is requesting City sponsorship for the June 15 & 16, 2012, event. In 2011, the City of Oak Ridge and B&W Y-12 were recognized as "Festival Sponsors" playing a significant role in the success of the event. In the past, the City's financial commitment to the Festival has sent a strong message to potential sponsors in the community and has encouraged others to get involved. The Festival provides the public with an opportunity to learn about the history of the City and the sacrifices that were made during the Manhattan Project days. The Festival also showcases the diversity and community pride of the City. The City of Oak Ridge, the Arts Council of Oak Ridge and the Oak Ridge Convention and Visitors Bureau are "Festival Presenters" and comprise the Festival Steering Committee.

The committee anticipates more events and a larger crowd in 2012 for activities such as:

- Live Friday and Saturday Night Entertainment
- World War II Reenactment
- Fine Arts Show
- ORHPA's Historical Displays
- Arts & Crafts
- Historical Tours
- Expanded Youth and Children's Area
- Displays of Current and Future Oak Ridge Activities
- Lots of Food and Local Entertainment

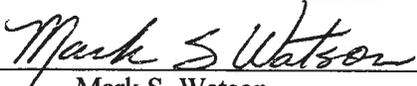
Last year's Festival generated revenue totaling \$190,000 in sponsorships, admission/booth fees and sales including the \$50,000 from the City. The return on the City's sponsorship is detailed in Attachment # 1. In addition to the \$50,000 sponsorship, the City provided in-kind support to manage and supervise the event. The Festival Committee is reevaluating fees/charges and hopes to increase revenue.

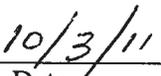
Staff recommends approval of the accompanying Resolution as submitted. Funding for a Festival Sponsorship from the City of Oak Ridge will come from the Economic Diversification Fund.

Attachments

City Manager's Comments:

I have reviewed the above issue and recommend Council action as outlined in this document.

  
Mark S. Watson

  
Date

## Attachment #1

The City's sponsorship at the "Festival Level" will provide the City with:

- Name and logo on billboards posted for 30 days throughout the region (25)
- Name and logo on 20,000 rack cards distributed to promote the festival
- Name and logo on 20,000 placemats distributed to restaurants throughout Anderson County
- Name and logo in all newspaper ads
- Name and logo on public service advertisements
- Name mention on public service announcement radio spots
- Name mention in all press materials related to the festival
- Feature article submitted to print media
- Corporate link from the Secret City Festival web site
- Name and logo on banners to be placed in prominent locations at the festival
- Name prominently displayed on signage at the festival
- Opportunity to make stage announcements at various times throughout the day
- Priority booth placement at the festival
- Complimentary combo tickets for Friday and Saturday night entertainment
- Opportunity to be a major contributor to a quality, award-winning community event

**RESOLUTION**

A RESOLUTION AUTHORIZING AN EXPENDITURE OF \$50,000.00 FROM THE ECONOMIC DIVERSIFICATION FUND TO PROVIDE SPONSORSHIP TO THE 2012 SECRET CITY FESTIVAL.

WHEREAS, the City's annual Secret City Festival continues to grow and expand in an effort to attract visitors from throughout the region; and

WHEREAS, the Secret City Festival Steering Committee has marketed the festival as an opportunity to learn about the history of Oak Ridge and the sacrifices that were made during the days of the Manhattan Project; and

WHEREAS, the festival also showcases community pride and the diversity of Oak Ridge; and

WHEREAS, the proposed budget for the 2012 festival is \$200,000.00; and

WHEREAS, funds in the amount of \$50,000.00 are available in the Economic Diversification Fund to help cover the costs associated with festival expenses; and

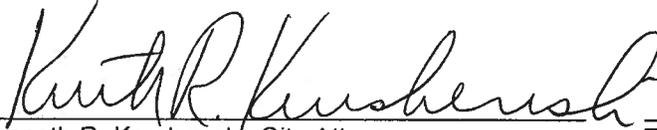
WHEREAS, the City Manager recommends authorization to expend \$50,000.00 from the Economic Diversification Fund for expenses associated with the 2012 Secret City Festival.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF OAK RIDGE, TENNESSEE:

That the recommendation of the City Manager is approved and an expenditure of \$50,000.00 from the Economic Diversification Fund for 2012 Secret City Festival expenditures is hereby approved.

This the 10th day of October 2011.

APPROVED AS TO FORM AND LEGALITY:

  
\_\_\_\_\_  
Kenneth R. Krushenski, City Attorney

\_\_\_\_\_  
Thomas L. Beehan, Mayor

\_\_\_\_\_  
Diana R. Stanley, Acting City Clerk

RECREATION AND PARKS MEMORANDUM  
11-08

DATE: October 3, 2011  
TO: Mark S. Watson, City Manager  
FROM: Josh Collins, Recreation and Parks Director  
SUBJECT: ARTS COUNCIL CONTRACT FOR THE SECRET CITY FESTIVAL

The accompanying Resolution approves a contract to the Arts Council of Oak Ridge to provide professional services and activity support for the Secret City Festival and authorizes the reimbursement of actual costs incurred in an amount not to exceed \$150,000.

The proposed award will allow the City to contract with the Arts Council of Oak Ridge to provide entertainment, production support, activities and programs for the Secret City Festival and to reimburse the organization for actual costs incurred. These costs are already included in the Secret City Festival 2012 Budget and the proposed contract will not result in additional compensation for the Arts Council of Oak Ridge. Funding for this reimbursement will come from sponsorships, ticket sales and event vendor booth fees. Currently, the Arts Council joins the Oak Ridge Convention and Visitor's Bureau and the City of Oak Ridge as presenters of the festival. The Arts Council schedules and manages the entertainment and production setup for the two-day event. The contract will designate certain responsibilities to the Arts Council and will provide them with the flexibility to secure the services of professional artists and performers in a timely fashion. Under this contract, the Arts Council of Oak Ridge will be able to expedite the process of contacting, negotiating, contracting and accommodating the festival entertainers and service providers. In addition to providing a more flexible process, the contract will reduce staff time spent on securing services, preparing contracts and processing individual invoices for performers.

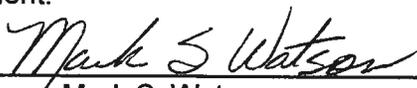
With the planning effort for the 2012 Festival underway, securing the Friday and Saturday night entertainment within the next two months is essential. The Arts Council has already started the process of evaluating performers and hopes to have arrangements finalized later this calendar year. The Secret City Festival Executive Committee will continue its role of directing and managing the Festival and will rely heavily on the Arts Council for its expertise in entertainment.

Staff recommends approval of the accompanying Resolution as submitted. Funding for this contract and the reimbursement of actual costs incurred will be provided from sponsorships, booth fees and ticket sales.

Attachment

City Manager's Comments:

I have reviewed the above issue and recommend Council action as outlined in this document.

  
\_\_\_\_\_  
Mark S. Watson

10/3/11  
Date

**RESOLUTION**

A RESOLUTION AUTHORIZING A PROFESSIONAL SERVICES AGREEMENT WITH THE ARTS COUNCIL OF OAK RIDGE TO PROVIDE ENTERTAINMENT, PRODUCTION SUPPORT, ACTIVITIES AND PROGRAMS RELATED TO THE UPCOMING 2012 SECRET CITY FESTIVAL AND AUTHORIZING THE REIMBURSEMENT OF ACTUAL COSTS INCURRED IN AN AMOUNT NOT TO EXCEED \$150,000.00.

WHEREAS, the City of Oak Ridge has a need for professional services to provide entertainment, production support, activities, and programs related to the upcoming 2012 Secret City Festival; and

WHEREAS, the Arts Council of Oak Ridge has been providing such services in the past to the satisfaction of the City; and

WHEREAS, the City and the Arts Council of Oak Ridge desire to enter into an agreement to provide such services for the upcoming 2012 Secret City Festival, which agreement the City Manager recommends be accepted.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF OAK RIDGE, TENNESSEE:

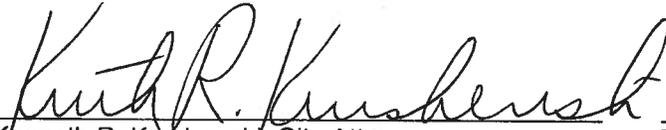
That the recommendation of the City Manager is approved and a Professional Services Agreement between the City of Oak Ridge and the Arts Council of Oak Ridge, P.O. Box 4324, Oak Ridge, Tennessee 37831, to provide entertainment, production support, activities, and programs related to the upcoming 2012 Secret City Festival is hereby approved; said agreement in an amount not to exceed \$150,000.00.

BE IT FURTHER RESOLVED that this agreement is for reimbursement of actual costs incurred and the funding will be provided from sponsor donations, booth fees and ticket sales.

BE IT FURTHER RESOLVED that the Mayor is hereby authorized to execute the appropriate legal instruments to accomplish the same.

This the 10th day of October 2011.

APPROVED AS TO FORM AND LEGALITY:

  
\_\_\_\_\_  
Kenneth R. Krushenski, City Attorney

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Thomas L. Beehan, Mayor

\_\_\_\_\_  
Diana R. Stanley, Acting City Clerk

Personnel Memorandum  
11-094

October 4, 2011

TO: Mark S. Watson, City Manager  
FROM: Penelope H. Sissom, Personnel Director  
SUBJECT: MEDICAL INSURANCE RENEWAL

The attached resolution extends the contract with the State of Tennessee Local Government Health Insurance Program to purchase employee medical insurance for calendar year 2012.

The revised State program that became effective January 1, 2011 offers a wide variety of choices with different premium rates for Employee Only, Employee plus Child(ren), Employee plus Spouse, and Employee plus Spouse plus Child(ren) and Employee Dual (both spouses are City employees under one contract). The employee then chooses either a Standard PPO (Preferred Provider Organization), a Partnership PPO or a PPO Limited and all three of these options are offered by both Blue Cross Blue Shield and CIGNA HealthCare. Each of the plans has different coinsurance and different deductible amounts. Another factor in the employee's decision is that not all physicians and hospitals are in every plan.

Resolution Number 5-44-03, adopted by the City Council at its May 5, 2003 meeting, specifies the City's premium cost sharing policy:

1. The City pays 85% of the highest cost plan for employees choosing single coverage with the employee paying the remaining cost;
2. The City pays 70% of the highest cost plan for employees choosing family coverage with the employee paying the remaining cost; and
3. Each spouse of the dual family (both spouses work for the City) pays the applicable single coverage employee rate for the specific plan selected for the dual family coverage.

Because of this policy, those employees selecting any of the four Limited PPO plans for CY2012 will have no payroll deduction. Staff is advocating that this cost-sharing policy continue as indicated above for calendar year 2012 and fiscal year 2013.

Resolution Number 6-52-08, adopted by the City Council at its June 16, 2008 meeting, provides that the City contributes 50% of the medical insurance cost for its retirees and their families until the retiree becomes eligible for Medicare, or has been retired for seven years, whichever comes first.

The City was advised that because of projected benefit and administrative expenses there will be a 7.6% increase in premiums effective January 1, 2012. This increase will be shared with employees as indicated in the policies above and the figures listed below. Employees have been advised of this increase since the period of October 1 through November 1, 2011 is the annual enrollment transfer period when employees may change plans (Partnership, Standard or Limited PPO), may change medical providers (BCBS or CIGNA) or enroll dependents without a qualifying event. The benefit structure for CY2012 is essentially the same as this year with a few changes and enhancements. As part of the Partnership PPO, employees will be required to actively participate in health and lifestyle coaching, if necessary

The charts on the next page reflect the medical insurance premium changes and the impact these premiums will have on both the City and employees.

**Total Premiums**

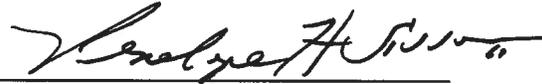
Level of Coverage	Blue Cross Blue Shield		CIGNA HealthCare	
	Monthly	Annual	Monthly	Annual
<b>Partnership PPO</b>				
Employee	\$566.60	\$6,799.20	\$576.60	\$6,919.20
Employee + Child(ren)	\$878.23	\$10,538.76	\$898.23	\$10,778.76
Employee + Spouse	\$1,218.18	\$14,618.16	\$1,238.18	\$14,858.16
Employee + Spouse + Child(ren)	\$1,529.82	\$18,357.84	\$1,549.82	\$18,597.84
<b>Standard PPO</b>				
Employee	\$593.50	\$7,122.00	\$603.50	\$7,242.00
Employee + Child(ren)	\$905.13	\$10,861.56	\$925.13	\$11,101.56
Employee + Spouse	\$1,271.98	\$15,263.76	\$1,291.98	\$15,503.76
Employee + Spouse + Child(ren)	\$1,583.62	\$19,003.84	\$1,603.62	\$19,243.44
<b>PPO-Limited</b>				
Employee	\$362.83	\$4,353.96	\$372.83	\$4,473.96
Employee + Child(ren)	\$562.38	\$6,748.56	\$582.38	\$6,988.56
Employee + Spouse	\$780.08	\$9,360.96	\$800.08	\$9,600.96
Employee + Spouse + Child(ren)	\$979.64	\$11,755.68	\$999.64	\$11,995.68

**Employee Cost**

Level of Coverage	Blue Cross Blue Shield		CIGNA HealthCare	
	Pay Period	Annual	Pay Period	Annual
<b>Partnership PPO</b>				
Employee	\$24.75	\$643.50	\$29.36	\$763.36
Employee + Child(ren)	\$106.45	\$2,767.70	\$115.68	\$3,007.68
Employee + Spouse	\$144.83	\$3,765.58	\$154.06	\$4,005.56
Employee + Spouse + Child(ren)	\$187.98	\$4,887.48	\$197.21	\$5,127.46
Employee Dual	\$49.50	\$1,287.00	\$58.72	\$1,526.72
<b>Standard PPO</b>				
Employee	\$37.16	\$966.15	\$41.78	\$1,086.28
Employee + Child(ren)	\$118.86	\$3,090.36	\$128.10	\$3,330.60
Employee + Spouse	\$169.66	\$4,411.16	\$178.89	\$4,651.14
Employee + Spouse + Child(ren)	\$212.81	\$5,533.06	\$222.04	\$5,773.04
Employee Dual	\$74.32	\$1,932.32	\$83.56	\$2,172.56

PPO-Limited – No Charge for Employee with Any Option

Sufficient funds are included in the FY2012 Budget for the CY2012 increase. Therefore, Staff recommends adoption of the attached resolution.

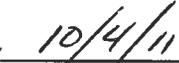


Penelope H. Sissom

Attachment

**City Manager's Comments:**

I have reviewed the above issue and recommend Council action as outlined in this document.

  
Mark S. Watson  
10/4/11  
Date

**RESOLUTION**

A RESOLUTION TO EXTEND THE EMPLOYEE MEDICAL INSURANCE CONTRACT BETWEEN THE CITY OF OAK RIDGE AND THE STATE OF TENNESSEE LOCAL GOVERNMENT HEALTH INSURANCE PROGRAM FOR THE PERIOD OF JANUARY 1, 2012 THROUGH DECEMBER 31, 2012 AT AN ESTIMATED COST OF \$3,875,000.00.

WHEREAS, it is appropriate for the City to ensure that its employees have affordable medical insurance coverage for themselves and their families; and

WHEREAS, it is appropriate for the City to provide medical insurance coverage for its employees that is comparable to that provided by similar cities and employers; and

WHEREAS, it is appropriate for the City to ensure that those who have retired from City employment after having served the City have medical insurance coverage for themselves and their families; and

WHEREAS, it is appropriate for the City to provide for a medical reimbursement account for those employees who elect not to have medical insurance through the City; and

WHEREAS, the State of Tennessee offers to local government employees and retirees a self-insured medical insurance plan and contracts for the administration of said plan; and

WHEREAS, by Resolution 9-148-98, City Council approved a contract with the State of Tennessee for the purchase of employee medical insurance; and

WHEREAS, the City of Oak Ridge has the option to extend said contract for the period of January 1, 2012 through December 31, 2012, at an estimated cost of \$3,875,000.00; and

WHEREAS, the City Manager recommends extension of said contract.

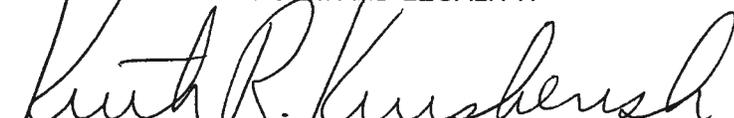
NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF OAK RIDGE, TENNESSEE:

That the recommendation of the City Manager is approved and the contract between the City of Oak Ridge and the State of Tennessee Local Government Health Insurance Program, Nashville, Tennessee, to provide employee medical insurance is hereby extended for the period January 1, 2012 through December 31, 2012 at an estimated cost of \$3,875,000.00.

BE IT FURTHER RESOLVED that the Mayor is hereby authorized to execute the appropriate legal instruments to accomplish the same.

This the 10th day of October 2011.

APPROVED AS TO FORM AND LEGALITY:



Kenneth R. Krushenski, City Attorney

Thomas L. Beehan, Mayor

Diana R. Stanley, Acting City Clerk

**PUBLIC HEARING  
AND  
FIRST READING  
OF  
ORDINANCES**

**COMMUNITY DEVELOPMENT DEPARTMENT MEMORANDUM**  
**11-64**

DATE: September 26, 2011

TO: Mark S. Watson, City Manager

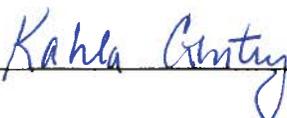
FROM: Kahla Gentry, Senior Planner

SUBJECT: **Request to Rezone, Parcels 1.04, 1.17, and 1.18, Roane County Tax Map 30, from F.I.R. to IND-2/IMDO**

An item for the City Council agenda is a request to rezone ED-9A & B and Building K-1225 from F.I.R., Federal Industry and Research to IND-2/IMDO, Industrial Manhattan District Overlay. This property is identified on the Roane County Tax Map as Parcels 1.04, 1.17 and 1.18 on Tax Map 30. These parcels have an approximate area of 12.08 acres. ED9A & B are owned by Heritage Center L.L.C. and Building K-1225 is owned by JMM Realty. The property is located within Heritage Center and is being converted to private industrial use. At their regular meeting on September 22, 2011, the Planning Commission recommended approval of the rezoning by a vote of 6-0.

The F.I.R., Federal Industry and Research zoning district is only applicable to the D.O.E. Reservation. When property is transferred from the federal government to enable private development, rezoning to an appropriate district is required. The Industrial Manhattan District Overlay (IMDO) is a new district that was approved by City Council in December 2010. The IMDO district was created to facilitate the transfer and reuse of property from the U.S. Department of Energy (D.O.E.) to the private sector. As the Heritage Center is transferred to private entities, it is expected that subdivision plats and site plans for properties with existing buildings and parking facilities will need to have alternatives available in meeting various requirements such as minimum setbacks from property lines, parking requirements, green space and landscaping requirements. The IMDO does not waive bulk regulations or performance criteria, but rather provides alternative measures to achieve compliance through off-site improvements, cross access easements, and identification of shared parking facilities.

Rezoning the subject property to a base zone of IND-2, Industrial with the Industrial Manhattan District Overlay (IMDO) is the next step in facilitating the reuse of this industrial property. The Staff finds the rezoning to be in compliance with the Land Use Plan, consistent with the existing uses within the area and appropriate for the proposed use. Approval of the rezoning is recommended.

  
\_\_\_\_\_

**City Manager's Comments:**

I have reviewed the above issue and recommend Council action as outlined in this document.

Mark S. Watson      10/3/11  
Mark S. Watson      Date

## Staff Review of Rezoning Request

Location & Approximate Area: Roane County Tax Map 30, Parcels 1.04, 1.17 and 1.18; also identified as ED-9 A& B, and building K 1225, all located within the Heritage Center. Approx. 12.08 acres in area.

Date: September 12, 2011

**Owner:** Heritage Center LLC  
107 Lea Way  
Oak Ridge, TN 37830

JMM Realty LLC, Manhattan Project LLC  
21312 Catawba Avenue  
Cornelius, NC 28031

### **Request Rezoning**

From: F.I.R., Federal Industry and Research  
To: IND-2 IMDO, Industrial Manhattan District Overlay

**Purpose:** Redevelopment of brownfield industrial site.

**Site Characteristics:** About same elevation as adjacent lands. Site is generally level.

**Existing Land Use:** Industrial, includes building K-1225

### **Adjacent Land Uses & Zoning:**

North: F.I.R., Federal Industry and Research, Heritage Center industrial area  
East: F.I.R., Federal Industry and Research, open space within Heritage Center  
South: IND-2/IMDO, ED-8  
West: IND-2/IMDO, ED-8

**Previous Rezoning Requests:** None

2. **Conformity with 1988 Comprehensive Plan:** The Land Use Plan designates this area as I, Industrial. The proposed zone is in conformance with the Land Use Plan.

Applicable Policies:

Policy E-3: The City will attempt to strengthen a coordinated, business-like, public-private approach to retain, develop and recruit targeted businesses that broaden the tax base, particularly those which maintain or increase per capita and family income.

POLICY E-4: In a joint public-private partnership approach, the City will work with the community to nurture spin-off industries and stimulate the formation of affinity industries in Oak Ridge.

POLICY L-11: The City will locate new industrial and office areas and enforce site design standards to ensure that residential neighborhoods are protected from the adverse effects of those activities.

### 3. **Applicable Regulations:**

Setbacks: IND-2, Industrial setbacks are as follows: Front – 30 feet; Side –25 feet;  
Rear – 25 feet. Overlay allows exceptions for existing buildings  
Maximum Usable Floor Area to Lot Area Ratio: 60%

#### **Analysis:**

The following criteria were used to evaluate the rezoning request.

1) **Is the proposed zoning district consistent with the City's Comprehensive Plan?**

Yes.

2) **Are there substantial changes in the character of development in or near the area under consideration that support the proposed rezoning.**

The property has become privately owned and made available by D.O.E for economic development.

3) **Is the character of the area suitable for the uses permitted in the proposed zoning district and is the proposed zoning district compatible with surrounding zoning and uses?** Yes, the property is within an industrial area without close proximity to residential uses. There is nearby access to S.R. 58, S.R. 95 and Interstate 40.

4) **Will the proposed rezoning create an isolated district unrelated to adjacent and nearby districts?**

The ED-9 parcels are the third group of parcels within the Heritage Center to be rezoned. ED-5 was rezoned from FIR to IND-2 in September 2009. ED-8 was rezoned to IND-2/IMDO in March 2011. Additional rezonings from F.I.R. will occur as the redevelopment and privatizing of the Heritage Center continues.

5) **Are public facilities and services adequate to accommodate the proposed zoning district?**

Public utilities and road capacity are adequate.

6) **Would the requested rezoning have environmental impacts?**

The Heritage Center is already an industrial site. Changing the zoning from F.I.R. to IND-2/IMDO will not change the environmental impacts.

**Neighborhood Position:** No comments have been received. The surrounding property is held either by Heritage Center LLC or the U.S. D.O.E.

**Landscaping/Buffering requirements:** The landscaping and design standards within Article XIII of the Zoning Ordinance will apply at final site review stage with possible alternatives as allowed by the Overlay District.

**Notification of Property Owners Within 200':** September 9, 2011

**Conclusion and Planning Staff Recommendation:** Staff recommends approval the IND-2 Industrial Manhattan District Overlay as requested, finding the proposed zoning consistent with existing uses and the character of development within the area and in compliance with the Comprehensive Plan.



**TITLE**

AN ORDINANCE TO AMEND ORDINANCE NO. 2, TITLED "THE ZONING ORDINANCE OF THE CITY OF OAK RIDGE, TENNESSEE," BY AMENDING THE ZONING MAP WHICH IS MADE A PART OF THE ORDINANCE BY CHANGING THE ZONING DISTRICT OF PARCELS 1.04, 1.17, AND 1.18, ROANE COUNTY TAX MAP 30, ALSO KNOWN AS BUILDING K-1225, ED-9A, AND ED-9B, LOCATED AT HERITAGE CENTER, FROM F.I.R., FEDERAL INDUSTRY AND RESEARCH TO IND-2, INDUSTRIAL MANHATTAN DISTRICT OVERLAY (IND-2/IMDO).

WHEREAS, the following change has been submitted for approval or disapproval to the Oak Ridge Municipal Planning Commission and the Commission has approved the same; and

WHEREAS, a public hearing thereon has been held as required by law.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF OAK RIDGE TENNESSEE:

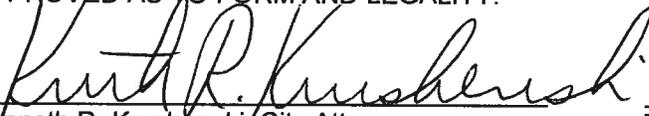
Section 1. The district boundaries of the zoning map attached to and made a part of Ordinance No. 2, as amended, are revised in the following particulars:

<u>Property Description</u>	<u>Location</u>	<u>Present Zoning District</u>	<u>New Zoning District</u>
Parcels 1.04, 1.17, and 1.18, Roane County Map 30 (± 12.08 Acres)	North side of State Route 58 between Heritage Center Boulevard and Victorious Boulevard	F.I.R., Federal Industry and Research	IND-2, Industrial Manhattan District Overlay (IND-2/IMDO)

Section 2. The changes shall be imposed upon said map and shall be as much a part of Ordinance No. 2 as if fully described therein.

Section 3. This ordinance shall become effective ten (10) days after adoption on second reading, the welfare of the City of Oak Ridge requiring it.

APPROVED AS TO FORM AND LEGALITY:

  
Kenneth R. Krushenski, City Attorney

\_\_\_\_\_  
Thomas L. Beehan, Mayor

\_\_\_\_\_  
Diana R. Stanley, Acting City Clerk

Public Hearing: 10/10/2011  
Publication Date: 9/23/2011  
First Reading: 10/10/2011  
Publication Date: \_\_\_\_\_  
Second Reading: \_\_\_\_\_  
Publication Date: \_\_\_\_\_  
Effective Date: \_\_\_\_\_

**COMMUNITY DEVELOPMENT DEPARTMENT MEMORANDUM  
11-65**

DATE: September 26, 2011  
TO: Mark S. Watson, City Manager  
FROM: Kahla Gentry, Senior Planner  
SUBJECT: **FEMA FLOODPLAIN MANAGEMENT ORDINANCE UPDATE**

An item for the City Council agenda is an amendment to the Oak Ridge Zoning Ordinance as it pertains to Floodplain Management Regulations. The State, in association with FEMA, has provided an updated model Municipal Floodplain Zoning Ordinance amendment for cities to utilize in order to maintain their compliance and participation in the Flood Insurance Program. The Oak Ridge Floodplain Management Ordinance provides details on zoning requirements and development regulations. The revised ordinance provides greater clarification of language and administrative procedures. Cities must keep their regulations regarding floodplain management up to date in order to continue participation in the Flood Insurance Program. Property owners cannot obtain flood insurance unless FEMA determines that the City is in compliance with program requirements pertaining to regulating development within floodplain areas. At their regular meeting on August 25, 2011, the Planning Commission voted 7-0 to recommend approval of the updated ordinance.

Kahla Gentry

**City Manager's Comments:**

I have reviewed the above issue and recommend Council action as outlined in this document.

Mark S. Watson      9/27/11  
Mark S. Watson                      Date

## Bold-Strikethrough of Revisions to Zoning Ordinance §9.07

### Section 9.07 Floodplain Regulations

#### (a) Statutory Authorization

The Legislature of the State of Tennessee has, in **Tennessee Code Annotated Sections §13-7-201 through §13-7-210**; ~~Tennessee Code Annotated~~ delegated the responsibility to local governmental units to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry.

#### (b) Findings of Fact

1. The City of Oak Ridge, **Tennessee**, Mayor and City Council wish to maintain eligibility in the National Flood Insurance Program (**NFIP**) and in order to do so must meet the ~~requirements of 60.3 of the Federal Insurance Administration Regulations found at 44 CFR Ch. 1 (10-1-04 Edition)~~. **NFIP regulations found in Title 44 of the Code of Federal Regulations (CFR), Ch. 1, Sec. 60.3.**
2. Areas of Oak Ridge are subject to periodic water inundation which could result in loss of life and property, health and safety hazards, disruption of commerce and governmental services, extraordinary public expenditures for flood protection and relief, and impairment of the tax base, all of which adversely affect the public health, safety and general welfare.
3. These flood losses are caused by the cumulative effect of obstructions in floodplains, causing increases in flood heights and velocities; by uses in flood hazard areas which are vulnerable to floods; or construction which is inadequately elevated, flood-proofed, or otherwise unprotected from flood damages.

#### (c) Statement of Purpose

The floodplain regulations are established to promote the public health, safety and general welfare, and to minimize public and private losses due to flood conditions in specific areas. This ordinance is designed to:

1. Restrict or prohibit uses which are vulnerable to water or erosion hazards, or which result in damaging increases in erosion, flood heights, or velocities;
2. Require that uses vulnerable to floods, including community facilities, be protected against flood damage at the time of initial construction;
3. Control the alteration of natural floodplains, stream channels, and natural protective barriers which are involved in the accommodation floodwaters;
4. Control filling, grading, dredging and other development which may increase flood damage or erosion, and;
5. Prevent or regulate the construction of flood barriers which will unnaturally divert flood waters or which may increase flood hazards to other lands.

#### (d) Objectives

The objectives of this ordinance are:

1. To protect human life, health and property;
2. To minimize expenditure of public funds for costly flood control projects;
3. To minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public;
4. To minimize prolonged business interruptions;
5. To minimize damage to public facilities and utilities such as water and gas mains, electric, telephone and sewer lines, streets and bridges located in floodable areas;
6. To help maintain a stable tax base by providing for the sound use and development of flood prone areas in such a manner as to minimize blight in flood areas;
7. To ensure that potential homebuyers are notified that property is in a floodable area; and
8. To maintain eligibility for participation in the National Flood Insurance Program.

(e) Definitions

Unless specifically defined below, words or phrases used in Section 9.07 and Section 9.08 shall be interpreted as to give them the meaning they have in common usage and to give this ordinance its most reasonable application given its stated purpose and objectives.

1. Accessory Structure:

"Accessory Structure" shall represent a subordinate structure to the principal structure and, for the purpose of this section, shall conform to the following:

- a. Accessory structures shall ~~not be used for human habitation.~~ **only be used for parking vehicles and storage.**
- b. Accessory structures shall be designed to have low flood damage potential.
- c. Accessory structures shall be constructed and placed on the building site so as to offer the minimum resistance to the flow of floodwaters.
- d. Accessory structures shall be firmly anchored to prevent flotation which may result in damage to other structures.
- e. **Utilities and service facilities** such as electrical and heating equipment shall be elevated or ~~floodproofed~~ **otherwise protected from intrusion of floodwaters.**

2. Act:

"Act" means the statutes authorizing the National Flood Insurance Program that are incorporated in 42 U.S.C. 4001-4128.

3. Addition (to an existing building):

"Addition (to an existing building)" means any walled and roofed expansion to the perimeter of a building in which the addition is connected by a common load-bearing wall other than a firewall. Any walled and roofed addition, which is connected by a firewall or is separated by an independent perimeter load-bearing wall, shall be considered New Construction.

4. Appeal:

"Appeal" means a request for a review of the local enforcement officer's interpretation of any provision of this Ordinance or a request for a variance.

5. Area of Shallow Flooding:

"Area of Shallow Flooding" means a designated AO or AH Zone on a community's Flood Insurance Rate Map (FIRM) with one percent or greater annual chance of flooding to an average depth of one to three feet where a clearly defined channel does not exist, where the path of flooding is unpredictable and indeterminate; and where velocity flow may be evident (Such flooding is characterized by ponding or sheet flow).

6. Area of Special Flood-related Erosion Hazard:

"Area of Special Flood-related Erosion Hazard" is the land within a community which is most likely to be subject to severe flood-related erosion losses. The area may be designated as Zone E on the Flood Hazard Boundary Map (FHBM). After the detailed evaluation of the special flood-related erosion hazard area in preparation for publication of the FIRM, Zone E may be further refined.

7. Area of Special Flood Hazard: **see "Special Flood Hazard Area"**

~~"Area of Special Flood Hazard" is the land in the floodplain within a community subject to a one percent or greater chance of flooding in any given year. The area may be designated as Zone A on the FHBM. After detailed ratemaking has been completed in preparation for publication of the FIRM, Zone A usually is refined into Zones A, AO, AH, A1-30, AE or A99.~~

8. Base Flood:

"Base Flood" means the flood having a one percent chance of being equaled or exceeded in any given year. **This term is also referred to as the 100-year flood of the one (1)-percent annual chance flood.**

9. Basement:

"Basement" means that portion of a building having its floor subgrade (below ground level) on all sides.

~~10.~~ ~~Breakaway Wall:~~

~~"Breakaway Wall" means a wall that is not part of the structural support of the building and is intended through its design and construction to collapse under specific lateral loading forces, without causing damage to the elevated portion of the building or supporting foundation system.~~

10. 11. Building: **see "Structure"**

~~"Building", means any structure built for support, shelter, or enclosure for any occupancy or storage (See "Structure").~~

11. 12. Development:

"Development" means any man-made change to improved or unimproved real estate, including, but not limited to, buildings or other structures, mining, dredging, filling, grading, paving, excavating, drilling operations, or permanent storage of equipment or materials.

12. 13. Elevated Building:

"Elevated Building" means a non-basement building built to have the lowest floor of the lowest enclosed area elevated above the ground level by means of fill solid foundation perimeter walls with openings sufficient to facilitate the unimpeded movement of floodwater, pilings, columns, piers, or shear walls adequately anchored so as not to impair the structural integrity of the building during a base flood event.

13. 14. Emergency Flood Insurance Program or Emergency Program:

"Emergency Flood Insurance Program" or "Emergency Program" means the program as implemented on an emergency basis in accordance with section 1336 of the Act. It is intended as a program to provide a first layer amount of insurance on all insurable structures before the effective date of the initial FIRM.

14. 15. Erosion:

"Erosion" means the process of the gradual wearing away of landmasses. This peril is not per se covered under the Program.

15. 16. Exception:

"Exception" means a waiver from the provisions of this Ordinance which relieves the applicant from the requirements of a rule, regulation, order or other determination made or issued pursuant to this Ordinance.

16. 17. Existing Construction:

"Existing Construction" means any structure for which the "start of construction" commenced before the effective date of the first floodplain management code or ordinance adopted by the community as a basis for that community's participation in the National Flood Insurance Program (NFIP).

**17. 18.** Existing Manufactured Home Park or Subdivision:

"Existing Manufactured Home Park or Subdivision" means a manufactured home park or subdivision for which the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including, at a minimum, the installation of utilities, the construction of streets, final site grading or the pouring of concrete pads) is completed before the effective date of the first floodplain management code or ordinance adopted by the community as a basis for that community's participation in the National Flood Insurance Program (NFIP).

**18. 19.** Existing Structures: See Existing Construction

**19. 20.** Expansion to an Existing Manufactured Home Park or Subdivision:

"Expansion to an Existing Manufactured Home Park or Subdivision" means the preparation of additional sites by the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads).

**20. 21.** Flood or Flooding:

"Flood" or "Flooding" means a general and temporary condition of partial or complete inundation of normally dry land areas from:

- a. The overflow of inland or tidal waters;
- b. The unusual and rapid accumulation or runoff of surface waters from any source.

**21. 22.** Flood Elevation Determination:

"Flood Elevation Determination" means a determination by the ~~Administrator~~ **Federal Emergency Management Agency (FEMA)** of the water surface elevations of the base flood, that is, the flood level that has a one percent or greater chance of occurrence in any given year.

**22. 23.** Flood Elevation Study:

"Flood Elevation Study" means an examination, evaluation and determination of flood hazards and, if appropriate, corresponding water surface elevations, or an examination, evaluation and determination of mudslide (i.e., mudflow) or flood-related erosion hazards.

**23. 24.** Flood Hazard Boundary Map (FHBM):

"Flood Hazard Boundary Map (FHBM)" means an official map of a community, issued by the Federal Emergency Management Agency, where the boundaries of areas of special flood hazard have been designated as Zone A.

**24. 25. Flood Insurance Rate Map (FIRM):**

"Flood Insurance Rate Map (FIRM)" means an official map of a community, issued by the Federal Emergency Management Agency, delineating the areas of special flood hazard or the risk premium zones applicable to the community.

**25. 26. Flood Insurance Study:**

"Flood Insurance Study" is the official report provided by the Federal Emergency Management Agency, evaluating flood hazards and containing flood profiles and water surface elevation of the base flood.

**26. 27. Floodplain or Flood-prone Area:**

"Floodplain" or "Flood-prone Area" means any land area susceptible to being inundated by water from any source (see definition of "Flooding").

**27. 28. Floodplain Management:**

"Floodplain Management" means the operation of an overall program of corrective and preventive measures for reducing flood damage, including but not limited to emergency preparedness plans, flood control works and floodplain management regulations.

**28. 29. Flood Protection System:**

"Flood Protection System" means those physical structural works for which funds have been authorized, appropriated, and expended and which have been constructed specifically to modify flooding in order to reduce the extent of the area within a community subject to a "special flood hazard" and the extent of the depths of associated flooding. Such a system typically includes hurricane tidal barriers, dams, reservoirs, levees or dikes. These specialized flood modifying works are those constructed in conformance with sound engineering standards.

**29. 30. Floodproofing:**

"Floodproofing" means any combination of structural and nonstructural additions, changes, or adjustments to structures which reduce or eliminate flood damage to real estate or improved real property, water and sanitary facilities, structures and their contents.

**30. 31. Flood-related Erosion:**

"Flood-related Erosion" means the collapse or subsidence of land along the shore of a lake or other body of water as a result of undermining caused by waves or currents of water exceeding anticipated cyclical levels or suddenly caused by an unusually high water level in a natural body of water, accompanied by a severe storm, or by an unanticipated force of nature, such as a flash flood, or by some similarly unusual and unforeseeable event which results in flooding.

**31. 32. Flood-related Erosion Area or Flood-related Erosion Prone Area:**

"Flood-related Erosion Area" or "Flood-related Erosion Prone Area" means a land area adjoining the shore of a lake or other body of water, which due to the composition of the shoreline or bank and high water levels or wind-driven currents, is likely to suffer flood-related erosion damage.

**32. 33.** Flood-related Erosion Area Management:

"Flood-related Erosion Area Management" means the operation of an overall program of corrective and preventive measures for reducing flood-related erosion damage, including but not limited to emergency preparedness plans, flood-related erosion control works and flood plain management regulations.

**33. 34.** Floodway:

"Floodway" means the channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height.

**35. ~~35.~~** Floor:

~~"Floor" means the top surface of an enclosed area in a building (including basement), i.e., top of slab in concrete slab construction or top of wood flooring in wood frame construction. The term does not include the floor of a garage used solely for parking vehicles.~~

**34. 36.** Freeboard:

"Freeboard" means a factor of safety usually expressed in feet above a flood level for purposes of floodplain management. "Freeboard" tends to compensate for the many unknown factors that could contribute to flood heights greater than the height calculated for a selected size flood and floodway conditions, such as wave action, bridge openings and the hydrological effect of urbanization of the watershed.

**35. 37.** Functionally Dependent Use:

"Functionally Dependent Use" means a use which cannot perform its intended purpose unless it is located or carried out in close proximity to water. The term includes only docking facilities, port facilities that are necessary for the loading and unloading of cargo or passengers, and ship building and ship repair facilities, but does not include long-term storage or related manufacturing facilities.

**36. 38.** Highest Adjacent Grade:

"Highest Adjacent Grade" means the highest natural elevation of the ground surface, prior to construction, adjacent to the proposed walls of a structure.

**37. 39.** Historic Structure:

"Historic Structure" means any structure that is:

- a. Listed individually in the National Register of Historic Places (a listing maintained by the U.S. Department of Interior) or preliminarily

determined by the Secretary of the Interior as meeting the requirements for individual listing on the National Register;

- b. Certified or preliminarily determined by the Secretary of the Interior as contributing to the historical significance of a registered historic district or a district preliminarily determined by the Secretary to qualify as a registered historic district;
- c. Individually listed on the Tennessee inventory of historic places and determined as eligible by states with historic preservation programs which have been approved by the Secretary of the Interior; or
- d. Individually listed on ~~a local~~ **the City of Oak Ridge, Tennessee** inventory of historic places and determined as eligible by communities with historic preservation programs that have been certified either:
  - (1) By an approved state program as determined by the Secretary of the Interior, or
  - (2) Directly by the Secretary of the Interior.

**38. 40. Levee:**

"Levee" means a man-made structure, usually an earthen embankment, designed and constructed in accordance with sound engineering practices to contain, control, or divert the flow of water so as to provide protection from temporary flooding.

**39. 41. Levee System:**

"Levee System" means a flood protection system, which consists of a levee, or levees, and associated structures, such as closure, and drainage devices, which are constructed and operated in accordance with sound engineering practices.

**40. 42. Lowest Floor:**

"Lowest Floor" means the lowest floor of the lowest enclosed area, including a basement. An unfinished or flood resistant enclosure used solely for parking of vehicles, building access or storage in an area other than a basement area is not considered a building's lowest floor; provided, that such enclosure is not built so as to render the structure in violation of the applicable non-elevation design requirements of this Ordinance.

**41. 43. Manufactured Home:**

"Manufactured Home" means a structure, transportable in one or more sections, which is built on a permanent chassis and designed for use with or without a permanent foundation when attached to the required utilities. The term "Manufactured Home" does not include a "Recreational Vehicle", unless such transportable structures are placed on a site for 180 consecutive days or longer.

**42. 44. Manufactured Home Park or Subdivision:**

"Manufactured Home Park or Subdivision" means a parcel (or contiguous parcels) of land divided into two or more manufactured home lots for rent or sale.

**43. 45. Map:**

"Map" means the Flood Hazard Boundary Map (FHBM) or the Flood Insurance Rate Map (FIRM) for a community issued by the Agency.

**44. 46. Mean Sea Level:**

"Mean Sea Level" means the average height of the sea for all stages of the tide. It is used as a reference for establishing various elevations within the floodplain. For the purposes of this Ordinance, the term is synonymous with National Geodetic Vertical Datum (NGVD) of 1929, the North American Vertical Datum (NAVD) of 1988, or other datum, to which base flood elevations shown on a community's Flood Insurance Rate Map are referenced.

**45. 47. National Geodetic Vertical Datum (NGVD):**

"National Geodetic Vertical Datum (NGVD)" as corrected in 1929 is a vertical control used as a reference for establishing varying elevations within the floodplain.

**46. 48. New Construction:**

"New Construction" means any structure for which the "start of construction" commenced after the effective date of this ordinance or the effective date of the first floodplain management ordinance and includes any subsequent improvements to such structure.

**47. 49. New Manufactured Home Park or Subdivision:**

"New Manufactured Home Park or Subdivision" means a manufactured home park or subdivision for which the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including at a minimum, the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads) is completed after the effective date of this ordinance or the effective date of the first floodplain management ordinance and includes any subsequent improvements to such structure.

**48. 50. North American Vertical Datum (NAVD):**

"North American Vertical Datum (NAVD)" as corrected in 1988 is a vertical control used as a reference for establishing varying elevations within the floodplain.

**49. 54. 100-year Flood: See Base Flood**

**50. 52. Person:**

"Person" includes any individual or group of individuals, corporation, partnership, association, or any other entity, including State and local governments and agencies.

**51. Reasonably Safe from Flooding:**

**"Reasonably Safe from Flooding" means base flood waters will not inundate the land of damage structures to be removed from the Special Flood Hazard Area and that any subsurface waters related to the base flood will not damage existing or proposed structures.**

**52. 53. Recreational Vehicle:**

"Recreational Vehicle" means a vehicle which is:

- a. Built on a single chassis;
- b. 400 square feet or less when measured at the largest horizontal projection;
- c. Designed to be self-propelled or permanently towable by a light duty truck; and
- d. Designed primarily not for use as a permanent dwelling but as temporary living quarters for recreational, camping, travel, or seasonal use.

**53. 54. Regulatory Floodway:**

"Regulatory Floodway" means the channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height.

**54. 55. Riverine:**

"Riverine" means relating to, formed by, or resembling a river (including tributaries), stream, brook, etc.

**55. Special Flood Hazard Area:**

**"Special Flood Hazard Area is the land in the floodplain within a community subject to a one percent or greater chance of flooding in any given year. The area may be designated as Zone A on the FHBM. After detailed ratemaking has been completed in preparation for publication of the FIRM, Zone A usually is refined into Zones A, AO, AH, A1-30, AE or A99.**

**56. Special Hazard Area:**

"Special Hazard Area" means an area having special flood, mudslide (i.e., mudflow) and/or flood-related erosion hazards, and shown on an FHBM or FIRM as Zone A, AO, A1-30, AE, A99, or AH.

**57. Start of Construction:**

"Start of Construction" includes substantial improvement, and means the date the building permit was issued, provided the actual start of construction, repair, reconstruction, rehabilitation, addition, placement, or other improvement was within 180 days of the permit date. The actual start means either the first

placement of permanent construction of a structure (including a manufactured home) on a site, such as the pouring of slabs or footings, the installation of piles, the construction of columns, or any work beyond the stage of excavation; and includes the placement of a manufactured home on a foundation. (Permanent construction does not include initial land preparation, such as clearing, grading and filling; nor does it include the installation of streets and/or walkways; nor does it include excavation for a basement, footings, piers, or foundations or the erection of temporary forms; nor does it include the installation on the property of accessory buildings, such as garages or sheds, not occupied as dwelling units or not part of the main structure. For a substantial improvement, the actual start of construction means the first alteration of any wall, ceiling, floor, or other structural part of a building, whether or not that alteration affects the external dimensions of the building.

58. State Coordinating Agency:

"State Coordinating Agency" means the Tennessee Department of Economic and Community Development's, Local Planning Assistance Office as designated by the Governor of the State of Tennessee at the request of ~~the Administrator~~ **FEMA** to assist in the implementation of the National Flood Insurance Program for the state.

59. Structure:

"Structure", for purposes of this section, means a walled and roofed building that ~~is principally above ground, a manufactured home, a gas or liquid storage tank, or other man-made facilities or infrastructures.~~ **including a gas or liquid storage tank, that is principally above ground, as well as a manufactured home.**

62. Substantial Damage:

"Substantial Damage" means damage of any origin sustained by a structure whereby the cost of restoring the structure to its before damaged condition would equal or exceed 50 percent of the market value of the structure before the damage occurred.

63. Substantial Improvement:

~~"Substantial Improvement" means any repairs, reconstructions, rehabilitations, additions, alterations or other improvements to a structure, taking place during a 5-year period, in which the cumulative cost equals or exceeds fifty percent of the market value of the structure before the Start of Construction of the improvement. The market value of the structure should be (1) the appraised value of the structure prior to the start of the initial repair or improvement, or (2) in the case of damage, the value of the structure prior to the damage occurring. This term includes structures which have incurred "substantial damage", regardless of the actual repair work performed.~~

~~For the purpose of this definition, "Substantial Improvement" is considered to occur when the first alteration of any wall, ceiling, floor or other structural part of the building commences, whether or not that alteration affects the external dimensions of the building. The term does not, however, include either: (1) Any project for improvement of a structure to correct existing violations of state or~~

~~local health, sanitary, or safety code specifications which have been pre-identified by the local code enforcement official and which are the minimum necessary to assure safe living conditions and not solely triggered by an improvement or repair project or; (2) Any alteration of a Historic Structure, provided that the alteration will not preclude the structure's continued designation as a Historic Structure.~~

**“Substantial Improvement” means any reconstruction, rehabilitation, addition, alteration or other improvement of a structure in which the cost equals or exceeds fifty percent (50%) of the market value of the structure before the “start of construction” of the initial improvement. This term includes structures which have incurred “substantial damage”, regardless of the actual repair work performed. The market value of the structure should be (1) the appraised value of the structure prior to the start of the initial improvement, or (2) in the case of substantial damage, the value of the structure prior to the damage occurring.**

**The term does not, however, include either: (1) Any project for improvement of a structure to correct existing violations of State or local health, sanitary, or safety code specifications which have been pre-identified by the local code enforcement official and which are the minimum necessary to assure safe living conditions and not solely triggered by an improvement or repair project or; (2) Any alteration of a “historic structure”, provided that the alteration will not preclude the structure's continued designation as a “historic structure”.**

64. Substantially Improved Existing Manufactured Home Parks or Subdivisions:

"Substantially Improved Existing Manufactured Home Parks or Subdivisions" is where the repair, reconstruction, rehabilitation or improvement of the streets, utilities and pads equals or exceeds 50 percent of the value of the streets, utilities and pads before the repair, reconstruction or improvement commenced.

65. Variance:

~~"Variance" is a grant of relief from the requirements of this Ordinance. which permits construction in a manner otherwise prohibited by this Ordinance where specific enforcement would result in unnecessary hardship.~~

66. Violation:

"Violation" means the failure of a structure or other development to be fully compliant with the community's floodplain management regulations. A structure or other development without the elevation certificate, other certification, or other evidence of compliance required in this Ordinance is presumed to be in violation until such time as that documentation is provided.

67. Water Surface Elevation:

"Water Surface Elevation" means the height, in relation to the National Geodetic Vertical Datum (NGVD) of 1929, **the North American Vertical Datum (NAVD) of 1988**, or other datum, where specified, of floods of various magnitudes and frequencies in the floodplains of riverine areas.

(f) General Provisions

1. Application

This Ordinance shall apply to all areas within the incorporated area of Oak Ridge, Tennessee.

2. Basis for Establishing the Areas of Special Flood Hazard

~~The Areas of Special Flood Hazard identified on the Anderson County, Tennessee and Incorporated Areas, Federal Emergency Management Agency, Flood Insurance Study (FIS), effective date May 4, 2000, and Flood Insurance Rate Map (FIRM), Community Panel Numbers 47001C0214F, 0217F, 0218F, 0219F, 0236F, 0238F, 0239F, 0277F, 0281F, 0282F, 0302F, 0310F, effective date January 17, 2007 and Panel Numbers 47001C0230G, 02237G and 0245G, effective date May 4, 2009; and the Roane County, Tennessee and Incorporated Areas, Federal Emergency Management Agency, Flood Insurance Study (FIS) and Flood Insurance Rate Map (FIRM), Community Panel Numbers 47145C0039F, 0110F, 0120F, 0130F, and 0260F, effective date September 28, 2007, and Community Panel Numbers 47145C0140G and 47145C0145G, effective date November 18, 2009; and any subsequent amendments or revisions thereto, along with all supporting technical data, are adopted by reference and declared to be part of this Ordinance. These areas shall be incorporated into the City of Oak Ridge, Tennessee Zoning Map. If any discrepancies occur between the City of Oak Ridge, Tennessee Zoning Map and the FEMA Flood Maps, the FEMA Flood Maps shall prevail.~~

**The Areas of Special Flood Hazard identified on the City of Oak Ridge Tennessee as identified by FEMA, and in its Flood Insurance Study (FIS) and Flood Insurance Rate Map (FIRM), Map Numbers 47001C0214F, 0217F, 0218F, 0219F, 0236F, 0238F, 0239F, 0277F, 0281F, 0282F, 0283F, 0284F, 0295F, 0301F, 0302F, 0304F, 0310F, 0315F, effective date January 17, 2007, Map numbers 47001C0230G, 0237G and 0245G, effective date May 4, 2009, Map Numbers 47145C0039F, 0110F, 0120F, 0130F, 0135F, effective date September 28, 2007, Map Numbers 47145C0140G, 0145G, effective date November 18, 2009, along with all supporting technical data, are adopted by reference and declared to be a part of this Ordinance.**

3. Requirement for Development Permit

A development permit shall be required in conformity with this Ordinance prior to the commencement of any development activities.

4. Compliance

No land, structure, or use shall hereafter be located, extended, converted or structurally altered without full compliance with the terms of this Ordinance and other applicable regulations.

5. Abrogation and Greater

This Ordinance is not intended to repeal, abrogate, or impair any existing easement, covenant, or deed restriction. However, where this Ordinance conflicts or overlaps with another regulatory instrument, whichever imposes the more stringent restrictions shall prevail.

6. **Interpretation**

In the interpretation and application of this Ordinance, all provisions shall be: considered as minimum requirements; liberally construed in favor of the governing body, and; deemed neither to limit nor repeal any other powers granted under Tennessee statutes.

7. **Warning and Disclaimer of Liability**

The degree of flood protection required by this Ordinance is considered reasonable for regulatory purposes and is based on scientific and engineering considerations. Larger floods can and will occur on rare occasions. Flood heights may be increased by man-made or natural causes. This Ordinance does not imply that land outside the Areas of Special Flood Hazard or uses permitted within such areas will be free from flooding or flood damages. This Ordinance shall not create liability on the part of the City of Oak Ridge, Tennessee or by any officer or employee thereof for any flood damages that result from reliance on this Ordinance or any administrative decision lawfully made hereunder.

8. **Penalties for Violation**

Violation of the provisions of this Ordinance or failure to comply with any of its requirements, including violation of conditions and safeguards established in connection with grants of variance shall constitute a misdemeanor punishable as other misdemeanors as provided by law. **Any person who violates this ordinance or fails to comply with any of its requirements shall, upon adjudication therefore, be fined as prescribed by Tennessee statutes, and in addition, shall pay all costs and expenses involved in the case.** Each day such violation continues shall be considered a separate offense. Nothing herein contained shall prevent the City of Oak Ridge, Tennessee from taking such other lawful actions to prevent or remedy any violation.

(g) **Development Regulations**

1. **Designation of Ordinance Administrator**

The City Manager or the City Manager's duly authorized designee is hereby appointed as the Administrator to implement the provisions of this Ordinance.

2. **Permit Procedures**

Application for a development permit shall be made to the Administrator on forms furnished by the community prior to any development activities. The development permit may include, but is not limited to the following: plans in duplicate drawn to scale and showing the nature, location, dimensions, and elevations of the area in question; existing or proposed structures, earthen fill placement, storage of materials or equipment, and drainage facilities. Specifically, the following information is required:

a. 4. **Application stage**

- (1) a. Elevation in relation to mean sea level of the proposed lowest floor, including basement, of all buildings where base flood

elevations are available, or to the highest adjacent grade when applicable under this Ordinance.

- (2) b. Elevation in relation to mean sea level to which any non-residential building will be flood-proofed where base flood elevations are available, or to the highest adjacent grade when applicable under this Ordinance.
- (3) e. **Design A FEMA Floodproofing Certificate** from a **Tennessee** registered professional engineer or architect that the proposed non-residential flood-proofed building will meet the flood-proofing criteria in Section 9.07(g).
- (4) d. Description of the extent to which any watercourse will be altered or relocated as a result of proposed development.

**b. 2. Construction Stage**

**Within AE Zones, where Base Flood Elevation data is available, any lowest floor certification made relative to mean sea level shall be prepared by or under the direct supervision of a Tennessee registered land surveyor and certified by same. The Administrator shall record the elevation of the lowest floor on the development permit. When floodproofing is utilized for a non-residential building, said certification shall be prepared by, or under the direct supervision of, a Tennessee registered professional engineer or architect and certified by same.**

Within ~~unnumbered~~ **approximate** A zones, where **Base Flood Elevation** data are not available, the Administrator shall record the elevation of the lowest floor on the development permit. The elevation of the lowest floor shall be determined as the measurement of the lowest floor of the building relative to the highest adjacent grade. **When floodproofing is utilized for a non-residential building said certification shall be prepared by or under the direct supervision of, a professional engineer or architect and certified by same.**

For all new construction and substantial improvements, the permit holder shall provide to the Administrator an as-built certification of the regulatory floor elevation or floodproofing level upon the completion of the lowest floor or floodproofing. ~~Within unnumbered A-zones, where flood elevation data is not available, the elevation of the lowest floor shall be determined as the measurement of the lowest floor of the building relative to the highest adjacent grade.~~

~~Any lowest floor certification made relative to mean sea level shall be prepared by or under the direct supervision of, a registered land surveyor and certified by same. When floodproofing is utilized for a non-residential building said certification shall be prepared by or under the direct supervision of, a professional engineer or architect and certified by same.~~

Any work undertaken prior to submission of the certification shall be at the permit holder's risk. The Administrator shall review the above-

referenced certification data. Deficiencies detected by such review shall be corrected by the permit holder immediately and prior to further work being allowed to proceed. Failure to submit the certification or failure to make said corrections required hereby, shall be cause to issue a stop-work order for the project.

(h) Duties and Responsibilities of the Administrator

Duties of the Administrator shall include, but not be limited to:

1. Review of all development permits to assure that the permit requirements of this Ordinance have been satisfied, and that proposed building sites will be reasonably safe from flooding.
2. ~~Advice to permittee that additional federal or state permits may be required, and if specific federal or state permit requirements are known, require that copies of such permits be provided and maintained on file with the development permit. This shall include Section 404 of the Federal Water Pollution Control Act Amendments of 1972, 33 U. S. C. 1334.~~

**Review proposed development to assure that all necessary permits have been received from those governmental agencies from which approval is required by Federal or State law, including Section 404 of the Federal Water Pollution Control Act Amendments of 1972, 33 U.S.C. 1334.**

3. Notification to adjacent communities and the Tennessee Department of Economic and Community Development, Local Planning Assistance Office, prior to any alteration or relocation of a watercourse, and submission of evidence of such notification to the Federal Emergency Management Agency.
4. For any altered or relocated watercourse, submit engineering data/analysis within six (6) months to the Federal Emergency Management Agency to ensure accuracy of community flood maps through the Letter of Map Revision process. Assure that the flood carrying capacity within an altered or relocated portion of any watercourse is maintained.
5. Record the elevation, in relation to mean sea level or the highest adjacent grade, where applicable of the lowest floor including basement of all new or substantially improved buildings, in accordance with Section 9.07(g).
6. Record the actual elevation, in relation to mean sea level or the highest adjacent grade, where applicable to which the new or substantially improved buildings have been flood-proofed, in accordance with Section 9.07(g).
7. When flood proofing is utilized for a structure, the Administrator shall obtain certification of design criteria from a **Tennessee** registered professional engineer or architect, in accordance with Section 9.07(g).
8. Where interpretation is needed as to the exact location of boundaries of the areas of special flood hazard (for example, where there appears to be a conflict between a mapped boundary and actual field conditions) the Administrator shall make the necessary interpretation. Any person contesting the location of the boundary shall be given a reasonable opportunity to appeal the interpretation as provided in this Ordinance.

9. When base flood elevation data or floodway data have not been provided by the Federal Emergency Management Agency then the Administrator shall obtain, review and reasonably utilize any base flood elevation and floodway data available from a Federal, State, or other sources, including data developed as a result of these regulations, as criteria for requiring that new construction, substantial improvements, or other development in Zone A on the **Community City of Oak Ridge, Tennessee** FIRM meet the requirements of this Ordinance.

~~Within unnumbered A zones, where base flood elevations have not been established and where alternative data is not available, the Administrator shall require the lowest floor of a building to be elevated or floodproofed to a level of at least three (3) feet above the highest adjacent grade (lowest floor and highest adjacent grade being defined in Section 9.07(e)). All applicable data including elevations or flood proofing certifications shall be recorded as set forth in Section 9.07(g).~~

10. All records pertaining to the provisions of this Ordinance shall be maintained in the office of the Community Development Department and shall be open for public inspection. Permits issued under the provisions of this Ordinance shall be maintained in a separate file or marked for expedited retrieval within combined files.
11. ~~Assure that the flood carrying capacity within an altered or relocated portion of any watercourse is maintained.~~

(i) Flood Hazard Reduction, General Standards

In all flood prone areas the following provisions are required:

1. New construction and substantial improvements to existing buildings shall be anchored to prevent flotation, collapse or lateral movement of the structure;
2. Manufactured homes shall be elevated and anchored to prevent flotation, collapse, or lateral movement. Methods of anchoring may include, but are not limited to, use of over-the-top or frame ties to ground anchors. This ~~standard shall be~~ **requirement is** in addition to and ~~consistent with~~ applicable ~~state~~ **State of Tennessee** requirements for resisting wind forces;
3. New construction and substantial improvements to existing buildings shall be constructed with materials and utility equipment resistant to flood damage;
4. New construction or substantial improvements to existing buildings shall be constructed by methods and practices that minimize flood damage;
5. All electrical, heating, ventilation, plumbing, air conditioning equipment, and other service facilities shall be designed and/or located so as to prevent water from entering or accumulating within the components during conditions of flooding;
6. New and replacement water supply systems shall be designed to minimize or eliminate infiltration of flood waters into the system;

7. New and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of flood waters into the systems and discharges from the systems into flood waters;
8. On-site waste disposal systems shall be located and constructed to avoid impairment to them or contamination from them during flooding;
9. Any alteration, repair, reconstruction or improvements to a building that is in compliance with the provisions of this Ordinance, shall meet the requirements of "New Construction" as contained in this Ordinance; and,
10. Any alteration, repair, reconstruction or improvements to a building that is not in compliance with the provision of this Ordinance, shall be undertaken only if said non-conformity is not further extended or replaced.
11. **All new construction and substantial improvement proposals shall provide copies of all necessary Federal and State permits, including Section 404 of the Federal Water Pollution Control Act amendments of 1972, 33 U.S.C. 1334;**
12. **All subdivision proposals and other proposed new development proposals shall meet the standards of Section 9.07(j);**
13. **When proposed new construction and substantial improvements are partially located in an area of special flood hazard, the entire structure shall meet the standards for new construction;**
14. **When proposed new construction and substantial improvements are located in multiple flood hazard risk zones or in a flood hazard risk zone with multiple Base Flood Elevations, the entire structure shall meet the standards for the most hazardous flood hazard risk zone and the highest Base Flood Elevation.**

(j) Flood Hazard Reduction, Specific Standards

These provisions shall apply to all Areas of Special Flood Hazard **in addition to those set forth in Section 9.07(i) as provided herein are required:**

1. **Residential Construction.** In **AE Zones** where base flood elevation data is available, new construction or substantial improvement of any residential building (or manufactured home) shall have the lowest floor, including basement, elevated no lower than two (2) foot above the base flood elevation. Should solid foundation perimeter walls be used to elevate a structure, openings sufficient to facilitate equalization of flood hydrostatic forces on both sides of exterior walls and to ensure unimpeded movement of floodwater shall be provided in accordance with the standards of Section 9.07(j).

Within unnumbered **approximate** A zones, where base flood elevations have not been established and where alternative data is not available, the Administrator shall require the lowest floor of a building to be elevated ~~or floodproofed~~ to a level of at least three (3) feet above the highest adjacent grade (lowest floor and highest adjacent grade being defined in Section 9.07(e)). All applicable data including elevations or flood proofing certifications shall be recorded as set forth in Section 9.07(g). **Should solid foundation perimeter walls be used to elevate a**

**structure, openings sufficient to facilitate equalization of flood hydrostatic forces on both sides of exterior walls and to ensure unimpeded movement of floodwater shall be provided in accordance with the standards of Section 9.07(j)(3).**

2. ~~Non-Residential Construction. New construction or substantial improvement of any commercial, industrial, or non-residential building, when base flood elevation (BFE) data is available, In AE Zones, where Base Flood Elevation data is available, new construction and substantial improvement of any commercial, industrial, or non-residential building, shall have the lowest floor, including basement, elevated or floodproofed no lower than one (1) foot above the level of the base flood elevation. Should solid foundation perimeter walls be used to elevate a structure, openings sufficient to facilitate equalization of flood hydrostatic forces on both sides of exterior walls shall be provided in accordance with the standards of Section 9.07(j)(3).~~

Within unnumbered approximate A zones, where base flood elevations have not been established and where alternative data is not available, the Administrator shall require **new construction and substantial improvement of any commercial, industrial, or non-residential building shall have** the lowest floor of a building to be elevated or floodproofed to a level of at least three (3) feet above the highest adjacent grade (lowest floor and highest adjacent grade being defined in Section 9.07(e)). All applicable data including elevations or flood proofing certifications shall be recorded as set forth in Section 9.07(g).

**Non-Residential** buildings located in all A-zones may be flood-proofed, in lieu of being elevated, provided that all areas of the building below the required elevation are watertight, with walls substantially impermeable to the passage of water, and are built with structural components having the capability of resisting hydrostatic and hydrodynamic loads and the effects of buoyancy. A **Tennessee** registered professional engineer or architect shall certify that the design and methods of construction are in accordance with accepted standards of practice for meeting the provisions above, and shall provide such certification to the Administrator as set forth in Section 9.07(g).

3. ~~Elevated Building. Enclosures. All new construction or substantial improvements to existing buildings that include ANY fully enclosed areas formed by foundation and other exterior walls below the base flood elevation, or required height above the highest adjacent grade, lowest floor that are subject to flooding shall be designed to preclude finished living space and designed to allow for the entry and exit of flood waters to automatically equalize hydrostatic flood forces on exterior walls.~~

- a. Designs for complying with this requirement must either be certified by a **Tennessee** professional engineer or architect or meet the following minimum criteria.
- (1) Provide a minimum of two openings having a total net area of not less than one square inch for every square foot of enclosed area subject to flooding;
  - (2) The bottom of all openings shall be no higher than one foot above the finish grade; and

- (3) Openings may be equipped with screens, louvers, valves or other coverings or devices provided they permit the automatic flow of floodwaters in both directions.
- b. ~~Access to~~ The enclosed area shall be the minimum necessary to allow for parking of vehicles, ~~(garage door) or limited storage of maintenance equipment used in connection with the premises (standard exterior door)~~ or entry to the elevated living area ~~(stairway or elevator)~~; and **or building access.**
- c. The interior portion of such enclosed area shall not be partitioned or finished into separate rooms in such a way as to impede the movement of floodwaters and all such partitions shall comply with the provisions of Section 9.07(j).

4. Standards for Manufactured Homes and Recreational Vehicles

- a. All manufactured homes placed, or substantially improved, on: (1) individual lots or parcels, (2) in expansions to existing manufactured home parks or subdivisions, or (3) in new or substantially improved manufactured home parks or subdivisions, must meet all the requirements of new construction, including elevations and anchoring.
- b. All manufactured homes placed or substantially improved in an existing manufactured home park or subdivision must be elevated so that either:
  - (1) **In AE Zones**, when base flood elevations are available the lowest floor of the manufactured home is elevated on a permanent foundation no lower than two (2) foot above the level of the base flood elevation; or,
  - (2) **In approximate A Zones**, absent base flood elevations the manufactured home chassis is elevated and supported by reinforced piers (or other foundation elements **of at least equivalent strength**) at least three (3) feet in height above the highest adjacent grade.
- c. Any manufactured home, which has incurred "substantial damage" as the result of a flood or that has substantially improved, must meet the standards of Section 9.07(j)(4).
- d. All manufactured homes must be securely anchored to an adequately anchored foundation system to resist flotation, collapse and lateral movement.
- e. All recreational vehicles placed on identified flood hazard sites must either:
  - (1) Be on the site for fewer than 180 consecutive days;
  - (2) Be fully licensed and ready for highway use. (A recreational vehicle is ready for highway use if it is licensed, on its wheels or jacking system, attached to the site only by quick disconnect

type utilities and security devices, and has no permanently attached structures or additions, **or**;

- (3) The recreational vehicle must meet all the requirements for new construction, including the anchoring and elevation requirements of this section above if on the site for longer than 180 consecutive days.

5. **Standards for Subdivisions and Other Proposed New Development Proposals**

Subdivisions and other proposed new developments, including manufactured home parks, shall be reviewed to determine whether such proposals will be reasonably safe from flooding. If a subdivision proposal or other proposed new development is in a flood-prone area, any such proposals shall be reviewed to ensure that:

- a. All subdivision proposals **and other proposed new development proposals** shall be consistent with the need to minimize flood damage.
- b. All subdivision proposals **and other proposed new development proposals** shall have public utilities and facilities such as sewer, gas, electrical and water systems located and constructed to minimize or eliminate flood damage.
- c. All subdivision proposals **and other proposed new development proposals** shall have adequate drainage provided to reduce exposure to flood hazards.
- d. **In all approximate A Zones** Base flood elevation data shall be provided for subdivision proposals and other proposed developments (including manufactured home parks and subdivisions) that are greater than fifty lots and/or five acres in area, **whichever is lesser, include within such proposals Base Flood Elevation data (See Section 9.07(m)).**

(k) **Standards for Areas of Special Flood Hazard with Established Base Flood Elevations and With Floodways Designated**

Located within the Areas of Special Flood Hazard established in Section 9.07(f)(2) are areas designated as floodways. A floodway may be an extremely hazardous area due to the velocity of floodwaters, debris or erosion potential. In addition, the area must remain free of encroachment in order to allow for the discharge of the base flood without increased flood heights and velocities. Therefore, the following provisions shall apply:

1. Encroachments are prohibited, including earthen fill material, new construction, substantial improvements or other developments within the regulatory floodway. Development may be permitted however, provided it is demonstrated through hydrologic and hydraulic analyses performed in accordance with standard engineering practices that the cumulative effect of the proposed encroachments or new development, when combined with all other existing and anticipated development, shall not result in ANY increase the water surface elevation of the base flood level, velocities or floodway widths during the occurrence of a base flood discharge at any point within the community. A **Tennessee** registered professional engineer must provide supporting technical data and certification thereof, **using the same methodologies as in the effective Flood Insurance**

**Study for the City of Oak Ridge Tennessee and certification thereof.**

2. New construction or substantial improvements of buildings shall comply with all applicable flood hazard reduction provisions in Sections 9.07(i) and (j).

(l) Standards for Areas of Special Flood Hazard Zones AE with Established Base Flood Elevations but Without Floodways Designated

Located within the Areas of Special Flood Hazard established in Section 9.07(f)(2) where streams exist with base flood data provided but where no floodways have been designated, (Zones AE) the following provisions apply:

1. No encroachments, including fill material, new structures or substantial improvements shall be located within areas of special flood hazard, unless certification by a **Tennessee** registered professional engineer is provided demonstrating that the cumulative effect of the proposed development, when combined with all other existing and anticipated development, will not increase the water surface elevation of the base flood more than one (1) foot at any point within the community. The engineering certification should be supported by technical data that conforms to standard hydraulic engineering principles.
2. New construction or substantial improvements of buildings, **where permitted**, shall be elevated or flood-proofed to elevations established in accordance with Sections 9.07(i) and (j).

(m) Standards for Streams without Established Base Flood Elevations or Floodways (A Zones)

Located within the Areas of Special Flood Hazard established in Section 9.07(f)(2), where streams exist, but no base flood data has been provided (A-Zones), ~~OR~~ and where a Floodway has not been delineated, the following provisions shall apply:

- ~~1. When base flood elevation data or floodway data have not been provided in accordance with Section 9.07(g), then the Administrator shall obtain, review and reasonably utilize any scientific or historic base flood elevation and floodway data available from a Federal, State or other source, in order to administer the applicable provisions of Section 9.07. ONLY if data is not available from these sources, then the following provisions (2 & 3) shall apply:~~
- ~~2. No encroachments, including structures or fill material, shall be located within an area equal to the width of the stream or twenty feet, whichever is greater, measured from the top of the stream bank, unless certification by registered professional engineer is provided demonstrating that the cumulative effect of the proposed development, when combined with all other existing and anticipated development, will not increase the water surface elevation of the base flood more than one (1) foot at any point within the community. The engineering certification should be supported by technical data that conforms to standard hydraulic engineering principles.~~
- ~~3. In special flood hazard areas without base flood elevation data, new construction or substantial improvements of existing buildings shall have the lowest floor of the lowest enclosed area (including basement) elevated no less than three (3) feet above the highest adjacent grade at the building site. Openings sufficient to~~

~~facilitate the unimpeded movements of floodwaters shall be provided in accordance with the standards of Section 9.07(j) and "Elevated Buildings."~~

1. **The Administrator shall obtain, review, and reasonably utilize any Base Flood Elevation and floodway data available from any Federal, State, or other sources, including data developed as a result of these regulations (see 2 below), as criteria for requiring that new construction, substantial improvements, or other development in approximate A Zones meet the requirements of Sections 9.07(i) and (j).**
2. **Require that all new subdivision proposals and other proposed developments (including proposals for manufactured home parks and subdivisions) greater than 50 lots or 5 acres, whichever is the lesser, include within such proposals Base Flood Elevation data.**
3. **Within approximate A Zones, where Base Flood Elevations have not been established and where such data is not available from other sources, require the lowest floor of a building to be elevated or floodproofed to a level of at least three (3) feet above the highest adjacent grade (as defined in Sections 9.07(e)). All applicable data including elevations or floodproofing certifications shall be recorded as set forth in Sections 9.07(g). Openings sufficient to facilitate automatic equalization of hydrostatic flood forces on exterior walls shall be provided in accordance with the standards of Section 9.07(j).**
4. **Within approximate A Zones, where Base Flood Elevations have not been established and where such data is not available from other sources, no encroachments, including structures or fill material, shall be located within an area equal to the width of the stream or twenty feet (20), whichever is greater, measured from the top of the stream bank, unless certification by a Tennessee registered professional engineer is provided demonstrating that the cumulative effect of the proposed development, when combined with all other existing and anticipated development, will not increase the water surface elevation of the base flood more than one (1) foot at any point within the City of Oak Ridge, Tennessee. The engineering certification should be supported by technical data that conforms to standard hydraulic engineering principles.**
5. **New construction and substantial improvements of buildings, where permitted, shall comply with all applicable flood hazard reduction provisions of Sections 9.07(i) and (j). Within approximate A Zones, require that those subsections of Section 9.07(j) dealing with the alteration or relocation of a watercourse, assuring watercourse carrying capacities are maintained and manufactured homes provisions are complied with as required.**

(n) Standards For Areas of Shallow Flooding (AO and AH Zones)

Located within the Areas of Special Flood Hazard established in Section 9.07(f)(2) are areas designated as shallow flooding areas. These areas have special flood hazards associated with base flood depths of one to three feet (1'-3') where a clearly defined channel does not exist and where the path of flooding is unpredictable and indeterminate; therefore, the following provisions apply:

1. All new construction and substantial improvements of residential and non-residential buildings shall have the lowest floor, including basement, elevated to at least one (1) foot above the flood depth number specified on the Flood Insurance Rate Map (FIRM), in feet, above the highest adjacent grade. If no flood depth number is specified, the lowest floor, including basement, shall be elevated, at least three (3) feet above the highest adjacent grade. Openings sufficient to facilitate the unimpeded movements of floodwaters shall be provided in accordance with standards of Section 9.07(j) and “Elevated Buildings.”
2. All new construction and substantial improvements of nonresidential buildings may be flood-proofed in lieu of elevation. The structure together with attendant utility and sanitary facilities must be flood proofed and designed watertight to be completely flood-proofed to at least one (1) foot above the specified FIRM flood level, with walls substantially impermeable to the passage of water and with structural components having the capability of resisting hydrostatic and hydrodynamic loads and the effects of buoyancy. If no depth number is specified, the lowest floor, including basement, shall be flood proofed to at least three (3) feet above the highest adjacent grade. A **Tennessee** registered professional engineer or architect shall certify that the design and methods of construction are in accordance with accepted standards of practice for meeting the provisions of this ordinance and shall provide such certification to the Administrator as set forth above and as required in Section 9.07(g).
3. Adequate drainage paths shall be provided around slopes to guide floodwaters around and away from proposed structures.
- ~~4. The Administrator shall certify the elevation or the highest adjacent grade, where applicable, and the record shall become a permanent part of the permit file.~~

(o) Standards For Areas Protected by Flood Protection System (A-99 Zones)

Located within the areas of special flood hazard established in Section 9.07(f)(2) are areas of the 100-year floodplain protected by a flood protection system but where base flood elevations and flood hazard factors have not been determined. Within these areas (A-99 Zones) all provisions of Sections 9.07(g), (h), and (i) shall apply.

(p) Standards for Unmapped Streams

Located within Oak Ridge Tennessee are unmapped streams where areas of special flood hazard are neither indicated nor identified. Adjacent to such streams the following provisions shall apply:

1. In areas adjacent to such unmapped streams, no encroachments including fill material or structures shall be located within an area of at least equal to twice the width of the stream, measured from the top of each stream bank, unless certification by a **Tennessee** registered professional engineer is provided demonstrating that the cumulative effect of the proposed development, when combined with all other existing and anticipated development, will not increase the water surface elevation of the base flood more than one (1) foot at any point within the locality.
- ~~2. When new elevation data is available, new construction or substantial improvements of buildings shall be elevated or flood proofed to elevations established in accordance with Sections 9.07(g) and (h).~~

2. **When a new flood hazard risk zone, and Base Flood Elevation and floodway data is available, new construction and substantial improvements shall meet the standards established in accordance with Section 9.07(g) and (h).**

(q) Variance Procedures

The provisions of this section shall apply exclusively to areas of Special Flood Hazard within Oak Ridge, Tennessee.

1. The City of Oak Ridge Board of Zoning Appeals shall hear and decide appeals and requests for variances from the requirements of this Section **in accordance with Article XVI.**
2. Variances may be issued for the repair or rehabilitation of Historic Structures upon a determination that the proposed repair or rehabilitation will not preclude the structure's continued designation as a Historic Structure and the variance is the minimum **necessary deviation from the requirements of Section 9.07** to preserve the historic character and design of the structure.
3. In passing upon such applications, the Board of Zoning Appeals shall consider all technical evaluations, all relevant factors, all standards specified in Section 9.07, and:
  - a. The danger that materials may be swept onto other property to the injury of others;
  - b. The danger to life and property due to flooding or erosion;
  - c. The susceptibility of the proposed facility and its contents to flood damage;
  - d. The importance of the services provided by the proposed facility to the community;
  - e. The necessity of the facility to a waterfront location, in the case of a functionally dependent facility;
  - f. The availability of alternative locations, not subject to flooding or erosion damage, for the proposed use;
  - g. The relationship of the proposed use to the comprehensive plan and floodplain management program for that area;
  - h. The safety of access to the property in times of flood for ordinary and emergency vehicles;
  - i. The expected heights, velocity, duration, rate of rise and sediment transport of the flood waters and the effects of wave action, if applicable, expected at the site, and;
  - j. The costs of providing governmental services during and after flood conditions including maintenance and repair of public utilities and

facilities such as sewer, gas, electrical, and water systems, and streets and bridges.

4. Upon consideration of the factors listed above, and the purposes of this Ordinance, the Board of Zoning Appeals may attach such conditions to the granting of variances as it deems necessary to effectuate the purposes of this Ordinance.
5. Variances shall not be issued within any designated floodway if any increase in flood levels during the base flood discharge would result.
6. Conditions for Variances
  - a. Variances shall be issued upon a determination that the variance is the minimum relief necessary, considering the flood hazard; ~~and in the instance of a historical building, a determination that the variance is the minimum relief necessary so as not to destroy the historic character and design of the building.~~ **and the factors listed in Section 9.07(q)**
  - b. Variances shall only be issued upon: (i) a showing of good and sufficient cause, (ii) a determination that failure to grant the variance would result in exceptional hardship; or (iii) a determination that the granting of a variance will not result in increased flood heights, additional threats to public safety, extraordinary public expense, create nuisance, cause fraud on or victimization of the public, or conflict with existing local laws or ordinances.
  - c. Any applicant to whom a variance is granted shall be given written notice that the issuance of a variance to construct a structure below the base flood level will result in increased premium rates for flood insurance, and that such construction below the base flood level increases risks to life and property.
  - d. The Administrator shall maintain the records of all appeal actions and report any variances to the Federal Emergency Management Agency upon request.

(r) Severability

If any section, clause, provision, or portion of this Ordinance shall be held to be invalid or unconstitutional by any court of competent jurisdiction, such holding shall not affect any other section, clause, provision, or portion of this Ordinance which is not of itself invalid or unconstitutional.

TITLE

AN ORDINANCE TO AMEND ORDINANCE NO. 2, TITLED "THE ZONING ORDINANCE OF THE CITY OF OAK RIDGE, TENNESSEE," ARTICLE IX, TITLED "SPECIAL DISTRICTS," BY DELETING SECTION 9.07, TITLED "FLOODPLAIN REGULATIONS," IN ITS ENTIRETY AND SUBSTITUTING THEREFOR A NEW SECTION 9.07, TITLED, "FLOODPLAIN REGULATIONS," TO UPDATE THE PROVISIONS FOR COMPLIANCE WITH THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S (FEMA) CURRENT REQUIREMENTS, TO MINIMIZE DANGER TO LIFE AND PROPERTY DUE TO FLOODING, AND TO MAINTAIN THE CITY'S ELIGIBILITY FOR PARTICIPATION IN THE NATIONAL FLOOD INSURANCE PROGRAM.

WHEREAS, the City of Oak Ridge is a participant in the National Flood Insurance Program (NFIP) by its adoption and enforcement of floodplain management ordinances contained in the Zoning Ordinance; and

WHEREAS, as a result of participation in the NFIP, federally-backed flood insurance is available to homeowners, renters, and business owners in Oak Ridge; and

WHEREAS, in order to remain a participant in the NFIP, the City is required to update the regulations relating to floodplain regulations for compliance with the Federal Emergency Management Agency's (FEMA) current requirements; and

WHEREAS, the following change has been submitted for approval or disapproval to the Oak Ridge Municipal Planning Commission and the Commission has approved the same; and

WHEREAS, a public hearing thereon has been held as required by law.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF OAK RIDGE, TENNESSEE:

Section 1. Ordinance No. 2, titled "The Zoning Ordinance of the City of Oak Ridge, Tennessee," Article IX, titled "Special Districts," Section 9.07, titled "Floodplain Regulations," is hereby deleted in its entirety and replaced with a new Section 9.07, titled "Floodplain Regulations," which new section shall read as follows:

Section 9.07    Floodplain Regulations

(a)    Statutory Authorization

The Legislature of the State of Tennessee has, in Tennessee Code Annotated §13-7-201 through §13-7-210, delegated the responsibility to local governmental units to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry.

(b)    Findings of Fact

1.    The City of Oak Ridge, Tennessee, Mayor and City Council wish to maintain eligibility in the National Flood Insurance Program (NFIP) and in order to do so must meet the NFIP regulations found in Title 44 of the Code of Federal Regulations (CFR), Ch. 1, Sec. 60.3.

2. Areas of Oak Ridge are subject to periodic water inundation which could result in loss of life and property, health and safety hazards, disruption of commerce and governmental services, extraordinary public expenditures for flood protection and relief, and impairment of the tax base, all of which adversely affect the public health, safety and general welfare.
3. These flood losses are caused by the cumulative effect of obstructions in floodplains, causing increases in flood heights and velocities; by uses in flood hazard areas which are vulnerable to floods; or construction which is inadequately elevated, flood-proofed, or otherwise unprotected from flood damages.

(c) Statement of Purpose

The floodplain regulations are established to promote the public health, safety and general welfare, and to minimize public and private losses due to flood conditions in specific areas. This ordinance is designed to:

1. Restrict or prohibit uses which are vulnerable to water or erosion hazards, or which result in damaging increases in erosion, flood heights, or velocities;
2. Require that uses vulnerable to floods, including community facilities, be protected against flood damage at the time of initial construction;
3. Control the alteration of natural floodplains, stream channels, and natural protective barriers which are involved in the accommodation floodwaters;
4. Control filling, grading, dredging and other development which may increase flood damage or erosion, and;
5. Prevent or regulate the construction of flood barriers which will unnaturally divert flood waters or which may increase flood hazards to other lands.

(d) Objectives

The objectives of this ordinance are:

1. To protect human life, health and property;
2. To minimize expenditure of public funds for costly flood control projects;
3. To minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public;
4. To minimize prolonged business interruptions;
5. To minimize damage to public facilities and utilities such as water and gas mains, electric, telephone and sewer lines, streets and bridges located in floodable areas;
6. To help maintain a stable tax base by providing for the sound use and development of flood prone areas in such a manner as to minimize blight in flood areas;

7. To ensure that potential homebuyers are notified that property is in a floodable area; and
8. To maintain eligibility for participation in the National Flood Insurance Program.

(e) Definitions

Unless specifically defined below, words or phrases used in Section 9.07 and Section 9.08 shall be interpreted as to give them the meaning they have in common usage and to give this ordinance its most reasonable application given its stated purpose and objectives.

1. Accessory Structure:

"Accessory Structure" shall represent a subordinate structure to the principal structure and, for the purpose of this section, shall conform to the following:

- a. Accessory structures shall only be used for parking vehicles and storage.
- b. Accessory structures shall be designed to have low flood damage potential.
- c. Accessory structures shall be constructed and placed on the building site so as to offer the minimum resistance to the flow of floodwaters.
- d. Accessory structures shall be firmly anchored to prevent flotation which may result in damage to other structures.
- e. Utilities and service facilities such as electrical and heating equipment shall be elevated or otherwise protected from intrusion of floodwaters.

2. Act:

"Act" means the statutes authorizing the National Flood Insurance Program that are incorporated in 42 U.S.C. 4001-4128.

3. Addition (to an existing building):

"Addition (to an existing building)" means any walled and roofed expansion to the perimeter of a building in which the addition is connected by a common load-bearing wall other than a firewall. Any walled and roofed addition, which is connected by a firewall or is separated by an independent perimeter load-bearing wall, shall be considered New Construction.

4. Appeal:

"Appeal" means a request for a review of the local enforcement officer's interpretation of any provision of this Ordinance or a request for a variance.

5. Area of Shallow Flooding:

"Area of Shallow Flooding" means a designated AO or AH Zone on a community's Flood Insurance Rate Map (FIRM) with one percent or greater annual chance of flooding to an average depth of one to three feet where a clearly defined channel does not exist, where the path of flooding is unpredictable and indeterminate; and where velocity flow may be evident (Such flooding is characterized by ponding or sheet flow).
6. Area of Special Flood-related Erosion Hazard:

"Area of Special Flood-related Erosion Hazard" is the land within a community which is most likely to be subject to severe flood-related erosion losses. The area may be designated as Zone E on the Flood Hazard Boundary Map (FHBM). After the detailed evaluation of the special flood-related erosion hazard area in preparation for publication of the FIRM, Zone E may be further refined.
7. Area of Special Flood Hazard: see "Special Flood Hazard Area"
8. Base Flood:

"Base Flood" means the flood having a one percent chance of being equaled or exceeded in any given year. This term is also referred to as the 100-year flood of the one (1)-percent annual chance flood.
9. Basement:

"Basement" means that portion of a building having its floor subgrade (below ground level) on all sides.
10. Building: see "Structure"
11. Development:

"Development" means any man-made change to improved or unimproved real estate, including, but not limited to, buildings or other structures, mining, dredging, filling, grading, paving, excavating, drilling operations, or storage of equipment or materials.
12. Elevated Building:

"Elevated Building" means a non-basement building built to have the lowest floor of the lowest enclosed area elevated above the ground level by means of fill solid foundation perimeter walls with openings sufficient to facilitate the unimpeded movement of floodwater, pilings, columns, piers, or shear walls adequately anchored so as not to impair the structural integrity of the building during a base flood event.
13. Emergency Flood Insurance Program or Emergency Program:

"Emergency Flood Insurance Program" or "Emergency Program" means the program as implemented on an emergency basis in accordance with section 1336 of the Act. It is intended as a program to provide a first layer amount of insurance on all insurable structures before the effective date of the initial FIRM.

14. Erosion:
- "Erosion" means the process of the gradual wearing away of landmasses. This peril is not per se covered under the Program.
15. Exception:
- "Exception" means a waiver from the provisions of this Ordinance which relieves the applicant from the requirements of a rule, regulation, order or other determination made or issued pursuant to this Ordinance.
16. Existing Construction:
- "Existing Construction" means any structure for which the "start of construction" commenced before the effective date of the first floodplain management code or ordinance adopted by the community as a basis for that community's participation in the National Flood Insurance Program (NFIP).
17. Existing Manufactured Home Park or Subdivision:
- "Existing Manufactured Home Park or Subdivision" means a manufactured home park or subdivision for which the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including, at a minimum, the installation of utilities, the construction of streets, final site grading or the pouring of concrete pads) is completed before the effective date of the first floodplain management code or ordinance adopted by the community as a basis for that community's participation in the National Flood Insurance Program (NFIP).
18. Existing Structures: See Existing Construction
19. Expansion to an Existing Manufactured Home Park or Subdivision:
- "Expansion to an Existing Manufactured Home Park or Subdivision" means the preparation of additional sites by the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads).
20. Flood or Flooding:
- "Flood" or "Flooding" means a general and temporary condition of partial or complete inundation of normally dry land areas from:
- a. The overflow of inland or tidal waters;
  - b. The unusual and rapid accumulation or runoff of surface waters from any source.
21. Flood Elevation Determination:
- "Flood Elevation Determination" means a determination by the Federal Emergency Management Agency (FEMA) of the water surface elevations of the

base flood, that is, the flood level that has a one percent or greater chance of occurrence in any given year.

22. Flood Elevation Study:

"Flood Elevation Study" means an examination, evaluation and determination of flood hazards and, if appropriate, corresponding water surface elevations, or an examination, evaluation and determination of mudslide (i.e., mudflow) or flood-related erosion hazards.

23. Flood Hazard Boundary Map (FHBM):

"Flood Hazard Boundary Map (FHBM)" means an official map of a community, issued by the Federal Emergency Management Agency, where the boundaries of areas of special flood hazard have been designated as Zone A.

24. Flood Insurance Rate Map (FIRM):

"Flood Insurance Rate Map (FIRM)" means an official map of a community, issued by the Federal Emergency Management Agency, delineating the areas of special flood hazard or the risk premium zones applicable to the community.

25. Flood Insurance Study:

"Flood Insurance Study" is the official report provided by the Federal Emergency Management Agency, evaluating flood hazards and containing flood profiles and water surface elevation of the base flood.

26. Floodplain or Flood-prone Area:

"Floodplain" or "Flood-prone Area" means any land area susceptible to being inundated by water from any source (see definition of "Flooding").

27. Floodplain Management:

"Floodplain Management" means the operation of an overall program of corrective and preventive measures for reducing flood damage, including but not limited to emergency preparedness plans, flood control works and floodplain management regulations.

28. Flood Protection System:

"Flood Protection System" means those physical structural works for which funds have been authorized, appropriated, and expended and which have been constructed specifically to modify flooding in order to reduce the extent of the area within a community subject to a "special flood hazard" and the extent of the depths of associated flooding. Such a system typically includes hurricane tidal barriers, dams, reservoirs, levees or dikes. These specialized flood modifying works are those constructed in conformance with sound engineering standards.

29. Floodproofing:

"Floodproofing" means any combination of structural and nonstructural additions, changes, or adjustments to structures which reduce or eliminate flood damage to

real estate or improved real property, water and sanitary facilities, structures and their contents.

30. Flood-related Erosion:

"Flood-related Erosion" means the collapse or subsidence of land along the shore of a lake or other body of water as a result of undermining caused by waves or currents of water exceeding anticipated cyclical levels or suddenly caused by an unusually high water level in a natural body of water, accompanied by a severe storm, or by an unanticipated force of nature, such as a flash flood, or by some similarly unusual and unforeseeable event which results in flooding.

31. Flood-related Erosion Area or Flood-related Erosion Prone Area:

"Flood-related Erosion Area" or "Flood-related Erosion Prone Area" means a land area adjoining the shore of a lake or other body of water, which due to the composition of the shoreline or bank and high water levels or wind-driven currents, is likely to suffer flood-related erosion damage.

32. Flood-related Erosion Area Management:

"Flood-related Erosion Area Management" means the operation of an overall program of corrective and preventive measures for reducing flood-related erosion damage, including but not limited to emergency preparedness plans, flood-related erosion control works and flood plain management regulations.

33. Floodway:

"Floodway" means the channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height.

34. Freeboard:

"Freeboard" means a factor of safety usually expressed in feet above a flood level for purposes of floodplain management. "Freeboard" tends to compensate for the many unknown factors that could contribute to flood heights greater than the height calculated for a selected size flood and floodway conditions, such as wave action, bridge openings and the hydrological effect of urbanization of the watershed.

35. Functionally Dependent Use:

"Functionally Dependent Use" means a use which cannot perform its intended purpose unless it is located or carried out in close proximity to water. The term includes only docking facilities, port facilities that are necessary for the loading and unloading of cargo or passengers, and ship building and ship repair facilities, but does not include long-term storage or related manufacturing facilities.

36. Highest Adjacent Grade:

"Highest Adjacent Grade" means the highest natural elevation of the ground surface, prior to construction, adjacent to the proposed walls of a structure.

37. Historic Structure:

"Historic Structure" means any structure that is:

- a. Listed individually in the National Register of Historic Places (a listing maintained by the U.S. Department of Interior) or preliminarily determined by the Secretary of the Interior as meeting the requirements for individual listing on the National Register;
- b. Certified or preliminarily determined by the Secretary of the Interior as contributing to the historical significance of a registered historic district or a district preliminarily determined by the Secretary to qualify as a registered historic district;
- c. Individually listed on the Tennessee inventory of historic places and determined as eligible by states with historic preservation programs which have been approved by the Secretary of the Interior; or
- d. Individually listed on the City of Oak Ridge, Tennessee inventory of historic places and determined as eligible by communities with historic preservation programs that have been certified either:
  - (1) By an approved state program as determined by the Secretary of the Interior, or
  - (2) Directly by the Secretary of the Interior.

38. Levee:

"Levee" means a man-made structure, usually an earthen embankment, designed and constructed in accordance with sound engineering practices to contain, control, or divert the flow of water so as to provide protection from temporary flooding.

39. Levee System:

"Levee System" means a flood protection system, which consists of a levee, or levees, and associated structures, such as closure, and drainage devices, which are constructed and operated in accordance with sound engineering practices.

40. Lowest Floor:

"Lowest Floor" means the lowest floor of the lowest enclosed area, including a basement. An unfinished or flood resistant enclosure used solely for parking of vehicles, building access or storage in an area other than a basement area is not considered a building's lowest floor; provided, that such enclosure is not built so as to render the structure in violation of the applicable non-elevation design requirements of this Ordinance.

41. Manufactured Home:

"Manufactured Home" means a structure, transportable in one or more sections, which is built on a permanent chassis and designed for use with or without a permanent foundation when attached to the required utilities. The term "Manufactured Home" does not include a "Recreational Vehicle", unless such transportable structures are placed on a site for 180 consecutive days or longer.

42. **Manufactured Home Park or Subdivision:**

"Manufactured Home Park or Subdivision" means a parcel (or contiguous parcels) of land divided into two or more manufactured home lots for rent or sale.

43. **Map:**

"Map" means the Flood Hazard Boundary Map (FHBM) or the Flood Insurance Rate Map (FIRM) for a community issued by the Agency.

44. **Mean Sea Level:**

"Mean Sea Level" means the average height of the sea for all stages of the tide. It is used as a reference for establishing various elevations within the floodplain. For the purposes of this Ordinance, the term is synonymous with National Geodetic Vertical Datum (NGVD) of 1929, the North American Vertical Datum (NAVD) of 1988, or other datum, to which base flood elevations shown on a community's Flood Insurance Rate Map are referenced.

45. **National Geodetic Vertical Datum (NGVD):**

"National Geodetic Vertical Datum (NGVD)" as corrected in 1929 is a vertical control used as a reference for establishing varying elevations within the floodplain.

46. **New Construction:**

"New Construction" means any structure for which the "start of construction" commenced after the effective date of this ordinance or the effective date of the first floodplain management ordinance and includes any subsequent improvements to such structure.

47. **New Manufactured Home Park or Subdivision:**

"New Manufactured Home Park or Subdivision" means a manufactured home park or subdivision for which the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including at a minimum, the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads) is completed after the effective date of this ordinance or the effective date of the first floodplain management ordinance and includes any subsequent improvements to such structure.

48. **North American Vertical Datum (NAVD):**

"North American Vertical Datum (NAVD)" as corrected in 1988 is a vertical control used as a reference for establishing varying elevations within the floodplain.

49. 100-year Flood: See Base Flood
50. Person:  
"Person" includes any individual or group of individuals, corporation, partnership, association, or any other entity, including State and local governments and agencies.
51. Reasonably Safe from Flooding:  
"Reasonably Safe from Flooding" means base flood waters will not inundate the land of damage structures to be removed from the Special Flood Hazard Area and that any subsurface waters related to the base flood will not damage existing or proposed structures.
52. Recreational Vehicle:  
"Recreational Vehicle" means a vehicle which is:
- a. Built on a single chassis;
  - b. 400 square feet or less when measured at the largest horizontal projection;
  - c. Designed to be self-propelled or permanently towable by a light duty truck; and
  - d. Designed primarily not for use as a permanent dwelling but as temporary living quarters for recreational, camping, travel, or seasonal use.
53. Regulatory Floodway:  
"Regulatory Floodway" means the channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height.
54. Riverine:  
"Riverine" means relating to, formed by, or resembling a river (including tributaries), stream, brook, etc.
55. Special Flood Hazard Area:  
"Special Flood Hazard Area is the land in the floodplain within a community subject to a one percent or greater chance of flooding in any given year. The area may be designated as Zone A on the FHBM. After detailed ratemaking has been completed in preparation for publication of the FIRM, Zone A usually is refined into Zones A, AO, AH, A1-30, AE or A99.
56. Special Hazard Area:

"Special Hazard Area" means an area having special flood, mudslide (i.e., mudflow) and/or flood-related erosion hazards, and shown on an FHBM or FIRM as Zone A, AO, A1-30, AE, A99, or AH.

57. Start of Construction:

"Start of Construction" includes substantial improvement, and means the date the building permit was issued, provided the actual start of construction, repair, reconstruction, rehabilitation, addition, placement, or other improvement was within 180 days of the permit date. The actual start means either the first placement of permanent construction of a structure (including a manufactured home) on a site, such as the pouring of slabs or footings, the installation of piles, the construction of columns, or any work beyond the stage of excavation; and includes the placement of a manufactured home on a foundation. (Permanent construction does not include initial land preparation, such as clearing, grading and filling; nor does it include the installation of streets and/or walkways; nor does it include excavation for a basement, footings, piers, or foundations or the erection of temporary forms; nor does it include the installation on the property of accessory buildings, such as garages or sheds, not occupied as dwelling units or not part of the main structure. For a substantial improvement, the actual start of construction means the first alteration of any wall, ceiling, floor, or other structural part of a building, whether or not that alteration affects the external dimensions of the building.

58. State Coordinating Agency:

"State Coordinating Agency" means the Tennessee Department of Economic and Community Development's, Local Planning Assistance Office as designated by the Governor of the State of Tennessee at the request of FEMA to assist in the implementation of the National Flood Insurance Program for the state.

59. Structure:

"Structure", for purposes of this section, means a walled and roofed building including a gas or liquid storage tank, that is principally above ground, as well as a manufactured home.

62. Substantial Damage:

"Substantial Damage" means damage of any origin sustained by a structure whereby the cost of restoring the structure to its before damaged condition would equal or exceed 50 percent of the market value of the structure before the damage occurred.

63. Substantial Improvement:

"Substantial Improvement" means any reconstruction, rehabilitation, addition, alteration or other improvement of a structure in which the cost equals or exceeds fifty percent (50%) of the market value of the structure before the "start of construction" of the initial improvement. This term includes structures which have incurred "substantial damage", regardless of the actual repair work performed. The market value of the structure should be (1) the appraised value of the structure prior to the start of the initial improvement, or (2) in the case of substantial damage, the value of the structure prior to the damage occurring.

The term does not, however, include either: (1) Any project for improvement of a structure to correct existing violations of State or local health, sanitary, or safety code specifications which have been pre-identified by the local code enforcement official and which are the minimum necessary to assure safe living conditions and not solely triggered by an improvement or repair project or; (2) Any alteration of a "historic structure", provided that the alteration will not preclude the structure's continued designation as a "historic structure".

64. **Substantially Improved Existing Manufactured Home Parks or Subdivisions:**

"Substantially Improved Existing Manufactured Home Parks or Subdivisions" is where the repair, reconstruction, rehabilitation or improvement of the streets, utilities and pads equals or exceeds 50 percent of the value of the streets, utilities and pads before the repair, reconstruction or improvement commenced.

65. **Variance:**

"Variance" is a grant of relief from the requirements of this Ordinance.

66. **Violation:**

"Violation" means the failure of a structure or other development to be fully compliant with the community's floodplain management regulations. A structure or other development without the elevation certificate, other certification, or other evidence of compliance required in this Ordinance is presumed to be in violation until such time as that documentation is provided.

67. **Water Surface Elevation:**

"Water Surface Elevation" means the height, in relation to the National Geodetic Vertical Datum (NGVD) of 1929, the North American Vertical Datum (NAVD) of 1988, or other datum, where specified, of floods of various magnitudes and frequencies in the floodplains of riverine areas.

(f) **General Provisions**

1. **Application**

This Ordinance shall apply to all areas within the incorporated area of Oak Ridge, Tennessee.

2. **Basis for Establishing the Areas of Special Flood Hazard**

The Areas of Special Flood Hazard identified on the City of Oak Ridge Tennessee as identified by FEMA, and in its Flood Insurance Study (FIS) and Flood Insurance Rate Map (FIRM), Map Numbers 47001C0214F, 0217F, 0218F, 0219F, 0236F, 0238F, 0239F, 0277F, 0281F, 0282F, 0283F, 0284F, 0295F, 0301F, 0302F, 0304F, 0310F, 0315F, effective date January 17, 2007, Map numbers 47001C0230G, 0237G and 0245G, effective date May 4, 2009, Map Numbers 47145C0039F, 0110F, 0120F, 0130F, 0135F, effective date September 28, 2007, Map Numbers 47145C0140G, 0145G, effective date November 18, 2009, along with all supporting technical data, are adopted by reference and declared to be a part of this Ordinance.

3. Requirement for Development Permit

A development permit shall be required in conformity with this Ordinance prior to the commencement of any development activities.

4. Compliance

No land, structure, or use shall hereafter be located, extended, converted or structurally altered without full compliance with the terms of this Ordinance and other applicable regulations.

5. Abrogation and Greater

This Ordinance is not intended to repeal, abrogate, or impair any existing easement, covenant, or deed restriction. However, where this Ordinance conflicts or overlaps with another regulatory instrument, whichever imposes the more stringent restrictions shall prevail.

6. Interpretation

In the interpretation and application of this Ordinance, all provisions shall be: considered as minimum requirements; liberally construed in favor of the governing body, and; deemed neither to limit nor repeal any other powers granted under Tennessee statutes.

7. Warning and Disclaimer of Liability

The degree of flood protection required by this Ordinance is considered reasonable for regulatory purposes and is based on scientific and engineering considerations. Larger floods can and will occur on rare occasions. Flood heights may be increased by man-made or natural causes. This Ordinance does not imply that land outside the Areas of Special Flood Hazard or uses permitted within such areas will be free from flooding or flood damages. This Ordinance shall not create liability on the part of the City of Oak Ridge, Tennessee or by any officer or employee thereof for any flood damages that result from reliance on this Ordinance or any administrative decision lawfully made hereunder.

8. Penalties for Violation

Violation of the provisions of this Ordinance or failure to comply with any of its requirements, including violation of conditions and safeguards established in connection with grants of variance shall constitute a misdemeanor punishable as other misdemeanors as provided by law. Any person who violates this ordinance or fails to comply with any of its requirements shall, upon adjudication therefore, be fined as prescribed by Tennessee statutes, and in addition, shall pay all costs and expenses involved in the case. Each day such violation continues shall be considered a separate offense. Nothing herein contained shall prevent the City of Oak Ridge, Tennessee from taking such other lawful actions to prevent or remedy any violation.

(g) Development Regulations

1. Designation of Ordinance Administrator

The City Manager or the City Manager's duly authorized designee is hereby appointed as the Administrator to implement the provisions of this Ordinance.

2. Permit Procedures

Application for a development permit shall be made to the Administrator on forms furnished by the community prior to any development activities. The development permit may include, but is not limited to the following: plans in duplicate drawn to scale and showing the nature, location, dimensions, and elevations of the area in question; existing or proposed structures, earthen fill placement, storage of materials or equipment, and drainage facilities. Specifically, the following information is required:

a. Application stage

- (1) Elevation in relation to mean sea level of the proposed lowest floor, including basement, of all buildings where base flood elevations are available, or to the highest adjacent grade when applicable under this Ordinance.
- (2) Elevation in relation to mean sea level to which any non-residential building will be flood-proofed where base flood elevations are available, or to the highest adjacent grade when applicable under this Ordinance.
- (3) A FEMA Floodproofing Certificate from a Tennessee registered professional engineer or architect that the proposed non-residential flood-proofed building will meet the flood-proofing criteria in Section 9.07(g).
- (4) Description of the extent to which any watercourse will be altered or relocated as a result of proposed development.

b. Construction Stage

Within AE Zones, where Base Flood Elevation data is available, any lowest floor certification made relative to mean sea level shall be prepared by or under the direct supervision of a Tennessee registered land surveyor and certified by same. The Administrator shall record the elevation of the lowest floor on the development permit. When floodproofing is utilized for a non-residential building, said certification shall be prepared by, or under the direct supervision of, a Tennessee registered professional engineer or architect and certified by same.

Within approximate A zones, where Base Flood Elevation data are not available, the Administrator shall record the elevation of the lowest floor on the development permit. The elevation of the lowest floor shall be determined as the measurement of the lowest floor of the building relative to the highest adjacent grade. When floodproofing is utilized for a non-residential building said certification shall be prepared by or under the direct supervision of, a professional engineer or architect and certified by same.

For all new construction and substantial improvements, the permit holder shall provide to the Administrator an as-built certification of the regulatory floor elevation or floodproofing level upon the completion of the lowest floor or floodproofing.

Any work undertaken prior to submission of the certification shall be at the permit holder's risk. The Administrator shall review the above-referenced certification data. Deficiencies detected by such review shall be corrected by the permit holder immediately and prior to further work being allowed to proceed. Failure to submit the certification or failure to make said corrections required hereby, shall be cause to issue a stop-work order for the project.

(h) Duties and Responsibilities of the Administrator

Duties of the Administrator shall include, but not be limited to:

1. Review of all development permits to assure that the permit requirements of this Ordinance have been satisfied, and that proposed building sites will be reasonably safe from flooding.
2. Review proposed development to assure that all necessary permits have been received from those governmental agencies from which approval is required by Federal or State law, including Section 404 of the Federal Water Pollution Control Act Amendments of 1972, 33 U.S.C. 1334.
3. Notification to adjacent communities and the Tennessee Department of Economic and Community Development, Local Planning Assistance Office, prior to any alteration or relocation of a watercourse, and submission of evidence of such notification to the Federal Emergency Management Agency.
4. For any altered or relocated watercourse, submit engineering data/analysis within six (6) months to the Federal Emergency Management Agency to ensure accuracy of community flood maps through the Letter of Map Revision process. Assure that the flood carrying capacity within an altered or relocated portion of any watercourse is maintained.
5. Record the elevation, in relation to mean sea level or the highest adjacent grade, where applicable of the lowest floor including basement of all new or substantially improved buildings, in accordance with Section 9.07(g).
6. Record the actual elevation, in relation to mean sea level or the highest adjacent grade, where applicable to which the new or substantially improved buildings have been flood-proofed, in accordance with Section 9.07(g).
7. When flood proofing is utilized for a structure, the Administrator shall obtain certification of design criteria from a Tennessee registered professional engineer or architect, in accordance with Section 9.07(g).
8. Where interpretation is needed as to the exact location of boundaries of the areas of special flood hazard (for example, where there appears to be a conflict between a mapped boundary and actual field conditions) the Administrator shall make the necessary interpretation. Any person contesting the location of the

boundary shall be given a reasonable opportunity to appeal the interpretation as provided in this Ordinance.

9. When base flood elevation data or floodway data have not been provided by the Federal Emergency Management Agency then the Administrator shall obtain, review and reasonably utilize any base flood elevation and floodway data available from a Federal, State, or other sources, including data developed as a result of these regulations, as criteria for requiring that new construction, substantial improvements, or other development in Zone A on the City of Oak Ridge, Tennessee FIRM meet the requirements of this Ordinance.
10. All records pertaining to the provisions of this Ordinance shall be maintained in the office of the Community Development Department and shall be open for public inspection. Permits issued under the provisions of this Ordinance shall be maintained in a separate file or marked for expedited retrieval within combined files.

(i) Flood Hazard Reduction, General Standards

In all flood prone areas the following provisions are required:

1. New construction and substantial improvements to existing buildings shall be anchored to prevent flotation, collapse or lateral movement of the structure;
2. Manufactured homes shall be elevated and anchored to prevent flotation, collapse, or lateral movement. Methods of anchoring may include, but are not limited to, use of over-the-top or frame ties to ground anchors. This requirement is in addition to applicable State of Tennessee requirements for resisting wind forces;
3. New construction and substantial improvements to existing buildings shall be constructed with materials and utility equipment resistant to flood damage;
4. New construction or substantial improvements to existing buildings shall be constructed by methods and practices that minimize flood damage;
5. All electrical, heating, ventilation, plumbing, air conditioning equipment, and other service facilities shall be designed and/or located so as to prevent water from entering or accumulating within the components during conditions of flooding;
6. New and replacement water supply systems shall be designed to minimize or eliminate infiltration of flood waters into the system;
7. New and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of flood waters into the systems and discharges from the systems into flood waters;
8. On-site waste disposal systems shall be located and constructed to avoid impairment to them or contamination from them during flooding;
9. Any alteration, repair, reconstruction or improvements to a building that is in compliance with the provisions of this Ordinance, shall meet the requirements of "New Construction" as contained in this Ordinance; and,

10. Any alteration, repair, reconstruction or improvements to a building that is not in compliance with the provision of this Ordinance, shall be undertaken only if said non-conformity is not further extended or replaced.
11. All new construction and substantial improvement proposals shall provide copies of all necessary Federal and State permits, including Section 404 of the Federal Water Pollution Control Act amendments of 1972, 33 U.S.C. 1334;
12. All subdivision proposals and other proposed new development proposals shall meet the standards of Section 9.07(j);
13. When proposed new construction and substantial improvements are partially located in an area of special flood hazard, the entire structure shall meet the standards for new construction;
14. When proposed new construction and substantial improvements are located in multiple flood hazard risk zones or in a flood hazard risk zone with multiple Base Flood Elevations, the entire structure shall meet the standards for the most hazardous flood hazard risk zone and the highest Base Flood Elevation.

(j) Flood Hazard Reduction, Specific Standards

These provisions shall apply to all Areas of Special Flood Hazard in addition to those set forth in Section 9.07(i) are required:

1. Residential Construction. In AE Zones where base flood elevation data is available, new construction or substantial improvement of any residential building (or manufactured home) shall have the lowest floor, including basement, elevated no lower than two (2) foot above the base flood elevation. Should solid foundation perimeter walls be used to elevate a structure, openings sufficient to facilitate equalization of flood hydrostatic forces on both sides of exterior walls and to ensure unimpeded movement of floodwater shall be provided in accordance with the standards of Section 9.07(j).

Within approximate A zones, where base flood elevations have not been established and where alternative data is not available, the Administrator shall require the lowest floor of a building to be elevated to a level of at least three (3) feet above the highest adjacent grade (lowest floor and highest adjacent grade being defined in Section 9.07(e)). All applicable data including elevations or flood proofing certifications shall be recorded as set forth in Section 9.07(g). Should solid foundation perimeter walls be used to elevate a structure, openings sufficient to facilitate equalization of flood hydrostatic forces on both sides of exterior walls and to ensure unimpeded movement of floodwater shall be provided in accordance with the standards of Section 9.07(j)(3).

2. Non-Residential Construction. In AE Zones, where Base Flood Elevation data is available, new construction and substantial improvement of any commercial, industrial, or non-residential building, shall have the lowest floor, including basement, elevated or floodproofed no lower than one (1) foot above the level of the base flood elevation. Should solid foundation perimeter walls be used to elevate a structure, openings sufficient to facilitate equalization of flood hydrostatic forces on both sides of exterior walls shall be provided in accordance with the standards of Section 9.07(j)(3).

Within approximate A zones, where base flood elevations have not been established and where alternative data is not available, the Administrator shall require new construction and substantial improvement of any commercial, industrial, or non-residential building shall have the lowest floor of a building to be elevated or floodproofed to a level of at least three (3) feet above the highest adjacent grade (lowest floor and highest adjacent grade being defined in Section 9.07(e)). All applicable data including elevations or flood proofing certifications shall be recorded as set forth in Section 9.07(g).

Non-Residential buildings located in all A-zones may be flood-proofed, in lieu of being elevated, provided that all areas of the building below the required elevation are watertight, with walls substantially impermeable to the passage of water, and are built with structural components having the capability of resisting hydrostatic and hydrodynamic loads and the effects of buoyancy. A Tennessee registered professional engineer or architect shall certify that the design and methods of construction are in accordance with accepted standards of practice for meeting the provisions above, and shall provide such certification to the Administrator as set forth in Section 9.07(g).

3. Enclosures. All new construction or substantial improvements to existing buildings that include ANY fully enclosed areas formed by foundation and other exterior walls below the lowest floor that are subject to flooding shall be designed to preclude finished living space and designed to allow for the entry and exit of flood waters to automatically equalize hydrostatic flood forces on exterior walls.
  - a. Designs for complying with this requirement must either be certified by a Tennessee professional engineer or architect or meet the following minimum criteria.
    - (1) Provide a minimum of two openings having a total net area of not less than one square inch for every square foot of enclosed area subject to flooding;
    - (2) The bottom of all openings shall be no higher than one foot above the finish grade; and
    - (3) Openings may be equipped with screens, louvers, valves or other coverings or devices provided they permit the automatic flow of floodwaters in both directions.
  - b. The enclosed area shall be the minimum necessary to allow for parking of vehicles, storage or building access.
  - c. The interior portion of such enclosed area shall not be partitioned or finished into separate rooms in such a way as to impede the movement of floodwaters and all such partitions shall comply with the provisions of Section 9.07(j).
4. Standards for Manufactured Homes and Recreational Vehicles
  - a. All manufactured homes placed, or substantially improved, on: (1) individual lots or parcels, (2) in expansions to existing manufactured

home parks or subdivisions, or (3) in new or substantially improved manufactured home parks or subdivisions, must meet all the requirements of new construction, including elevations and anchoring.

- b. All manufactured homes placed or substantially improved in an existing manufactured home park or subdivision must be elevated so that either:
  - (1) In AE Zones, when base flood elevations are available the lowest floor of the manufactured home is elevated on a permanent foundation no lower than two (2) foot above the level of the base flood elevation; or,
  - (2) In approximate A Zones, absent base flood elevations the manufactured home chassis is elevated and supported by reinforced piers (or other foundation elements of at least equivalent strength) at least three (3) feet in height above the highest adjacent grade.
- c. Any manufactured home, which has incurred "substantial damage" as the result of a flood or that has substantially improved, must meet the standards of Section 9.07(j)(4).
- d. All manufactured homes must be securely anchored to an adequately anchored foundation system to resist flotation, collapse and lateral movement.
- e. All recreational vehicles placed on identified flood hazard sites must either:
  - (1) Be on the site for fewer than 180 consecutive days;
  - (2) Be fully licensed and ready for highway use. (A recreational vehicle is ready for highway use if it is licensed, on its wheels or jacking system, attached to the site only by quick disconnect type utilities and security devices, and has no permanently attached structures or additions, or;
  - (3) The recreational vehicle must meet all the requirements for new construction, including the anchoring and elevation requirements of this section above if on the site for longer than 180 consecutive days.

5. Standards for Subdivisions and Other Proposed New Development Proposals

Subdivisions and other proposed new developments, including manufactured home parks, shall be reviewed to determine whether such proposals will be reasonably safe from flooding. If a subdivision proposal or other proposed new development is in a flood-prone area, any such proposals shall be reviewed to ensure that:

- a. All subdivision proposals and other proposed new development proposals shall be consistent with the need to minimize flood damage.

- b. All subdivision proposals and other proposed new development proposals shall have public utilities and facilities such as sewer, gas, electrical and water systems located and constructed to minimize or eliminate flood damage.
- c. All subdivision proposals and other proposed new development proposals shall have adequate drainage provided to reduce exposure to flood hazards.
- d. In all approximate A Zones Base flood elevation data shall be provided for subdivision proposals and other proposed developments (including manufactured home parks and subdivisions) that are greater than fifty lots and/or five acres in area, whichever is lesser, include within such proposals Base Flood Elevation data (See Section 9.07(m)).

(k) Standards for Areas of Special Flood Hazard with Established Base Flood Elevations and With Floodways Designated

Located within the Areas of Special Flood Hazard established in Section 9.07(f)(2) are areas designated as floodways. A floodway may be an extremely hazardous area due to the velocity of floodwaters, debris or erosion potential. In addition, the area must remain free of encroachment in order to allow for the discharge of the base flood without increased flood heights and velocities. Therefore, the following provisions shall apply:

- 1. Encroachments are prohibited, including earthen fill material, new construction, substantial improvements or other developments within the regulatory floodway. Development may be permitted however, provided it is demonstrated through hydrologic and hydraulic analyses performed in accordance with standard engineering practices that the cumulative effect of the proposed encroachments or new development, when combined with all other existing and anticipated development, shall not result in ANY increase the water surface elevation of the base flood level, velocities or floodway widths during the occurrence of a base flood discharge at any point within the community. A Tennessee registered professional engineer must provide supporting technical data and certification thereof, using the same methodologies as in the effective Flood Insurance Study for the City of Oak Ridge Tennessee and certification thereof.
- 2. New construction or substantial improvements of buildings shall comply with all applicable flood hazard reduction provisions in Sections 9.07(i) and (j).

(l) Standards for Areas of Special Flood Hazard Zones AE with Established Base Flood Elevations but Without Floodways Designated

Located within the Areas of Special Flood Hazard established in Section 9.07(f)(2) where streams exist with base flood data provided but where no floodways have been designated, (Zones AE) the following provisions apply:

- 1. No encroachments, including fill material, new structures or substantial improvements shall be located within areas of special flood hazard, unless certification by a Tennessee registered professional engineer is provided demonstrating that the cumulative effect of the proposed development, when combined with all other existing and anticipated development, will not increase the water surface elevation of the base flood more than one (1) foot at any point

within the community. The engineering certification should be supported by technical data that conforms to standard hydraulic engineering principles.

2. New construction or substantial improvements of buildings, where permitted, shall be elevated or flood-proofed to elevations established in accordance with Sections 9.07(i) and (j).

(m) Standards for Streams without Established Base Flood Elevations or Floodways (A Zones)

Located within the Areas of Special Flood Hazard established in Section 9.07(f)(2), where streams exist, but no base flood data has been provided and where a Floodway has not been delineated, the following provisions shall apply:

1. The Administrator shall obtain, review, and reasonably utilize any Base Flood Elevation and floodway data available from any Federal, State, or other sources, including data developed as a result of these regulations (see 2 below), as criteria for requiring that new construction, substantial improvements, or other development in approximate A Zones meet the requirements of Sections 9.07(i) and (j).
2. Require that all new subdivision proposals and other proposed developments (including proposals for manufactured home parks and subdivisions) greater than 50 lots or 5 acres, whichever is the lesser, include within such proposals Base Flood Elevation data.
3. Within approximate A Zones, where Base Flood Elevations have not been established and where such data is not available from other sources, require the lowest floor of a building to be elevated or floodproofed to a level of at least three (3) feet above the highest adjacent grade (as defined in Sections 9.07(e)). All applicable data including elevations or floodproofing certifications shall be recorded as set forth in Sections 9.07(g). Openings sufficient to facilitate automatic equalization of hydrostatic flood forces on exterior walls shall be provided in accordance with the standards of Section 9.07(j).
4. Within approximate A Zones, where Base Flood Elevations have not been established and where such data is not available from other sources, no encroachments, including structures or fill material, shall be located within an area equal to the width of the stream or twenty feet (20), whichever is greater, measured from the top of the stream bank, unless certification by a Tennessee registered professional engineer is provided demonstrating that the cumulative effect of the proposed development, when combined with all other existing and anticipated development, will not increase the water surface elevation of the base flood more than one (1) foot at any point within the City of Oak Ridge, Tennessee. The engineering certification should be supported by technical data that conforms to standard hydraulic engineering principles.
5. New construction and substantial improvements of buildings, where permitted, shall comply with all applicable flood hazard reduction provisions of Sections 9.07(i) and (j). Within approximate A Zones, require that those subsections of Section 9.07(j) dealing with the alteration or relocation of a watercourse, assuring watercourse carrying capacities are maintained and manufactured homes provisions are complied with as required.

(n) Standards For Areas of Shallow Flooding (AO and AH Zones)

Located within the Areas of Special Flood Hazard established in Section 9.07(f)(2) are areas designated as shallow flooding areas. These areas have special flood hazards associated with base flood depths of one to three feet (1'-3') where a clearly defined channel does not exist and where the path of flooding is unpredictable and indeterminate; therefore, the following provisions apply:

1. All new construction and substantial improvements of residential and non-residential buildings shall have the lowest floor, including basement, elevated to at least one (1) foot above the flood depth number specified on the Flood Insurance Rate Map (FIRM), in feet, above the highest adjacent grade. If no flood depth number is specified, the lowest floor, including basement, shall be elevated, at least three (3) feet above the highest adjacent grade. Openings sufficient to facilitate the unimpeded movements of floodwaters shall be provided in accordance with standards of Section 9.07(j) and "Elevated Buildings."
2. All new construction and substantial improvements of nonresidential buildings may be flood-proofed in lieu of elevation. The structure together with attendant utility and sanitary facilities must be flood proofed and designed watertight to be completely flood-proofed to at least one (1) foot above the specified FIRM flood level, with walls substantially impermeable to the passage of water and with structural components having the capability of resisting hydrostatic and hydrodynamic loads and the effects of buoyancy. If no depth number is specified, the lowest floor, including basement, shall be flood proofed to at least three (3) feet above the highest adjacent grade. A Tennessee registered professional engineer or architect shall certify that the design and methods of construction are in accordance with accepted standards of practice for meeting the provisions of this ordinance and shall provide such certification to the Administrator as set forth above and as required in Section 9.07(g).
3. Adequate drainage paths shall be provided around slopes to guide floodwaters around and away from proposed structures.

(o) Standards For Areas Protected by Flood Protection System (A-99 Zones)

Located within the areas of special flood hazard established in Section 9.07(f)(2) are areas of the 100-year floodplain protected by a flood protection system but where base flood elevations and flood hazard factors have not been determined. Within these areas (A-99 Zones) all provisions of Sections 9.07(g), (h), and (i) shall apply.

(p) Standards for Unmapped Streams

Located within Oak Ridge Tennessee are unmapped streams where areas of special flood hazard are neither indicated nor identified. Adjacent to such streams the following provisions shall apply:

1. In areas adjacent to such unmapped streams, no encroachments including fill material or structures shall be located within an area of at least equal to twice the width of the stream, measured from the top of each stream bank, unless certification by a Tennessee registered professional engineer is provided demonstrating that the cumulative effect of the proposed development, when

combined with all other existing and anticipated development, will not increase the water surface elevation of the base flood more than one (1) foot at any point within the locality.

2. When a new flood hazard risk zone, and Base Flood Elevation and floodway data is available, new construction and substantial improvements shall meet the standards established in accordance with Section 9.07(g) and (h).

(q) Variance Procedures

The provisions of this section shall apply exclusively to areas of Special Flood Hazard within Oak Ridge, Tennessee.

1. The City of Oak Ridge Board of Zoning Appeals shall hear and decide appeals and requests for variances from the requirements of this Section in accordance with Article XVI.
2. Variances may be issued for the repair or rehabilitation of Historic Structures upon a determination that the proposed repair or rehabilitation will not preclude the structure's continued designation as a Historic Structure and the variance is the minimum necessary deviation from the requirements of Section 9.07 to preserve the historic character and design of the structure.
3. In passing upon such applications, the Board of Zoning Appeals shall consider all technical evaluations, all relevant factors, all standards specified in Section 9.07, and:
  - a. The danger that materials may be swept onto other property to the injury of others;
  - b. The danger to life and property due to flooding or erosion;
  - c. The susceptibility of the proposed facility and its contents to flood damage;
  - d. The importance of the services provided by the proposed facility to the community;
  - e. The necessity of the facility to a waterfront location, in the case of a functionally dependent facility;
  - f. The availability of alternative locations, not subject to flooding or erosion damage, for the proposed use;
  - g. The relationship of the proposed use to the comprehensive plan and floodplain management program for that area;
  - h. The safety of access to the property in times of flood for ordinary and emergency vehicles;
  - i. The expected heights, velocity, duration, rate of rise and sediment transport of the flood waters and the effects of wave action, if applicable, expected at the site, and;

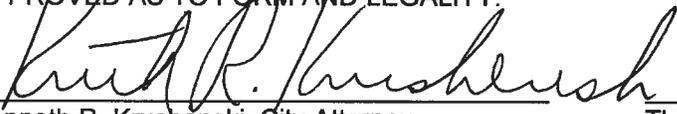
- j. The costs of providing governmental services during and after flood conditions including maintenance and repair of public utilities and facilities such as sewer, gas, electrical, and water systems, and streets and bridges.
- 4. Upon consideration of the factors listed above, and the purposes of this Ordinance, the Board of Zoning Appeals may attach such conditions to the granting of variances as it deems necessary to effectuate the purposes of this Ordinance.
- 5. Variances shall not be issued within any designated floodway if any increase in flood levels during the base flood discharge would result.
- 6. Conditions for Variances
  - a. Variances shall be issued upon a determination that the variance is the minimum relief necessary, considering the flood hazard and the factors listed in Section 9.07(q).
  - b. Variances shall only be issued upon: (i) a showing of good and sufficient cause, (ii) a determination that failure to grant the variance would result in exceptional hardship; or (iii) a determination that the granting of a variance will not result in increased flood heights, additional threats to public safety, extraordinary public expense, create nuisance, cause fraud on or victimization of the public, or conflict with existing local laws or ordinances.
  - c. Any applicant to whom a variance is granted shall be given written notice that the issuance of a variance to construct a structure below the base flood level will result in increased premium rates for flood insurance, and that such construction below the base flood level increases risks to life and property.
  - d. The Administrator shall maintain the records of all appeal actions and report any variances to the Federal Emergency Management Agency upon request.

(r) Severability

If any section, clause, provision, or portion of this Ordinance shall be held to be invalid or unconstitutional by any court of competent jurisdiction, such holding shall not affect any other section, clause, provision, or portion of this Ordinance which is not of itself invalid or unconstitutional.

Section 2. This ordinance shall become effective ten (10) days after adoption on second reading, the welfare of the City of Oak Ridge requiring it.

APPROVED AS TO FORM AND LEGALITY:

  
\_\_\_\_\_  
Kenneth R. Krushenski, City Attorney

  
\_\_\_\_\_  
Thomas L. Beehan, Mayor

\_\_\_\_\_  
Diana R. Stanley, Acting City Clerk

Public Hearing: 10/10/2011  
Publication Date: 9/23/2011  
First Reading: 10/10/2011  
Publication Date: \_\_\_\_\_  
Second Reading: \_\_\_\_\_  
Publication Date: \_\_\_\_\_  
Effective Date: \_\_\_\_\_

**COMMUNITY DEVELOPMENT DEPARTMENT MEMORANDUM**  
**11-66**

DATE: September 26, 2011

TO: Mark S. Watson, City Manager

FROM: Kahla Gentry, Senior Planner

SUBJECT: **Removal of RG-1 Strip from Anderson County Tax Map Parcels 8.00, 9.00, 10.00 and 12.00, Map 100G, Group A.**

An item for the City Council agenda is a request to remove the narrow strip zoned RG-1, Residential Open Space and Reserved from parcels within the Municipal Industrial Park on Emory Valley Road in order to remove the split zone and have the parcels entirely zoned IND-1, Industrial. At their regular meeting on September 22, 2011, the Oak Ridge Municipal Planning Commission voted 6-0 to recommend approval of the requested rezoning.

The proposed rezoning primarily affects property owned by the Emory Valley Center, 715 Emory Valley Road. During a preliminary review of the potential development of Parcel 9.00 by the Emory Valley Center for a new building, city staff recommended the removal of the RG-1 zoning strip. In the past the RG-1 zoning district was used inappropriately as a "buffer strip". The Zoning Ordinance has been amended since the time the RG-1 zoning district was used to provide a buffer and the current landscape and design standards in Article XIII provide the mechanism to carry out the purpose originally attempted by applying the RG-1 zone. The RG-1 zone strip has been removed previously from Fairbanks Plaza, the former Paragon site and the proposed sites for Woodland Town Center and Enclave Business Park. The Land Use Plan designation for the area proposed for rezoning is I, Industrial.

Staff recommends approval of rezoning a portion of Parcels 8.00, 9.00, 10.00 and 12.00, Map 100G, Group A, from RG-1 to IND-1 finding the proposed zoning compatible with surrounding zoning and land uses and in conformance with the Land Use Plan.

Kahla Gentry

**City Manager's Comments:**

I have reviewed the above issue and recommend Council action as outlined in this document.

Mark S. Watson      10/3/11  
Mark S. Watson      Date

## STAFF REVIEW OF REZONING REQUEST

**Location & Approximate Area:** Portion of Parcels 8.00, 9.00, 10.00 and 12.00 on Anderson County Tax Map 100G Group A, within the Municipal Industrial Park located on Emory Valley Road.

Owners: Emory Valley Center  
James A. Barker  
Joseph B. Kirk

Date: September 22, 2011

Request Rezoning From: RG-1, Residential,  
Open Space and Reserved

To: IND-1, Industrial

### **Site Characteristics:**

Strip approximately 50-feet deep along southern side of Emory Valley Road between Franklin Road and the western boundary line of 707 Emory Valley Road (Power Squadron building).

### **Adjacent Land Uses & Zoning:**

**North:** Across Emory Valley Road is the Daniel Arthur Building, zoned UB-2, Unified General Business.

**South:** Remaining portion of parcels being rezoned. Parcel 8.00 is owned by James A. Barker and is vacant. Parcels 9.00 and 10.00 are owned by the Emory Valley Center. The Emory Valley Center facilities are located on Parcel 10.00. Parcel 9.00 is the planned location for a new Emory Valley Center building. Parcel 12.00 is owned by Joseph B. Kirk and is the former location of Pathway Bellows. All of these parcels are zoned IND-1 as part of the Municipal Industrial Park

**East:** Power Squadron building zoned B-2, General Business

**West:** Across Franklin Road, American Technologies, Inc., zoned IND-1, Industrial.

**Previous Rezoning Requests:** None

### **Analysis:**

**Purpose:** As part of a preliminary review of the Emory Valley Center's new building and site development plans, City staff recommended removing the split zoning by removing the RG-1 strip. Removing the RG-1 zoning on the parcels contiguous to the Emory Valley Center property (former Pathway Bellows property now owned by James A. Barker and Joseph B. Kirk) is a logical grouping. Using a zoning district as a means of providing a buffer strip is inappropriate. Article XIII, Landscaping and Design Standards has been adopted as part of the Zoning Ordinance and now provides the means to require landscaping and buffers as part of site development. Previous rezonings in which a strip of RG-1 zoning has been removed include the former Paragon site, Fairbanks Plaza, and the proposed sites of Woodland Town Center and Enclave Business Park.

**Conformity with 1985 Comprehensive Plan:**

Land Use Plan: The Land Use Plan designation is I, Industrial. This Land Use Plan designation is consistent with the proposed rezoning.

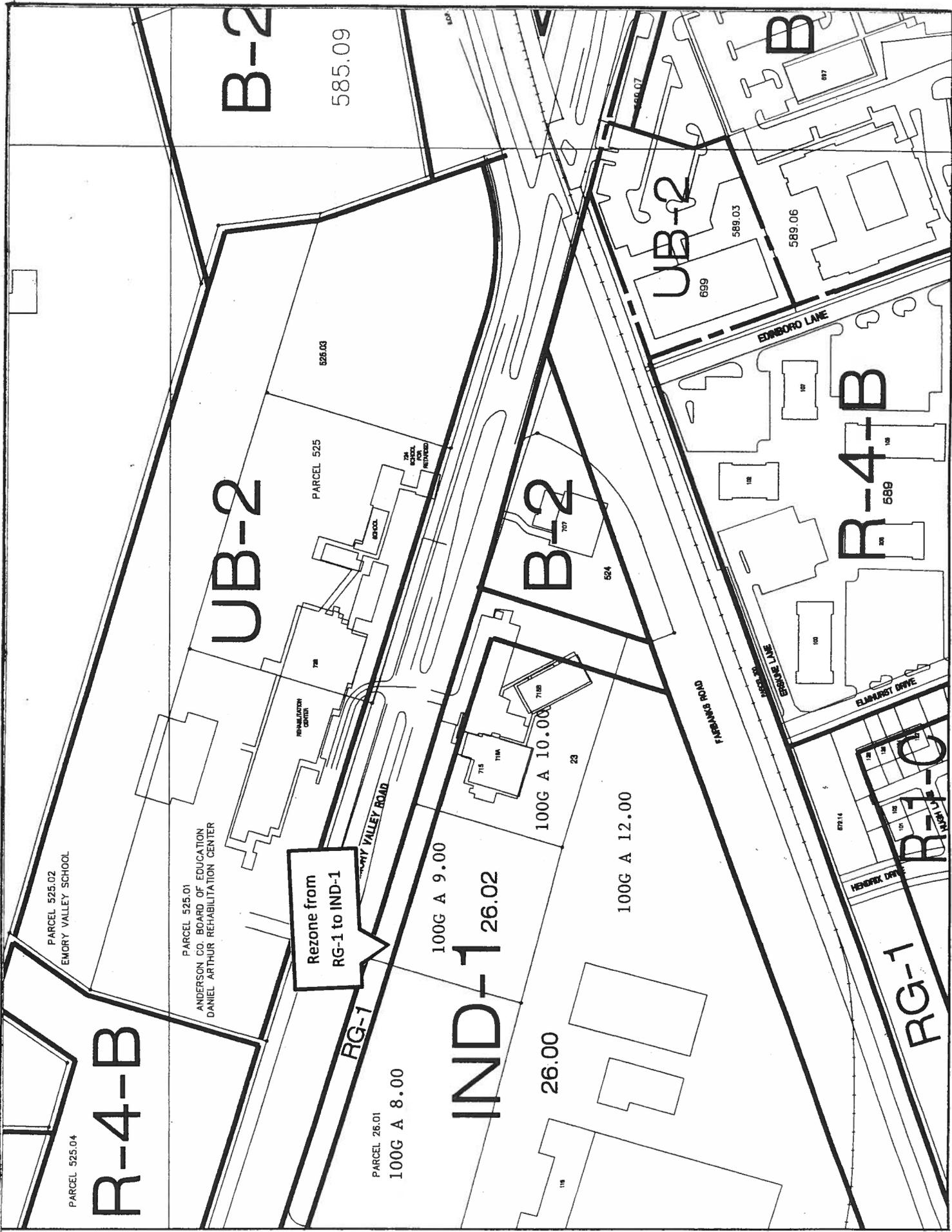
**Impacts of Rezoning:**

Any development must be in compliance with landscaping and buffer requirements in Article XIII, Landscaping and Design Standards of the Zoning Ordinance.

**Zoning Notice Sent:** September 14, 2011.

**Conclusion & Planning Staff Recommendation:** Staff recommends approval of the rezoning. The RG-1 zoning designation is being utilized inappropriately as a buffer strip. The Zoning Ordinance now provides buffer and landscaping requirements in Article XIII as a means of providing for streetscapes and transitions between uses.

**Planning Commission Recommendation:** (September 22, 2011) Recommended approval by a vote of 6-0.



Rezone from  
RG-1 to IND-1

PARCEL 525.04

R-4-B

PARCEL 525.02  
EMORY VALLEY SCHOOL

PARCEL 525.01  
ANDERSON CO. BOARD OF EDUCATION  
DANIEL ARTHUR REHABILITATION CENTER

UB-2

PARCEL 525

B-2  
585.09

RG-1

PARCEL 26.01

100G A 8.00

100G A 9.00

IND-1  
26.02

26.00

100G A 10.00

100G A 12.00

B-2  
707

524

UB-2  
699

589.03

589.06

EMBORO LANE

OTUM PARKWAY

EMORY VALLEY

ELMHURST DRIVE

RG-1

R-7-C

R-4-B  
589

B

**TITLE**

AN ORDINANCE TO AMEND ORDINANCE NO. 2, TITLED "THE ZONING ORDINANCE OF THE CITY OF OAK RIDGE, TENNESSEE," BY AMENDING THE ZONING MAP WHICH IS MADE A PART OF THE ORDINANCE BY CHANGING THE ZONING DISTRICT OF AN APPROXIMATE FIFTY-FOOT-WIDE STRIP CROSSING PARCELS 8.00, 9.00, 10.00, AND 12.00, ANDERSON COUNTY TAX MAP 100G, GROUP A, LOCATED ALONG THE SOUTH SIDE OF EMORY VALLEY ROAD FROM FRANKLIN ROAD HEADING EAST TO THE WEST BOUNDARY OF 707 EMORY VALLEY ROAD, THENCE HEADING SOUTH ALONG THE BOUNDARY LINE ENDING AT THE RIGHT-OF-WAY OF FAIRBANKS ROAD, FROM RG-1, RESIDENTIAL, OPEN SPACE AND RESERVED TO IND-1, INDUSTRIAL.

WHEREAS, the following change has been submitted for approval or disapproval to the Oak Ridge Municipal Planning Commission and the Commission has approved the same; and

WHEREAS, a public hearing thereon has been held as required by law.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF OAK RIDGE TENNESSEE:

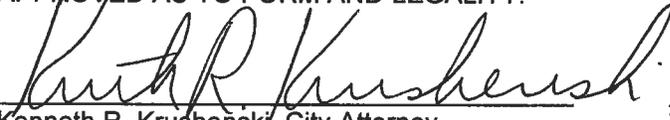
Section 1. The district boundaries of the zoning map attached to and made a part of Ordinance No. 2, as amended, are revised in the following particulars:

<u>Property Description</u>	<u>Location</u>	<u>Present Zoning District</u>	<u>New Zoning District</u>
An approximate fifty-foot-wide strip crossing parcels 8.00, 9.00, 10.00, and 12.00, Anderson County Tax Map 100G, Group A (± 1.55 Acres)	South side of Emory Valley Road from Franklin Road heading east to the west boundary of 707 Emory Valley Road, thence heading south along the boundary line ending at the right-of-way of Fairbanks Road	RG-1, Residential, Open Space and Reserved	IND-1, Industrial

Section 2. The changes shall be imposed upon said map and shall be as much a part of Ordinance No. 2 as if fully described therein.

Section 3. This ordinance shall become effective ten (10) days after adoption on second reading, the welfare of the City of Oak Ridge requiring it.

APPROVED AS TO FORM AND LEGALITY:

  
\_\_\_\_\_  
Kenneth R. Krushenski, City Attorney

\_\_\_\_\_  
Thomas L. Beehan, Mayor

\_\_\_\_\_  
Diana R. Stanley, Acting City Clerk

Public Hearing: 10/10/2011  
Publication Date: 9/23/2011  
First Reading: 10/10/2011  
Publication Date: \_\_\_\_\_  
Second Reading: \_\_\_\_\_  
Publication Date: \_\_\_\_\_  
Effective Date: \_\_\_\_\_

**COMMUNITY DEVELOPMENT MEMORANDUM  
PLANNING DIVISION  
11-67**

DATE: September 26, 2011

TO: Mark Watson, City Manager

FROM: Kathryn G. Baldwin, Community Development Director 

THROUGH: Monica Austin Carroll, AICP, Community Development Division Manager 

RE: **REVISIONS FOR THE ZONING ORDINANCE**

An item for the City Council agenda on October 10, 2011 is revisions to the Zoning Ordinance. The amendments were recommended for approval at the Planning Commission meeting on August 25, 2011 by a vote of 8 – 0 and additional amendments were recommended for approval on September 22, 2011 by a vote of 6 - 0. Over the past few months, Planning staff has identified areas in the Zoning Ordinance that were either not addressed, did not meet the criteria as prescribed in our Zoning Ordinance, or needed clarification. Below is a list of individual provisions that need revisions. The added revisions are identified in bold print and the deletions are identified as the strikethroughs.

●Section 3.18 Temporary Use Permits (d) Outdoor Displays, Sales of Seasonal Foods or Merchandise

3. Such merchandise *and/or sales* shall ~~not be displayed on any sidewalks, walkways, fire lanes, loading areas, driveways, or other vehicle ways that are~~ **be allowed only in designated paved parking areas provided that they do not interfere with essential** for safe vehicular circulation on the site;

**Planning Staff Comment:** This amendment will address outdoor displays, sales, and storage of merchandise within common areas of commercial sites for temporary uses. This amendment will require that the display, sale or storage of such merchandise for the temporary use be conducted within the designated parking areas to prevent utilizing green space or common areas for such display, sale or storage.

●Section 13.01 (a)

The standards which follow translate these purposes into criteria for design. This article also outline the process which applicants must follow to seek approval of their projects by the Oak Ridge Municipal Planning Commission (Planning Commission) and city staff. **Site plan approval expires one year from the final approval date.**

**Planning Staff Comment:** This amendment provides an expiration of approval for site plans. (The intent is to require within one year of approval of the site plan encourage site construction.)

●Section 13.02 (d) Architectural Character 1. Compatibility With Surroundings

The uses of certain materials as the primary exterior building material are prohibited in all commercial, office and multifamily residential (residential with more than four (4) attached housing units) zones **and for all non-residential uses within residential and special district zones.**

**Planning Staff Comment:** This amendment is to provide clarity that the limitations of certain building materials also applies to all non-residential uses within residential zoning districts and within all existing special district zones such as schools, churches, apartments, or offices.

●Section 13.02 (e) Parking Configurations 2. Reduction in Apparent Size and Visibility of Parking Areas

Lines of parking spaces should have a limited run: there shall be no more than 15 contiguous parking spaces between landscaped islands within all commercial, **office, multifamily residential (residential with more than four (4) attached housing units)** zones **and for all non-residential uses within residential and special district zones.**

**Planning Staff Comment:** This amendment is to provide clarity that the limited run of parking spaces also applies to all non-residential uses within residential zoning districts and within all existing special district zones such as schools, churches, apartments or offices.

●Section 13.02 (e) Parking Configurations 3. Design of Parking Configuration Within IND-1, IND-2, and IND-3 Districts

Add the following language:

Within Industrial Districts, parking areas shall have no more than twenty (20) contiguous parking spaces without an intervening landscape island. **80% of all islands shall have at least one (1) tree planted.** Service/delivery areas are to be exempted from the parking configuration requirements. The ratio of Required Landscaped Area per square foot of paved area is eight percent (8%). Basic plantings around the foundation of the building are strongly encouraged and at all entrances into the site. For every 200 square feet of landscaped area, one (1) tree must be planted.

**In no instance shall pavement on any site be closer than five (5) feet from a side or rear lot line, with the exception of a joint access easement.**

**Planning Staff Comment:** This amendment is to provide consistency that parking lot guidelines are the same for commercial sites and industrial sites.

●Section 13.02 (f) Landscape 2. Streetscape

In an effort to minimize the visual impact of parking areas in commercial, office, and multifamily residential (residential with more than four (4) attached housing units) zoning districts, shrub rows shall be planted within the Streetscape area at a minimum height of three (3) ~~feet~~ **feet** high along the boundaries of any parking area visible from public **or private** streets. Species used shall be evergreen or have dense branching qualities, which provide an effective visual screen in all seasons. Consideration may be given to shrubs with 30-inch height in certain locations, based on species.

**Planning Staff Comment:** This amendment addresses parking lots that abut private streets but are visible from public streets. This amendment requires that the parking lots be screened along the boundaries of both public and private streets.

●Section 13.02 (f) 4. Maintenance (4)

In all ~~O-1 and O-2 Office Districts and B-2, UB-2 and B-3 Commercial Districts~~ *office, commercial, multi-family residential (residential with more than (4) attached housing units) zones, and for all non-residential uses within residential and special district zones*, either a permanent irrigation system shall be installed or a maintenance bond shall be posted for ~~the first year~~ *two years* from the date of the issuance of the Certificate of Occupancy. For all lots on which impervious surfaces, excluding structures, exceeds 7,500 square feet, the irrigation system shall be designed to provide total water coverage to all required planting beds. A plumbing permit must be obtained prior to beginning any installation. In the event a moratorium on water usage is declared this requirement will be suspended for the length of the moratorium.

**Planning Staff Comment:** This amendment will require that all site plans either install an irrigation system for the landscaping or post a maintenance bond for two (2) years from the date of the issuance of the Certificate of Occupancy.

●Section 13.02 (h) 2. Site and Parking Area Lighting

In office zone districts, multifamily residential uses (residential with more than four (4) attached housing units), *and for all non-residential uses within residential and special district zones* the maximum lighting height shall be 24 feet. In all commercial zone districts the maximum lighting height shall be 30 feet. Lighting fixtures should be compatible in style with associated buildings. For non-residential uses in residential districts the maximum height shall be 24 feet.

**Planning Staff Comment:** This amendment is to provide clarity that the height restriction for outdoor lighting also applies to all non-residential uses within residential zoning districts and within all existing special district zones such as schools, churches, apartments, or offices.

●Section 14.05 General Requirements

4. Temporary signs, as defined in this article, shall be allowed in all other zoning districts only for special events such as, but not limited to, art and cultural events; recreation and sporting events; city, county or state sponsored events; and appertaining to campaigns, drives or events of civic, philanthropic, educational or religious organizations. This section shall also apply to all non-profit organizations in all zoning districts. Permits for such signs shall not exceed thirty (30) consecutive days. Such signs shall be allowed to be displayed the week prior to the individual special event and removed two (2) days after cessation of the individual special event. Signs may be interchanged to advertise individual activities throughout the thirty (30) day period. Temporary signs shall be non-illuminated and shall not exceed thirty-two (32) square feet of surface display area. One (1) temporary sign on-site and three (3) temporary off-site signs for special scheduled recreation and sporting events shall be allowed. Off-site signs shall not be placed within any public rights-of-way unless written permission is granted by the City and shall be removed the Monday following the scheduled event. Only one (1) permit shall be issued for a given place of business, *school or church* during any ~~four (4)~~ *three (3)* month

period. Temporary signs for athletic facilities/fields are defined in Section 14.07.

**Planning Staff Comment:** This amendment increases the number of temporary signs allowed per calendar year from three (3) to four (4).

●Section 14.06 Signs Allowed in All Districts (Exempt Signs)

8. Real estate marketing *or auction* signs provided that only one (1) non-illuminated sign per lot except where the lot fronts two (2) or more streets, one (1) additional sign per lot per street frontage shall be allowed; the total surface display area not to exceed thirty-two (32) square feet for non-residential (commercial and industrial zoning districts), sixteen (16) square feet for office-institutional zoning districts and six (6) square feet for residential zoning districts; shall not be over eight (8) feet in height measured from the ground level; may remain on the property the length of the sale and shall be removed ten (10) business days after the sale; and sign shall be maintained in good condition. A freestanding sign designed to be viewed from two (2) different directions shall be considered as one (1) sign, provided that the two (2) sign faces are parallel (back-to-back), mounted on the same support structures, and neither side exceeds 16 (sixteen) square feet. For all two-sided signs not mounted parallel (back-to-back), the total surface display area shall not exceed 16 (sixteen) square feet.

Signs for advertising open houses, including directional signs, shall be allowed three (3) days prior to the open house and removed the day after the open house. Note: Off-site directional signs are only allowed for the advertising of an open house and not for the sale of the house or place of business.

**Planning Staff Comment:** This amendment is to provide clarity that the regulations for real estate marketing signs are also applicable to auction signs.

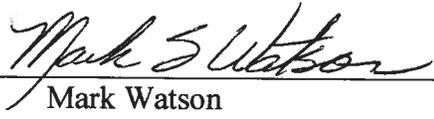
●Section 16.12 (a) Uses Requiring Planning Commission Approval

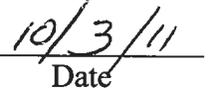
All proposed uses of a parcel/lot in the UB-2, B-1, O-2 and MH-1 zoning districts, except as identified in Sections 16.13 and 16.14 of this ordinance, shall only be permitted after a site plan showing the proposed development of the parcel/lot is reviewed by the City Manager for compliance with all ordinances and regulations and is approved by the Oak Ridge ~~Regional~~ **Municipal** Planning Commission.

**Planning Staff Comment:** This amendment is considered “housekeeping” and corrects a previous omission when the title of the Planning Commission was changed.

**City Manager's Comments:**

I have reviewed the above issue and recommend Council action as outlined in this document.

  
Mark Watson

  
Date

TITLE

AN ORDINANCE TO AMEND ORDINANCE NO. 2, TITLED "THE ZONING ORDINANCE OF THE CITY OF OAK RIDGE, TENNESSEE, BY AMENDING SECTION 3.18, TITLED "TEMPORARY USE PERMITS," SUBSECTION (D)(3) TO CLARIFY THAT SALES ARE PERMITTED IN PAVED PARKING AREAS PROVIDED IT DOES NOT INTERFERE WITH VEHICULAR CIRCULATION ON THE SITE; SECTION 13.01, TITLED "INTRODUCTION," SUBSECTION (A) TO ADD THAT SITE PLAN APPROVAL EXPIRES ONE YEAR FROM THE FINAL APPROVAL DATE; SECTION 13.02, TITLED "DESIGN REVIEW STANDARDS," SUBSECTIONS (D)(1), (E)(2), AND (H)(2) TO EXPAND THE APPLICABLE ZONES; SECTION 13.02, TITLED "DESIGN REVIEW STANDARDS," SUBSECTION (E)(3) TO PLACE A REQUIREMENT ON TREE PLANTING IN ISLANDS AND TO PLACE A PAVEMENT DISTANCE FROM REAR AND SIDE LOT LINES; SECTION 13.02, TITLED "DESIGN REVIEW STANDARDS," SUBSECTIONS (F)(2) TO REQUIRE SHRUB ROWS TO BE PLANTED TO SCREEN A PARKING LOT THAT CAN BE VIEWED FROM A PRIVATE STREET AND NOT JUST A PUBLIC STREET; SECTION 13.02, TITLED "DESIGN REVIEW STANDARDS," SUBSECTION (F)(4)(A)(4) TO EXPAND THE APPLICABLE ZONES AND TO REQUIRE THE MAINTENANCE BOND TO BE POSTED FOR TWO YEARS INSTEAD OF ONE IF A PERMANENT IRRIGATION SYSTEM HAS NOT BEEN INSTALLED; SECTION 14.05, TITLED "GENERAL REQUIREMENTS," PART (4) TO INCLUDE SCHOOLS AND CHURCHES AS A BUSINESS THAT CAN BE ISSUED A TEMPORARY PERMIT AND TO LIMIT THE NUMBER OF PERMITS TO ONE DURING ANY THREE MONTH PERIOD INSTEAD OF ONE DURING ANY FOUR MONTH PERIOD; SECTION 14.06, TITLED "SIGNS ALLOWED IN ALL DISTRICTS (EXEMPT SIGNS)," PART (8) TO INCLUDE AUCTION SIGNS; AND SECTION 16.12, TITLED "USES REQUIRING PLANNING COMMISSION APPROVAL," SUBSECTION (A) TO CORRECT THE REFERENCE TO THE OAK RIDGE MUNICIPAL PLANNING COMMISSION.

WHEREAS, the City of Oak Ridge is continually reviewing the Zoning Ordinance to update provisions and make it more understandable to the general public; and

WHEREAS, the amendments will update the Zoning Ordinance to address items that were absent, did not meet the prescribed criteria, and were in need of clarification; and

WHEREAS, the following changes have been submitted for approval or disapproval to the Oak Ridge Municipal Planning Commission and the Commission has approved the same; and

WHEREAS, a public hearing thereon has been held as required by law.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF OAK RIDGE, TENNESSEE:

Section 1. Ordinance No. 2, titled "The Zoning Ordinance of the City of Oak Ridge, Tennessee," Section 3.18, titled "Temporary Use Permits," Subsection (d), titled "Outdoor Displays, Sales of Seasonal Foods or Merchandise," is hereby amended by deleting Part (3) in its entirety and substituting therefor a new Part (3), which new part shall read as follows:

**Section 3.18. Temporary Use Permits**

(d) Outdoor Displays, Sales of Seasonal Foods or Merchandise

3. Such merchandise and/or sales shall be allowed only in designated paved parking areas provided that they do not interfere with safe vehicular circulation on the site;

Section 2. Ordinance No. 2, titled "The Zoning Ordinance of the City of Oak Ridge, Tennessee," Section 13.01, titled "Introduction," Subsection (a), titled "Basis for the Standards," is hereby amended by adding a new sentence to the end of the stand alone, un-numbered paragraph, which new sentence shall read as follows:

**Section 13.01. Introduction**

(a) Basis for the Standards

.... Site plan approval expires one year from the final approval date.

Section 3. Ordinance No. 2, titled "The Zoning Ordinance of the City of Oak Ridge, Tennessee," Section 13.02, titled "Design Review Standards," Subsection (d), titled "Architectural Character," Part (1), titled "Compatibility With Surroundings," is hereby amended by adding on to the first sentence of the third paragraph, which addition shall read as follows:

**Section 13.02. Design Review Standards**

(d) Architectural Character

1. *Compatibility With Surroundings.*

... and for all non-residential uses within residential and special district zones.

Section 4. Ordinance No. 2, titled "The Zoning Ordinance of the City of Oak Ridge, Tennessee," Section 13.02, titled "Design Review Standards," Subsection (e), titled "Parking Configurations," Part (2), titled "Reduction in Apparent Size and Visibility of Parking Areas," is hereby amended by adding on to the first sentence of the fourth paragraph, which addition shall read as follows:

**Section 13.02. Design Review Standards**

(e) Parking Configurations

2. *Reduction in Apparent Size and Visibility of Parking Areas.*

..., office, multifamily residential (residential with more than four (4) attached housing units) zones and for all non-residential uses within residential and special district zones.

Section 5. Ordinance No. 2, titled "The Zoning Ordinance of the City of Oak Ridge, Tennessee," Section 13.02, titled "Design Review Standards," Subsection (e), titled "Parking Configurations," is hereby amended by deleting Part (3), titled "Design of Parking Configuration Within IND-1, IND-2, and IND-3 Districts," in its entirety and substituting therefor a new Part (3) of the same title, which part shall read as follows:

**Section 13.02. Design Review Standards**

(e) Parking Configurations

3. *Design of Parking Configuration Within IND-1, IND-2, and IND-3 Districts.*

Within Industrial Districts, parking areas shall have no more than twenty (20) contiguous parking spaces without an intervening landscape island. Eighty percent (80%) of all islands shall have at least one (1) tree

planted. Service/delivery areas are to be exempted from the parking configuration requirements. The ratio of Required Landscaped Area per square foot of paved area is eight percent (8%). Basic plantings around the foundation of the building are strongly encouraged and at all entrances into the site. For every 200 square feet of landscaped area, one (1) tree must be planted.

In no instance shall pavement on any site be closer than five (5) feet from a side or rear lot line, with the exception of a joint access easement.

Section 6. Ordinance No. 2, titled "The Zoning Ordinance of the City of Oak Ridge, Tennessee," Section 13.02, titled "Design Review Standards," Subsection (f), titled "Landscape," Part (2), titled "Streetscape," is hereby amended by adding the phrase "or private" between the words "public" and "street" in the first sentence of the last paragraph.

Section 7. Ordinance No. 2, titled "The Zoning Ordinance of the City of Oak Ridge, Tennessee," Section 13.02, titled "Design Review Standards," Subsection (f), titled "Landscape," Part (4), titled "Maintenance," is hereby amended by deleting Subpart (a)(4) in its entirety and substituting therefor a new Subpart (a)(4), which subpart shall read as follows:

**Section 13.02. Design Review Standards**

(f) Landscaping

4. *Maintenance.*

- (a)(4) In all office, commercial, multi-family residential (residential with more than (4) attached housing units) zones, and for all non-residential uses within residential and special district zones, either a permanent irrigation system shall be installed or a maintenance bond shall be posted for two years from the date of the issuance of the Certificate of Occupancy. For all lots on which impervious surfaces, excluding structures, exceeds 7,500 square feet, the irrigation system shall be designed to provide total water coverage to all required planting beds. A plumbing permit must be obtained prior to beginning any installation. In the event a moratorium on water usage is declared this requirement will be suspended for the length of the moratorium.

Section 8. Ordinance No. 2, titled "The Zoning Ordinance of the City of Oak Ridge, Tennessee," Section 13.02, titled "Design Review Standards," Subsection (h), titled "Lighting," Part (2), titled "Site and Parking Area Lighting," is hereby amended by adding the phrase "and for all non-residential uses within residential and special district zones" immediately after the parenthetical language in the first sentence of the second paragraph.

Section 9. Ordinance No. 2, titled "The Zoning Ordinance of the City of Oak Ridge, Tennessee," Section 14.05, titled "General Requirements," Part (4), is hereby amended by deleting the second to last sentence in its entirety and substituting therefor a sentence, which new sentence shall read as follows:

**Section 14.05. General Requirements**

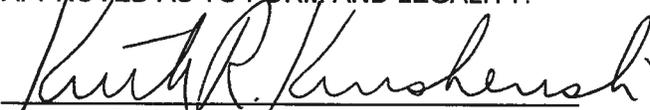
4. ... Only one (1) permit shall be issued for a given place of business, school or church during any three (3) month period. ...

Section 10. Ordinance No. 2, titled "The Zoning Ordinance of the City of Oak Ridge, Tennessee," Section 14.06, titled "Signs Allowed in All Districts (Exempt Signs)," Part (8), is hereby amended by adding the phrase "or auction" between the words "marketing" and "sign" in the first sentence of the first paragraph.

Section 11. Ordinance No. 2, titled "The Zoning Ordinance of the City of Oak Ridge, Tennessee," Section 16.12, titled "Uses Requiring Planning Commission Approval," Subsection (a) is hereby amended by deleting the word "Regional" and replacing it with the word "Municipal."

Section 12. This ordinance shall become effective ten (10) days after adoption on second reading, the welfare of the City of Oak Ridge requiring it.

APPROVED AS TO FORM AND LEGALITY:

  
\_\_\_\_\_  
Kenneth R. Krushenski, City Attorney

\_\_\_\_\_  
Thomas L. Beehan, Mayor

\_\_\_\_\_  
Diana R. Stanley, Acting City Clerk

Public Hearing: 10/10/2011  
Publication Date: 9/23/2011  
First Reading: 10/10/2011  
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Second Reading: \_\_\_\_\_  
Publication Date: \_\_\_\_\_  
Effective Date: \_\_\_\_\_

**ELECTIONS**  
**&**  
**APPOINTMENTS**  
**ANNOUNCEMENTS**  
**SCHEDULING**

**CITY CLERK MEMORANDUM**

**11-46**

**DATE:** September 29, 2011

**TO:** Honorable Mayor and Members of City Council  
Mark S. Watson, City Manager

**FROM:** Diana R. Stanley, Acting City Clerk

**SUBJECT:** NOTICE OF ELECTIONS FOR BOARDS AND COMMISSIONS

The City Clerk's Office has compiled a list of current vacancies and upcoming (December 31, 2011) vacancies for Boards, Commissions, and Committees. These vacancies will be filled at the end-of-year elections as outlined in Resolution No. 2-8-11 that simplified the election process and set all membership terms (with the exception of student members) to terminate December 31.

The City Manager has proposed to have the elections/appointments take place during a Special Meeting of City Council on Monday, December 19, 2011. Using this proposed date, the following deadlines are being proposed for the application process. The deadline for applicants would be Monday, November 21, 2011 by 5:00 p.m. City Council would receive a report, including applications and/or resumes from interested citizens from the City Clerk on Monday, December 5, 2011, by 5:00 p.m.

Following the October 10, 2011 City Council Meeting, the City Clerk's Office will begin a campaign to generate interest in the community regarding the election, as well as disseminate information. This campaign will include notices in the official city newspaper, press releases, website posts, and speaking engagements.

A list of members whose terms are expiring is available on the City Clerk's Departmental Website under "View Boards and Commissions Vacancies."

  
Diana R. Stanley

Attachments

## Boards, Commissions, and Committee List of Current and Upcoming Vacancies

Board, Commission, or Committee	Number of Vacancies	Term Length	Board Qualifications
Beer Permit Board	2	(1) December 31, 2012 (1) December 31, 2014	Members must be at least twenty-two (22) years old and have been residents of Oak Ridge for at least two (2) years.
Board of Building and Housing Code Appeals	2	December 31, 2014	The Board is composed of seven (7) members consisting of the following: one physician or person from a health-related field, one architect or engineer, one building related contractor or building supply dealer, one realtor, and three members from the public-at-large. However, if no individuals meeting these criteria apply for appointment, the Council may appoint persons who do not possess such qualifications. (NOTE: The vacancies are for one building related contractor or building supply dealer and the other is from the public-at-large.)
Convention and Visitors Bureau	4	(1) December 31, 2012 (3) December 31, 2014	The Convention and Visitors Bureau Board of Directors is composed of ten (10) members as follows: seven (7) members shall be public-at-large, two (2) members shall be the general managers of the top local hotel/motel establishments based upon actual hotel/motel establishments based upon actual hotel/motel occupancy collections, and one (1) member shall be the general manager of one of the remaining local hotel/motel establishments. All at-large board members shall be residents of the City of Oak Ridge. The local hotel/motel establishments' general manager board members are not required to be residents of the City of Oak Ridge, but may not serve in an officer capacity unless they are a resident of the City of Oak Ridge. (NOTE: The vacancies are for the public-at-large)
Elder Citizens Advisory Board	5	(1) December 31, 2012 (4) December 31, 2014	The Board is composed of eleven (11) members and includes one (1) representative each from the American Association of Retired Persons, National Association of Retired Federal Employees, Retired Teachers Association, Senior Citizens Club, The 43 Club, the Anderson County Council on Aging, the Anderson County Adult Safety Coalition and Elder Watch, and the Coalition of Oak Ridge Retired Employees (CORRE). The remaining three (3) members are elected from the public-at-large. (NOTE: The vacancies are for the following: Oak Ridge Retired Teachers Association; American Association of Retired Persons, Oak Ridge Chapter; The 43 Club; and the remaining positions of from the public-at-large.)

Board, Commission, or Committee	Number of Vacancies	Term Length	Board Qualifications
Environmental Quality Advisory Board	6	(2) December 31, 2013 (4) December 31, 2014	The Board is comprised of twelve (12) members, one (1) of whom shall be nominated from the membership of the Oak Ridge Municipal Planning Commission and two (2) of whom shall be Oak Ridge High School (ORHS) students. (NOTE: One of the vacancies shall be nominated from the membership of the Oak Ridge Municipal Planning Commission.)
Health and Educational Facilities Board	3	December 31, 2013	<i>No Special Qualifications</i>
Highland View Redevelopment Advisory Board	1	November 2012	The Board is comprised of nine (9) members as follows: the Mayor or the Mayor's City Council designee, a member of the Oak Ridge Municipal Planning Commission who shall be designated by the Mayor and confirmed by City Council, and seven (7) members from the public-at-large with at least three (3) of those members being residents of the Highland View neighborhood. The members from the community at large shall include a social service representative, a contractor with renovation and/or remodeling experience, a realtor, an attorney, a home inspector, a banker or individual with similar financial expertise, and an individual with a background in public relations; however, if no individuals meeting these criteria apply for appointment, Council may appoint persons who do not possess such qualifications. (NOTE: The vacancy is for the Mayor or the Mayor's City Council designee.)
Oak Ridge Housing Authority	1	December 31, 2016	<i>No Special Qualifications</i>
Oak Ridge Municipal Planning Commission	2	December 31, 2014	The Board is comprised of ten (10) members as follows: the Mayor or the Mayor's designee, a member of Council, and the remaining eight (8) members are public-at-large. (NOTE: One of the vacancies is to be filled by a member of Council and the other is the Mayor's designee.)
Personnel Advisory Board	2	December 31, 2014	<i>No Special Qualifications</i>
Traffic Safety Advisory Board	4	(2) December 31, 2013 (2) December 31, 2014	The Board is comprised of ten (10) members, one of whom shall be nominated from the membership of the Oak Ridge Municipal Planning Commission and one of whom shall be an Oak Ridge High School (ORHS) student. (NOTE: The vacancies are to be filled from the public-at-large.)
Board of Zoning Appeals	1	December 31, 2016	<i>No Special Qualifications</i>

Board, Commission, or Committee	Number of Vacancies	Term Length	Board Qualifications
Anderson County Community Action Commission	1	December 31, 2012	One (1) seat is reserved for a Council appointee who must be an Oak Ridge resident and may be a member of Council. (NOTE: The current appointee whose term expires December 31, 2011 is Edward Alan Beauchamp.)
Anderson County Development Corporation	2	(2) Coextensive with Mayor's term	The Board of Directors is composed of nine (9) members, including the County Executive of Anderson County, the Mayors of Oak Ridge and Clinton, the chairpersons of the Oak Ridge Chamber of Commerce and the Anderson County Economic Development Association, four (4) citizens or residents of Anderson County, two (2) appointees of the Anderson County Commission, and two (2) members appointed by City Council who are Oak Ridge residents. (NOTE: The current appointees whose terms expire December 31, 2011 are David R. Bradshaw and Louise B. Dunlap.)
Anderson County Economic Development Association	2	(1) December 31, 2013 (1) December 31, 2015	The City is allocated four (4) of the twenty-five (25) seats on the Board of Directors. Council has elected to have the Mayor serve as one of the four (4) appointments, with the other three (3) appointments being at-large from Oak Ridge residents or members of Council. (NOTE: The current appointee whose term expires December 31, 2011 is Leonard A. Abbatiello. The committee also has a vacancy as a result of Gerald L. Cooksey, Jr. resignation.)
Anderson County Tourism Council	1	December 31, 2012	The Tourism Council's Advisory Board includes representatives from the municipalities within the county. Pursuant to its bylaws, the representative must be either the Mayor, City Manager, or an appointee decided upon by the Mayor or City Manager. (NOTE: The current appointee whose term expires December 31, 2011 is Councilwoman D. Jane Miller.)