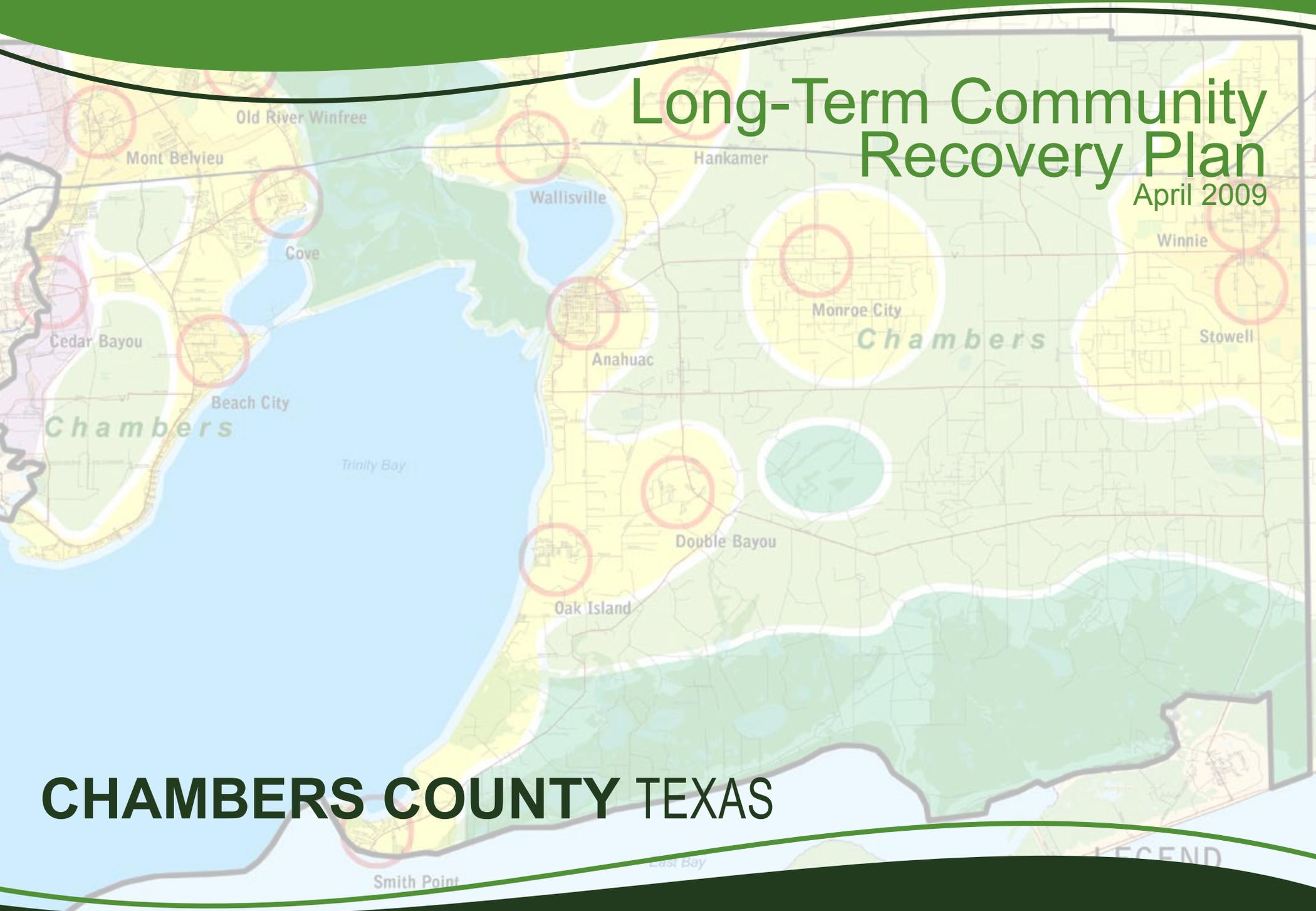


# Long-Term Community Recovery Plan

April 2009



**CHAMBERS COUNTY TEXAS**

LEGEND



# Long-Term Community Recovery Plan

April 2009

## CHAMBERS COUNTY, TEXAS





Long-Term Community Recovery (LTCR) Plan is a community-based initiative, which was led by the Chambers County Long-Term Community Recovery Steering Committee, now known as the Chambers Recovery Team (ChaRT). Federal, state and local partners provided support to ChaRT during the planning process. The lead federal agency in this process has been Emergency Support Function 14 (ESF-14), a unit of the Federal Emergency Management Agency (FEMA). The primary mission of ESF-14 has been to facilitate the recovery planning process and to provide technical assistance to community members.

The goal of the long-term community recovery planning process has been for the residents and community leaders of Chambers County to take a “big-picture” look at their recovery from Hurricane Ike. When a community has been devastated by disaster, community members can become so busy dealing with response to immediate needs and individual issues that they don’t take time to consider potential opportunities to build back better. ESF-14 helps the community take that time and to focus on community recovery for long-term sustainability.

In the wake of Hurricane Ike, members of the ESF-14 team met with Chambers County representatives to discuss Long-Term Community Recovery planning and offer recovery assistance. The Chambers County Commissioners Court responded by creating the Chambers County Long-Term Community Recovery Steering Committee (Committee). The Committee was comprised of county-wide representation in order to pursue county-wide recovery planning.

Working alongside the Committee, the ESF-14 team introduced the recovery planning process and provided technical assistance for moving the process forward. The Committee then shaped the process with their local knowledge and expertise to make it their own. After several meetings over a short time period, the Committee created a nonprofit group called the Chambers Recovery Team and the Committee became known by the acronym ChaRT. ESF-14 continued to support the community-driven planning process led by ChaRT. The results of this collaboration are captured in this Chambers County Long-Term Community Recovery Plan.

ChaRT coordinated a series of Public Involvement meetings to crystallize an intensively community-driven planning process. More than 10 community meetings were held over a two-month period to establish community buy-in for the recovery planning process. As a first step, community members identified their issues and concerns and opportunities for recovery. The committee and its subcommittees and working groups then crafted a series of projects that addressed these issues, concerns, and opportunities. In a second round of meetings the community provided feedback on the projects to identify the priorities for recovery.

Out of the Public Involvement meetings, over 100 projects were developed. Because there was significant overlap in some of the project descriptions, efforts were made to consolidate similar projects for ease in navigating the Plan. The projects are grouped into the same sectors that were utilized during the Community Involvement meetings. The sectors correspond with the Table of Contents and include: Community Development; Community Facilities & Infrastructure; Economics & Industry; Education; Health & Human Services; and Coastal Area Restoration & Improvements.

Both the projects and the overall LTCR Plan capture the vision and needs of local residents. Thus, the LTCR Plan is reflective of the community-driven planning process undertaken by ChaRT. Further, the LTCR Plan highlights the unique culture, as well as the capacities, of Chambers County as revealed during the recovery planning process.

# ACKNOWLEDGEMENTS

## **Elected Officials**

Jimmy Sylvia  
Mark Huddleston  
David “Bubba” Abernathy  
Gary R. Nelson  
W.O. “Bill” Wallace Jr.  
Heather Hawthorne  
Guy R. Jackson  
Lee Wiley  
Nick Dixon  
Guido Persiani  
Joe Landry

County Judge  
Commissioner Precinct 1  
Commissioner Precinct 2  
Commissioner Precinct 3  
Commissioner Precinct 4  
County Clerk  
Mayor Anahuac  
Mayor Cove  
Mayor Mont Belvieu  
Mayor Beach City  
Mayor Old River - Winfree

## **Chambers Recovery Team (ChaRT)**

### **Guy Jackson, Chair**

Bob Pascasio  
Guido Persiani  
Lee Wiley  
Doris Nelson  
Mark A. Pagels  
Monica Olivier  
Melissa Hodges

Artie Presley  
Fred Anderson  
Jennifer Anderson

### **Alternates**

Vicki Pascasio  
Jacque White

### **Key Informers**

Bobby J. Wheat  
Jerry Sparks  
Sidney Lewis  
Nancy Hempel  
Eddie Schauburger  
Bryan Easum  
Terrie Looney  
Colonel David Weston  
Richard Medina  
Tom Wendorf  
Richard Long  
Pudge Willcox  
Kit Jones  
Dennis Mangioni  
Jennifer Anderson  
Mark A. Pagels  
Bill White  
Paula Wise  
Linda Shead  
Barbara Boutte  
Jacque White  
James Blue

Chairman Historical Commission  
Chambers County Auditor  
Chambers County Environmental Protection  
Anahuac City Secretary  
Oak Island Pastor  
City Manager Mont Belvieu  
Texas Sea Grant Extension  
US Army Corps of Engineers Galveston District  
US Army Corps of Engineers Galveston District  
HNTB Corporation  
Corps of Engineers Wallisville Lock and Dam  
Retired Professional  
General Manager, Trinity Bay Conservation District (TBCD)  
FEMA  
Smith Point Resident  
Oak Island Resident  
Rancher  
US Army Corps of Engineers Galveston District  
Program Director, Trust for Public Land  
Double Bayou Resident  
Smith Point Resident  
Double Bayou Resident

For more information on the  
Chambers Recovery Team (ChaRT)  
visit [www.ChaRTTx.org](http://www.ChaRTTx.org)  
or email at [chart@chartx.org](mailto:chart@chartx.org)

# ACKNOWLEDGEMENTS

## Chambers Recovery Team (ChaRT) Subcommittee Members

### Healthcare & Emergency Services Subcommittee

**Robert A. Pascasio,**  
Vicki Pascasio

### Healthcare Providers Working Group

Debra Miesch  
Linda Bennett, RN  
Clay Brown MD  
Shalia Hampton  
Linda A. Jackson  
Sharon Burgess, RN  
Sidney Lewis  
Danny Thompson  
Dave Wilcox  
Sarah Vo  
Pierre Legé  
Tommy Willcox

### Emergency Services

#### Working Group

Kaye Cormier  
Bruce Corner  
Tracey Lippe  
Dean Baker  
Bruce Oliphant  
Kenny Baumbach  
Adam Aiken  
John Hollaway  
Wayne Price  
John Fendley  
Joe Booze  
Nolan George

Lenard Bettis  
Ryan Holzaepfel  
Mike Wheat  
Allen Meek  
Ruth Millsaps  
Gloria Moore  
Joe LaRive

### Trinity Bay Restoration Subcommittee

#### Pudge Willcox

Eddie Seidensticker  
Guido Persiani  
Terrie Looney  
Mary Beth Stengler  
Pam Hopper  
Amy Turner  
Linda Shead  
Tracy Woody  
Steve Wilson  
Gloria Moore

### Education Subcommittee

#### Dr. Greg Poole

Dr. Murphy  
Dr. Linda K. Barnhart  
Scott Campbell  
Pete Cote  
Sandra Duree  
Laura Acosta

### Community Development Subcommittee

#### Bill Cobabe

David Martin  
Sam Glass  
Darlene Pagels  
Eddie Schauburger  
Norman Pasche  
Donna Pasche  
Stephen Wilson  
Belinda Blue  
Mark Ables  
Keith Hall  
Kevin Yeager  
Kathy Tran  
Bobby Wheat  
Allen Meek  
Ammaron Stone  
Barbara Boutte  
Cleon Carraway  
Gene Dagley  
Larry Hope  
Fred Anderson  
Jennifer Anderson  
Jeri Nelson

### Economics & Industry Subcommittee

#### B.J. Simon

Melissa Malechek  
Robbie King  
Melissa Hodges  
Sarah Cerrone  
Tyler Fitzgerald  
Steve McCorgoodale

### Agriculture Subcommittee

#### Bill White

Steven White  
LeRoy Ezer  
Steve Devillion  
James Gantz  
Dan Edwards  
Tommy Gilbert  
Bobby Edwards  
Tyler Fitzgerald  
Will Beaty  
Aubrey Jones  
H.A. "Peanut" Gilfillian  
Toni Spencer  
Bobby Way

### Infrastructure Subcommittee

#### Buddy Johnson

Eddie Seidensticker  
Mary Beth Stengler  
Don Brandon  
Charles Johnson  
Anh Hoang Do  
Danny Pringle  
Allen Sims  
Larry Jordan  
Dan Syphrett  
James Blue  
Fred Anderson  
Barbara Boutte  
Steve Wilson



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# LETTERS OF SUPPORT

## RESOLUTION CREATING CHAMBERS COUNTY LONG-TERM RECOVERY COMMITTEE

WHEREAS, The Commissioners Court of Chambers County, Texas shall appoint a long-term recovery committee; and

WHEREAS, The purpose is to form a long-term recovery committee related to damages and impacts resulting from Hurricane Ike; and

WHEREAS, Committee shall serve county-wide purposes, working with federal, state and local partners as needed; and

WHEREAS, Each county commissioner shall have at least one representative on the committee; and

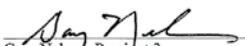
WHEREAS, The mayor of Anahuac shall serve as Chair of the committee and sub-committees may be created as needed upon determination by the chair.

PASSED this the 13<sup>th</sup> day of January, 2009.

### CHAMBERS COUNTY COMMISSIONERS COURT

  
Mark Huddleston, Precinct 1  
*Pro Tem*

Mark Huddleston, Precinct 1

  
Gary Nelson, Precinct 3

*Absent*  
David A. Abernathy, Precinct 2

  
Bill Wallace, Precinct 4

ATTEST:

  
Heather H. Hawthorne  
County Clerk



the office of  
THE COUNTY JUDGE  
JIMMY SYLVIA



POST OFFICE BOX 939  
TELEPHONE:  
409/267-2440  
FAX: 409/267-4453

THE COUNTY OF CHAMBERS  
ANAHUAC, TEXAS 77514

April 15, 2009

Dear Citizens of Chambers County:

As we all know, Hurricane Ike which hit the Texas coast on Saturday September 13, 2008 as a category 2 storm brought widespread damage to Chambers County. Wind speed of more than 110 MPH and a storm surge of more than 20 feet left widespread destruction and greatly impacted our communities and industries such as ranching, farming, marine trades, eco-tourism, housing and retail.

We have slowly begun the long process of recovery. Most of our citizens that are in temporary housing are underway with rebuilding and repair plans for their damaged homes. We are continuing to work on debris removal and working to restore our services and facilities to pre-storm conditions.

We have now begun to focus some energy on the long term recovery effort. The Chamber's County Commissioner's Court resolution to form a long term community recovery committee was a major step in that direction. ChaRT and its committees and with the participation of the communities of Winnie-Stowell, Anahuac, Cove, Beach City, Hankamer, Oak Island/Double Bayou, Smith Point and Mont Belvieu have given Chambers County a road map to follow to recover from IKE and any future disaster.

I would like to thank all the members and leaders of ChaRT that have helped move the recovery process forward. The plan is just the beginning. We will need the support of all to continue the recovery process. I pledge my commitment and support for the recovery planning process and look forward to working with everyone to make Chambers County a better place to live and work.

Sincerely,

  
Jimmy Sylvia  
County Judge  
Chambers County

# LETTERS OF SUPPORT



Chambers County Commissioner Precinct Number One  
MARK HUDDLESTON

P.O. Box 260  
Winnie, Texas 77665

Telephone 409/296-8250  
Fax 409/296-3228

April 15, 2009

Dear Citizens of Chambers County:

The effects of the disastrous storm, Hurricane Ike, left our community tremendously devastated. Not only did it affect our families but had great impact on the ranching, farming and marine industries in Chambers County.

Even though we know the recovery process will be long and tedious our community stands hopeful that the continued support will be there for them to restore their future. Now that the long term recovery process is underway I send many thanks and appreciation to all members and committees of ChaRT.

I also pledge my commitment and support for the recovery planning process and am hopeful in making Chambers County a better place to live and work. I am also looking forward to working with everyone and being involved with every aspect of the recovery process.

Sincerely,

A handwritten signature in cursive that reads "Mark Huddleston".  
Mark Huddleston



the office of  
COUNTY COMMISSIONER  
PRECINCT TWO  
DAVID "BUBBA" ABERNATHY

THE COUNTY OF CHAMBERS  
ANAHUAC, TEXAS 77514

POST OFFICE BOX 430  
TELEPHONE:  
409/257-5345  
FAX: 409/257-6585

April 14, 2009

Dear Citizens and Neighbors of Chambers County:

The recovery from the devastation of Hurricane Ike has been a grueling and sometimes seeming insurmountable task, but with the continued efforts by everyone involved there is light at the end of the tunnel.

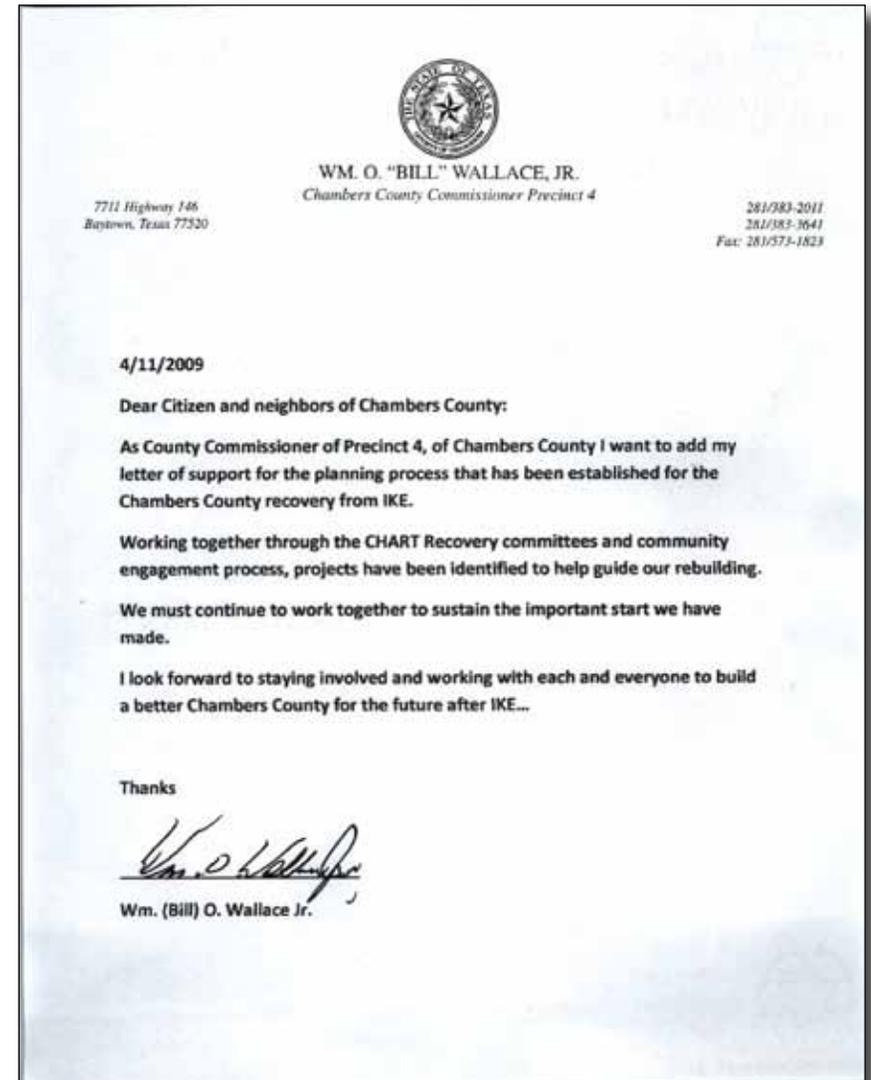
As we move from recovery to rebuilding we are faced with new challenges, but at the same time, the opportunity to rebuild as a stronger and better Chambers County. The ChaRT and associated committees, with input from the residents of Chambers County have given us a vision of what is needed to be addressed as we proceed through this rebuilding process.

I would like to express my appreciation to all involved in this continued effort. This will be a long process and we are just beginning, but with the cooperation and determination the Citizens of this county, it is only a matter of time. I pledge my continued support and look forward to working with everyone involved as we work toward accomplishing these goals, building an even better place for our families to live, work, and play.

Sincerely,

A handwritten signature in cursive that reads "David 'Bubba' Abernathy".  
David "Bubba" Abernathy  
Commissioner Pct. 2  
Chambers County

# LETTERS OF SUPPORT



**CITY OF ANAHUAC**  
501 MILLER STREET  
P.O. BOX 578  
ANAHUAC, TEXAS 77514-0578  
"The Alligator Capital of Texas"

April 14, 2009

To the Citizens of the City of Anahuac and all of Chambers County:

The document that you hold in your hand represents many hours of participation and input by a wide array of citizens of Chambers County, Texas. The citizens who served on the Chambers County Long-Term Community Recovery Steering Committee have given great thought and insight to the recovery of Chambers County from Hurricane Ike. The citizens who served on the various subcommittees to determine the projects and their scopes did an admirable job. Most importantly, the citizens who participated in the community meetings thereby giving us the almost 2,000 ideas of where they would like to see their communities and county be as part of the recovery.

This report is a living, breathing document. It is not intended to sit on a shelf gathering dust but instead will be the guidebook for our future. The projects detailed within represent in a form or fashion the almost 2,000 ideas that were offered at the community meetings. Some of the listed projects may change in scope over time and then as projects are completed there may be others that take their place.

To that end the Chambers County Long-Term Community Recovery Steering Committee has formed a not for profit corporation, Chambers Recovery Team (ChaRT), to ensure these projects and any future projects have a driving force.

I would like to thank FEMA in general and especially the FEMA ESF-14 team assigned to Chambers County for their technical and logistic support in this community recovery process.

On behalf of the City of Anahuac and the Chambers County Long-Term Community Recovery Steering Committee I support this report and the projects within as part of our recovery from Hurricane Ike.

Sincerely,



Guy Robert Jackson  
Mayor, City of Anahuac and  
Chairman, Chambers County Long-Term Community Recovery Steering Committee

(409) 267-6681

(409) 267-6682

## CITY OF BEACH CITY

12723 FM2354  
Beach City, Texas 77523

(281) 383-3180  
Fax (281) 383-9621  
E-mail: beachcity@teleshare.net

April 10, 2009

Subject: Chambers Recovery Team (ChaRT) Project Plan

Dear Citizens and neighbors of Chambers County:

The City of Beach City appreciates the opportunity it has had to participate on the long term recovery planning team established by Commissioners Court to address the aftermath of Hurricane Ike. It's encouraging to know that Chambers County will now have a comprehensive, cohesive, community based plan to focus resources, funds and energy on the long term recovery of our area, residents and businesses. The Chambers Recovery Team (ChaRT), its committees and the communities of Winnie-Stowell, Anahuac, Cove, Beach City, Hankamer, Oak Island/Double Bayou, Smith Point and Mont Belvieu have all given Chambers County a road map to a sound recovery from IKE.

The City Council of Beach City would like to thank all the members and leaders of ChaRT that have helped move the recovery process forward. The plan is just the beginning. We will need the support of all to continue the recovery process. We pledge our commitment and support for the recovery planning process and look forward to working together through the ChaRT recovery committees and community engagement processes to accomplish projects that will make Chambers County a better place to live and work.

We support the planning process that has been established and acknowledge that we must continue to work together to sustain the important start we have made. As Mayor of Beach City I also look forward to staying involved by working directly with ChaRT to build a better Chambers County.

Sincerely,



Guido Persiani  
Mayor

Alderman: Nick Bercaw  
Tommy Clayton  
Ray Smith  
Rita Standridge  
Douglas Walker

# LETTERS OF SUPPORT

CITY OF COVE  
9711 COVE ROAD  
COVE, TX 77523

*Dear Citizens and neighbors of Chambers County*

*I want to add my support for the Long-Term Recovery Planning process for Chambers County recovery from hurricane IKE. I appreciate the leadership of the Federal Emergency Management Agency and the expertise of their facilitators in guiding this process.*

*I want to thank each member of our community who have contributed to this planning process.*

*Working together through the ChaRT recovery committees and community engagement process projects have been identified to help guide our rebuilding.*

*Sincerely,*

*Lee Wiley*

*Lee Wiley, Mayor*



Dear citizens and neighbors in Chambers County:

I want to add my letter of support for the planning process that has been established for the Chambers County recovery from IKE. Working together through the ChaRT recovery committees and community engagement process, projects have been identified to help guide our rebuilding. We should continue to work together to sustain the important start we have made. I look forward to staying involved working with everyone to build a better Chambers County.

Best regards,

*Nick Dixon*

Nick Dixon  
Mayor  
City of Mont Belvieu

Chambers County is located in the Gulf Coast region of Texas, 50 miles east of Houston, on the shorelines of Galveston and Trinity Bays. Interstate 10, the southernmost coast-to-coast highway in the US, traverses the county with Harris County at its western border and Jefferson County at its eastern border. Largely rural with a population of 28,771 in 2007, the county occupies a total of 872 square miles, comprised of 599 square miles of land and 273 square miles of water. Natural resources, lakes, beaches and a mild climate provide an abundance of outdoor opportunities for residents and tourists. Proximity to the cities of Houston and Beaumont enables residents to commute to jobs in urban areas while enjoying a small town quality of life.

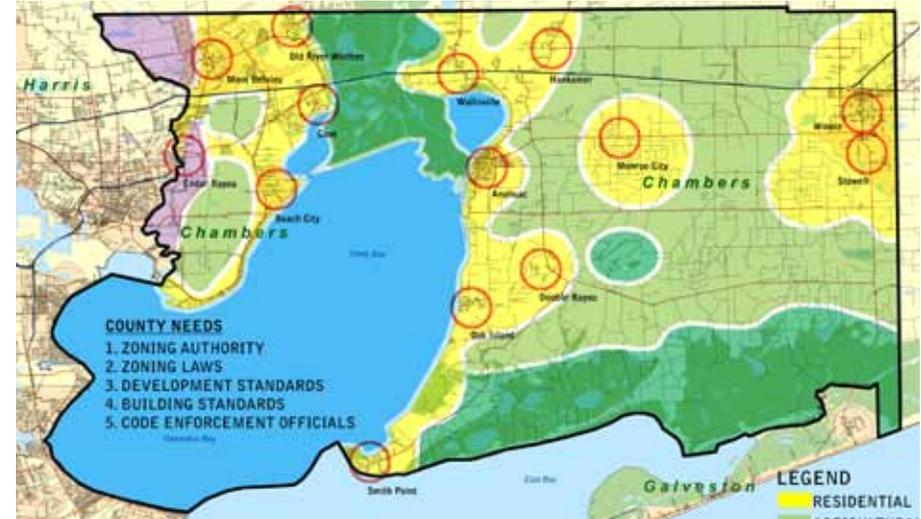
The Chambers County seat is in the City of Anahuac, population 2,200, located on the northeast bank of Trinity Bay. Other Chambers County communities located along Trinity Bay include Wallisville, Hankamer, Double Bayou, Oak Island, and Smith Point. The Anahuac National Wildlife Refuge, located along the North Shore of East Bay, spans 34,000 acres of land. The Refuge encompasses coastal marshes and prairies that serve as host or home to a variety of wildlife such as migratory birds, alligators and bobcats. The Refuge draws more than 72,000 visitors annually and is a link in the National Wildlife Refuge System that extends along the Gulf Coast.

The towns of Winnie and Stowell are adjacent communities with a population of 5,000 and 1,500 respectively. Known as the “Gateway to the Gulf,” these towns are strategically located between Houston and Beaumont along the State Highway 124 corridor that provides beach access from I-10.

In the northwestern corner of the county is Mont Belvieu, population 2,637, whose industrial economy is based on petrochemical refining and related salt dome storage facilities. Sharing the county’s western side with Mont Belvieu, are neighboring Beach City, Cove, and Old River-Winfree, with a combined population of 3,800. Each of these communities is within commuting distance of Houston, and the City of Baytown, partially located in Chambers County, serves as an employment center with its own thriving petrochemical and plastics industries.

Storm surge and winds generated by Hurricane Ike pushed into Chambers County from Galveston, East and Trinity Bays causing severe flooding and wind damage in Smith Point, Oak Island, and Double Bayou. Much of the basic infrastructure in center Chambers County sustained significant damage, including utilities, fire protection, and healthcare facilities. Two hospitals were damaged and a nursing home in Anahuac was destroyed. Several saltwater gate structures were destroyed or rendered inoperable. Saltwater contaminated wells and septic systems as far as ten miles from the shore. Saltwater also had a major impact on natural areas, agricultural land and fishing grounds within Trinity Bay. The extent of damages and the county’s limited resources indicated that Chambers County could benefit from ESF-14 involvement in local recovery efforts. The LTCR services provided by ESF-14 for Chambers County have included technical assistance and support to develop a recovery plan. The specific issues targeted for planning purposes included housing, economic development, and coastal restoration.

# ENVISIONING A STRONGER CHAMBERS COUNTY



This Long-Term Community Recovery (LTCR) Plan is a community-driven document that reflects ideas and priorities expressed by the community. The recovery vision, strategies and projects presented in this Plan are based on direct input received during the community recovery planning process. The process was led by the local Long-Term Community Recovery Steering Committee and aided by an experienced ESF-14 LTCR Planning Team.

During the early stages of the community recovery planning process, the LTCR Team helped local leaders organize planning committees and local steering committees. The Chambers Recovery Team (ChaRT) served as the steering committee for the process. Through that process, ChaRT and community members established a vision for recovery:

## **“A stronger, more resilient community”**

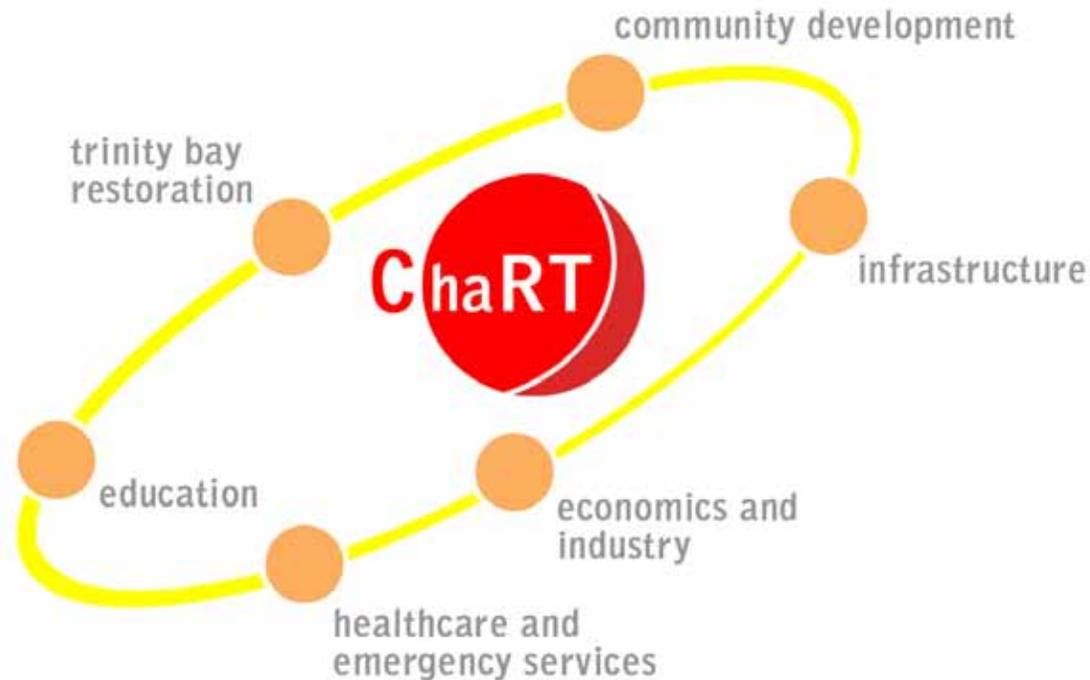
The vision was derived from expressed community preferences for retaining its rural roots, building stronger health and medical service delivery systems, updating emergency services, widening recreational opportunities, expanding public facilities and improving surface transportation and marine navigation.

The county also shares a historical connection to the coastal environment, natural wildlife resources and an abundant fishery. Ranching, agriculture and marine trades and industries are mainstays of the county’s economy. Other dominant economic drivers include the petrochemical refineries, pipeline networks, and light industrial businesses primarily located in the western part of the county. While some commercial and retail businesses are located along the Interstate I-10 corridor, expansion opportunities exist.

### **Goals:**

- Retain the small town identity of communities like Smith Point, Oak Island, Double Bayou and Anahuac.
- Protect ranching and agriculture lands
- Serve as a gateway to coastal areas and beaches
- Create tourism opportunities to become a travel destination
- Develop Interconnectivity and a county wide greenways trail system
- Encourage business expansion
- Build community facilities and programs that support quality of life and livability

# CHART – CHAMBERS RECOVERY TEAM



On January 13, 2009, the Chambers County Commissioners Court authorized formation of the Long-Term Community Recovery Steering Committee to address the damages and impact of Hurricane Ike. Each of the five county officials appointed at least one representative to the Steering Committee to achieve county-wide representation. In all, a total of eleven Steering Committee members were appointed. The Steering Committee set to work immediately. At the initial meeting, the committee members identified critical areas of concern and designated a subcommittee to address each concern: Trinity Bay Restoration, Healthcare and Emergency Services, Economics and Industry, Education and

Community Development. Some subcommittees also established Work Groups. The Agriculture Work Group determined that its issues were of such magnitude to county residents that it evolved into a new subcommittee. Noting the momentum and significant community interest in the recovery planning process, Steering Committee members determined that a more formal organization was needed to plan and implement recovery activities. On February 19, the Steering Committee became known as the Chambers Recovery Team (ChaRT), an incorporated nonprofit organization that is in the process of applying for their 501(c)(3) status.

# PUBLIC INVOLVEMENT



Two rounds of public involvement meetings and three planning workshops were conducted to inform, educate, and engage the citizenry in the recovery planning process. The first round of community meetings was designed to solicit public comments about the issues and concerns affecting the community as a result of Hurricane Ike. From January 31 through the first week of February, ESF-14 facilitated five community meetings throughout Chambers County, which included Smith Point, Mont Belvieu, Anahuac, Oak Island/ Double Bayou, and Winnie.

Citizens attending these meetings found 13 Community Input Boards labeled by sector: Housing for Everyone; Housing and Recovery; Neighborhoods; Public Facilities and Services; Health and Human Services; Emergency Response; Education; Transportation; Economics and Industry; Tourism; Environment-Natural Resources; Environment-Resiliency; and Water, Sewer, and Drainage. The boards displayed images and questions to encourage input from community participants. Using sticky notes, participants wrote comments that expressed their issues and concerns related to a particular sector. ESF-14 staff with specialized sector expertise were always available to answer participants' questions. Residents submitted a total of 1,987 comments during the first round of meetings. Additional comments were collected from residents by e-mail. Translation services were available for Vietnamese and Spanish speaking community members.

In addition to these meetings, a series of planning workshops were held in Oak Island, Double Bayou and Smith Point, all communities hardest hit by Hurricane Ike. The workshops allowed local residents to articulate their inspirations and

aspirations for an improved, stronger, and more resilient community. Workshop feedback was used to establish a framework for a master plan that captured the community's post-disaster vision in drawings and renderings.

At a second round of public meetings in each of the five communities, the county obtained further public input, moved toward community consensus and gathered support for initiatives identified by community members as priority projects. Community Input Boards categorized by sector appeared again. This time, the boards displayed summarized comments received at the first meetings and translated them into possible recovery projects. Participants identified the projects that were most important for reestablishing a healthy, functioning community that could sustain itself over time. High attendance at the second set of public involvement meetings reflected vibrant community involvement with over 500 attendees participating in the Public Involvement process.

In addition to general community participation, public officials were also actively involved throughout the LTCR process. The LTCR Team established relationships with elected officials and key informers quickly to ensure support for the recovery planning process. Routine and frequent meetings were scheduled between the ESF-14 team and elected and public officials to provide updates and solicit feedback. The LTCR Team facilitated more than 40 meetings with citizens or public officials and almost half were attended by one or more elected officials. Many elected officials took leadership roles through the Steering Committee and related subcommittee work. Mayor Guy Jackson of Anahuac, who served as the Steering Committee Chair, was a committed participant from the beginning to the end of the recovery planning process. He was also instrumental in keeping the lines of communication open with other elected officials, including the county judge and with the public. Together with the community leadership and elected officials, the LTCR Team was able to establish a recovery planning process that truly has been community driven and will be carried on through the ChaRT.



# HOW TO USE THIS DOCUMENT



This Long-Term Community Recovery (LTCR) Plan for Chambers County is a tool which can be used to support and guide community decision-making. It is designed to support community leaders as they work collaboratively to identify priorities for implementing recovery initiatives and projects. It will also be a resource when funding is sought for each project. This document represents a formal public process and the projects in it have been vetted by both the public and community leaders.

This plan is not however a fixed set of recovery instructions. Over time, recovery priorities will shift as projects are undertaken and initiatives evolve in changing conditions, or as more details become available. It is important that local recovery partners remain flexible and periodically reassess their options as they follow the LTCR process and principles. Therefore, updating the Plan is likely to be an inevitable occurrence as the community enacts its vision for recovery.

Evaluation and feedback will continue to be key components of the recovery process. Community implementation will include tracking and evaluating progress and communicating success to both the stakeholders and the public. Chambers County and ChaRT may wish to identify an overall coordinator for the process to manage and lead implementation of the projects.

In addition to an overall leader to coordinate recovery activities, each of the recovery projects have or will have sponsors and champions identified. These are the entities that will assume ownership of the project and ensure that it moves forward. While local community leaders will be the primary users of this Plan, state and federal partners may also refer to this document to support local long-term community recovery. Contacts at various state and federal agencies may be vital in acquiring needed funding for project implementation. The project descriptions often list agencies whose programs support similar community initiatives.

# WHAT IS A RECOVERY PROJECT

Recovery projects help communities recover from a disaster. Individual projects are designed to achieve the community's post-disaster vision and, when viewed in a broad context, may have an impact beyond their original scope or purpose. Identified within the LTCR Plan are projects that will be the building blocks for community recovery. The project descriptions in this Plan identify existing conditions and include a statement of goal(s) as well as a sequential list of action steps, and, when available, a preliminary cost estimate to guide initial budgeting. In all cases, individuals and organizations within the community are urged to coordinate and cooperate with representatives of the county, the regional council of governments, and the state for assistance throughout the implementation phase.

Many LTCR project are assigned a Recovery Value. A Recovery Value is not a statement of priority, although some community leaders apply them in that way. It is an indicator of how much a project, when implemented, can stimulate the community's recovery from a natural disaster or incident of national significance. Projects that positively contribute to recovery typically address a broad range of issues that encourage a functional and healthy economy, optimize infrastructure and other public assets, bolster a full range of community opportunities and enhance community sustainability. An explanation of the four (4) Recovery Value designations follows:



## High Recovery Value Projects

Projects assigned a High Recovery Value are catalysts that provide important building blocks for recovery. Typically, High Recovery Value projects will:

- Fill a post-disaster community need.
- Leverage resources and create linkages to other projects.
- Relate directly to physical damage from the disaster.
- Encourage private investment.
- Carry wide community support.
- Offer realistic outcomes—outcomes that are feasible.
- Use resources wisely.

## Moderate Recovery Value Projects

Moderate Recovery Value projects potentially offer clear and positive impacts on recovery yet they are limited in scope, span, or benefit. While their community-wide significance or support is average or modest, Moderate Recovery Value projects do relate to the physical damage from the disaster.

## Low Recovery Value Projects

Low Recovery Values projects may not have a direct link to the disaster or to disaster-related damage. In many cases, the community's capacity and resources will be insufficient to carry out the project. Also, the project may only have an impact on a small portion of the community, thereby not demonstrating wide-based community support.

## Community Interest Projects

Community Interest projects may be extremely important to a community while not meeting the criteria that define projects with High or Moderate Recovery Value. Further, these projects may not have a direct link to the disaster and are likely to address issues that were pre-existing. Their primary value arises from significant public support.

With the initial project descriptions provided in this Plan and the preliminarily assigned Recovery Values, local decision-makers can take the first steps to implement their recovery plan.



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# HOUSING AND COMMUNITY DEVELOPMENT

Damage and housing loss due to Hurricane Ike have created the demand to restore and rebuild hundreds of homes in Chambers County. The county has limited staff capacity to address the needs of its hardest hit areas such as Smith Point, Oak Island, and Double Bayou; therefore, assistance with capacity-building will be required to begin the rebuilding process. Restoring quality of life amenities such as community facilities and recreation areas are also critical to community recovery. Further, the overall economic recovery of the county is directly linked to housing issues. In order to enable existing industry to expand and attract new industry the county will need to maintain affordable workforce housing. Through the Chambers County Long-Term Community Recovery Planning process residents identified a range of projects and programs that help to achieve the following community goals:

- Build capacity to undertake recovery projects
- Develop a vision plan for communities
- Provide workforce housing
- Coordinate master planning county-wide
- Rebuild stronger and safer.
- Assist homeowners to rebuild

In addition to developing housing goals and projects, the LTCR Team facilitated a series of community planning sessions to help generate ideas for the community in terms of street orientation, community gateway, parks and recreation, lighting, boat ramps, fishing piers, and other amenities. Many of the ideas from these sessions were sketched by the LTCR Team as a first step toward the development of community master plans that identified priority community facilities and amenities in graphic format.

Residents identified options to address housing and community challenges and achieve recovery goals. The following projects were developed:

- Unincorporated Communities - Walk and Bike Ways Signage and Streetlights Improvement Project
- Vision Planning – County-Wide Planning and Integration
- ChaRT Community Recovery Center
- Homeowner Construction Program
- Provide Gap Financing to Assist Homeowners to Repair and Replace Homes
- Land Use and Building Code Regulations
- Adult Family Home for Seniors
- Elevator/Lift System - Provide Access to Elevated Homes
- Fisheries and Agricultural Work Force Housing
- Long-Term Elder Care

# WALK AND BIKE WAYS, SIGNAGE AND STREETLIGHTS IMPROVEMENT PROJECT

**Recovery Value:** Community Interest

**Project Background:**

Communities around Trinity Bay all share a road network that is narrow with poorly defined edges bordered by drainage ditches without sidewalks. Residents, children, and workers all share the same narrow roadway with automobiles. Bicycles are a common mode of transportation for small communities along Trinity Bay. Workers in the fishing industry typically ride bikes to and from work in the early morning hours and late at night. Making roadways safer and improving street lighting are important quality of life issues for these communities.

**Goal:**

Improve the pedestrian and bicycle circulation, connectivity and safety within the communities.

**Project Description:**

Proposed roadway work includes repairing and upgrading local street enhancements with sidewalks or walkways, signage, and street lighting as needed. This project is intended to promote safe operation of alternative transportation modes within the right-of-way. The improvements will provide safer commutes for employees riding bicycles to work as well as improve recreational opportunities by connecting parks and natural areas into the network. A larger scale proposal will link communities through a county-wide bicycle/walkway trail system.

Routes identified in Smith Point, Oak Island and Double Bayou still require consensus by the community, and are listed here within:

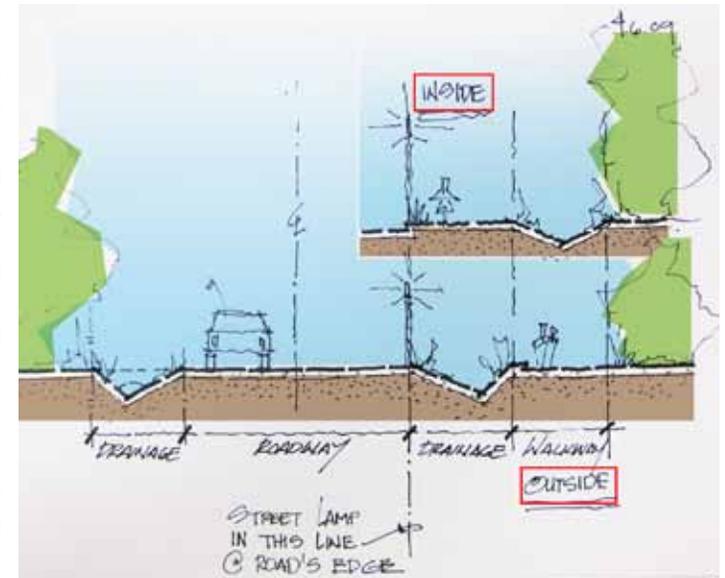
- A. Plummer Camp Road, .85 miles from Smith Point Road to its Southern end at the cul-de-sac.
- B. Smith Point Road, 1.1 miles from Whitehead Road to Heartfield Lane.
- C. Hawkin's Camp Road, 1.5 miles from Smith Point Road to the RV park in Robin's Park.

Routes identified in Oak Island are:

- D. Bayshore Road, .5 miles from Poncho Street south to the park beyond Main Street.
- E. Main Street, .7 miles from Bayshore Road west to the waterfront one block west of Darden Street and south to the lodge.
- F. Along or adjacent to the bayou, .65 miles along the north edge from the lodge in the west to Main Street in the east.

Routes identified in Double Bayou are:

- G. Eagle Ferry Road, 1.2 miles from Double Bayou Park to Gill Road.
- H. Jackson/Felix/Drew Roads, 1.3 miles to create a loop with Eagle Road at the base.
- I. Eagle Ferry Road, 3.5 miles connecting Double Bayou to Oak Island, from Gill Road to Bayshore Road.



**Financial Considerations:**

**Cost Estimates**

- A. .85 miles (4,488 lf) @ \$70/lf = \$314,160
- B. 1.1 miles (5,808 lf) @ \$70/lf = \$406,560
- C. 1.5 miles (7,920 lf) @ \$70/lf = \$554,400
- D. .5 miles (2,640 lf) @ \$70/lf = \$184,400
- E. .7 miles (3,696 lf) @ \$70/lf = \$258,720
- F. .65 miles (4,488 lf) @ \$70/lf = \$314,160
- G. 1.2 miles (6,336 lf) @ \$70/lf = \$443,520
- H. 1.3 miles (6,864 lf) @ \$70/lf = \$480,480
- I. 3.5 miles (18,480 lf) @ \$70/lf = \$1,293,600

**Potential Resources:**

- ORCA
- CDBG Program

# VISION PLANNING COUNTY-WIDE PLANNING

## **Recovery Value:** High

### **Background:**

Chambers County does not currently have policies or plans to guide community growth or protect important county resources. A vision plan helps citizens and community leaders form and articulate a plan to guide the community through recovery in a manner that is safe and economically viable, and provides more resilience than before the disaster. Developing individual community master plans that are based on visioning exercises and consistent with the Chambers County plan will enable cooperative and coordinated decisions related to resources and development.

### **Project Description:**

The vision plan effort will initiate a process of planning for future land development, use change, and overall environmental, economic, and social enhancement of Chambers County. The process will evaluate county-wide opportunities and constraints related to natural resources, social networks, and economics that will create a framework for communities. This first step in the process helps identify the aspects that make the county unique. Later the plan can guide the development of opportunities to enhance the quality of life for residents and visitors today and for future generations. Sustainability will also be an element of the planning process. Factors related

to environmental, economic, cultural, recreational, financial, and aesthetic sustainability will be incorporated into the plan.

A three-phase planning process has been identified.

### **Phase 1 – Analysis**

Initially the project will start with an analysis effort, creating visual studies that are topic driven and reviewing other documents providing valuable information to the effort. Local, state and or federal agencies will be engaged to broaden the range of “stakeholders” in the effort. The project will include topics such as;

- County Scale Best Planning Practices
- Greenbelts as Open Space Networks
- Open Space, Landscape and Ecosystem Services
- Potential Renewable Energy Resources
- Greenhouse Gas Reduction and Offset Opportunities
- Climate Change Impacts and Adaptation (including sea level rise)
- Agricultural Functions
- Bay and Bayou Wide Industries
- Community Identity and Economy
- Lifestyle
- Transportation Networks Public and Private Systems (Land and Water Borne)

- Emergency Responder Network
- Wildlife and Wetland Analysis and County Conservation Framework
- Ecotourism Impacts
- Demographic Analysis
- Exploratory Aspects
- Housing inventory Market Analysis

At this stage in the project, the findings would be presented to the county, communities and stakeholders. The process of sharing information will lead to understanding community values, raising awareness, generating new ideas and potentially directing which way to go in the next steps of the project.

### **Phase II – Key Aspect Emphasis and County Plan**

Taking discussion and ideas from the previous phase, a series of “mapping” diagrams would be generated based upon key aspects to be emphasized. This may lead to a series of studies and discoveries which evolve the plan into a working plan. The working plan will allow for a range of situations to be explored, yielding performance values to be evaluated and creating new direction of the county over the next few years. The plan should maintain a level of flexibility as well. This is a prime element to a plan’s longevity, allowing it to be flexible will sustain its value over time. Evolving issues particularly related to climate change and greenhouse gas emissions are rapidly reshaping

land use across the country. The plan will draw from our national and international experience in climate action planning to ensure that the county is well prepared to tackle this issue. If desired, a future scope of work covering strategies to achieve appropriate greenhouse gas reduction targets at the county scale can also be implemented.

### Phase III – Application of County Scale Plan to the Communities

During phase three of the planning process, each community within the county will have the opportunity to work through each of the above phases. A list of criteria scaled to fit each community to establish a planning framework. The framework leads to uncovering unique community character, place, or identity. The development of a community framework or “vision” will address a range of factors providing flexibility as the community changes over time.

This study should also incorporate the results from the Chambers County Greenprint project—and to the extent feasible—should incorporate the accomplishments of that project.

#### Financial Considerations:

Preliminary Cost Estimate                      \$500,000

#### Potential Resources:

- Urban Land Institute Foundation
- Grants for community planning
- Regional/Urban Design Assistance Team
- Technical Assistance with charettes and planning.



# CHART COMMUNITY RECOVERY CENTER

**Recovery Value:** High

## **Background:**

The recovery effort in Chambers County requires a comprehensive approach to planning and project coordination to assure a holistic community recovery resulting in a resilient, sustainable community. Housing stability is a basic need. Many of the proposed projects and initiatives require additional planning, and the development of policies, codes, ordinances, and regulations that must be coordinated and managed. Homeowners need assistance with rebuilding, including aid in understanding options and best practices, and, in some cases, help with managing construction. Residents need to return to their homes to move beyond the storm's emotional impacts. Resettlement at home will allow the community to return to normal living patterns, and will reestablish the county's property tax base.

## **Goals:**

- Develop and staff a community recovery center.
- Provide funding for ongoing community planning.

## **Project Description:**

The Recovery Center is a one-stop location where homeowners can get assistance with rebuilding, as well as planning, design, and construction assistance for residents with technical construction issues. The Center also assists homeowners with scoping construction, bidding and negotiating with contractors, and managing contractors on behalf of the homeowner. To save homeowners money, the Center coordinates bulk material purchases as well as volunteer labor through private nonprofit organizations. By providing ongoing community planning, the Recovery Center oversees implementation of identified long-term recovery projects and operates as a community design center.

The Recovery Center provides information and technical materials to residents and homeowners. Featured topics may include best practices related to rehabilitation, mold remediation, pattern books, stock plans, and technical samples of alternative building technologies. Center staff can assist with evaluation of panelized and modular construction approaches. Through partnerships with local university architectural planning and construction technology programs, the Recovery Center seeks to involve graduate students and faculty from: American Institute of Architects (AIA) Disaster Recovery assistance program under the AIA Center for Communities by Design  
Rice University School of Architecture  
Architectural program at the University of Houston

The Community Recovery Center is a project that is sponsored by and will be operated by ChaRT. This will enable the ChaRT organization to coordinate planning and community development activities for the county. The Executive Director of ChaRT will provide staff support to the Board, manage the recovery center, and lead the planning process.

## **Sustainable Opportunities:**

The Community Recovery Center will provide mitigation, coastal and environmental protection measures, community design and building standards, and efficient sustainable development practices. This project also builds ChaRT capacity by providing planning and project management staff to conduct ongoing planning, and to implement and manage recovery projects.

## **Action Steps:**

- Prepare a program plan
- Develop an operating budget including staffing and overhead
- Apply for CDBG Disaster Supplemental Housing funds
- Hire and train staff
- Initiate programs
- Identify and coordinate with mitigation technical assistance support through state and federal partners
- Coordinate with AIA Center for Communities by Design, and local schools of architecture, American Planning Association, National Homebuilders Association, HUD PATH Program, and other potential technical assistance supporters

## **Financial Considerations:**

### **Estimated Costs**

Executive Director/ Recovery Manager (3-years)	\$180,000
Construction Manager (3-years)	\$150,000
Benefits and Payroll taxes (28%)	\$92,400
Rent (3 years @ \$900/mo.)	\$32,400
Supplies and Equipment (3 years @ \$20,000/yr.)	\$60,000
Technical Assistance to hire consultants	\$50,000
<b>TOTAL</b>	<b>\$464,800</b>

### **Potential Resources:**

- Texas Department of Housing and Community Development
- Ike Supplemental CDBG funding
  - Capacity Building funds
- USDA Rural Housing Programs
- Community Facilities Direct Loan Program
- HUD
- Partnership for Advancing Technology in Housing

# HOMEOWNER CONSTRUCTION PROGRAM



**Recovery Value:** High

## **Background:**

Within Chambers County, many homeowners have little or no experience hiring and managing contractors. After the hurricane, homeowners are now faced with managing major home renovations. This program is designed to provide homeowners the knowledge and tools they need to ensure that they can manage contractors in a manner that results in an efficient and complete project.

## **Goal:**

Establish a program to assist homeowners with determining a scope of work, negotiating with a contractor, managing construction, and administering draws of construction funds.

## **Project Description:**

A Homeowner Construction Program engages construction specialists to represent and assist the owner with determining the scope of work

required, estimating costs, negotiating with contractors and managing their work. This program is structured similar to Homeowner Rehabilitation programs operated across the country to assist homeowners to repair housing in conjunction with CDBG repair funding. The proposed program provides a construction specialist to assist homeowners with new construction or rehabilitation. Construction specialists prepare specifications, negotiate with prequalified contractors to perform the work, and conduct inspections. The program would create a pool of prequalified contractors, and manage their workloads to assure consistency in quality and completion of work.

An example of a tool for implementing this program is to connect the award of public construction funds, such as a Community Development Block Grant, with the services of a construction specialist to assure that both the homeowners and publicly funded interests are protected.

## **Other recommended actions include:**

- Operate the program out of the ChaRT Community Recovery Center
- Hire construction specialists as full-time staff
- Hire prequalified local contractors to perform a work on a “bundle” of homes to take advantage of economies of scale and offset mobilization costs
- Identify construction specialists from existing small general contractors with construction experience on similar housing construction

- Charge the pro-rata cost of the construction specialist to each CDBG construction budget
- Charge costs of assistance to homeowners not receiving CDBG on a fee-for-service basis

Experience of similar programs around the country suggests that the staffing costs for construction specialists are far outweighed by the savings in construction funds due to better pricing and project management.

## **Sustainability:**

Construction specialists will be able to work with homeowners to assist them with options for increasing energy efficiency, and use of green construction approaches.

## **Financial Considerations:**

Estimated Costs

10 Construction Specialists @ \$50,000 year  
\$500,000

## **Potential Resources:**

HUD

- HOME Investment Partnership Program
  - ChaRT
  - Program Fees
- Wells Fargo Housing Foundation  
Habitat for Humanity

# PROVIDE GAP FINANCING TO HELP HOMEOWNERS REPAIR AND REPLACE HOMES

## Recovery Value: High

### Background:

Gap Financing is the difference between the costs of restoring or rebuilding a home and the amount that a property owner receives through insurance proceeds and federal assistance after the disaster. The county has set a high priority on assisting residents with the rebuilding process. A large portion of the housing in Smith Point, Oak Island, and Double Bayou communities was damaged or destroyed by storm surge. This project proposes a program that will assist homeowners who face a financial gap in rebuilding their home.

### Goals:

- Stabilize the housing market in disaster-affected areas.
- Provide incentives that enable residents to resettle in their community.
- Provide assistance to 380 homeowners.
- Reestablish the property tax base for the county.

### Project Description:

This project establishes a program that provides gap financing to homeowners. The purpose of the program is to assist homeowners as they rehabilitate or build new homes after the disaster. This program could be administered through the ChaRT Community Recovery Center. The Recovery Center plans to leverage several funding sources, including Community Development Block Grants, US D A Rural Housing Repair Grants, Weatherization Program Grants, Energy Efficiency Grants, foundation funds, and Federal Home Loan Bank funds.

It is estimated that the average financial gap for homeowners who need to replace their home will be approximately \$60,000 (based on a replacement cost of \$120,000). For homeowners who must rehabilitate their homes due to storm damage, the average financial gap is estimated at \$20,000. Included in this estimate is the amount needed to build back to new codes and elevation requirements. In many cases, new code compliance and elevation rules will require homes to be replaced.

### Action Steps:

- Hire staff or work with the Houston-Galveston Area Council to determine eligibility and program requirements.
- Engage a technical assistance provider to assist with program design
- Develop RFPs to engage an experienced organization to implement and administer the program
- Implement program management software to process and track payments
- Hire administrative staff to manage the contractor

### Financial Considerations:

Estimated Costs	
Replace (216 homes @ \$60,000 ea.)	\$12,960,000
Repair and harden (364 homes @ \$20,000)	\$7,280,000
Program Administration (8%)	\$1,619,200

### Potential Resources:

HUD

- CDBG Supplemental
  - HOME Investments Partnership Program
- Flood Insurance
- Increased Cost of Compliance
- Texas Department of Public Safety - Division of Emergency Management
- Hazard Mitigation Grant Program
- USDA Rural Housing and Community Programs
- Housing Preservation Grants

### Notes:

- Federal CDBG funds cannot duplicate funding received by homeowners from insurance or from FEMA.
- Guidance to homeowners on how to access Increased Cost of Compliance (ICC) funding from their flood insurance could be provided at the Community Recovery Center,
- Hazard Mitigation Grant Program (HMGP) funding could be provided to homeowners to pay additional costs for elevating and hardening homes.
- Requiring any homeowners who receives gap funding for repairs or rebuilding to build to ICC/ IRC codes, to elevate above the BFE, and to maintain flood insurance would mitigate potential future losses, thereby providing the potential for long-term savings.

# BUILDING CODE AND LAND USE REGULATIONS

**Recovery Value:** High

**Background:**

Safe secure housing is critical to community recovery. It is the primary asset individuals and families have and an important element of the county tax base, which supports government services. A large portion of the housing in Smith Point, Oak Island, and Double Bayou communities was damaged or destroyed by storm surge. In addition, there are many damaged and dilapidated properties in the county that pose a community nuisance, and threaten the health and safety of local residents.

**Goal:**

Provide codes and regulations that ensure housing is more resilient and sustainable, offer protection from future storms, and are safe and sustainable.

**Project Description:**

Enacting building codes will help guide community rebuilding and achieve the county goal to build back stronger and smarter. This project includes recommendations for the county and local communities to adopt and administer standard building codes that include mitigation requirements. County officials should also establish an administrative department for building inspection and

code compliance. This department will help ensure standards are followed. Codes and activities to be considered:

- Elevate above the lowest floor above the BFE, incorporating a liberal amount of freeboard.
- Adopt standard building codes, such as the IBC and IRC.
- Coastal communities incorporate ASCE 7 – 05 for flood load calculations and ASCE 24 – 05 for flood-resistant residential construction.
- Use the Recommended Residential Construction for the Gulf Coast: Building on Strong and Safe Foundations, (FEMA Publication 550)
- Hire a planner at the Community Recovery Center to lead land use planning activities, coordinate community outreach and education, coordinate with state and county officials on enabling legislation, and implement new development and land use regulations.

**Sustainability:**

Building codes would assure that new and rebuilt homes are constructed to safer standards, including mitigation, elevation, and hardening in coastal communities. Building regulations also allow communities to concentrate development on sustaining infrastructure and utilities, and to segregate

incompatible industrial uses from residential uses to avoid harmful effects on residents and home values.

**Action Steps:**

- Coordination of information to homeowners on building materials, methods, and best practices
- Hire a county-wide planner
- Establish new Advisory Flood Base Elevation, and liberal freeboard requirements
- Adoption of standard building codes
- Hire code enforcement officers

**Financial Considerations:**

Estimated Costs	
County planner (ChaRT Community Recovery Center) (3-years)	\$ 50,000
(3) Permit officers and building inspectors (3-years)	\$120,000
Payroll taxes and Fringe benefits (28%)	\$ 50,000
<b>Total</b>	<b>\$220,000</b>

**Potential Resources:**

HUD CDBG Disaster Supplemental fund  
CDBG From American Recovery and Reinvestment Act  
The John D. and Catherine T. MacArthur Foundation  
The Wells Fargo Housing Foundation

# ADULT FAMILY HOME FOR SENIORS



**Recovery Value:** Moderate

**Background:**

Affordable senior citizen housing is greatly needed within communities that were severely impacted by Hurricane Ike. The loss of senior housing in Smith Point, Oak Island, and Double Bayou affects opportunities for these communities to recover and maintain diversity in their population. Developing an Adult Family Home will allow seniors to live independently in the community and benefit from social interaction and supportive services.

**Goal:**

Create housing options that allow residents to live in the community.

**Project Description:**

An adult family home is a single-family house that provides shared housing for up to six seniors. Each resident has a lease for their bedroom and use of the common spaces. Supportive services can be paid for through Medicaid waiver services and/or

Social Services Block Grant funding. Daily activities that provide opportunities for social interaction and exercise would also be included.

**Sustainability:**

Energy efficiency and green building methods will be utilized in the design and construction of the project.

**Action Steps:**

- Determine what entity will be the project sponsor
- Determine who can provide the supportive services
- Obtain site control of property near the community center
- Hire a consultant to determine feasibility and manage the project
- Prepare a schematic site plan, and schematic plan
- Apply for funding
- Use federal procurement process to hire architectural services and competitively bid construction

- Develop a property management plan
- Construct the project

**Financial Considerations:**

HUD requires that 10% of CDBG funds from the disaster supplemental funding be used for affordable rental housing

Estimated Costs

(1) Adult Family Home \$350,000

**Potential Resources:**

HUD

- CDBG
- HOME Investment Partnership Program

USDA

- Community Facilities Grants and Loans
- Department of Veterans Affairs
- Grants to States for Construction of State Home Facilities for adult day health care to veterans

# ELEVATOR/LIFT SYSTEMS



**Recovery Value:** Community Interest

**Background:**

The destruction of coastal housing resulting from storm surge will require all replacement housing to be elevated above the BFE. To provide access to the elevated homes for people with disabilities, a lift or personal elevator system may be necessary. Some citizens with disabilities will need financial assistance to build this type of access.

**Goals:**

- Provide lift systems or personal elevators to elevated homes occupied by people with disabilities.
- Provide financial assistance for other accessibility modifications to allow seniors and people with disabilities to live independently in the community.

**Project Description:**

Due to the storm surge from Hurricane Ike, all buildings in coastal areas, including Smith Point, Double Bayou, and Oak Island, will be required to elevate above the base flood elevation in order to obtain flood insurance. Minimum code requirements for a ramp require a minimum grade of 1:12 with a flat rest area every 30 feet. For example, in a case where a disabled person needs wheelchair access to his or her home, is elevated by 15 feet, a minimum ramp of 220 feet (wrapping around the home) would be required. With this amount of ramping, there would be a need for up to six switchbacks for a wheelchair to gain access to the home. This project will involve establishing a financing program to assist with the cost of installing these lift systems. The program would also provide funding for other accessibility modifications and assistive technology required by the individual. Examples would include, but not be limited to: design of units according to accessibility standards outlined in the Fair Housing Accessibility

Guidelines, additional electrical outlets in bedrooms to accommodate health care equipment; interior lift systems and assistive technology.

**Financial Considerations:**

Estimated Costs	
Elevator/ Lift systems installed (25 @ \$20,000 ea.)	\$500,000
Accessibility modification or assistive technology (100 @ \$5,000 ea)	\$500,000

**Potential Resources:**

- USDA
- Improvement/Repair Loans and Grants
- Veterans Administration
- Vocational Rehabilitation Services
- Texas Housing and Community Affairs
- Housing Trust Fund
- H-GAC
- HOME
  - CDBG program

# MARINE TRADES WORKFORCE HOUSING

**Recovery Value:** Community Interest

## **Background:**

The fishing industry is predominantly located in the county's communities of Smith Point and Oak Island. Because these are coastal communities situated along Trinity Bay, there were substantial damages to the housing stock. The oyster industry and workforce that provides its labor in Smith Point were devastated as a result of the Hurricane's forceful winds and massive flooding. Similarly, Oak Island lost nearly all of its housing which included affordable housing units for shrimpers and crabbers. The impacts from the storm not only damaged commercial interests but also had a devastating impact on workforce housing. As a result of inadequate housing in Smith Point and Oak Island, fisheries workers have been living in overcrowded conditions with as many as unrelated adults sharing a mobile home in some instances. To ensure the recovery of the highly important fisheries industry in Chambers County, affordable housing opportunities will have to be created.

## **Goals:**

- Provide safe, decent, affordable housing for fishery workers.
- Stabilize the county housing market in disaster affected communities.
- Maintain a workforce to support a primary industry in the county.

## **Project Description:**

The project is to develop four-plex affordable housing units clustered in a small development with a meeting room. To utilize the USDA Farm Labor Housing Loan and Grant program, either the "farmer" (aquaculture business proprietor) would need to sponsor the property, or the workers would need to form an association to act as the project sponsor.

## **Sustainability:**

Incorporate energy efficient features and utilize green building methods to the maximum extent possible.

## **Action Steps:**

- Execute long-term land lease, or a purchase and sale agreement
- Conduct feasibility, preliminary site plan, and schematic drawings
- Apply for funding
- Procure services of architect for developing construction document in accordance with federal procurement practices
- Utilize a competitive bid process to engage a general contractor
- Develop a fair housing marketing plan and property management plan
- Engage a professional property manager who is proficient with income certification and management of federally funded housing projects

## **Financial Considerations:**

HUD requires that 10% of CDBG funds from the disaster supplemental funding be used for affordable rental housing

### Estimated Costs

(4) quadplex building, each containing Four 900 sq. ft 2-bedroom units approximately 3600 sq/ft.

Estimated at a cost of \$80 sq/ft	\$1,224,000
Site work	\$ 200,000
Community meeting room	\$ 50,000

## **Potential Resources:**

USDA Rural Housing

- Section 514/516 Farm Labor Housing Loan and Grant program

HUD

- CDBG Disaster Housing Supplemental, second allocation

Federal Home Loan Bank of Dallas

- Affordable Housing Program

TDHCA

- Migrant Labor Housing Facilities
- Housing Tax Credits

# CONSTRUCT A LONG-TERM ELDER CARE FACILITY

**Recovery Value:** Moderate

**Background:**

The only long-term care institution in the middle section of Chambers County; along with other elder care facilities, was destroyed during the storm, leaving only one operational long-term care facility in the County, and exacerbating an already significant shortage of long-term elder/care programs and services. Recovery of the community will require the construction of a new long-term/elder care facility, providing for not only long-term care capabilities, but also respite and day care programs and services dedicated to supporting active and independent lifestyles for the elderly population capable of sustaining their own independence. This facility needs to be located within the mid-County area to serve those displaced by the facility that was destroyed, as well as additional seniors who may need or want the services.



**Goals:**

Develop and construct a new long-term/elder care facility. Provide long-term respite and day care for the elderly populations, as well as programs and services dedicated to supporting active and independent lifestyles for the elderly population capable of sustaining their own independence.

**Project Description:**

This project consists of constructing a new 120-bed nursing home (120 residents), with the additional capacity to provide for elder care services and programming. The facility design should incorporate space to program elder care services. These services would enable facility staff to reach out and serve the majority of the elderly population in the county with Home and Community-Based Health Services program. This will enable healthcare providers to serve seniors in their homes. This project will enable seniors to enjoy independent lives and provide them with services as well as an activities coordinator to plan and facilitate social activities.

**Financial Considerations:**

Estimated Costs \$7,500,000



**Potential Resources:**

- ORCA
- CDBG Supplemental Funding
- Rural Health Facility Capital
- Brazos Valley Community Action Agency
- Improvement Loan Fund Program - rural public and nonprofit hospitals
- TDHCA
- CDBG



# COMMUNITY FACILITIES & INFRASTRUCTURE

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# COMMUNITY FACILITIES & INFRASTRUCTURE

Community recovery will require projects that address a wide range of damage to infrastructure and facilities in Chambers County. The planning process identified facilities that will require improvement in order to achieve continued community development. Damaged roads need to be repaired and improved with lighting and lane marking, and drainage systems need to be cleaned and maintained. Bayous and Ditches throughout the county, including navigable waterways, also need to be restored or improved. In addition, restoration and improvements to levees and saltwater barriers are needed to provide safety from storm surge, and to deter the impacts of saltwater intrusion into the habitat.

The disaster highlighted the need for improvements to emergency response facilities and services in the county. The ChaRT Committee identified preparedness as a main priority. This includes rebuilding the fire station in Smith Point and Oak Island, hardening emergency management centers, and building a county-wide EMS operations center. Other projects target training and equipping emergency service professionals; installing an emergency siren system; upgrading communications and GPS capabilities; water rescue equipment and training; providing a training center for firefighters; and hiring more police officers. Additionally, the county proposes to maintain a fuel storage reserve for emergencies and disasters.

The following projects were developed to meet Chambers County community needs for facilities and infrastructure:

- Restore Saltwater Gates
- County-Wide Drainage Improvements
- Repair and Improve Roadways and Bridges
- County-Wide Parks and Recreation Master Plan
- Public Water System Improvements
- Construct Community Center/Firehouse
- Replace Water Supply Canal/Bayou Crossings
- Expand and Armor Lake Anahuac Levees

Of note, Smith Point community members expressed frustration with power fluctuations and outages in electrical service in their community. Local residents indicated that the provider had formulated a plan which would address these issues. The community is concerned that funding may not be available to implement the plan.

**Recovery Value:** Moderate

**Project Background:**

Approximately 30 saltwater gates are reported to have been damaged or destroyed by Ike in Chambers County. The post-storm condition of these barriers has not been documented as of yet, but drainage facilities and ecological systems upstream of these saltwater gates were freshwater prior to the storm. Where the saltwater gates were damaged or destroyed, these systems are now saline and tidal. Saltwater migrates inland in the drainage ditches and may be impacting freshwater intakes. Restoration of the saltwater gates will facilitate both the restoration of freshwater marshes and recovery of agricultural activities that are sensitive to salt intrusion.

**Goal:**

Restore saltwater gates to a condition that protects freshwater intakes from salt intrusion and supports marshes and ecological systems.

**Project Description:**

Conduct a study that determines the level of impact and develops a strategy for restoration of saltwater gates that have been damaged or destroyed. This study may consider recommendations for replacing structures and/or making functional improvements to them. The study will delineate watershed areas served by the saltwater gates to determine the impacts associated with replacing or not replacing the gates. The study will also develop and define preferred actions at each location. In addition, potential alternatives to in-kind replacement of creosote-treated heavy timber saltwater gates would

be studied. Alternate construction materials might include vinyl sheet piles or concrete. The possibility of modifying some gates with partial barriers that allow some saltwater intrusion may also be considered. This type of gate allows brackish conditions to be reestablished and also allows fish and wildlife to pass through the gate. This can be critical to sustaining populations of many coastal and deepwater species.

Agriculture cannot recover until the salt levels in which the areas drop by the study. Salt levels can be reduced naturally by rain and freshwater flushing of the fields. This will probably take place over the next several years, assuming normal rainfall. However, the portions of the agricultural lands that were protected by saltwater barriers will not recover without replacement of the barriers. Freshwater marshes will not recover if the saltwater barriers that protected them are not replaced.

**Options/Alternatives:**

Some of these gates could be replaced with gates that greatly reduce saltwater intrusion and still allow some mixing of salt and fresh water upstream of the gates. This would help reestablish some form of brackish systems and interchange of ecological dynamics between the marshes upstream of the barrier and the saltwater systems of the Trinity/Galveston Bay complex.

**Action Steps:**

- Conduct study to identify specific saltwater gates that have been damaged or destroyed, as well as extent of damage

- Evaluate each saltwater gate on a case-by-case basis to verify the continued need for restoration
- Identify preferred replacement method (type of structure) where appropriate
- Develop scope of work that includes detailed construction methods at each site. These methods must identify type of structure and how construction equipment will access the site. As part of this effort permitting issues need to be identified, both for the final facility and for the construction methodology.
- Once a scope of work is defined, develop cost estimates that include construction equipment mobilization to specific sites, as well as any access costs/issues
- Identify funding for replacement/mitigation of any eligible structures

**Financial Considerations:**

Estimated Costs

Study to Develop Replacement Recommendations	\$ 200,000
Replace 11 Saltwater gates with Concrete Structures	\$7,300,000 <sup>1</sup>

Additional work developed in the study

**Potential Resources:**

USDA NRCS

- Watershed Operations: Small Watershed Program, Flood Prevention Program

USACE

- Rehabilitation of Flood Control Works

<sup>1</sup> Cost based on estimate received from Trinity Bay Conservation District.

# COUNTY-WIDE DRAINAGE IMPROVEMENTS

**Recovery Value:** Community Interest

## **Background:**

Drainage facilities in Chambers County are an important element to maintaining quality of life within the community. Drainage ditches and facilities have become clogged with silt and debris. This material needs to be removed and the system needs to be improved and regularly maintained to limit or eliminate frequent localized flooding on streets and right-of-way in the county.



## **Goal:**

Reduce the risk of flooding in Chambers County by improving drainage systems and drainage systems management on a county-wide basis.

## **Project Description:**

This project has a range of components intended to improve the approach to developing and maintaining drainage facilities on a county-wide basis. The first component will create, fund, and staff a Chambers County Drainage Advisory Board. The first task of the Board would be to initiate a county-wide study / analysis of drainage issues in Chambers County. Elements may include: identify areas where new facilities and / or drainage district(s) may be required; identify areas where maintenance programs need to be improved or implemented, and—where appropriate—identify or develop funding structures to address these issues.

The study will also help define and manage disaster-related projects including: replacing approximately 30 timber bridges (access to maintenance ditches) that were destroyed in Hurricane Ike; providing more effective drainage in Anahuac by creating a drainage channel that drains directly west into Trinity Bay instead of east into Double Bayou; channelizing 1.5 miles of drainage ditch along Sixth Street in Winnie and line with concrete; constructing a new drainage ditch along the old railroad right-of-way between Stowell and Spindletop; and creating a new drainage district in west Chambers County with responsibility to clean out and maintain Cotton Bayou and Hackberry Bayou.

## **Action Steps:**

- Create, fund, and staff Chambers County Drainage Advisory Board
- Undertake a county-wide drainage study

## **Financial Considerations:**

Cost Estimate:

Create new Anahuac drainage ditch flowing directly west to Trinity Bay. TBD  
Channelize 1.5 miles of drainage ditch along Sixth Street in Winnie and line with concrete. TBD  
Construct a new drainage ditch along the old railroad right of way between Stowell and Spindletop. TBD  
Create a new Drainage District in west Chambers County with responsibility to clean out and maintain Cotton Bayou and Hackberry Bayou. TBD  
Replace approximately 30 timber bridges which provide maintenance access to drainage canals. \$6,000,000<sup>1</sup>

## **Potential Resources:**

ORCA

- CDBG

USDA NRCS

- Watershed Operations: Small Watershed Program,
- Flood Prevention Program

USACE

- Rehabilitation of Flood Control Works

<sup>1</sup> Cost based on estimate received from Trinity Bay Conservation District.

# REPAIR AND IMPROVE ROADWAYS AND BRIDGES

**Recovery Value:** Community Interest

**Background:**

Transportation serves residents and business and is critical to evacuation during times of emergency. County roads were damaged by flooding as well as disaster response activities. In addition, many roadways and bridges are in need of improvement either to eliminate flooding or to improve capacity and access.

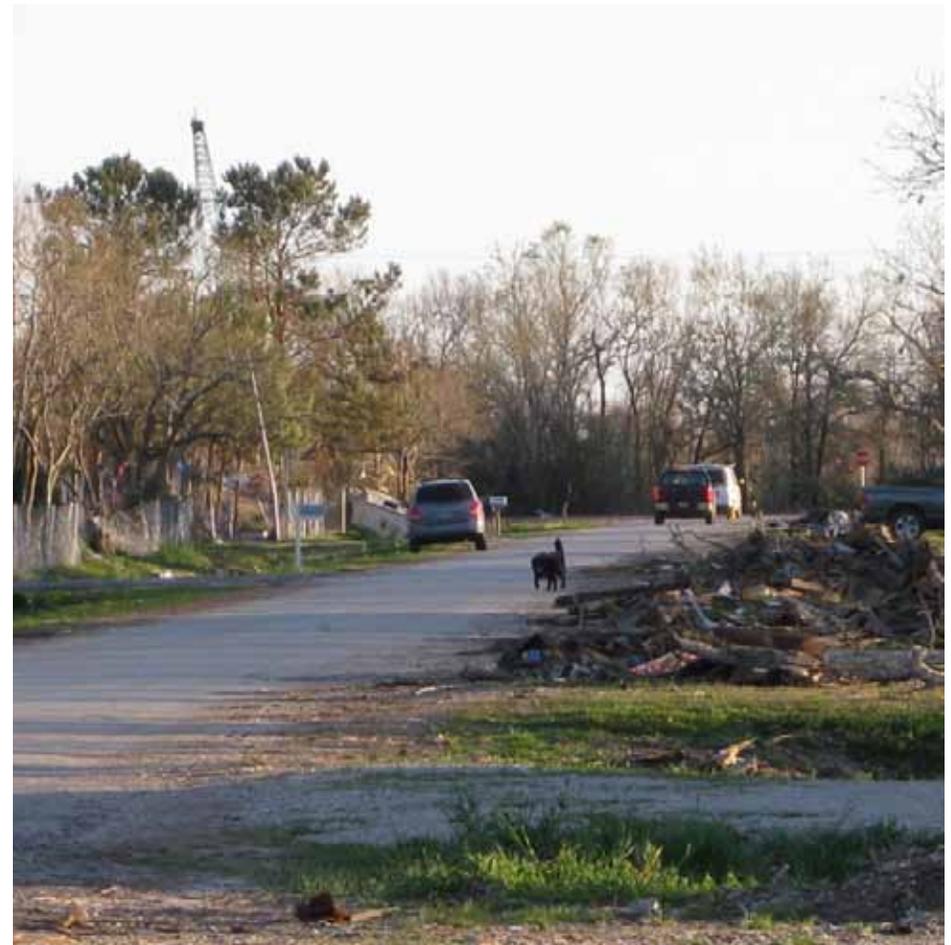
**Goal:**

Repair Ike-related damages, improve and upgrade roads and bridges for better county access and resiliency in future storm events.

**Project Description:**

This project proposes the development of the County Roadway and Bridge Improvement Program. This program will identify improvement needs, define the projects, and establish a funding program for annual repairs and improvements. The individual roadway and bridge improvement projects identified so far include:

- Raise Bridge and Approaches for FM 562 Over Lone Oak Bayou. This project will mitigate the sole evacuation and access route out of Smith Point community during and after storm events.
- Improve community roads in Smith Point, Oak Island, and Double Bayou by widening them enough to stripe with centerline and fog line.
- Extend the State Highway into Oak Island along the FM 563 Corridor.
- Expand Loughridge Subdivision access bridge from one lane to two lanes to better accommodate traffic.
- Replace Bailey Road Bridge with upgraded structure.
- Manage disaster-related roadway repairs including restoration of road subgrades and surfaces damaged both by the storm event and by recovery operations in Smith Point and in Oak Island.



# COUNTY-WIDE PARKS AND RECREATION MASTER PLAN



**Recovery Value:** Moderate

## **Background:**

County park facilities were significantly damaged by wind and storm surge caused by Hurricane Ike. This damage coupled with the strong community desire to improve park facilities county-wide has created the opportunity to develop a Parks Master Plan for Chambers County.

## **Goals:**

Create a vibrant parks and recreation system in Chambers County by improving utilization of existing resources and identifying opportunities to expand the current park system. Improve connectivity between the parks themselves and the communities of Chambers County. Improve public access to waterfront facilities.

## **Project Description:**

The first task in this project is to staff and fund the Chambers County Parks Advisory Board. The Advisory Board will launch a Chambers County Parks Master Plan. Projects to be addressed in the

Master Plan include, but are not limited to:

- Anahuac Board Walk
- Anahuac Walking Trail
- Fort Anahuac Reconstruction
- Old-Town Wallisville Board Walk
- New Park on Cedar Bayou
- Double Bayou Park in Double Bayou
- Job Beason Park in Oak Island
- Identify new opportunities for waterfront access including piers, wade fishing, etc.

The Master Plan will also address maintenance of both existing parks and proposed new parks and establish a maintenance budget as well as funding mechanisms. Ongoing disaster-related park projects that will require local management oversight will also be considered and included. This study should also incorporate the results from the Chambers County Greenprint project—and to the extent feasible—should incorporate the accomplishments of that project.

## **Action Steps:**

- Implement, staff, and fund Chambers County Parks Advisory Board
- Develop Chambers County Parks Master Plan
- Restore McCollum Park
- Restore Robbins Park
- Restore Anahuac boat ramp

## **Financial Considerations:**

Estimated Costs

Master Plan Development      \$250,000

## **Potential Resources:**

David and Lucille Packard Foundation

- Seeks to protect and restore coasts

TPWD

- Outdoor Facilities Program
- Wildlife and Sport Fish Restoration Program

U. S. Department of Interior

- Land and Water Conservation Fund State Grant Program

Valero Energy

- Supports parks, recreation and playgrounds

# PUBLIC WATER SYSTEM IMPROVEMENTS

**Recovery Value:** Moderate

**Background:**

Hurricane Ike damaged the water supply facilities in coastal communities. As repairs are being planned, the community recovery planning process identified opportunities to improve the water supply and delivery systems in central Chambers County. These improvements will provide system resilience during storm events, increase capacity during firefighting events, and improve economic opportunities.

**Goals:**

- Improve water supply and delivery systems in the central part of the county.
- Ensure that water supply and delivery systems are secure from future storm impacts.
- Improve community safety and expand economic opportunities.

**Project Description:**

This project has a number of components, including improving water mains and pressure in three unincorporated communities, expanding an existing reservoir and building a new high capacity water main along I-10.

Projects include:

- Double Bayou - Provide a ground-based storage tank, improve water main configuration (pipe size and looped pipe network), and improve area coverage of fire hydrants for adequate pressure and flow while fighting fires.
- Oak Island - Improve water main configuration (pipe size and looped pipe network) and improve area coverage of fire hydrants to provide adequate pressure and flow while fighting fires.
- Smith Point - Provide a ground-based storage tank, improve water main configuration (pipe size and looped pipe network) and improve area coverage of fire hydrants to provide adequate pressure and flow while fighting fires.
- Trinity Bay Conservation District - Expand the district's West Plant Reservoir from a capacity of approximately 90 days to a capacity of six to eight months.
- I-10 Corridor - Construct a 20" water main along the I-10 corridor from the Trinity River to Winnie. This main will serve future development planned within this corridor.

**Financial Considerations:**

Estimated Costs

Improve fire supply system in the Double Bayou	TBD
Improve fire supply system in the Smith Point	\$3,600,000
Improve fire supply system in the Oak Island	TBD
Expand West Plant Reservoir	\$1,300,000
Construct 20 Inch Water Main along I-10 Corridor	TBD

**Potential Resources:**

Texas Forest Service

- Provides cost-share grants to rural volunteer fire departments
- US Department of Homeland Security/FEMA
- Assistance to firefighters
- USDA Rural Development
- Public Services Assistance
- ORCA
- CDBG

# PUBLIC SEWER SYSTEM IMPROVEMENTS



**Recovery Value:** Moderate

## **Background:**

Existing sewer systems in Chambers County do not serve all residents and are in need of improvements. Some of the facilities, such as the Oak Island sewage treatment plant were damaged during Hurricane Ike. There is an opportunity to expand and improve upon this facility to better serve residents and provide service to areas in the county that are not currently served by sewage treatment plants. This project seeks to protect water quality in the county.

## **Goals:**

- Improve public sewer systems in Chambers County.
- Reduce environmental impacts/protect water quality during storm events and under normal operational conditions.

## **Project Description:**

This project includes several components that will improve the handling and treatment of sewage in Chambers County. The first component will increase connections to a new sewer plant in the Smith Point area.

The sewage treatment plant under construction in Smith Point currently has sufficient funding to connect to approximately 10 percent of the houses in Smith Point. The proposed project increases the number of homes that are connected to the new plant.

The second component of the project involves a wetlands-based treatment plant in the Hankamer area of Chambers County. This projects includes identifying funds to expand this plant to a 1.9 million gallons per day (mgd) capacity and increase service to a broader area. The local service provider also plans to construct a 1.9 mgd wetlands-based sewage treatment facility in the area south of Anahuac. This would allow the facility to widen their service area to Double Bayou, which is currently on septic systems. The new expanded facility would also replace the existing conventional sewage treatment plant at Oak Island.

## **Sustainable Initiatives:**

Wetland-based sewage treatment systems have low capital and operational costs. They are also ecologically friendly and frequently support thriving ecosystems. In coastal zones such as Smith Point

the primary alternative is on-site septic, which can cause water quality problems associated with nutrient contamination of surface and ground waters.

## **Financial Considerations:**

Estimated Costs

Smith Point wetlands sewage treatment plant.	\$2,200,000
Expand Hankamer wetlands sewage treatment.	TBD
Build new Anahuac wetlands treatment plant.	TBD

## **Potential Resources:**

- ORCA
- CDBG
- USDA/Rural Development
- Water and Waste Disposal Program
- EPA
- Clean Water State Revolving Loan Fund
- Wastewater Facilities

# COMMUNITY CENTER/FIREHOUSE, NEW AND IMPROVED

**Recovery Value:** Moderate

**Background:**

Within rural communities fire halls provide a social gathering place and a location to house equipment for emergency services. Smith Point, Oak Island and Double Bayou all share this relationship to their communities. This project proposes to rebuild or renovate the fire stations with a community center thus expanding its services. The previous Oak Island station was destroyed by Hurricane Ike and needs to be replaced. The station at Smith Point, while intact, is too small to accommodate existing equipment. Double Bayou requires renovation work to its community center to bring the facility to standard.

**Goal:**

Establish multipurpose facilities for social, informational, and emergency support functions.

**Project Description:**

This project proposes to construct two community center/firehouse projects (Smith Point and Oak Island) and renovate one existing community center (Double Bayou). All community center/fire stations should be integrated with a plaza or outdoor common area as its focus. The plaza will serve as a gathering space for communal functions and or emergency event staging. The plaza itself would be accessible physically and visually to the community. This center will serve four (4) separate primary functions,

providing a large multipurpose space for community meetings and events (80 to 100 people); a learning center; an information and receiving area; and a small meeting room. Space for mobile clinic use, storage facilities, restrooms, and utility rooms will all be sized appropriately in support of all its uses. The facility should be constructed to continue to operate during a disaster, using sheltered emergency generators for back-up power. The large multipurpose space can also serve as a place to shelter residents and responders in the case of an emergency. Its design should take into account the needs of emergency responder operations as well as a communal event space.

The firehouse in Oak Island is currently designed with the capability to house five (5) trucks with minimal support facilities. It calls for a 40'x80' footprint as a stand alone structure. However, this project seeks to combine the fire station with the community center for a more efficient and expansive use. Along with housing the trucks, storage, laundry, and a restroom with shower facilities will be provided in a support section of the structure. In its current design, the fire station is meant to provide the base means of emergency service to the community. In the event of an disaster, the fire station in Double Bayou has additional support services for the Oak Island Volunteer Fire Department.

**Sustainable Opportunities:**

Coordinate design and construction for all community centers for cost savings. Build structures to LEED® certified green building criteria.

**Financial Considerations:**

Estimated Costs

Building construction costs for Smith Point Community Center	\$618,000
Building construction costs for Oak Island Community Center	\$618,000
Building construction costs for Smith Point Fire Station	\$384,000
Building construction costs for Oak Island Fire Station	\$384,000
Smith Point site development and soft costs	\$450,500
Oak Island site development and soft costs	\$450,500
Double Bayou Community Center – improvements	TBD

**Potential Resources:**

- USDA Rural Assistance Center  
Community Facilities Loans and Grants Program
- Texas Forest Service  
Provides cost-share grants to rural volunteer fire departments
- US Department of Homeland Security/FEMA  
Assistance to Firefighters Grant

# REPLACE WATER SUPPLY CANAL/BAYOU CROSSINGS



**Recovery Value:** Moderate

**Background:**

The main water supply canal for central Chambers County intersects or crosses bayous in several locations. The structures in some of these locations are very old and at some risk for failure. During the community input process, residents identified this as an opportunity to improve upon facilities that were not directly impacted in the disaster.

**Goal:**

Replace obsolete critical structures that transport a major water supply canal across bayous.

**Project Description:**

A wooden flume currently carries the main water supply canal of Chambers and Liberty Counties' Navigation District (CLCND) across the Double Bayou. One component of this project would replace this structure with an inverted siphon. The main CLCND water supply canal also crosses Oyster Bayou at a location where old railroad tank cars were welded together to form a culvert. The culvert carries

Oyster Bayou under the canal. (Note: The main CLCND canal has also been named the Lone Star Canal in the past.)

**Financial Considerations:**

Estimated Costs	
Replace wooden flume	TBD
Replace railroad tank cars	TBD

**Potential Resources:**

- ORCA
- CDBG

# LAKE ANAHUAC LEVEES EXPAND AND ARMOR



## Background:

Hurricane Ike caused severe damage to the 6-mile levee system along the northern and western shore of Lake Anahuac. This levee system protects Lake Anahuac a fresh water reservoir from contamination with saltwater from the Trinity River Estuary. Lake Anahuac supplies fresh water to much of central and east Chambers County. Wind-driven waves also eroded the embankment on the east shore of the lake, putting several homes at risk.

## Goal:

- Restore and improve the flood protection system on the west side of Lake Anahuac, both to recover from Hurricane Ike and to increase resiliency and protect the water supply during future storms.
- Mitigate future risk to private residences on the shoreline of the east side of the lake.

## Project Description:

The damage to the levees on the west side of the lake has been partially repaired by constructing a temporary earthen embankment. The proposed project will complete construction of the full levee section, armor the levees against future damage, and protect the embankment on the east shoreline of Lake Anahuac.

## Action Step:

Coordinate with the US Army Corps of Engineers to discuss current design of repairs and recommend improvements

## Financial Considerations:

### Estimated Costs

Rebuild and armor levee on west and north shore of Lake Anahuac	\$5,700,000
Rebuild and reinforce embankment on east shore of Lake Anahuac	\$4,200,000

## Potential Resources:

### USACE

- Operations and Maintenance funding and stimulus funding



# ECONOMICS AND INDUSTRY

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# ECONOMICS AND INDUSTRY

Three goals have been identified by the community to address long-term economic issues:

- Develop an Eco-Industrial Park that enhances the productivity of the existing Waste Disposal Plant and Recycling Plant and provides opportunities for other ecologically-based industries.
- Develop a new Industrial Park in East Chambers targeting ancillary and supplier businesses that support the Motiva refinery expansion and other petrochemical concerns.
- Encourage new commercial development along Interstate 10 by providing new infrastructure development through the creation of a new Tax Increment Financing District.

These are seven (7) projects intended to stimulate the County's economy:

- Workforce Development Focused Industry Training Academy
- East Chambers Industrial Park/Eco-Industrial Park
- Agriculture Infrastructure Revolving Loan Fund
- Commercial Fishing Industry Coalition Fund
- Public Oyster Reef Restoration
- AgLand Mapping and Reuse Assessment
- Ecotourism Marketing and Outreach

# WORKFORCE DEVELOPMENT FOCUSED INDUSTRY TRAINING ACADEMY

**Recovery Value:** High

**Background:**

The critical mass of the statewide petrochemical industry, including plants, pipelines, supply and transportation, will continue to be a vibrant industry in Texas. However, existing industry will need to upgrade its capacity to maintain global competitiveness. As an example, Motiva, one of the preeminent Gulf Coast refineries located on the Neches River, manufactures gasolines, aviation fuel, diesel, industrial fuel oil, lubricating oils and petrochemical feedstocks. A significant expansion of the Motiva facilities and operations is currently underway. A trained and available workforce will be needed to support the expansion. In addition to Motiva and other refineries to the east of Chambers County, a thriving petrochemical industry also exists in west Chambers County. These facilities provide jobs to the county's workforce and are within reasonable commuting distance in the adjacent localities. This supports the opportunity to initiate a Workforce Training Academy focused on teaching skills required by the petrochemical industry. In addition, there is connectivity with the Workforce Development training opportunities and the Education, Health and Human Services sector of this plan because the Bayside Community Hospital initiatives include the expansion of healthcare facilities and services.

**Goal:**

Establish a Workforce Development Academy with an emphasis on petrochemical manufacturing and technology, light manufacturing, Build a local workforce in eco-technology that will be attractive to recruiting related industry to Chambers County. Healthcare-related jobs, with a particular emphasis on certified nursing assistants (CNAs), licensed vocational nurses (LVNs) and registered nurses (RNs) to support the expansion and/or regionalization of the local area hospital(s), develop training programs for potential job options.

**Project Description:**

The Workforce Academy will integrate education and skill development, support economic development, and establish an educated and skilled workforce for targeted industries. It will also provide technical and vocational training to high school and community college students as an integrated part of their curriculum. The program will allow high school students to earn college credits and to obtain focused industry training certifications. Paid internships will also expose students to skills and on-the-job training for higher paying careers instead of low-paying jobs with few advancement opportunities. The targeted industries include petrochemical, industrial technology, eco-industrial and light manufacturing, and health care. The Lamar Institute of Technology currently offers job readiness training and certificated

courses in allied health and industrial education through its existing workforce training programs. Specialized curricula will be developed for particular jobs in the petrochemical industry to meet demands for the Motiva expansion. Job readiness training and GED preparation as well as resources and information on workforce development and supportive services such as day care and transportation needs are also planned for the Workforce Academy. The academy will house a Business Development Center (BDC) to service middle and eastern Chambers County in cooperation with the existing program at Lee College. The BDC will provide business counseling to start-ups and existing businesses, offering advice in marketing, finance, and technology matters while supporting a business incubator housed in the eco-industrial and light manufacturing park.

**Potential Resources:**

US Department of Labor

- Adult Job Training and Dislocated Worker Programs - ARRA (Stimulus) and WIA (regular allocation)

HUD

- CDBG - Public Services Grants for supportive services

US Department of Transportation

- Job Access Reverse Commute for transportation supportive services

# EAST CHAMBERS INDUSTRIAL PARK

**Recovery Value:** Community Interest

## **Background:**

This project supports Chamber County's goal to increase available jobs by creating opportunities for light industrial businesses to locate in the county. East Chambers Industrial Park will benefit Motiva Port Arthur Refinery, Total Petrochemicals USA, Inc., Valero Port Arthur Refinery and other petrochemical and industrial businesses by providing sites for suppliers and ancillary businesses to locate in close proximity to these industries. In addition, this project seeks to expand upon the underutilization of opportunities with the existing solid waste disposal and recycling facilities in the county by building an eco-industrial park that will attract suppliers and related businesses. This project will provide increased employment opportunities for individuals who are unemployed as a result of business closures

due to storm damages. This project will also increase local employment opportunities to graduates of the Workforce Training Academy project within the county. This project encourages the establishment of new business in Chambers County and the expansion of existing business.

## **Goals:**

- Expand industrial employment opportunities.
- Enable existing industry to expand and attract new industry.

## **Project Description:**

Through the public/private initiatives, acquire and improve 493 acres of land for the creation of the East Chambers Industrial Park. Develop the site with suitable infrastructure to incentivize and attract businesses that provide inputs/outputs for the Motiva expansion in Port Arthur, and other light manufacturing businesses. The scope of the project will include site preparation (grading, clearing, etc.), utilities, roads, and detention pond construction. There will be 96 acres of roads and approximately 41 acres utilized for detention ponds. The industrial park will include 29 lots with an average size of 10 acres.

Eco-Industrial Park: Acquire and improve land and provide suitable sites for location of industries that complement the two (2) existing

businesses in the area: BFI Industrial Waste Disposal Plant and the Chambers County Recycling Center. Establish a business incubator that will create new jobs, expand technology innovations, and diversify industry in the county. A training center is included in the scope in order to provide ready and available labor for job creation efforts in light manufacturing and technology in the industrial park and the incubator. The training center also provides an opportunity for research and development related to new technology and business innovation. This training center can be housed either in the Workforce Training Academy or on site at the Eco-Industrial Park.

## **Potential Resources:**

TIF District: The scope of the project is to create a tax increment district between Winnie and Wallisville along Interstate 10. The additional revenues from the increment will be applied to infrastructure costs such as water, sewer and drainage.

US Department of Labor, EDA

- Adult employment and training activities, and related supportive services,

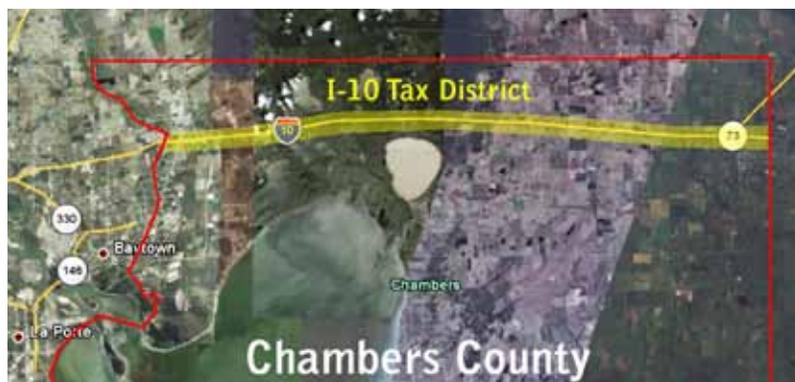
HUD

- CDBG Regular Allocation

US Department of Transportation

- ARRA - Highway Infrastructure Investment; STIP

USDA Rural Development Programs



# AGRICULTURE INFRASTRUCTURE REVOLVING LOAN FUND

**Recovery Value:** Moderate

**Background:**

As a result of the damages and impacts from Hurricane Ike, substantial amounts of agricultural land are now unable to produce healthy crops and grazing pastures. Saltwater intrusion from storm surge flooded more than half a million acres of land, devastating many cattle ranchers and rice farmers, the two main agricultural activities in the Southeast Texas region. Texas ranks number four nationally in the production of long-grain rice. The region's Agriculture Extension Services estimates cattle losses at \$13.3 million and \$92.6 million in lost business activity. Also, the lumber industry losses are estimated at \$351 million, \$15 million in lost equipment and buildings, and an \$11 million loss for rice crops. The Chambers County AgriLife Extension Service anticipates a recovery period between six months and four years for the agricultural lands to recover from the saltwater intrusion; a similar period is anticipated to allow productive uses for the lands. The recent drought conditions and rain deficits are likely to extend the recovery period beyond the anticipated range of time. This project establishes an Agricultural Infrastructure Revolving Loan Fund for the region to provide capital for ranchers and farmers to maintain agricultural production.

**Goal:**

Retain 95 percent of agribusiness in Chambers County by creating a fund for immediate capital to ranchers and farmers.

**Project Description:**

A low-interest loan program for ranchers and farmers would be used to implement long-term recovery efforts such as pasture restoration, soil remediation, reestablishment of crops, wetlands restoration, water wells and ponds, and road widening for evacuation and safe movement of herds during storms. The proposed revolving loan fund would allow for a short-term interim financing source until federal funding becomes available. For example, an estimated 1,500 miles of fencing was wiped away by the hurricane. The cost of replacing fencing can be \$10,000 per mile. Ranchers who have submitted applications to Farm Service Agency or other USDA programs are suffering due to delays in processing applications. A revolving loan fund that acts as a bridge loan for fence replacement expedites the recovery process for ranchers who cannot herd and graze cattle on their own lands and are paying lease payments for other available herding and grazing land. Also, the revolving loan fund provide financing for farmers and ranchers to dig ponds and wells, allowing them to irrigate their lands until the freshwater pumps

are repaired at the Chambers Liberty Counties Navigation District (CLCND). If drought conditions persist, the revolving loan fund will provide financing for the farmers and ranchers to purchase water from Anahuac or other sources for irrigation purposes. Funding will be provided directly to farmers and ranchers for road widening along State Highway 46 for evacuation of cattle and other farm animals and equipment. The fund could dedicate certain revenues as match monies for a related road project; or it could apply program interest toward a road repair fund.

**Financial Considerations:**

Estimated Costs           \$10,000,000

**Potential Resources:**

- USDA
- Emergency Conservation Program
- Texas Department of Agriculture
- Texas Agricultural Finance Authority
- USDA
- Business and Industry Guaranteed Loans

# COMMERCIAL FISHING INDUSTRY COALITION FUND

**Recovery Value:** Moderate

**Background:**

Trinity Bay is a 20-mile expanse of water at the mouth of the Trinity River situated at the northeast portion of Galveston Bay; it is bordered by Chambers and Harris counties. The entire system includes Trinity Bay, East Bay, and Galveston Bay. A source of water supply in Chambers County, Trinity Bay is an economic generator through the marine trades. Commercial fishing in Galveston Bay generates an estimated \$100 million annually. While the oystermen are primarily located in Smith Point, there are also groups of crabbers and shrimpers in Oak Island and along Double Bayou in Chambers County. The benefits of the Trinity Bay fisheries extend beyond the Chambers County borders also sustaining Galveston County. The Galveston Bay system yields a total annual harvest of approximately 9 million pounds of shrimp and 3 million pounds of oysters. As a result of Hurricane Ike, about half of the oyster reefs were suffocated by sediment and the cost of restoring these reefs is estimated to be \$320 million. In addition to the oyster reef destruction, approximately 1,742 fishing boats were damaged by the storm and about half the bay system's small boat access points were either damaged or destroyed. Supplier businesses such as bait camps were also impacted by the disaster, with some losing their businesses and/or their customers. The majority of Vietnamese-American fishermen on Oak Island were particularly devastated. Food processors and restaurants were also devastated by the storm's impact on the commercial fishing industry.

**Goal:**

Retain and reestablish at least 90 percent of the fisheries and food processors in Chambers County and to create 25 to 30 jobs in food handling and technological innovations related to the commercial fishing industry.

**Project Description:**

Establish a Commercial Fishing Industry Coalition Fund to cover gaps in financing and assist the coalition members toward full recovery, allowing the industry to return to its prestorm harvesting and processing capacity. The fund would aid in rebuilding the commercial fishing infrastructure. A portion of the fund would be utilized to monitor underwater debris and water quality. The fund would also provide assistance to local fisheries to rebuild docks, marinas, launches, ice houses, fuel docks and processing plants. Funding assistance may also include repair and replacement of boats and harvest vessels, other gear and equipment; compensation for losses to related uninsured inventory and accounts receivables; affordable insurance or subsidies for seafood processors; and underwater debris monitoring and overall water quality monitoring. A marketing campaign could also be funded to promote the region's commercial fishing industry. With workforce development, training, and certifications in food handling and technological innovations and research components, the fund will advance the fisheries to recovery.

Texas General Land Office (GLO) has begun activities related to wet debris removal. However, this is only a part of what will be required; to rehabilitate the commercial fishing industry.

Texas Sea Grant has proposed a "work fare" program that would allow local fishermen to take on contract work related to wet debris removal with GLO.

The Texas Parks and Wildlife Department has applied to the NOAA for \$3 million to fund oyster habitat reclamation/restoration and for \$625,000 for fishery access rehabilitation. This funding, if awarded, would cover only 10 percent of the total estimated habitat reclamation/restoration costs.

**Potential Resources:**

US Department of Commerce EDA

- Planning

HUD

- CDBG Supplemental and Regular Allocations

EPA/NOAA

- TX Sea Grant
- NACO Coastal Counties Initiative

# PUBLIC OYSTER REEF RESTORATION TRINITY GALVESTON BAY COMPLEX



**Recovery Value:** Community Interest

## **Background:**

Public oyster reefs in the Trinity/Galveston Bay complex were damaged and/or disrupted due to siltation and debris brought in by Hurricane Ike. Debris and siltation reduce oyster production and impact the economic livelihood of Oystermen. Oyster production and harvesting are significant components of the county's economic base, providing employment opportunities to residents living along the bay and derived revenue-generation for the county.

## **Goals:**

- Restore strata which will allow oysters to recolonize and repopulate areas of oyster reef destroyed by Hurricane Ike.
- Restore financial opportunities to oyster fishermen.

## **Project Description:**

Oystering is a significant economic contributor to Southeast Texas and the permanent loss of oyster reefs will hamper this region's ability to recover from the storm and to thrive in the long term. Oysters will not colonize sedimentary benthos. Their recovery is contingent on providing a suitable substrate. Oysters also provide a significant contribution to cleaning bay water, with each oyster filtering on the order of two gallons per hour. While significant quantities of oyster shell remain in the Trinity/Galveston Bay complex, they were buried in silt in the storm. Information from previous storms indicate that oyster beds will not recolonize on a silt bottom. For oysters to recolonize an area, they need a suitable stratum on which to anchor themselves, preferably oyster shell. A relatively cost-effective way to reestablish the oyster reefs could be to dredge the oyster shell from below the sediments and deposit them on the sediment. Oyster shell has been successfully dredged before, primarily for creating upland roads. To determine the most cost-effective way to dredge the oyster shell and redeposit it on the sediments, the community needs to complete a feasibility study. This study will identify the nature of the sediment currently topping the oyster shell and seek the most cost-effective way to prevent it from resettling on the newly deposited oyster shell. The sediment analysis will require potentially widespread sampling to identify sediment characteristics and remediation areas. Colonization may also require field evaluation.

## **Action Steps:**

- Conduct a workshop that brings permitting agencies and industry leaders to the table to work out methods for getting this project completed quickly
- Contact Oystermen in Louisiana to learn about how the oyster beds there recovered from hurricane events
- Conduct a feasibility study for bed restoration

## **Financial Considerations:**

The preliminary estimate to buy oyster shell catch and use it as a basis for recolonization is \$300 million; however, much of this cost is derived from the price of purchased oyster shell. Significant reserves of oyster shell currently exist beneath sediments deposited by Hurricane Ike. It should be relatively inexpensive to dredge these reserves and move them to the surface of the sediments.

## **Potential Resources:**

NOAA

- NOAA's Fisheries Service award to Texas to restore and rebuild the state's fish habitats and fishing industries devastated by hurricanes Gustav and Ike

USDA/Rural Business-Cooperative Service

- Business and Industrial Loans

National Fish and Wildlife Foundation

- Matching grants to projects that address the promotion of fish and wildlife conservation and the habitats on which they depend

USDA Rural Development Programs

- Rural Business Enterprise Grant Program

# AGLAND MAPPING AND REUSE ASSESSMENT

## Background:

The existing land use pattern for Chambers County is primarily rural with significant portions of land in uncategorized areas such as agricultural, vacant, wildlife or natural preservation and public. As a result of the damages from Hurricane Ike, substantial amounts of agricultural land is now unproductive. Saltwater intrusion from storm surge flooded more than half a million acres of land, devastating many cattle ranchers and rice farmers, the two main agricultural producers in the Southeast Texas region.

## Goals:

- Increase property tax revenues through land use opportunities by at least 10 percent.
- Create 50 new jobs related to alternative agricultural uses.

## Project Description:

The project involves mapping of underutilized and unused land throughout Chambers County. The mapping process will assess the agricultural condition of the land based on real or perceived limitations for agricultural productivity. The mapping data will be analyzed and used to assist farmers/land owners to identify opportunities to convert the land to productive and beneficial uses, such as for bio-fuel production, or other renewable energy resources. Other alternative uses may include temporary conservation practices, resulting in practices that are nonpermanent in nature. This program is intended to provide alternative sources of income to farmers and ranchers, as well as additional property tax revenues and other revenue-generation benefits to the county.

Other ideas for the land include wind energy farms or growing algae for Omega-3 oils for use in the pharmaceuticals and food industries. As part of the larger benefit and incentive to farmers and ranchers for this project, the development and construction of an ethanol plant will be studied for feasibility. The ethanol plant would provide a means for farmers and rancher to sell their alternative crop products such as biofuels.

## Options and Opportunities

- Complete a prefeasibility evaluation by the Baytown-West Chambers County Economic Development Foundation (EDF) for an ethanol plant. In a 2006 analysis:
  - The EDF estimates that one-sixth of all gasoline consumed in the United States is produced along the Interstate 10 corridor between Houston and New Orleans.
  - As of May 2006, there were there (3) ethanol plants planned for the State of Texas; however, none of the plants were planned for the Southeast Region.
  - Based on 2005 data, there were 610,000 acres available for or designated as rice production in the Houston region including Chambers County; the EDF study shows that 220,000 of those acres were actually planted.
  - The EDF study concludes that the geographic area is suitable for ethanol production and that affordable alternatives to corn exist such as raw sugar, sugarcane, sugar beets, refined beet sugar, molasses, and/or grain sorghum-derived ethanol.

- The plant would create approximately 40 to 50 new jobs. In addition, the ranchers and farmers would be able to retain their business operations by putting their agricultural lands to alternative uses that would serve as a supplier to the ethanol plant.
- Develop an ethanol plant for AgLand Suppliers to sell their biofuels products, if feasible

## Sustainable Opportunities:

Preserves agricultural lands. Create a wind farm to conserve energy.

## Potential Resources:

EPA

USDA

- Emergency Conservation Program (ECP); Emergency Loan Program (EM); Disaster Debt Set-Aside Program funding for debris removal, restoring fences and repairing conservation structures; FSA low interest loans for production and physical loss; FSA loan payments deferred due to disaster
- Technical Assistance programs Texas Department of Agriculture
- Interest Rate Reduction Program - disaster relief low interest loans to refinance existing agricultural debt

# ECOTOURISM MARKETING AND OUTREACH

## Background:

Tourism has been an important economic engine for Chambers County. A wide range of natural resources, habitat and bird sanctuaries provided opportunities to local entrepreneurs to establish ecological or nature tourism operations in the County. Damages to the habitat, parks, boat ramps, businesses, and waterways have disrupted the ecotourism traffic to Chambers County. It is important to maintain economic diversity by restoring the features that have attracted ecotourists to the county.

## Goals:

- Attract additional ecotourism to Chambers County.
- Restore parks and facilities that attract visitors to the County.

## Project Description:

Increase awareness of Chambers County as a ecotourism destination through branding, marketing, signage, and festival events. Establish “branding” of Chambers County ecotourism destination focused on bird watching, the county-wide greenways trail system, parks, boat launches, hunting opportunities, and marketing events and festivals. Such branding would include a name that is used to identify Chambers as an ecotourism destination, such as “the greenway eco-trail”, or “the bird watching capital”. Establish such marketing campaign elements as pamphlets, a welcome guide, and media and ad

coverage describing the diverse park systems, birding opportunities, boat launches and fishing piers, beaches, tours, hunting opportunities, restaurants, markets and festivals, and other events. Establish an events schedule for such activities, which would include shows at the amphitheater, pavilion and parks; festivals, (including Gatorfest and a new bird watching festival). Include other attractions and ecoservices, such as visiting the oyster fleet, kayaking tours, charter guide services, horseback riding, excursions, and beaches. Also, encourage establishment of a seafood market, a farmers market, bed and breakfast establishments, inns, ecolodges, boutique or specialty stores, and other complementary and ancillary businesses.

## Potential Resources:

- NOAA
- Coastal and Marine Habitat Restoration Project Grants-Recovery Act
- Department of Interior/USFWS
- National Coastal Wetlands
- Newfield Foundation
- Supports programs designed to promote the environment
- Department of the Interior/ USFWS
- Pittman-Robertson Wildlife Restoration Program
- Fund for Wild Nature





# EDUCATION, HEALTH AND HUMAN SERVICES

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# EDUCATION, HEALTH AND HUMAN SERVICES

Education, Health, and Human Services in Chambers County contributes to the quality of life of the community and play a critical role in its community identity, and long-term recovery. Hurricane Ike destroyed or severely damaged key community facilities such as the Bayside Clinic. While the hurricane had a devastating impact, it provides an opportunity to improve those facilities and services that are critical to local residents' quality of life and resiliency. The projects in this section will build upon existing strengths and assets while striving to meet the current and future needs of the community. Certain projects such as rebuilding the clinic or expanding and strengthening the hospital are not only critical to the county's future, but also provide an opportunity to establish a more comprehensive, coordinated network of health and human services.

There are five (5) projects in this section of the Recovery Plan:

- Expand and Improve Access to Medical Services
- Bayside Community Hospital Initiatives
- Improved Emergency Services
- Improved Emergency Operations Facilities
- Expand and Strengthen Social Services

# EXPAND AND IMPROVE ACCESS TO MEDICAL SERVICES



**Recovery Value:** Community Interest

**Background:**

Access to medical services is a county-wide concern. Location, resiliency, sustainability, and a capacity for service delivery are all issues identified by medical service providers within Chambers County.

**Goal:**

Increase access to medical services and protect medical facilities in Chambers County.

**Project Description:**

As a means to address location, resiliency, sustainability, and capacity for delivery of services, the following expansion and/or improvement activities have been identified as priorities of Chambers County residents:

- Strengthen the structure of the Winnie Hospital; including renovating the flat roof, and mitigating the HVAC systems.
- Expand dietary services at Winnie Hospital and implement a Meals on Wheels program.
- Replace the current oxygen supply system with a centralized oxygen storage system.
- Replace the current single slice CT system with a multi-slice CT imaging system.

**Potential Resources:**

FHA

- HUD 242 (FHA Section 242) Helping Hospitals Get Capital Financing
- M.D. Anderson Foundation
- Support and maintenance of hospitals
- Wilton & Effie Mae Hebert
- Giving for hospitals and health associations
- USDA Rural Development Program
- Community facilities loans and grants
- The Kresge Foundation
- Funding for construction of hospitals

# BAYSIDE COMMUNITY HOSPITAL INITIATIVES

## **Recovery Value:** High

### **Background:**

Bayside Community Hospital; owned and operated by Chambers County Public Hospital District #1 (CCPHD#1) - a public hospital district, is the only state-designated trauma center in Chambers County. Its current location on the shore of Trinity Bay in Anahuac leaves the hospital vulnerable to future storm events. Storm surge came within one foot of flooding the facility. With the closure of neighboring institutions, the capacity to provide medical services in the county was decreased by an estimated 30,000 to 50,000 visits. The current medical services system for the county is strained beyond its capabilities. In addition, the existing Bayside Hospital site and facility may not provide adequate opportunity for expansion to meet rising health care demands as residents return to Chambers County and the county population continues to grow.

As with Hurricane Rita in 2005, Hurricane Ike revealed Bayside Community Hospital's commitment to delivering health care services not only day-to-day, but during disasters as well. When all the other health care providers in the county and the immediate service area ceased operations, and closed, the District's Bayside Community Hospital was staffed and prepared to continue operations. Its medical personnel attended to several local special needs patients who could not be evacuated before the storm. After the storm passed, District personnel ensured care for emergent cases across the county.

Staff continued hospital/ER operations at Bayside's Anahuac site and reopened the West Chambers Medical Clinic site in Mont Belvieu within mere hours of the storm's passing.

This enabled EMS first responders to service residents in the county's western sector. However, because of its location on the Trinity Bay's shore, the Bayside Community Hospital site came dangerously close to flooding by Ike's storm surge. Water crested on hospital property. Since the hospital is located in Anahuac away from Interstate 10 and other major transportation corridors in the region, access to the hospital was seriously impaired by impassable roads immediately after the storm. The hospital's remote location made access difficult for EMS workers and residents trying to reach the facility for urgent and emergency care.

The project directly addresses the effects of the disaster with a proposed expansion and relocation of Bayside Hospital. It will serve several purposes including:

- Building community capacity
- Widening essential healthcare accessibility and operations
- Mitigation against future damages and losses
- Feasibility by improving the capabilities and capacities of an existing, ongoing operation

The project also carries substantial community support, evidenced by residents' comments at community input meetings.

In addition, the project will also fill a post-disaster community need by insuring continuous availability and sustainability of general and acute care medical and healthcare for county residents during disasters; will leverage resources and create linkages by continuing the 60-year tradition of service of Bayside Community Hospital; and remove residents' barriers to healthcare when a disaster downs trees and power lines, blocks roads and results in other impairments.

### **Goals:**

- To ensure the continuous availability of healthcare services in the county.
- Mitigate against future losses that could result in the complete lack of access to healthcare services during disasters and for the longer term.

### **Community Support:**

During the community meetings, participants consistently and overwhelmingly expressed interest in the Bayside Community Hospital project. This project received the highest number of comments in support of the relocation and expansion of the hospital, along with the replacement of the Bayside Clinic and the expansion of services at the West Chambers Medical Clinic site. There was substantial interest in replacing the nursing home that was destroyed as well. The integrated home healthcare component will directly connect projects in the Healthcare and Human Services sector with those in the Housing and Community Development sectors.



**Project Description:**

Develop, construct, and equip a standard one-story, 25-bed general acute care CAH hospital, including all necessary ancillary and support operations. The proposed facility will have a 50,000 sq foot footprint, and will include appropriate and requisite “hardening” necessary to sustain operations through a Category 5 hurricane or similar disaster events. Other projects elements for the CCPHD#1 Initiatives include:

- Develop a new permanent Bayside Clinic incorporating oral, mental health and substance abuse programs/services in conjunction with the existing primary care medical services programs
- Convert the existing West Chambers Medical Clinic in Mont Belvieu into a 15,000 sq/ft. “super clinic” with space for primary care, laboratory and radiology services, configured to support emergent/urgent care operations, “hardened” to support continuous operations during disaster events .

- Purchase and equip a vehicle capable of delivering primary health care services, and initiate mobile clinic services for remote areas of Chambers County.

General acute care hospitals such as Bayside serve as the anchors of the modern healthcare delivery system. These facilities, especially those that are publicly owned and operated like Bayside, provide a wide variety of programs and services, many of which are not offered by private sector medical facilities due to the higher operating costs that are commonplace in rural markets. Also note that in Texas, EMS agencies can deliver their patients only to fully-licensed, general acute-care hospitals, such as Bayside.

Financing will be generated through the delivery of services and collection of fees-for-service, as well as private foundation gifts that support long-term operational sustainability. County resources will be

put to the highest and best use as the proposed project creates and retains high-paying jobs, supports future economic development, and provides for the delivery and sustainability of critical infrastructure.

**Potential Resources:**

- FHA
- HUD 242 (FHA Section 242) Helping Hospitals Get Capital Financing
- M.D. Anderson Foundation
- Support and maintenance of hospitals
- Wilton & Effie Mae Hebert
- Giving for hospitals and health associations
- USDA Rural Development Program
- Community facilities loans and grants
- The Kresge Foundation
- Funding for construction of hospitals

**Financial Considerations:**

Estimated Cost: \$22,500,000

# IMPROVE EMERGENCY SERVICES



**Recovery Value:** Moderate

## **Background:**

Chambers County's Volunteer Fire Departments (VFD) and Emergency Medical Services (EMS) did not have sufficient equipment to sustain an effective response during Hurricane Ike. Several community fire departments sustained damages to buildings and equipment. Many structures that served as the base for emergency responders were not designed to withstand significant storm events. A communications tower was knocked out in East Chambers County, which left that area without communication capabilities during the post-Ike response and immediate recovery. Other areas of the county were isolated during the hurricane, without any ability to receive accurate information. Communications capabilities and the ability to provide notification to residents were identified as a problem in the days before and after Hurricane Ike.

## **Goal:**

- Increase Chambers County's capacity to respond to emergencies by upgrading VFD and EMS equipment; improve dispatch and communications capabilities; provide additional training;
- Increase evacuation capabilities.

## **Project Description:**

The following resources and steps will help emergency services in Chambers County improve their capacity to provide care:

- Equipment for volunteer fire departments
- GPS navigation systems with direct 911 dispatch communications in all county EMS vehicles
- Establishment of a new address numbering system with a GPS coordinates database
- Expansion of county interoperable communications capacity and NIMS compliant comprehensive communications plan
- Water rescue program, including boat, equipment, and training
- Installation of a county-wide emergency siren system
- Establishment of a training center for emergency responders, including HAZMAT training
- Increase emergency response capability by expanding Anahuac Law Enforcement Center
- Emergency fuel storage for emergency responders

## **Financial Considerations:**

Estimated Costs      TBD

## **Potential Resources:**

USDA Rural Development Program

- Community Facilities Loans and Grants; Public Safety
- Department of Homeland Security/FEMA
- Fire Management Assistance Grant Program, Subgrants through the State
- FEMA Assistance to Firefighters Grant
- Staffing for Adequate Fire and Emergency Response (SAFER) Grants
- ORCA
- Community Development Block Grant Disaster Supplemental

# IMPROVE EMERGENCY OPERATIONS FACILITIES

**Recovery Value:** Moderate

## **Background:**

Emergency operations during Hurricane Ike were severely strained by the storm. The Emergency Operations Center (EOC) in the county courthouse was damaged during the event. Windows were blown out and rain infiltrated the facility. Emergency responders who operated out of their stations were at risk in facilities that were not designed to withstand the event. The loss of a cell phone tower left east Chambers County without the ability to communicate to county officials during Hurricane Ike. Many responders were also forced to evacuate the area, leaving residents without help.

## **Community Support:**

Emergency management-related comments were expressed on 28 separate occasions during the Chambers County Community Input Meetings. These comments ranged from improving communication capabilities to increasing the coordination between county responding agencies. In addition to community comments, support for an enhanced EOC was generated from county officials including elected officials, responders and key stakeholders.

## **Goal:**

- To improve effectiveness and resiliency of emergency operations.
- Provide for the safety of emergency operators and responders during disasters in Chambers County.

## **Project Description:**

The following priority activities are identified as part of this project. The lead priority is the need for an improved EOC. The proposed response is a phased approach. In the first phase, the existing EOC at the Chambers County Courthouse will be improved and storm-hardened to prepare for the impending storm season. As a followup project, a plan for a new EOC facility will be developed. The plan will include identification of a preferred location for this facility, as well as developing the program, scope, and budget for the facility.

The EOC plan will address the need for a storm-hardened shelter of last resort for emergency responders in Chambers County. In particular, the project would address whether there should be one facility or multiple facilities located on either side of the Trinity River, as flooding can potentially sever access from one side of the county to the other during disasters.

An additional priority is to storm-harden and improve the EMS stations in Winnie, Anahuac, and Trinity Bay.

Hardened facilities must be able to safely shelter and support responders during the storm event. The facilities must be designed as a self-sufficient base of operations after the event, providing sleeping areas, showers, storage for emergency supplies, and tanks for water and fuel storage, which can be filled prior

to storm events. Equip facilities with backup power generators. Equip all facilities with interoperable communications capabilities.

## **Action Steps:**

Feasibility study and alternatives analysis to identify preferred alternatives for emergency operations and response activities

## **Financial Considerations:**

Estimated Costs            TBD

## **Potential Resources:**

- Department of Homeland Security/FEMA
  - Hazard Mitigation Grant Program
- Department of Homeland Security/FEMA
  - Pre-Disaster Mitigation Program Competitive Grants
- Department of Homeland Security/FEMA
  - Emergency Operations Center Grant Program
- East Texas Communities Foundation
  - Health and Human Services

# EXPAND AND STRENGTHEN SOCIAL SERVICES

**Recovery Value:** Community Interest

**Background:**

There are currently no mental health providers in Chambers County. In addition, the county has underserved populations that need assistance with English as a second language, adult literacy and job training or career counseling. Hurricane Ike has placed many residents in the region in highly stressful situations and environments, including homelessness and the loss of their possessions. Job providers have been put out of business by the storm. This affects both the providers and their former employees. Others are in need of grief counseling as they have witnessed or experienced the loss of friends and loved ones. Disaster-related stress can also lead to other problems such as domestic violence and drug abuse. As a result of these circumstances, the need



for expanded and strengthened social services within the county is evident and immediate.

**Goal:**

- Expand and strengthen social services in Chambers County, to aid recovery from Hurricane Ike.
- Improve resiliency during future events.

**Project Description:**

This document encompasses several projects which are designed to expand and strengthen social services in Chambers County. These projects will ultimately aid the citizens of Chambers County in both recovering from Hurricane Ike and responding to future issues and/or disasters.

**Projects include:**

- Provide space for a mental health clinic so residents of Chambers County have the opportunity to learn coping skills to deal with Post Traumatic Stress Disorder (PTSD) and other disaster-related disorders. A clinic will also provide the opportunity to identify mental illness and substance abuse within the community and allow residents to seek appropriate treatment.
- Develop a Drug Education and Prevention Program.



- Create an English as a Second Language (ESL) program that will assist non-English speaking residents of Chambers County. Many residents of Chambers County are recent immigrants from areas such as Mexico, Central America and Vietnam. As nonnative English speakers they are both at risk of not being able to understand emergency notifications prior to the event and are potentially unable to benefit from available recovery programs.



- Create an Adult Literacy (AL) program.
- Establish a School Dropout Prevention Program which encourages students to stay in school. This program may include connecting students with schools and universities, as well as informing them of financial-aid programs and assisting them with applications.

**Options/Alternatives:**

Brazos Valley Community Action Agency, Inc. provides services to seven counties within the region including Chambers County. They provide a mental health program in cooperation with National Alliance of Mental Illness (NAMI) “trains the trainer”

and provides “peer support.” One option would be to house the state designated mental health provider (Spindletop MHMR) in the town of Winnie. Both the ESL and the AL programs may provide teachers, video and/or online courses or virtual classrooms. Community centers that have been proposed in the overall long-term recovery plan have allotted space to use for these services. The ESL and AL programs may also be held in the new proposed community centers if they include a library and/or training education facility with computer and Internet access.

**Financial Considerations:**

Estimated Costs            TBD

**Potential Resources:**

- Brazos Valley Community Action Agency (BVCAA)
- National Alliance on Mental Illness (NAMI)
- East Texas Communities Foundation
- Supports health and human services
- Bristol-Myers Squibb Foundation
- Reduce health disparities by strengthening community-based health care worker capacity



# ENVIRONMENT AND COASTAL AREAS PROTECTION

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# ENVIRONMENT AND COASTAL AREAS PROTECTION

One of the most important assets to Chambers County is the coastal ecosystem. The life and economy of the citizens of Chambers County are intertwined with the bays, estuaries, marshlands, wildlife refuges and beaches that make up a significant portion of this area. Storm damage, oil spills, silting, storm surge and saltwater intrusion have all taken their toll on this environment. Damage to the Anahuac National Wildlife Reserve, Robbins Park, McCollum Park and Anahuac Harbor were extensive.

Restoration of parks and shoreline is critical to protecting the environment and habitat. Maintenance of navigation channels and residents' access to the waterfront are vital both to their economy and to their way of life. During community input meetings residents identified the impact of saltwater intrusion as a critical issue that must be mitigated. Removing silt deposits, restoring shoreline, and preserving habitat were other issues identified.

Following are six projects proposed to renew and protect the county's ecosystems.

- Restoration and Preservation of Coastal Marsh
- Restoration of Navigation Channels
- Implement Programs to Control Invasive Species
- Coastal Area Restoration and Improvements
- Creation of Waterfront Connectivity
- Shore Protection and Beach Nourishment on Gulf Coast and Intracoastal Waterway and Bay Shorelines

# RESTORATION AND PRESERVATION OF COASTAL MARSH

**Recovery Value:** Community Interest

**Background: Background:**

Hurricane Ike damaged much of the habitat and marsh systems in lower Chambers County due to saltwater inundation of previously fresh or brackish systems and due to physical damage associated with the winds and moving waters. The coastal systems of Chambers County historically ranged from estuarine to ocean beach and included both fresh and saltwater marshes. The continued health and biodiversity of coastal marsh areas depend on the maintenance for varied and abundant high-quality habitat, particularly wetlands.

**Goal:**

Rehabilitate coastal marsh and habitats that have been impacted by Hurricane Ike and the restoration of the systems which support them including coastal landforms and upland drainage systems.

**Project Description:**

The proposed project includes three phases. The first phase is to conduct an inventory of existing coastal marshes (within the county) and develop an inventory as a GIS database. The inventory will delineate coastal marsh areas, classify the marshes in terms of their condition and the level of impacts by either Hurricane Ike or other parameters and data related to structures and drainage systems that affect the marshes. The deliverables for this study will include the GIS database and linked photos.

Phase two of the project will analyze the GIS database

and work with the Trinity Bay SubCommittee to develop a Habitat Protection Action Plan. This plan will help set habitat protection priorities for restoration or preservation. Strategies developed as an element of the action plan may include:

- Strategies for acquisition and/or conservation of existing wetland habitats.
- Restoration or enhancement of degraded wetland habitats.
- Where feasible, beneficial use of dredged material to create marsh and improve habitat.
- Minimization of erosion which leads to habitat loss.

An implementation phase will consider and evaluate a range of approaches for habitat protection. This may include tax incentive programs, acquisition or conservation programs, or the creation of bird nesting habitats. This phase will require analysis of potential funding sources as well as coordination with a wide range of state and federal resource agencies and environmental interest groups all of whom can contribute to successful implementation of the project.

This project should coordinate with the Saltwater Gates restoration project. This study should also incorporate the results from the Chambers County Greenprint project—and to the extent feasible—should incorporate the accomplishments of that project.

**Financial Considerations:**

Estimated Costs  
Coastal Marsh and Habitat Restoration and Preservation Study - \$350,000

**Potential Resources:**

- David and Lucille Packard Foundation
- Seeks to protect and restore coasts
- Department of Interior
- Land and Water Conservation Fund State Grant Program
- USFWS
- National Coastal Wetlands Grant Program
- USDA/Farm Service Agency
- Conservation Reserve Program State Acres for Wildlife Enhancement (SAFE)
- USDA
- Technical Resources for Coastal and Shoreline Restoration/NRCS Plant Material Program
- TPWD
- Wildlife and Sport Fish Restoration Program

# RESTORATION OF NAVIGATION CHANNELS



## Background:

Trinity and Galveston Bays have a network of navigation channels that are authorized and maintained by the US Army Corps of Engineers (USACE). These channels include the: Houston Ship Channel; Anahuac Navigation Channel; Double Bayou Navigation Channel; Smith Point/Pix Bayou Navigation Channel; and the Cedar Bayou Navigation Channel. One other channel in the network is the Old Channel to Liberty, which historically ran up the east side of Trinity Bay from Smith Point to Anahuac. This channel has not been maintained in decades and is generally considered by the USACE to have been replaced by the Anahuac Channel and the Double Bayou Channel.

Hurricane Ike moved sediments and debris into all of these channels, which in some cases made them impassable to vessel traffic. The USACE is responsible for maintaining these channels and has already worked on the recovery of the Houston Ship Channel. However, due to limited funding this has not yet been done for the other channels in the system.

The limited funding issue—along with a specific regulated system of priorities—is a chronic problem, as limited maintenance funding typically goes to the Houston Ship Channel, which has the highest volume of commercial traffic. Many of the above projects have not been maintained in some time.

## Goal:

- Restore navigation in the smaller channels in the Trinity and Galveston Bays, including commercial barge traffic, fishing, oystering, shrimping, crabbing and recreation.
- Restore access to a safe harbor or port of refuge for fishing vessels (all types).
- Incorporate use of dredged material to restore habitat in marshes.

## Project Description:

The following projects were identified as very high community interest projects:

- Restore the Anahuac Navigation Channel by dredging from deep water in Trinity Bay to the Wallisville Project in the Trinity River.

- Restore the Double Bayou Navigation Channel by dredging from deep water in Trinity Bay to the mouth of the Double Bayou and upstream two miles into the Double Bayou.
- Restore the Smith Point / Pix Bayou Navigation Channel by dredging from the Houston Ship Channel in Galveston Bay to Smith Point and into Pix Bayou.
- Restore the Cedar Bayou Navigation Channel by dredging from the Houston Ship Channel in Galveston Bay to the mouth of Cedar Bayou and up Cedar Bayou to Mile Post 3 on the channel.
- Improve Cedar Bayou Navigation Channel by extending the channel a further eight miles up the Cedar Bayou, including new dredging and straightening the channel.
- Restore the Old Channel to Liberty by dredging the old channel from Smith Point along the shoreline to Anahuac and connecting through to the Trinity River.

# CREATION OF WATERFRONT CONNECTIVITY



## Background:

Historically cross-bay traffic has existed between the rural areas of Chambers County and the urban areas of Galveston and the Houston/Galveston corridor. A century ago truck farmers in rural Chambers County transported their produce across the bay to Galveston. This practice no longer exists, but the potential for other similar traffic is still available. Prior to Hurricane Ike, boaters from the marinas on the west side of the bay could travel to Oak Island, Double Bayou, and Smith Point to dine at restaurants, anchor for overnight stays, or just visit for the day. Hurricane Ike destroyed many of the restaurants and other destinations on the east side of Trinity Bay. These areas are beginning to recover, with some restaurants rebuilding and reopening. However, the potential exists to greatly improve this cross-bay traffic and create an opportunity for further regional economic recovery. Two projects identified by residents of Chambers County as important: the creation of a new entrance to Double Bayou; and the

creation of a new Anahuac Marina. Both projects are currently in the planning stage.

## Double Bayou Harbor at Oak Island

Build two breakwaters out from the shoreline to form a protective harbor at the entrance to Double Bayou. The breakwaters would end near the existing Double Bayou Navigation Channel. A pair of jetties at the end of the breakwaters would run parallel to the channel, providing both protection from erosion for the jetty and channel maintenance for the channel. The breakwaters would provide a safe harbor during lesser storm events and also create an opportunity to construct a marina in the harbor. Vessels arriving at Oak Island would have additional places to tie up or anchor in a protected environment. The material removed to create deep water in the harbor could be used to create habitat for sea birds and other species.

## Anahuac Marina

Develop the Anahuac Harbor into a marina with 50 boat slips, a large transient moorage for short-term tie-ups for daily visitors, a ship's store, water craft rental businesses, casual dining restaurants, retail shops, hotels and other waterfront-related establishments. The marina would be located inside the City of Anahuac within its extra territorial jurisdiction along the Trinity River. The marina will also serve as a linchpin for proposed walking and biking trails that would encompass a boardwalk to Fort Anahuac Park; a second boardwalk to the proposed park on Lake Anahuac; a proposed walking trail along the Lone Star Canal and the existing Upper Texas Coast Birding Trail and the proposed continuation to the US Army Corps of Engineers Trinity River Recreation area in Wallisville. The marina development would comprise 20 acres and would be a partnership of the public and private sectors.

# SHORE PROTECTION AND BEACH NOURISHMENT



**Recovery Value:** Community Interest

**Background:**

Hurricane Ike caused significant damage to beaches and the shoreline in southeast Texas, Gulf Intracoastal Waterway, and many areas of Trinity Bay, Galveston Bay and West and East Bay.

**Goal:**

Renourish beaches and reduce or prevent erosion along the gulf coast, bay shorelines, and the Intracoastal Waterway.

**Description:**

This is a large-scale regional project which will probably not be led by Chambers County although Chambers County will participate. The scope of this project includes addressing shore erosion on the Intracoastal Waterway, the shorelines of Trinity, Galveston, East and West bays, as well as the Gulf of Mexico in Texas.

**Potential Resources:**

- US Department of Agriculture
  - Technical Resources for Coastal and Shoreline Restoration/NRCS Plant Material Program
- USDA/Farm Service Agency (FSA)
  - Farm Loan Programs

USDA/Farm Service Agency (FSA)

- Conservation Reserve Program State Acres for Wildlife Enhancement (SAFE)

David and Lucille Packard Foundation

- Seeks to protect and restore coasts

Department of the Interior

- Land and Water Conservation Fund State Grant Program

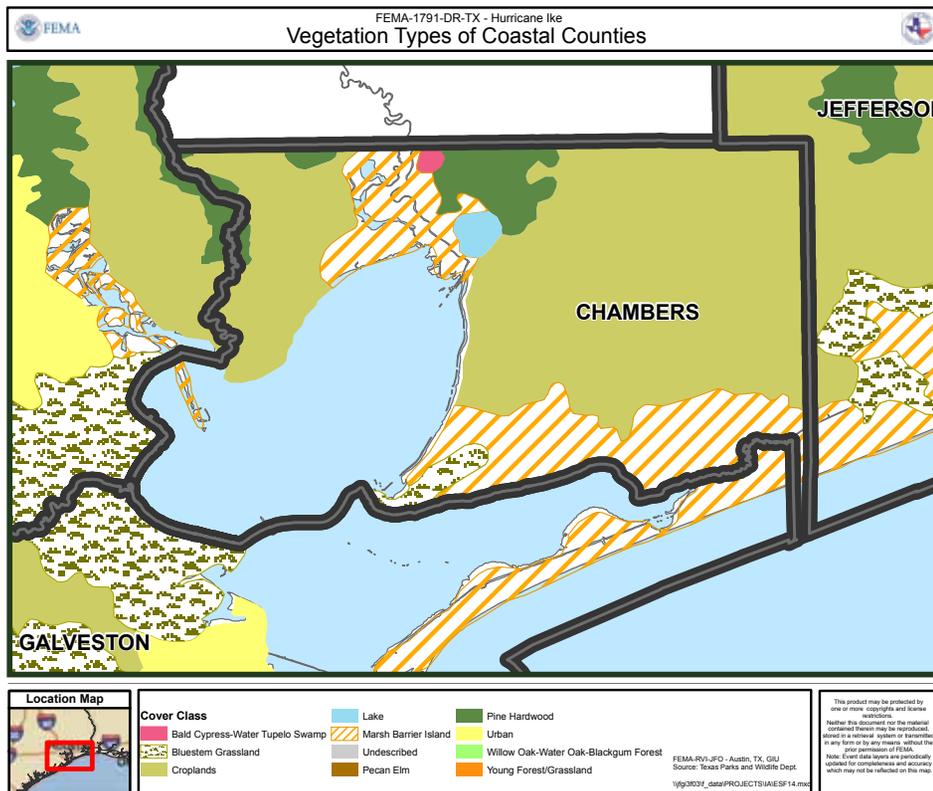
USDA

- Conservation technical assistance

USFWS

- National Coastal Wetlands Grant Program

# IMPLEMENT PROGRAMS TO CONTROL INVASIVE SPECIES ON LARGE OPEN LANDS



**Recovery Value:** Community Interest

**Background:**

Large areas of agricultural lands in Chambers County have been fallowed, and landowners receive government subsidies to keep them out of production. This program includes the requirement that lands be maintained free of weeds and invasive species. The community has indicated that significant holdings of open land in Chambers County have become infested with forests of Chinese Tallow trees, an invasive “weed” species. This project will address this issue by implementing enforcement of land maintenance provisions tied to agricultural subsidies.

**Goal:**

Reduce proliferation of invasive plant species on fallowed agricultural lands.

**Description:**

Implement and enforce existing requirements that fallowed agricultural lands must be kept weed free to qualify for government subsidies.

**Potential Resources:**

Texas Department of Agriculture Technical Assistance





**NEXT STEPS**

# NEXT STEPS

This Recovery Plan belongs to the Chambers County community. The community is responsible for adopting and implementing recovery projects, guided jointly by community and elected leadership. With the limits on available funds, it will be a challenge to select projects to implement. Plan implementation is not impossible, however. This plan and the recovery values placed on projects will help members of ChaRT and other recovery leaders answer questions such as:

- Will one project or action make four others possible?
- Is the project under consideration dependent on completion of another action?
- Will completing the project stir excitement and momentum in the community?
- Will it restore hope?

The answers to these questions will help a community determine the immediate and long-term value of the project to community recovery. That is how the recovery values will help community members set project priorities.

Generally, the following principles guide implementation priorities:

- Focus on projects and/or strategies that will have the most impact on recovery when completed.
- Move forward on projects and/or strategies that can be completed quickly, have wide public support, or have available funding.

Completing projects that adhere to these principles can generate significant visibility for recovery and can help solidify community and political support for other later recovery activities.

ChaRT, the organization that Chambers County created for recovery planning, will transition into

an organization to lead implementation based on the priorities. Residents participating in other community recovery committees and subcommittees can now begin to use the organization and the capacity developed through the LTCR process to help champion projects. Champions ensure that the implementation process is activated and that action steps are taken. Many of the projects identified in this recovery plan are already under discussion for implementation. Staff from city and county departments and other organizations have already provided input and information to ChaRT. All of these people, along with project champions and other community members, will continue to be resources while recovery projects are developed and implemented.

Next steps will require continued cooperation and coordination among many community members, and every one will play an important role. Consider project selection and funding limitations. To overcome these challenges, community consensus must be reached. Maintaining an organization that fosters strong communication between the community and the leadership of project champions will help the community work through difficult choices and maintain a cooperative spirit for success. To effectively implement the plan, roles and responsibilities should be clearly defined. The recommended roles and responsibilities of elected officials, county community government staff, and community members often include, but are not limited to, the following:

## **Elected Leaders**

- When elected leaders formally adopt the Recovery Plan that helps the community to focus on long-term recovery. Leaders also provide information and guidance for

selecting and implementing recovery projects to jumpstart the community recovery process. The Recovery Plan is not a comprehensive plan that sets community policy. It is not a mandate for completing projects, nor is it a static document. Plan adoption entails recognition of the hundreds of hours of effort by community residents to cooperatively develop plan projects and the level of coordination among community leaders established through the planning process. Through this process the community identified disaster-related issues, needs, and opportunities, developed a recovery vision, and identified strategies and projects that will help the community become stronger and more sustainable.

- Maintain or develop an organization to assist with project refinement and priority setting. As supporters of the Chambers County recovery process from the start, elected officials can help keep recovery on track by keeping the ChaRT committee and subcommittees on track. It's key that leaders back all plan projects while allowing projects to evolve to meet Chambers County's changing needs. Recovery is most effective when projects create opportunities for the whole community, not just the specific jurisdiction that an official serves.
- Maintain or establish an organization to sustain strong communication with residents and businesses. Elected officials have the public eye through news coverage of their policy actions—some even publish or appear routinely in local media. Use these channels to keep residents and county businesses aware that the recovery process is ongoing. Call for project volunteers when necessary. Celebrate successes too, and invite the public to the celebration.

- Establish an organization to research and apply for project funding. Securing project funding can be a daunting task. Elected officials who establish strong partnerships with their peers at all levels of government can effect the success of project funding application. Elected officials can also reach into the community for skilled grant writers, and ask them to share their knowledge and connections. The executive directors and officers at county nonprofit agencies can be invaluable addition to a board or committee charged with raising community recovery funds.
- Make recommendations to elected officials about projects undertaken by other agencies in cooperation and coordination with the county. Staff can apply their local knowledge to identify programmatic areas suitable for cooperative development. They can activate their professional networks in local, regional, state, and federal government to move cross-agency projects forward, build project visibility, gather cross-agency project support, or troubleshoot project obstacles.
- Track the progress made in recovery project implementation for elected leaders. Staff can report ongoing actions related to a project as frequently as the current status and implementation conditions of recovery projects require.
- Work collaboratively with staff from other jurisdictions with the county to coordinate on project which improves multiple communities.

## **County and Community Government Staff Members**

- Serve as a resource to provide information and professional expertise. Staff can aid in refining and detailing recovery projects, and apply their knowledge of local assets and specialized expertise. These capabilities often make staff uniquely qualified to assist in developing grant applications that can secure project funding. They can also collaborate with their counterparts in community, regional, state, and federal agencies to coordinate project implementation.
- Report to elected leaders about Recovery Plan projects that directly relate to their county or town. Staff make recommendations for implementing projects directly related to their jurisdiction. Because they work daily with local public assets and programs, county and town staff can provide input about local conditions such as codes, ordinances, or regulations that can shape or block project development and implementation.

## **Community Members**

- Recognize that the planning process must transition into a cooperative and collaborative implementation program. Effective community recovery involves the entire community—it requires broad and ongoing public support of individual projects as they come together. It's important that community members acknowledge that time and resource development will vary among individual projects. Community members can work together to link individual projects into a cohesive holistic comprehensive approach.
- Recognize that priorities must be established and support decisions related to priorities. Some projects are catalysts that create conditions that

allow other projects to occur later. The Recovery Values assigned to each project in this Recovery Plan can guide local decision-makers and the public in establishing these priorities. By building community consensus in support of these priorities, community members play a vital role in maximizing plan effectiveness.

- Contribute time, talents, and expertise to assist with refining and advancing projects, researching grants and other funding resources, and developing and/or applying for funding for project implementation. The active participation of community members is essential throughout the recovery process. Business owners can lend their skills and expertise in project development. Community members can organize and participate in project committees individually or through their churches, clubs, community groups, and nonprofit organizations. Work and personal contacts from community members can lead to alternative funding sources from businesses or nonprofit organizations—and community members can write or provide letters of support for grant applications to secure funding.

While the next steps will present challenges, projects can be implemented effectively when community members act together to initiate the plan. Ongoing communication among the community members and its leadership will be key. It is the smart way to create consensus among members at all levels of the community. All the citizens of a stronger, more sustainable Chambers County will benefit from these steps.



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# APPENDIX

# APPENDIX

This section provides information about the results of the process conducted by greater Chambers County and its incorporated cities through support from FEMA's ESF-14 Long-Term Community Recovery team.

Included in this section are images and tables representing results of the ChaRT, its subcommittees, Key informers and the Public Involvement process. Additionally included are Potential Resources identified by specific Projects, and a CD is attached containing more than 300 government and private funding technical assistance sources, that could facilitate implementation of this Plan.

This Appendix includes the following:

- Open house materials to identify Issues and Challenges
- Open house results that indicate community priorities of Opportunities identified from the Issues and Challenges
- Projects formed that address the identified Opportunities, including Sponsors and Champions that have volunteered to support Project implementation
- Potential Resources grouped by Project and Opportunity
- Selected Funding Resources (CD)

# OPEN HOUSE PUBLIC COMMENT

The Chambers County Recovery Planning Committee was formed through a Commissioners' Court resolution on January 13, 2009 consisting of nine members, representing the entire county. The steering committee outlined a planning process that would actively involve community members through a community engagement process.

Community engagement process was planned by the steering committee as a mechanism to receive feedback from the public in the areas of Housing, Community Development, Economic Development, Education, Health and Human Services, Emergency Services, Infrastructure, and Environment. Community engagement open houses were conducted at the following locations and times:

Date and Time	Location
January 31, 2009 2pm – 6pm	Smith Point
February 3, 2009 4pm – 8pm	Mont Belvieu
February 4, 2009 4pm – 8pm	Anahuac
February 6, 2009 4pm – 8pm	Oak Island
February 7, 2009 2pm – 6pm	Winnie

The community engagement open house events resulted in 1987 public comments across the areas of issues and challenges identified by the steering committee.

Open House Events Summary of Comments	Meeting Location					
	Anahuac	Mont Belvieu	Oak Island	Smith Point	Winnie	Grand Total
Public Facilities & Services	34	17	67	189	11	318
Water, Sewer & Drainage	23	7	65	100	5	200
Neighborhoods	33	5	97	41	15	191
Emergency Response	25	3	80	60	14	182
Health and Human Services	28	6	49	65	13	161
Environment: Natural Resources	15	10	54	43	19	141
Education	18	7	50	52	13	140
Tourism	17	9	48	46	8	128
Housing for Everyone	19	2	52	38	11	122
Economics & Industry	12	8	34	49	9	112
Housing and Recovery	8	2	71	24	7	112
Transportation	10	5	43	31	5	94
Environment: Resiliency	8	3	50	18	7	86
<b>Grand Total</b>	<b>250</b>	<b>84</b>	<b>760</b>	<b>756</b>	<b>137</b>	<b>1,987</b>

# OPEN HOUSE PUBLIC COMMENT

The following images are the presentation boards representing the areas of concern and interest that the steering committee requested public comment and feedback at the open house events.

**WELCOME!**  
**BIENVENIDO!**  
**HOAN-NHÊNH**

Think Big!  
Think Long Term!

Let's work together to  
rebuild our community.

Let your voice be heard!

**Public Facilities & Services**

What public services or facilities do we need?

Where should public buildings be located?

Police, fire, emergency operations, libraries, community centers, ...

**Education**

What types of education/training will provide career opportunities?

What steps can be taken to access living wage jobs?

What challenges face our schools?

**Economics & Industry**

How can we encourage new business and small business development?

What does local business need to recover?

How do we retain businesses and jobs?

How do we diversify the local/regional economy?

**Tourism**

How do we increase tourism to stimulate the economy and strengthen the community?

Why should people visit our community?

What are our special places?

**Environment: Natural Resources**

How do we restore, preserve wildlife habitat and natural resources?

What do we need for the agricultural industry to succeed?

What types of recreation and parks are important to you?

What needs to happen for crops, herds, and fisheries to be successful?

**Environment: Resiliency**

How do we avoid saltwater intrusion and inundation?

How do we achieve flood protection?

How can we better protect our coast?

**Emergency Response**

What are the challenges with our emergency response systems?

Fire, Police, Ambulance ...

How can we stay informed before, during and after a disaster?

How do we improve our emergency response systems?

**Water, Sewer & Drainage**

Is access to potable water/water quality an issue?

Is drainage a problem in your neighborhood?

Do we need to upgrade septic systems to sanitary sewer system?

Is it more important to address immediate needs or long-term regional systems?

**Transportation**

What are the opportunities for improving transportation?

How do we become more pedestrian friendly?

Do we need to add or change public transportation? Routes, type, frequency?

**Housing and Recovery**

Storm shutters, hurricane clips and elevated homes etc.

What impacts your decision to move back/rebuild?

Besides money, what do you need to repair or rebuild?

How will you build back differently?

**Housing for Everyone**

What types of housing are needed in our community?

What about renters? People with special needs?

How can we make sure housing remains affordable?

Where should new housing development be encouraged or discouraged?

**Neighborhoods**

What is our sense of community?

What is needed to improve the quality of life in our neighborhood?

What makes our community a "special place" to live/work?

Where are the opportunities to integrate green/sustainable development?

**Health and Human Services**

What are the healthcare needs in the community?

Is there need for a health center near by?

What are the opportunities for improvement in health and human services?

Mental health, long-term care, hospitals, clinics...

**Tell Us....Where is your home?**

Thank you for your participation!

One more ...

Please place a dot on one of the maps showing the location of your home or business.

**Open House Schedule**

**Think Big!**  
**Think Long Term!**

- Smith Point
  - January 31 (2pm - 6pm)
  - Community Center
  - Plummer Camp Road
- Mont Belvieu
  - February 3 (4pm - 8pm)
  - Barbers Hill Kindergarten Campus
  - 9800 Eagle Drive
- Anahuac
  - February 4 (4pm - 8pm)
  - Whites Park Community Center
  - 225 Whites Memorial Drive
- Oak Island / Double Bayou
  - February 6 (4pm - 8pm)
  - Oak Island Baptist Church
  - 707 W Bayshore Road
- Winnie
  - February 7 (2pm - 6pm)
  - St Louis Catholic Church Gym
  - 315 W Buccaneer Road

# PROJECT SPONSORS AND CHAMPIONS

Plan Sector	Project Name - Plan	Project Name - Public Meetings	Sponsor	Champion(s)
Community Facilities & Infrastructure	Restore Salt Water Gates	Restore Salt Water Barriers	TBCD	Kit Jones, Steve Fitzgerald, Leroy Ezer, Ismael Rosillo
Housing & Community Development	Building Code and Land Use Regulations	Housing Reg & Code Enforcement	Chambers County	Bill Cobabe, Sharon Kramer, Ammaron Stone, Brenda Wilber, Linda McPike, Darlene Pagels, Gloria Moore
Education, Health & Human Services	Bayside Community Hospital Initiatives	Bayside Hospital - Relocate, Expand and Regionalize	CCPHD#1	Bob Pascasio, Shalia Hampton, Sarita Dugat, Kacy Abbott, Rick Jacobus, Fay Till, Misty DeHoyos, Beth Till, Ann Newton, Anne Muscat, Danny Bidy, Ynna Torre, Cathy Muscat, Amanda Abshier, Tommy Willcox
Housing & Community Development	Provide Gap Financing to Help Homeowners Repair and Replace Homes	Provide Gap Financing to Assist Homeowners Repair and Replace Homes	Possible Sponsor - ChaRT	Gloria Moore
Education, Health & Human Services	Expand and Improve Access To Medical Services	Mobile Clinics in Underserved Areas (Smith Point and Oak Island)	CCPHD#1	Ben Beaoui, Jennifer Anderson, Margarita Macias, Tommy Willcox, Bob Pascasio
Housing & Community Development	Homeowner Construction Program	Homeowner Construction Program	Possible Sponsors - Greater Houston Builder's Association or Houston AIA	Darlene Pagels, Gloria Moore
Education, Health & Human Services	Improved Emergency Services	GPS/Navigation in EMS vehicles with direct electronic communication to 911 dispatch	Chambers County	Ryan Holzaepfel, Nellie Lunsford, Baron Jones, Gloria Moore, Lee Kaderli, Nellie Lunsford, Nolan George, Quinten Adams, Bill Cobabe, Mike Kubik
Education, Health & Human Services	Expand and Strengthen Social Services	Mental Health Clinic - Central County	CCPHD#1	Bob Pascasio, Shalia Hampton, Ben Beaoui, Pierre Legé, Tommy Willcox
Housing & Community Development	ChaRT Community Recovery Center	Housing Resource Center	ChaRT	Guy Jackson, Jacque White, Havala Meinen, Danny Bidy, Darlene Pagels, Sharon Kramer, Gloria Moore
Education, Health & Human Services	Improved Emergency Services	Create Chambers County Water Rescue Squad and Provide Equipment and Training	Anahuac & Cove VFDs	Joe Booze, Kenny Baumbach, Amy Green, Jim Cotton, Lenard Bettis, Lisa Bettis, Bill Cobabe
Education, Health & Human Services	Improved Emergency Services	County-Wide Siren System	Chambers County	Bruce Oliphant, Ryan Holzaepfel, Ruth Millsaps
Education, Health & Human Services	Improved Emergency Services	Training Center for Volunteer Fire Departments	Chambers County VFDs	Lenard Bettis, Kenny Baumbach, Bruce Corner, Angel Minehart, Tyson Bertrand, Rachel Byrd, Lee Kaderli
Community Facilities & Infrastructure	County-Wide Drainage Improvements	Chambers County - Repair, Clear and Maintain Drainage Ditches and Structures	TBCD / Chambers County (Don Bradon)	Danny Pringle, Don Brandon, Christi Morris, Ammaron Stone
Education, Health & Human Services	Expand and Improve Access To Medical Services	Winnie Hospital - Harden and Mitigate	Winnie-Stowell Hospital District	Shalia Hampton, Bob Pascasio, Suggie Daigle, Jeannie Martinez, Danny Thompson, Pierre Leger
Education, Health & Human Services	Bayside Community Hospital Initiatives	Super Clinic in West Chambers	CCPHD#1	Bob Pascasio, Shalia Hampton, Debra Miesch, John Fendley, Leticia Rivas, Linda Lamey, Shannon Moyer, Ynna Torre, Anne Muscat, Cathy Muscat, Tommy Willcox
Education, Health & Human Services	Improved Emergency Services	New Equipment for Volunteer Fire Department (VFD)	Anahuac, Winnie-Stowell, Smith Point, and Mont Belvieu VFDs	John Fendley, Kenny Baumbach, Kaye Cormier, Nolan George, Bruce Corner, Lisa Bettis, Amy Green, Rachel Byrd, Lee Kaderli, Jim Cotton, Lenard Bettis
Community Facilities & Infrastructure	County-Wide Drainage Improvements	TBCD - Replace Drainage Ditch Access Bridges	TBCD	Kit Jones, Danny Pringle
Economics & Industry	Public Oyster Reef Restoration Trinity Galveston Bay Complex	Public Oyster Reef Restoration - Trinity Galveston Bay Complex	Unknown at this time	Doris Nelson, Cherry Morris, Baron Jones, Ben Nelson, Pudge Willcox

# PROJECT SPONSORS AND CHAMPIONS

Plan Sector	Project Name - Plan	Project Name - Public Meetings	Sponsor	Champion(s)
Community Facilities & Infrastructure	Repair and Improve Roadways and Bridges	Repair Roads Damaged by Disaster Recovery and Debris Removal Operations	Chambers County	Don Brandon, Fred Anderson, John Fendley
Community Facilities & Infrastructure	Repair and Improve Roadways and Bridges	Upgrade Roads - South-Central Chambers County	Chambers County	Fred Anderson, John Fendley
Housing & Community Development	Community Center/Firehouse, New and Improved	Smith Point - Community Center / Fire Station	Smith Point VFD	John Fendley, Jennifer Anderson, Allen Meek
Education, Health & Human Services	Improve Emergency Operations Facilities	Harden EMS Stations in Winnie, Anahuac and Trinity Bay	Winnie and Anahuac EMS	Nolan George, Kaye Cormier, John Holloway, Mark Huddleston
Economics & Industry	East Chambers Industrial Park	Interstate 10 Commercial Corridor TIF	Chambers County	B. J. Simon, Sarah Cerrone
Education, Health & Human Services	Improved Emergency Services	Anahuac - Larger Law Enforcement Center	Possible Sponsor - Chambers County (Sheriff)	Gloria Moore, Ryan Holzaepfel
Economics & Industry	Restoration of Navigation Channels	Double Bayou Channel (7-Foot Project) - Maintenance Dredging	CLCND, USACE	Mary Beth Stengler, Paula Wise, Pudge Willcox, Joe Nelson, Artie Presley
Education, Health & Human Services	Expand and Strengthen Social Services	Adult Literacy	Unknown at this time	Andrea McClelland
Education, Health & Human Services	Improve Emergency Operations Facilities	EOC - New County-Wide Facility	Chambers County	Nolan George, Ryan Holzaepfel, Don Brandon, Joe Booze, Lee Kaderli
Education, Health & Human Services	Improved Emergency Services	Expand County Interoperable Communication Capability	Chambers County	Ryan Holzaepfel, Lee Kaderli, Quenten Adams, Don Bradon, Joe Booze
Education, Health & Human Services	Bayside Community Hospital Initiatives	Fuel Storage for Emergencies and Disasters	Chambers County	Don Brandon, Nolan George, Alice Hunter
Education, Health & Human Services	Improved Emergency Services	Equipment for Evacuating Nursing Home Patients	Unknown at this time	Nolan George
Economics & Industry	Restoration of Navigation Channels	Cedar Bayou Navigation Channel Improvement Project	Cedar Bayou Navigation District / CLCND, USACE	Guido Persiani, Paula Wise
Economics & Industry	Restoration of Navigation Channels	Smith Point/Pix Bayou Channel - Maintenance Dredging	CLCND, USACE	Mary Beth Stengler, Paula Wise, Pudge Willcox, Alice Hunter, Flora Parker, Cherry Morris
Housing & Community Development	Adult Family Home for Seniors	Housing for Frail Seniors	Harris County Housing Authority possible sponsor	Gloria Moore, Andrea McClelland
Education, Health & Human Services	Expand and Strengthen Social Services	School Dropout Prevention	Unknown at this time	Tatum Stone, Lisa Dearman, Donna Pache
Economics & Industry	Restoration of Navigation Channels	Anahuac Navigation Channel - Maintenance Dredging	CLCND, USACE	Mary Beth Stengler, Paula Wise, Pudge Willcox, Danny Pringle
Education, Health & Human Services	Expand and Strengthen Social Services	English as a Second Language Program	Unknown at this time	Andrea McClelland, Nellie Lunsford, Martha Vargas, Doris Nelson, Nina Torres
Economics & Industry	Restoration of Navigation Channels	Old Channel to Liberty (Barge Canal from Smith Point to City of Anahuac) Reestablish Channel and Levee	CLCND, USACE	Mary Beth Stengler, Paula Wise, Pudge Willcox, Guy Jackson, Steve Wilson, Ben Wilson, Linda Shead
Housing & Community Development	Elevator/lift systems to provide access for People With Disabilities	Accessibility for Frail Seniors and People With Disabilities	Unknown at this time	Andrea McClelland, Gloria Moore

# PROJECT SPONSORS AND CHAMPIONS

Plan Sector	Project Name - Plan	Project Name - Public Meetings	Sponsor	Champion(s)
Housing & Community Development	County-Wide Parks and Recreation Master Plan	McCollum Park - Restoration	Chambers County	Don Brandon, Guido Persiani, Ammaron Stone
Housing & Community Development	County-Wide Parks and Recreation	Chambers County Parks Study	Chambers County	Don Brandon, James Silva, Guy Jackson, Pudge Willcox, Guido Persiani, Fred Anderson, Keith Hall, Linda Shead, Joe Nelson, Howard Hanks, Jacque White, George Hopper, Andrea McClelland, Amy Turner, Ann Newton, Bobby Wheat, Charles Gordy, Garth Woodfin, Mary Beth Stengler, Linda Shead, Pam Hopper, Rachel Byrd, Ruth Millsaps, Steve Wilson
Economics & Industry	Restoration of Navigation Channels	Cedar Bayou Navigation Channel (10-Foot Project) - Maintenance Dredging	Cedar Bayou Navigation District / CLCND, USACE	Guido Persiani, Mary Beth Stengler, Paula Wise
Housing & Community Development	County-Wide Parks and Recreation Study and Projects	Robbins Park - Restoration	Chambers County	Don Brandon, James Silva, Ann Newton, Charles Gordy, Garth Woodfin, Kenneth C. Kohlmeyer, Pam Hopper, Rachael Byrd, Stephen Wilson
Coastal Areas	Restoration and Preservation of Coastal Marsh	Restoration and Preservation of Coastal Marsh and Habitat Systems	Texas Coastal Partners	Linda Shead, Galveston Bay Estuary Program, Galveston Bay Foundation
Community Facilities & Infrastructure	Creation of Waterfront Connectivity	Oak Island-Double Bayou Navigation Channel, Breakwater, and Jetties	CLCND	Artie Presley, Gloria Moore, Howard Hanks, Linda Shead, Mary Beth Stengler
Education, Health & Human Services	Expand and Strengthen Social Services	County-Wide School Drug Prevention Program	Unknown at this time	Angel Minehart, Gloria Moore
Housing & Community Development	In Housing & Community Development Introduction	Homelessness Prevention and Rapid Rehousing	ChaRT	Angela Clark, Tonia Bellmyer
Economics & Industry	Workforce Development Focused Industry Training Academy	Workforce Development Focused Industry Training Academy	Lamar Institute of Technology and Lee College	Sam Williams, Steve McCorgoodale
Economics & Industry	East Chambers Industrial Park	Eco-Industrial Park and Light Manufacturing District	Baytown/West Chambers County Economic Development Foundation	B. J. Simon, Sarah Cerrone
Economics & Industry	East Chambers Industrial Park	East Chambers Industrial Park	Baytown/West Chambers County Economic Development Foundation	B. J. Simon, Melissa Hodges
Economics & Industry	Agriculture Infrastructure Revolving Loan Fund	Agriculture Infrastructure Revolving Loan Fund	Chambers County	Bill White, Steven White, Jean Lagow, Jose Pescador, Tyler Fitzgerald
Economics & Industry	Commercial Fishing Industry Coalition Fund	Commercial Fishing Industry Coalition Fund	Unknown at this time	Ann Newton, Jose L. Pescador, Pat Sanders, Tim Sanders, Terrie Looney
Economics & Industry	EcoTourism Marketing and Outreach	Eco-Tourism Headquarters	Unknown at this time	Sarah Cerrone
Education, Health & Human Services	Improve Emergency Operations Facilities	Hardened Staging Centers/Shelters of Last Resort for Emergency Responders	Chambers County EMS	Bruce Oliphant, Kaye Cormier, Nolan George, Danny Bidy, Lenard Bettis, Mark Huddleston
Housing & Community Development	Marine Trades Workforce Housing	Fisheries and Agriculture Workforce Housing	Possible local employer	Jacque White
Education, Health & Human Services	Expand and Strengthen Social Services	Mental Health Clinic - East County	Winnie-Stowell Hospital District; CCPHD #1	Shalia Hampton, Bob Pascasio, Debra Miesch, Linda Bennett, Tommy Willcox, Danny Thompson
Education, Health & Human Services	Expand and Improve Access To Medical Services	Winnie Hospital - Provide Additional Imaging Capabilities to Underserved Area	Winnie-Stowell Hospital District	Shalia Hampton, Bob Pascasio, Jeannie Martinez, Danny Thompson, Pierre Leger

# PROJECT SPONSORS AND CHAMPIONS

Plan Sector	Project Name - Plan	Project Name - Public Meetings	Sponsor	Champion(s)
Community Facilities & Infrastructure	County-Wide Drainage Improvements	Anahuac Drainage Channel - Create New	TBCD	Danny Pringle
Community Facilities & Infrastructure	County-Wide Drainage Improvements	Channelize and Line Sixth Street Ditch	TBCD	Danny Pringle
Community Facilities & Infrastructure	County-Wide Drainage Improvements	New Drainage Ditch from Stowell to Spindletop	TBCD	
Community Facilities & Infrastructure	County-Wide Drainage Improvements	Create New West Chambers County Drainage District	Chambers County	Ammaron Stone
Community Facilities & Infrastructure	Lake Anahuac Levees - Expand and Armor	Lake Anahuac Levees - Rebuild and Armor	CLCND	Mary Beth Stengler
Education, Health & Human Services	Expand and Improve Access To Medical Services	Winnie Hospital - Renovate and Expand Dietary Department to Provide Meals on Wheels	Winnie-Stowell Hospital District	Shalia Hampton, Bob Pascasio, Jeannie Martinez, Danny Thompson, Pierre Leger
Community Facilities & Infrastructure	Repair and Improve Roadways and Bridges	Extend State Highway 563 to Oak Island	Chambers County	Don Brandon, Howard Hanks
Education, Health & Human Services	Construct a Long-Term/Elder Care Facility	Long-Term/Elder Care Facility - Replace Facility Destroyed by Hurricane Ike	CCPHD#1	Linda Bennett, Tommy Willcox, Bob Pascasio
Community Facilities & Infrastructure	Public Water System Improvements	Fire Supply and Water System Improvements - Unincorporated Rural Communities in Chambers County	TBCD	Kit Jones, Donna Chance, Doris Nelson, Fred Anderson
Community Facilities & Infrastructure	Public Sewer System Improvements	Smith Point Sewage Treatment Plant - Complete Community Connections	TBCD	Kit Jones, Fred Anderson
Community Facilities & Infrastructure	Public Sewer System Improvements	Central Chambers County Sewage Treatment Plant	TBCD	Guy Jackson, Kit Jones
Housing & Community Development	Community Center/Firehouse, New and Improved	Oak Island - Community Center/Firehouse	Oak Island VFD	Allen Meek, Mark Pagels, Raymond Anders, Gloria Moore, Jacque White, Mark Pagels
Education, Health & Human Services	Bayside Community Hospital Initiatives	Bayside Clinic - Replace	CCPHD#1	Bob Pascasio, Shalia Hampton, Tommy Willcox
Housing & Community Development	Vision Planning - County Wide Planning Integrating All Communities	Visioning Plan - Small Communities and Rural Regions	ChaRT	Bill Cobabe, Linda Shead, Ammaron Stone, Guido Persiani, Jennifer Anderson, Jacque White, Mark Pagels, Darlene Pagels, Gloria Morris, Doris Nelson
Housing & Community Development	Building Code and Land Use Regulations	Implement Housing Regulations and Code Enforcement	Chambers County	Bill Cobabe, Keith Hall, Darlene Pagels, Gloria Moore
Housing & Community Development	Walk and Bike Ways, Signage and Streetlights Improvement Project	Unincorporated Communities - Sidewalks, Signage and Streetlights Improvement Project	Chambers County	Artie Presley, Jacque White, Darlene Pagels, Pam Hopper, Gloria Moore, Rusty Dearman
Community Facilities & Infrastructure	Repair and Improve Roadways and Bridges	Smith Point - Raise Bridge and Approaches for FM 562 Over Lone Oak Bayou	Chambers County	Don Brandon, John Fendley
Coastal Areas	Restoration and Preservation of Coastal Marsh	Smith Point - Wildlife Habitat Restoration	Texas Coastal Partners	Galveston Bay Estuary Program, Galveston Bay Foundation
Education, Health & Human Services	Improved Emergency Services	Redo Street Address System and Implement GIS Database of Addresses	Chambers County	Pam Hopper, Jennifer Anderson, Bill Cobabe, Mike Kubik
Education, Health & Human Services	Expand and Improve Access To Medical Services	Winnie Hospital - Mitigate Against Damage to Oxygen Supply	Winnie-Stowell Hospital District	Shalia Hampton, Bob Pascasio, Jeannie Martinez, Danny Thompson, Pierre Leger

# PROJECT SPONSORS AND CHAMPIONS

Plan Sector	Project Name - Plan	Project Name - Public Meetings	Sponsor	Champion(s)
Economics & Industry	AgLand Mapping and Reuse Assessment	AgLand Mapping and Reuse Assessment	Baytown/West Chambers County Economic Development Foundation	B. J. Simon, Bobby Edwards, Tyler Fitzgerald
Education, Health & Human Services	Improve Emergency Operations Facilities	EOC at Courthouse - Renovate Mitigate and Upgrade Existing	Chambers County	Ryan Holzaepfel, Don Brandon
Economics & Industry	EcoTourism Marketing and Outreach	Create Pamphlets to Inform Public of Outdoor Opportunities in Chambers County	Unknown at this time	Linda Shead, Sarah Cerrone
Economics & Industry	In Economics and Industry Introduction	Place of Refuge for Livestock	Unknown at this time	Linda Tinnerman, Stacy Wilber, Susan Bellmyer, Keith Hall
Coastal Areas	Shore Protection and Beach Nourishment	Shore Protection and Beach Nourishment on Gulf Coast, Intracoastal Waterway and Bay Shorelines	Galveston Bay Foundation	Bill White, Jennifer Anderson, Galveston Bay Estuary Program
Community Facilities & Infrastructure	Repair and Improve Roadways and Bridges	Expand Loughridge Subdivision Bridge From One Lane	Chambers County	Don Brandon
Community Facilities & Infrastructure	Repair and Improve Roadways and Bridges	Replace Bailey Road Bridge	Chambers County	Don Brandon
Community Facilities & Infrastructure	Replace Water Supply Canal/ Bayou Crossings	Replace Wooden Flume Where Lone Star Canal Crosses Double Bayou	CLCND and TBCD	Mary Beth Stengler, Danny Pringle
Community Facilities & Infrastructure	Replace Water Supply Canal/ Bayou Crossings	Upgrade Structure that Carries Lone Star Canal across Oyster Bayou	TBCD and CLCND	Danny Pringle, Mary Beth Stengler
Community Facilities & Infrastructure	Public Water System Improvements	TBCD West Plant Water Reservoir - Expand	TBCD	Kit Jones
Community Facilities & Infrastructure	Public Water System Improvements	Twenty Inch Water Main Along I-10	TBCD	B. J. Simon, Kit Jones
Community Facilities & Infrastructure	Smith Point - Improve/Upgrade Electrical Service	Smith Point - Improve/Upgrade Electrical Service	Entergy	Fred Anderson, Dan Syphrett
Housing & Community Development	County-Wide Parks and Recreation Study and Projects	Lake Anahuac Boat Ramp - Repair and Renovate	City of Anahuac	Guy Jackson
Economics & Industry	Eco-Tourism Marketing and Outreach	Create Birding Festival in Chambers County	Anahuac Chamber of Commerce	Artie Presley, Doris Nelson, Jacque White
Coastal Areas	Implement Programs to Control Invasive Species on Large Open Lands	Implement Programs to Control Invasive Species on Large Open Lands	Texas Coastal Partners	Pudge Willcox, Galveston Bay Estuary Program - Invasive Species Workgroup, Natural Resources Conservation Service, Trinity Bay Soil and Water Conservation District, Galveston Bay Foundation
Community Facilities & Infrastructure	Creation of Waterfront Connectivity	Anahuac Marina	CLCND, City of Anahuac	Guy Jackson, Mary Beth Stengler

# COMMUNITY PRIORITIES

The results of the planning process made it clear that Chambers County wishes to retain the small town individual identity of communities like Smith Point, Oak Island, Double Bayou, Winnie, and Anahuac. The coastal towns identify with their proximity to the waterfront along Trinity Bay, and local bayous and attraction

to eco-tourism. Winnie maintains its character and identity from ranching and agriculture, and as a gateway to coastal areas and beach. They all envision capturing a greater portion of the thousands of people, who travel to Southeast Texas each year to view migration of waterfowl, and recreational travelers

County-Wide	
Projects	%*
Bayside Hospital - Relocate & Expand	100%
County-Wide - Repair, Clear and Maintain Drainage Systems	53%
New Equipment for Volunteer Fire Department	52%
Salt Water Barriers	48%
Oyster Reef Restoration	45%
GPS in EMS Vehicles with 911 Connection	42%
County-Wide School Drug Prevention Program	42%
Super Clinic in West Chambers	39%
Housing Resource Center	38%
Workforce Development Training	35%
Fire Supply and Water System Improvements - Unincorporated Communities	34%
Hardened Shelter of Last Resort for Emergency Responders	34%
Replace Nursing Home	34%
Fuel Storage for Emergencies and Disasters	33%
Sidewalks, Signage and Streetlights	33%
Smith Point - Community Center / Fire Station	30%
Gap Financing - Home Reconstruction	30%
School Dropout Prevention	30%
Upgrade Roads - South-Central Chambers County	29%
Hire Additional Officers	29%
Robins Park - Restoration	29%
Shore Protection and Beach Nourishment on Gulf Coast and Intracoastal Waterway	29%
Homeowner Construction Program	28%
Housing for Frail Seniors	26%
Place of Refuge for Livestock	26%
Extend State Highway 563 to Oak Island	26%
Volunteer Fire Departments - Training Center	25%
Repair Roads Damaged by Disaster Recovery Operations	24%

Smith Point	
Projects	Count
Robbins Park - Restoration	73
Smith Point - Community Center / Fire Station	70
Oyster Reef Restoration	69
Smith Point Navigation Channel - Maintenance Dredging	57
County-Wide - Repair, Clear and Maintain Drainage Systems	54
Bayside Hospital - Relocate & Expand	49
Upgrade Roads - South-Central Chambers County	46
New Equipment for Volunteer Fire Department	46
Salt Water Barriers	46
Finish Connections to Smith Point Sewage Treatment Plant	45
Upgrade Electrical Service to Smith Point	42
Homeowner Construction Program	39
Housing Resource Center	36
Shore Protection and Beach Nourishment on Gulf Coast and Intracoastal Waterway	36
Fire Supply and Water System Improvements - Unincorporated Communities	34
Mobile Clinic Service	34
English as a Second Language Program	33
Gap Financing - Home Reconstruction	33
County-Wide School Drug Prevention Program	29
Fuel Storage for Emergencies and Disasters	28
Fisheries and Agriculture Workforce Housing	24
Old Channel from Smith Point to Anahuac - Dredge and Reestablish Levee	24
Workforce Development Training	23
Repair Roads Damaged by Disaster Recovery Operations	22
Raise FM 562 Over Lone Oak Bayou	21
Lake Anahuac Boat Ramp - Restore	21
School Dropout Prevention	20
Extend State Highway 563 to Oak Island	20

Oak Island	
Projects	Count
Oak Island - Community Center/Firehouse	24
Extend State Highway 563 to Oak Island	22
County-Wide - Repair, Clear and Maintain Drainage Systems	20
Sidewalks, Signage and Streetlights	18
New Double Bayou Harbor	18
Implement Housing Regulations and Code Enforcement	17
Oyster Reef Restoration	15
Salt Water Barriers	15
Repair Roads Damaged by Disaster Recovery Operations	14
Bayside Hospital - Relocate & Expand	13
New Equipment for Volunteer Fire Department	13
Replace Nursing Home	13
Upgrade Roads - South-Central Chambers County	12
Housing Resource Center	12
Restoration and Preservation of Coastal Marsh and Habitat	12
Create Birding Festival	11
Hire Additional Officers	11
GPS in EMS Vehicles with 911 Connection	11
Double Bayou Navigation Channel Maintenance Dredging	11
Clean-Up Bayous in Oak Island	11
Homeowner Construction Program	10
Fire Supply and Water System Improvements - Unincorporated Communities	10
School Dropout Prevention	10
Housing for Frail Seniors	10
Implement Programs to Control Invasive Species	10
Anahuac Navigation Channel - Maintenance Dredging	9
Visioning Plan - Small Communities and Rural Regions	9
Accessibility for Disabled	9

\*The percentage equals the total of the dots divided by the total number of participants

# COMMUNITY PRIORITIES

interested in boating, fishing, and other water based activities. Oak Island and Double Bayou have developed a community vision focusing on the lifeblood of the Bayou. Smith Point identifies with their connection to Trinity Bay. To capitalize on the water, the communities want to encourage interconnectivity through paths

for pedestrians and bicycles, and development of amenities and facilities, such as: boat ramps; parks; piers; and gathering venues that support recreational opportunities for citizens and eco-tourism.

Anahuac	
Projects	Count
Bayside Hospital - Expand and Relocate	127
GPS in EMS Vehicles with 911 Connection	38
Super Clinic in West Chambers	35
Housing for Frail Seniors	29
Sidewalks, Signage and Streetlights	27
Extend State Highway 563 to Oak Island	24
Workforce Development Training	24
Oyster Reef Restoration	22
Salt Water Barriers	22
Housing Resource Center	22
Port of Anahuac Marina	20
Oak Island - Community Center/Firehouse	17
New Equipment for Volunteer Fire Department	17
Fire Supply and Water System Improvements - Unincorporated Communities	17
School Dropout Prevention	17
Gap Financing - Home Reconstruction	17
Fuel Storage for Emergencies and Disasters	17
Replace Bayside Clinic	17
Place of Refuge for Livestock	16
Water Rescue Squad	16
Lake Anahuac Boat Ramp - Restore	15
Rebuild and Armor Lake Anahuac Levees	15
Create Birding Festival	14
Shore Protection and Beach Nourishment on Gulf Coast and Intracoastal Waterway	14
Hire Additional Officers	13
Redo Street Addresses and Implement GIS Database	13
Anahuac Navigation Channel - Maintenance Dredging	12

Winnie	
Projects	Count
New Equipment for Volunteer Fire Department	43
Winnie Hospital - Harden and Mitigate	36
County-Wide - Repair, Clear and Maintain Drainage Systems	34
Hardened Shelter of Last Resort for Emergency Responders	31
Volunteer Fire Departments - Training Center	31
Place of Refuge for Livestock	30
Bayside Hospital - Relocate & Expand	29
County-Wide School Drug Prevention Program	29
Salt Water Barriers	29
Winnie Hospital - Improve Imaging Capabilities	29
GPS in EMS Vehicles with 911 Connection	25
Winnie Hospital - Oxygen Storage	25
Winnie Hospital - Renovate and Expand Dietary Dept.	25
Fire Supply and Water System Improvements - Unincorporated Communities	23
Workforce Development Training	22
Fuel Storage for Emergencies and Disasters	22
School Dropout Prevention	20
East Chambers Industrial Park	20
Housing Resource Center	19
Hire Additional Officers	19
Tax District on I-10	17
Gap Financing - Home Reconstruction	16
Implement Housing Regulations and Code Enforcement	15
Build 20" Water Main Along I-10	15
Housing for Frail Seniors	14
Shore Protection and Beach Nourishment on Gulf Coast and Intracoastal Waterway	14
Improve Emergency Communications	14
Repair Roads Damaged by Disaster Recovery Operations	14

Mont Belvieu	
Projects	Count
Bayside Hospital - Relocate and Expand	58
Super Clinic in West Chambers	53
Hardened Shelter of Last Resort for Emergency Responders	32
GPS in EMS Vehicles with 911 Connection	30
McCollum Park - Restoration	29
New Equipment for Volunteer Fire Department	25
Hire Additional Officers	23
Winnie Hospital - Improve Imaging Capabilities	22
Workforce Development Training	22
Winnie Hospital - Harden and Mitigate	21
Winnie Hospital - Oxygen Storage	21
New West Chambers County Drainage District	21
County-Wide School Drug Prevention Program	20
Salt Water Barriers	20
Replace Bayside Clinic	19
Lake Anahuac Boat Ramp - Restore	19
County-Wide - Repair, Clear and Maintain Drainage Systems	18
Fuel Storage for Emergencies and Disasters	18
Volunteer Fire Departments - Training Center	16
Winnie Hospital - Renovate and Expand Dietary Dept.	16
Housing Resource Center	16
Sidewalks, Signage and Streetlights	16
Equipment for Evacuating Nursing Home Patients	16
School Dropout Prevention	15
Upgrade Roads - South-Central Chambers County	14
Housing for Frail Seniors	13
Visioning Plan - Small Communities and Rural Regions	13
English as a Second Language Program	13

# ADDITIONAL RESOURCES FOR SELECTED PROJECTS

PROJECT - PLAN	AGENCY	PROGRAM
Implement Programs to Control Invasive Species on Large Open Lands	TxAg	Technical Assistance
Restoration and Preservation of Coastal Marsh and Habitat Systems	David and Lucille Packard Foundation	Protect and Restore Coasts
	DOI	Land and Water Conservation Fund State Grant Program
	Fish and Wildlife Service	National Coastal Wetlands Conservation Program
	Texas Parks and Wildlife	Wildlife and Sport Fish Restoration Program
	USDA/FSA	State Acres for Wildlife Enhancement (SAFE)
	USDA/NRCS	Technical Resources for Coastal and Shoreline Restoration
Restoration of Navigation Channels	DHS	Flood Mitigation Assistance Program
	DOI	Advisory and Consultation Services for the National Register of Historic Places
		Land and Water Conservation Fund State Grant Program
	National Park Service	Historic Preservation Fund Grants-in-Aid
	Texas Historical Commission	Texas Preservation Trust Fund Grants
	TxORCA	CDBG
	US Treasury	Harbor Maintenance Trust Fund
	USACE	Construction General (CG) Funding
		Emergency Advance Measures for Flood Prevention
		Operations and Maintenance Funds
		Protection, Clearing and Straightening Channels
		Stimulus Funding
		Watercourse Navigation: Protection, Clearing, and Straightening Channels
	USDA/NRCS	Small Watershed Program, Flood Prevention Program
Wetland Reserve Program		

# ADDITIONAL RESOURCES FOR SELECTED PROJECTS

	PROJECT - PLAN	AGENCY	PROGRAM
Coastal Areas	Shore Protection and Beach Nourishment	David and Lucille Packard Foundation	Protect and Restore Coasts
		DHS	Debris Removal and Public Assistance Flood Mitigation Assistance Program
		DOI	Land and Water Conservation Fund State Grant Program
		Entergy Foundation	Community Improvement/Enrichment
		Fish and Wildlife Service	National Coastal Wetlands Conservation Program
		US Treasury	Harbor Maintenance Trust Fund
		USACE	Protection, Clearing and Straightening Channels
			Rehabilitation of Flood Control Works
			Supplemental Funding
		USDA/FSA	Farm Loan Programs
			State Acres for Wildlife Enhancement (SAFE)
		USDA/NRCS	Conservation Technical Assistance
			Small Watershed Program, Flood Prevention Program
Technical Resources for Coastal and Shoreline Restoration			
USDA/RAC	Technical Assistance programs		
Community Facilities & Infrastructure	County-Wide Drainage Improvements	DHS	Flood Mitigation Assistance Program
			Public Assistance
		TxORCA	CDBG
		USACE	Emergency Advance Measures for Flood Prevention
			Protection, Clearing and Straightening Channels Rehabilitation of Flood Control Works
	USDA/NRCS	Small Watershed Program, Flood Prevention Program	
	Creation of Waterfront Connectivity	TxORCA	CDBG
		US Treasury	Harbor Maintenance Trust Fund
		USACE	Operations & Maintenance Funding and Stimulus Funding
	Protection, Clearing and Straightening Channels		

# ADDITIONAL RESOURCES FOR SELECTED PROJECTS

	PROJECT - PLAN	AGENCY	PROGRAM
Community Facilities & Infrastructure	Public Sewer System Improvements	EPA	Clean Water State Revolving Loan Fund for Wastewater Facilities
		HUD	CDBG Supplemental and Regular Allocations
		TxORCA	CDBG Supplemental and Regular Allocations
		USDA/RD	Water and Waste Disposal Program
	Public Water System Improvements	DHS	Assistance to Fire Fighters
		Texas Forest Service	Rural Volunteer Fire Department Assistance Program
		TxORCA	CDBG
		USDA/RD	Public Services Assistance
	Repair and Improve Roadways and Bridges	Chambers County	Road and Bridge Repair funding
		County Highway Department	Repair of roads
		DHS	Public Assistance
			Roadway Repairs
		TxDOT	Highways and Bridges
	Replace Water Supply Canal/Bayou Crossings	DHS	Public Assistance
		TxORCA	CDBG
	Restore Salt Water Gates	DHS	Flood Mitigation Assistance Program
		Fish and Wildlife Service	National Coastal Wetlands Conservation Program
		TxORCA	CDBG
		USACE	Emergency Advance Measures for Flood Prevention
			Rehabilitation of Flood Control Works
USDA/NRCS	Small Watershed Program, Flood Prevention Program		
Lake Anahuac Levees - Expand and Armor	DHS	Flood Mitigation Assistance Program	
		Public Assistance at 75% of cost	
	USACE	Operations & Maintenance Funding and Stimulus Funding	

# ADDITIONAL RESOURCES FOR SELECTED PROJECTS

	PROJECT - PLAN	AGENCY	PROGRAM
Economics & Industry	AgLand Mapping and Reuse Assessment	American Farmland Trust	Technical Assistance
		DOE	ARRA - Energy Efficiency & Conservation Block Grant; State Energy Program
		EDA	Infrastructure and Planning Grants
		Entergy Foundation	Education and Literacy, Community Improvement/Enrichment
		EPA	Farm Programs
		Farm Aid	Help for Farmers Program
		HUD	CDBG Supplemental and Regular Allocations
		Private Sector	Public Private Partnership to build ethanol facility and provide funding for training agriculture industry on alternative crop production and training workers to manufacture biofuel and renewable energy products
		TxAgriculture	Interest Rate Reduction Program
		USDA/FSA	Emergency Conservation Program (ECP); Emergency Loan Program (EM); Disaster Debt Set-Aside Program
		USDA/NRCS	Emergency measures for runoff remediation, soil erosion and debris
		USDA/RAC	Technical Assistance programs
		Agriculture Infrastructure Revolving Loan Fund	TxAgriculture
	USDA/FSA		Emergency Conservation Program; Farm Loan Program
	USDA/RD-BCS		Business and Industry Guaranteed Loans
	Commercial Fishing Industry Coalition Fund	Audubon Society	
		EDA	Infrastructure and Planning Grants
		EPA/NOAA	NACO Coastal Counties Initiative
			TX Sea Grant
		HUD	CDBG Supplemental and Regular Allocations
		Private Sector	Oyster trade associations
		Texas Parks and Wildlife	Wildlife and Sport Fish Restoration Program
		TxGLO	(blank)
USDA/RD	Rural Development Programs		

# ADDITIONAL RESOURCES FOR SELECTED PROJECTS

	PROJECT - PLAN	AGENCY	PROGRAM	
Economics & Industry	East Chambers Industrial Park	DOL	ARRA - Adult Job Training and High Growth and Emerging Industry Job Training, Dislocated Worker Assistance; WIA	
		DOT	ARRA - Highway Infrastructure Investment; STIP	
		EDA	Infrastructure and Planning Grants	
		HUD	CDBG Disaster, Stimulus and Regular Allocations	
			CDBG Regular Allocation	
		Private Sector	Capital Investment through location of business in industrial parks	
		USDA/RD	Rural Development Programs	
	EcoTourism Marketing and Outreach	Fish and Wildlife Service	National Coastal Wetlands Conservation Program	
			Pittman-Robertson Wildlife Restoration Program	
		Fund for Wild Nature	Native Species and Wild Ecosystems	
		Newfield Foundation	Supports programs designed to promote the environment	
		NOAA	Coastal and Marine Habitat Restoration Project Grants-Recovery Act	
		Texas Parks and Wildlife	Boat Access Program and Outdoor Facilities Program	
	Public Oyster Reef Restoration - Trinity Galveston Bay Complex	USDA/NRCS	Conservation Technical Assistance	
			National Fish and Wildlife Foundation	Matching grants
			NOAA	Coastal and Marine Habitat Restoration Project Grants-Recovery Act
			USDA/RD	Rural Business Enterprise Grant Program
	Workforce Development Focused Industry Training Academy	USDA/RD-BCS	Business and Industry Guaranteed Loans	
			DOL	ARRA - Adult Job Training and High Growth and Emerging Industry Job Training, Dislocated Worker Assistance; WIA
			DOT/FTA	Job Access Reverse Commute for transportation supportive services
HHS			Supportive services for healthcare and day care	
		HUD	CDBG - Public Services Grants for supportive services	

# ADDITIONAL RESOURCES FOR SELECTED PROJECTS

	PROJECT - PLAN	AGENCY	PROGRAM
Education, Health & Human Services	Bayside Community Hospital Initiatives	Bristol-Myers Squibb Foundation	Reduce health disparities by strengthening community-based health care worker capacity
		Commonwealth Fund	Health care with improved quality, and greater efficiency for vulnerable individuals and families
		DHS	Assistance to Firefighters Grant Program
			Flood Mitigation Assistance Program
		East Texas Communities Foundation	Health and Human Services
		EDA	Grants for Public Works and Development Facilities
		Federal Housing Administration (FHA)	Section 242 Hospital Capital Financing Assistance
		HHS	Bureau of Primary Health Care Planning Grant
		HHS/HRSA	Community Health Centers
		Kresge Foundation	Health, Community Centers and Hospital Construction Funds
		M.D. Anderson Foundation	Support and maintenance of hospitals
		Texas Forest Service	Rural Volunteer Fire Department Assistance Program
		TxORCA	CDBG
USDA/RD	Community Facilities Grants and Loans		
Wilton & Effie Mae Hebert	Giving for hospitals and health associations		
Education, Health & Human Services	Expand and Improve Access To Medical Services	Bridgeway Charitable Foundation	Education, Health and Wellness, and Humanitarian Aid
		Bristol-Myers Squibb Foundation	Reduce health disparities by strengthening community-based health care worker capacity
		Caterpillar Foundation	Health and Human Services
		Cockrell Foundation	Social Services and Healthcare Programs
		Commonwealth Fund	Health care with improved quality, and greater efficiency for vulnerable individuals and families
		DHS	Flood Mitigation Assistance Program
			Mitigation program
		East Texas Communities Foundation	Health and Human Services
		Kresge Foundation	Health, Community Centers and Hospital Construction Funds
		MacDonald-Peterson Foundation	Health and Human Services Programs
		Newfield Foundation	Supports programs that promote medial and community services
		Texas Feeding Texans	Home-Delivered meal Grant Program
		TxORCA	Medically Underserved Community Matching
		Vale-Asche Foundation	Health and social services
West Endowment	Giving to health organizations		
William Randolph Hearst Foundation	Health Grants		

# ADDITIONAL RESOURCES FOR SELECTED PROJECTS

	PROJECT - PLAN	AGENCY	PROGRAM
Education, Health & Human Services	Expand and Strengthen Social Services	Annenberg Foundation	Giving for education and youth development
		Aventis Pharmaceuticals Health Care Foundation	Youth Development
		Brazos Valley Community Action Agency (BVCAA)	CSBG
		Bristol-Myers Squibb Foundation	Reduce health disparities by strengthening community-based health care worker capacity
		Captain Planet Foundation	Youth Solving Environmental Problems
		Commonwealth Fund	Health care with improved quality, and greater efficiency for vulnerable individuals and families
		Department of Education	Adult Education--Basic Grants to States
			Adult Education--National Leadership Activities
			Even Start
			Improving Literacy Through Libraries
			School Dropout Prevention Program
		East Texas Communities Foundation	Health and Human Services
		El Paso Corporate Foundation	Mental Health Care Funds
		Health Resources and Services Administration (HRSA)	Planning grant
		HHS	Substance Abuse and Mental health Administration (SAMSA)
		HHS/HRSA	Community Health Centers
		Holthouse Foundation for Kids	Improve opportunities for at-risk children
		International Paper Company Foundation	ESL Funds
		John P. McGovern Foundation	Children and Family Health Education
		Macarthur Foundation	Supports crime and violence prevention and youth programs
		MacDonald-Peterson Foundation	Health and Human Services Programs
		McGraw Hill Companies Corporate Contributions	Programs in adult and family literacy
		Surgeon General's Office	Medical Reserve Corps
		UPS Foundation	Adult literacy programs
		US Centers for Disease Control (CDC)	Epidemic Intelligence Service/Disease Control and Prevention
		USDA/RAC	Helping hospitals get capital financing
USDA/RD	Community Facilities Grants and Loans		

# ADDITIONAL RESOURCES FOR SELECTED PROJECTS

	PROJECT - PLAN	AGENCY	PROGRAM	
Education, Health & Human Services	Improve Emergency Operations Facilities	Commonwealth Fund	Health care with improved quality, and greater efficiency for vulnerable individuals and families	
		DHS	Emergency Operations Center Grant Program	
			Hazard Mitigation Grant Program	
			Pre-Disaster Mitigation Program Competitive Grants	
		East Texas Communities Foundation	Health and Human Services	
		Kresge Foundation	Health, Community Centers and Hospital Construction Funds	
		Texas Forest Service	Rural Volunteer Fire Department Assistance Program	
	USDA/RD	Community Facilities Grants and Loans		
	Improved Emergency Services	DHS	Assistance to Firefighters Grant Program	
			Emergency Operations Center Grant Program	
			Fire fighter Assistance Grants	
			Fire Management Assistance Grant Program, Subgrants through the State	
			Interoperable Emergency Communications Grant Program	
			IPAWS	
			Public Safety Interoperable Communications Grant Program	
			SAFER Grants for Firefighter Training	
			Staffing for Adequate Fire and Emergency Response (SAFER) Grants	
			DOJ	Byrne-Jag Assistance Grant
				COPS Hiring Recovery Program (CHRP)
				Rural Law Enforcement
			HUD	CDBG Regular Allocation
Texas Forest Service			Rural Volunteer Fire Department Assistance Program	
TxORCA	CDBG			
USDA/RD	Community Facilities Grants and Loans			
Long-Term/Elder Care Facility - Replace Facility Destroyed by Hurricane Ike	TxORCA	CDBG		
		Rural Health Facility Capital Improvement Program		

# ADDITIONAL RESOURCES FOR SELECTED PROJECTS

	PROJECT - PLAN	AGENCY	PROGRAM
Housing & Community Development	Adult Family Home for Seniors	Federal Home Loan Bank of Dallas	Affordable Housing Program
		HUD	CDBG Supplemental and Regular Allocations HOME Investment Partnership Program
		USD/ARD	Community Facilities Grants and Loans
		Veterans Affairs	Construction of State Home Facilities
	ChaRT Community Recovery Center	American Institute of Architects	Center for Communities by Design Disaster Assistance program
		American Planning Association	Community Assistance Program
		Entergy Foundation	Start-up grant
		Habitat for Humanities International	Disaster Response: Rebuilding Lives and Communities
		HUD	Community Outreach Partnerships Centers Program (COPC) HOME Investment Partnership Program
		HUD/PATH	Planning for Long-Term Disaster Housing
		International Code Council	Donation of ICC code book
		Macarthur Foundation	Public sector initiatives to improve the existing stock of rental homes.
		Motiva	Start-up grant
		National Association of Homebuilders	John Ingargiola: 202 557 9455
		Nehemiah's Vision	Grants, Volunteers & Other Resources
		Private Sector	Computer and software donations
		Rice University	Building Institute Interdisciplinary Collaboration School of Architecture
		Texas A&M University	Community Extension Services
		University of Houston	Construction Management Program: School of Architecture:
	USD/ARD	Community Facilities Grants and Loans	
	Community Center/Firehouse, New and Improved	Department of Education	21st Century Community Learning Centers
		DHS	Assistance to Fire Fighters
		HHS	Capacity building grants to non-profits
		National Telecommunications and Information Administration	Broadband Technology Opportunities
		Texas Forest Service	Rural Volunteer Fire Department Assistance Program
		USD/ARD	Community Facilities Grants and Loans Distance learning, telemedicine, and broadband

# ADDITIONAL RESOURCES FOR SELECTED PROJECTS

	PROJECT - PLAN	AGENCY	PROGRAM
Housing & Community Development	County-Wide Parks and Recreation Master Plan	David and Lucille Packard Foundation	Protect and Restore Coasts
		DOI	Advisory and Consultation Services for the National Register of Historic Places Land and Water Conservation Fund State Grant Program
		Fish and Wildlife Service	National Coastal Wetlands Conservation Program
			Pittman-Robertson Wildlife Restoration Program
		Fund for Wild Nature	Native Species and Wild Ecosystems
		Musser Fund	Solving Environmental Concerns
		National Park Service	Historic Preservation Fund Grants-in-Aid
		Newfield Foundation	Supports programs designed to promote the environment
		NOAA	Coastal and Marine Habitat Restoration Project Grants-Recovery Act
		Texas Historical Commission	Texas Preservation Trust Fund Grants
		Texas Parks and Wildlife	Boat Access Program and Outdoor Facilities Program
			Small Community Grants
			Wildlife and Sport Fish Restoration Program
		TxORCA	CDBG
		USDA/NRCS	Conservation Technical Assistance Small Watershed Program, Flood Prevention Program
	Valero Energy Foundation	Parks, Recreation and Playgrounds	
	Elevator/Lift Systems	HUD	CDBG Disaster, Stimulus and Regular Allocations
			HOME Investment Partnership Program
		Medicaid	Accessibility Modification Program
		TDCHA	Housing Trust Fund
USDA/RD		Improvement/Repair Loans & Grants	
Veterans Affairs		Vocational Rehabilitation Services	

# ADDITIONAL RESOURCES FOR SELECTED PROJECTS

	PROJECT - PLAN	AGENCY	PROGRAM
Housing & Community Development	Marine Trades Workforce Housing	DOL	Farm Worker Housing
		Federal Home Loan Bank of Dallas	Affordable Housing Program
		Ford Foundation	Rural Development and Housing
		Housing Assistance Council (HAC)	Technical Assistance
		HUD	CDBG Supplemental and Regular Allocations
			HOME Investment Partnership Program
		League of United Latin American Citizens	LULAC National Housing Commission
		Motivation Education & Training, Inc (MET)	Technical Assistance
		TDCHA	Housing Tax Credits
			Migrant Labor Housing Facilities
	USDA/RD	Section 514/516 Farm Labor Housing Loan and Grant program	
	Homeowner Construction Program	ChaRT	Program Fees
		Habitat for Humanities International	Disaster Response: Rebuilding Lives and Communities
		HUD	HOME Investment Partnership Program
		Wells Fargo Housing Foundation	Construction and rehab of homes
	Building Code and Land Use Regulations	DHS	FEMA Home repair assistance programs
			Increased Cost of Compliance
		HUD	CDBG Disaster, Stimulus and Regular Allocations
			CDBG Supplemental and Regular Allocations
		Macarthur Foundation	Public sector initiatives to improve the existing stock of rental homes.
		TDCHA	Comprehensive Energy Assistance Program (CEAP)
			HOME Investment Partnership (HOME) Program
			Weatherization Assistance Program (WAP)
		TxDPS - Division of Emergency Management	HMGP
		USDA/RD	Housing Preservation Grants
	Wells Fargo Housing Foundation	Construction and rehab of homes	

# ADDITIONAL RESOURCES FOR SELECTED PROJECTS

	PROJECT - PLAN	AGENCY	PROGRAM
Housing & Community Development	Gap Financing to Help Homeowners Repair and Replace Homes	DHS	FEMA Home repair assistance programs
			Increased Cost of Compliance
		HUD	CDBG Supplemental and Regular Allocations
			HOME Investment Partnership Program
		TDCHA	Comprehensive Energy Assistance Program (CEAP)
			Weatherization Assistance Program (WAP)
	TxDPS - Division of Emergency Management	HMGP	
	USDA/RD	Housing Preservation Grants	
	Walk and Bike Ways, Signage and Streetlights Improvement Project	DHS	Public Assistance
		HUD	CDBG Supplemental and Regular Allocations
Vision Planning - County Wide Planning	Urban Land Institute Foundation	Vision Planning Program	

# ABBREVIATIONS

BFE	base floor elevation	HUD	US Housing and Urban Development
BDC	Business Development Center CBD Central Business District	LEED	Leadership in Energy and Environmental Design
CCPHD#1	Chambers County Public Hospital District #1	LTCR	Long-Term Community Recovery
CDBG	Community Development Block Grant	mgd	million gallons per day
ChaRT	Chambers Recovery Team	NRCS	Natural Resource Conservation Service
CLCND	Chambers-Liberty Counties Navigation District	NOAA	National Oceanic and Atmospheric Administration
DOE	Department of Energy	ORCA	Office of Rural Community Affairs
EDA	Economic Development Administration	RFP	request for proposal
EDF	Economic Development Foundation		
EMS	emergency medical service	STEP	Statewide Transportation Enhancement Program
EOC	Emergency Operations Center	TBCD	Trinity Bay Conservation District
EPA	US Environmental Protection Agency	TBD	to be determined
ESF-14	Emergency Services Function #14, Long Term Community Recovery	TDHCA	Texas Department of Housing and Community Affairs
FEMA	Federal Emergency Management Agency	TPWD	Texas Parks and Wildlife Department
FSA	Farm Service Agency	TxDOT	Texas Department of Transportation
FHA	Federal Housing Administration	USACE	United States Army Corps of Engineers
GIS	geographic information systems	USDA	US Department of Agriculture
GLO	General Land Office	USFWS	US Fish and Wildlife Service
GPS	geographic positioning systems	VFD	Volunteer Fire Department



