



Storm Siren Project



Submitted on behalf of Jersey Village
Fire Chief Mark Bitz

JURISDICTION PROFILE

Location

Jersey Village is in Northwest Harris County. The current boundaries generally extend from East Highway 290 at Sam Houston Tollway West to Eldridge Parkway from FM 529 North up Jones Road to the 8800 Block, from The Sam Houston Tollway to Eldridge Parkway, encompassing an area of 3.5 square miles.

History

City of Jersey Village was incorporated in April 16, 1956. The 1936 Harris County highway map indicated several residences in the area. Clark W. Henry owned 1,236 acres of land on which he operated F&M Dairy and raised Jersey cattle. Henry discontinued his dairy when his health declined, and he gave the land up so a residential community could be built in 1953. Henry and LeRoy Kennedy, members of the Garden Oaks Baptist Church, began developing the community in February 1954. At first the city had 5 miles of streets and drainage, gas, sewage, and water services. Several houses were established along Jersey Drive. The first family moved to the subdivision in late October 1954. The community developed a school, a park, and an 18-hole golf course. When Jersey Village incorporated on April 16, 1956, all 58 votes were in favor of incorporation and a volunteer police force. Because of the incorporation, Houston did not incorporate Jersey Village's territory into its city limits.

Climate

The climate of Jersey Village is humid subtropical.

Governing Body Format

Jersey Village has a home rule charter and a council manager form of government. The city manager acts as the city's chief executive officer. The council, consisting of the mayor and five elected members, serves as the city's legislative body and votes on matters related to city government. The mayor and each council member have two year terms. Each member is limited to four terms as mayor, council member, or both. The mayor votes if the city council has a tie vote. The city manager has no voice in the city council; the city manager attends all council meetings and provides advice. The city manager manages all city affairs assigned to the city manager by the charter, implements city council directives, and ordinances. The city manager also manages and directs the city organization and employees.

CURRENT TRENDS

Population

According to United States Census Bureau the population of The City of Jersey Village as of January 2010 was 7620. Since 2010, the population has grown at an average annual rate of 11 percent. The population was 7,620 at the 2010 Census. The 2018 Population Estimate is 7,962.

TWDB Grant Application Process

In 2018, The Texas Water Development Board opened a grant opportunity to Texas Government Agencies to assist in flood mitigation. An application was sent from the City of Jersey Village for 50% cost of a storm siren. In January 2019, the City of Jersey Village was notified of approval of this grant. The grant contract was for 50% of \$30,950 the cost of the storm siren

A contract between the City of Jersey Village and The Texas Water Development Board was initiated and approved by both the City of Jersey Village City Council and the Board of Directors of the Texas Water Development Board.

Application for Funding
Presented to
Texas Water Development Board

Attn: Mr. David Carter
Texas Water Development Board
P.O. Box 13231-Capitol Station
Austin, Texas 78711-3231



Requested By
City of Jersey Village
16501 Jersey Drive
Jersey Village, TX 77040
713-466-2100

City Manager Austin Bleess – ableess@ci.jersey-village.tx.us

Fire Chief/ EMC Mark Bitz – mbitz@ci.jersey-village.tx.us

Request for Application

This is a request for application for funding from the Texas Water Development Board for the purchase and installation of one Sentry V10 Siren for notification and safety of our citizens during flood events.



SENTRY SIREN

VR-10

Premium Mass Notification System

Applications

- ▶ Severe Weather Warning
- ▶ Fire Station Alerting
- ▶ Campus Security
- ▶ Large Event Alerting

Unmatched Voice Clarity

THE NEW STANDARD IN

CLARITY AND PERFORMANCE

Since 1905, Sentry Siren has led the mass notification industry in quality, performance and durability. Continuing in this tradition, we are proud to introduce the midrange VR-10. Coupling industry leading intelligibility and enhanced audible range, the VR series promises to challenge traditional perceptions of wide area signaling. Featuring battle proven designs, maintenance-free hardware and rock-solid quality control, the VR-10 is the go-to emergency signaling device for community, construction site and campus alerting. Modular designs mean flexibility and affordability in a wide range of uses. The VR-10 is housed in an all-composite, waterproof, UV-resistant enclosure.

- ▶ Hazardous Location Certified
- ▶ 148 dB peak output
- ▶ UL 1480A Listed
- ▶ 0.91 STI Rating (intelligibility)
- ▶ Voice and Tone Warning
- ▶ Up to 1.5 Mile range
- ▶ 360°, Omni-Directional Sound

mail@SentrySiren.com Sentry Siren, Inc. 2812 N. 9th St. Canon City, CO 81212 www.SentrySiren.com 719-275-6691

I. PROJECT INFORMATION

1. Legal name of applicant(s) – **City of Jersey Village, TX**
2. Participating political subdivisions – **City of Jersey Village, TX**
3. Official representative:
Mark Bitz, Fire Chief / Emergency Management Coordinator,
16501 Jersey Drive Jersey Village, TX 77040 / 713-466-2130

Facsimile – 713-466-2151

Email- mbitz@ci.jersey-village.tx.us

Vendor ID – Sentry Sirens

4. Total project cost **\$30,950**
5. Total grant funds requested from the Texas Water Development Board **\$15,475**
6. Applicant cash contribution to study
7. Source of cash contribution – **City of Jersey Village General Fund**
8. Applicant in-kind contribution, including a description of in-kind services to be provided

\$15,475 - This is 50% of the cost of the siren and installation by the manufacturer. We will oversee the installation of the project and maintain the siren after installation.

9. Identify the watershed(s) for which flood protection tasks will be addressed-

White oak Bayou Watershed

II. PROJECT EVALUATION CRITERIA

10. Identify the purpose of the project which may be one or more of the following:

The purpose of this project is to give our citizens early notice of flooding and able to prepare for flood water into their homes.

11. Provide a detailed scope of work for the proposed project, not to exceed six pages. Include the method(s) of monitoring progress.

The work to be done is the installation of one Sentry Siren capable of emitting tones and voice at a distance of 1.5 miles to notify residents of impending flood to their homes. The installation of this elevated siren will be done at one of our local parks, which is centered on our flood prone areas.

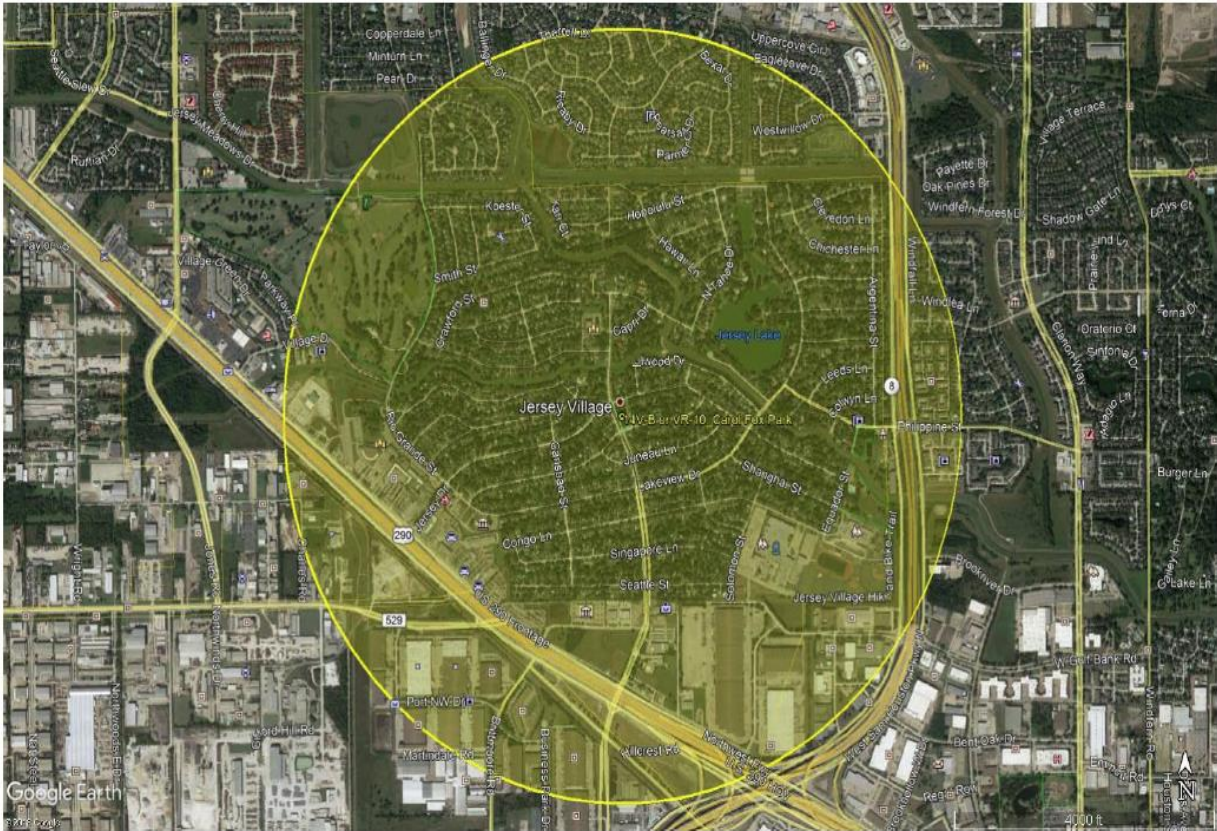
The manufacturer and contractor is Sentry Siren Inc. out of Oklahoma. They will install the pole, siren, radio decoder to an already provided electrical feed. The project will take 8 weeks upon authorization to complete. Sentry Siren will follow all City of Jersey Village permitting rules and provide drawings to our building department for approval.

Our building official and Emergency Management Office will oversee the installation and monitor the work to completion.

Upon completion of installation, the Emergency Management Office will oversee the operation of the siren and conduct all quarterly test. These tests will assure the system functions as designed.

The siren will be located central to our most affected flood prone areas of the city.

Sentry Siren Coverage Study for Jersey Village, TX



12. Describe the severity of the existing or potential flood hazard.

The White Oak Bayou that runs through our city remains a threat to our community. The watershed has been widened in several areas along its path. However, in our city the watershed width is reduced because of property ownership issues from many years ago. Years ago, Harris County Flood Control District did not continue widening through our city. They simply bypassed the city and widened downstream. Because of this, we build up water in our city extremely fast causing backup in our storm sewer system which in turn causes faster street flooding and the potential for water rising into home. In addition, because we do reduce in width in our city, the water does rise faster and has the potential to rise to Top of bank faster. Once we have reached TOB, we have street flooding and the potential for home flooding. We saw this in the Tax day floods of 2016 and during Hurricane Harvey. It is a matter of time before this happens again, and especially when the National Weather Service continues to say our hurricane seasons

and rain seasons have been considerably worse over the past years and look to continue in that direction.

13. Describe how the project, once implemented, will reduce loss of life? What is the size of the population protected by the project? How is public safety enhanced?

With the installation of the flood siren, early notification to our residents will certainly prevent any loss of life and in fact should allow citizens to move out prior to water entering their home. We have always started early notification to our residence when the Bayou was going to go out of bank. The problem has always been the reverse 911 takes too long to notify everyone in a timely manner. This siren will provide instant notification to residents in those flood areas giving them the time they need to evacuate. The city's population is just under 8,000. Around 4,000 people live within the siren area. The installation of this siren will enhance the safety of citizens by giving them more time to prepare their home, turn off breakers and exit the area before water enters their homes. We prevent the possibility of cuts to legs when walking through high water. We prevent vehicles from getting flooded. We prevent electrocution when water reaches electrical outlets. Certainly, we can prevent fire from occurring by making sure main breakers are turned off before people leave for areas of refuge.

14. Describe how the project, once implemented, will reduce the loss of property? What is the economic benefit of the project in terms of the structures or services protected?

We cannot prevent floods from occurring and water entering into people's home. What we can do is give better notification to our residence and give them an opportunity to move furniture to higher ground, get in the car and save their cars and hopefully save some property. Most of the homes in our last floods have lost furniture and cars on top of losing their home to the flood. We at least can give them a better fighting chance with this early notification system.

15. Provide a Project Schedule for completing the detailed scope of work by task.

Sentry Siren indicates the project will take 8 weeks to complete. Upon authorization from the Texas Water Development Board and funding, this project will be scheduled and completed within 1 year of receiving funding. We are budgeting our share in the 2018-2019 budget years with begins October 1, 2018 and ends September 30, 2019. So the project would start and be completed in that period.

16. Provide a Task Budget, identifying expenses by task (see attached example).

TASK BUDGET TASK	DESCRIPTION	AMOUNT
1 Purchase and Installation of Sentry Siren	Sentry Siren V10	\$30,950
TOTAL	TOTAL	\$30,950

17. Provide an Expense Budget, by category, for the proposed project (see attached example).

EXPENSE BUDGET CATEGORY	AMOUNT
Contractor Vendor Payment	\$30,950
TOTAL	TOTAL \$30,950

18. Qualifications and direct experience of the project team.

Sentry Siren, Inc. has been building and installing storm warning sirens since 1905. Currently, they manufacture 17 different models of storm warning sirens including standard AC sirens, sirens with battery back-up and electronic sirens. They have supplied and installed nearly 2000 sirens regionally and over 300 in the State of Texas.

Verified Cities of Installation in Texas.

Adrian, Allison, Angleton, Anton, Aspermont, Atlanta, Aubrey, Avinger, Azle, Balmorhea, Belton, Bronte, Brownwood, Cameron, Centerville, Channing, Claude, Coolidge, Crandell, Crane County (Crane), Crosbyton, Crowley, Cuero, Decatur, DeLeon, Del Rio, Dodd City, Driscoll, Dumas, Earth, Edgewood, Enchanted Oaks, Eustace, Farwell, Frankston, Frost, Friona, Georgetown, Glen Heights, Goliad County, Golinda, Hamlin, Happy, Hico, Higgins, Holliday, Hughes Springs, Idalou, Jourdanton, Josephine, Junction, Katy, Kaufman, Kenedy County (Sarita), Kingsville, Lamesa, Lampases, Lakeview, La Villa, Leonard, Linden, Lindsay, Llano, Lovelady, Lytle, Malakoff, Mason, Markham, Mart, Mathis, Melissa, Memphis, Mexia, Mineola, Mobeetie, Monahans, Mount Vernon, Muenster, New London, Nixon, Olton, Paducah, Palacios, Paris, Pharr, Pleasanton, Poynor, Pyote, Ralls, Rankin, Ransom, Riesel, Robstown, Saint Jo, San Juan, Pecos, Savoy, Scotland, Seadrift, Seagoville, Silverton, Skellytown, Somerville, Spur, Stinnett, Sunray, Sweeny, Teague, Terrell, The Colony, Tioga, Trent, Tulia, Turkey, Upton County, Valley Mills, Van, Van Horn, Vega, Waelder, Waxahachie, Weslaco, White Oak, Whiteface, Whitesboro, Wilmer, Windthorst, Wink and Union Pacific Railroad (Wilmer & San Antonio)

19. Identify and describe how the project encompasses a watershed/basin.

The Harris County Flood Control District oversees the White Oak Bayou watershed. White Oak Bayou runs through the city of Jersey Village. The below information comes direct from the Harris County Flood Control District Website. White Oak Bayou runs between homes, under bridges, under streets and around accessible roadways. This siren will be located central to the watershed and will allow for notification of surrounding homes.



White Oak Bayou Watershed

What is a watershed?
 A watershed is a geographical region that drains to a common bayou, creek or other waterway.

Watershed Overview

The White Oak Bayou watershed stretches from central to northwest Harris County and includes the City of Jersey Village and portions of the City of Houston. Rainfall within the 111 square miles of the White Oak Bayou watershed drains to the primary waterway, White Oak Bayou (HCFCD Unit E100-00-00). The bayou flows southeast from its headwaters northwest of FM 1960 to its confluence with Buffalo Bayou (HCFCD Unit W100-00-00) downtown Houston. There are 146 miles of open waterways in the watershed, including White Oak Bayou and its major tributaries, such as Little White Oak Bayou (HCFCD Unit E101-00-00), Brickhouse Gully (HCFCD Unit E115-00-00), Cole Creek (HCFCD Unit E117-00-00) and Vogel Creek (HCFCD Unit E121-00-00). Based on the 2010 U.S. Census, the estimated population of the White Oak Bayou watershed is 433,250. Development in the White Oak Bayou watershed has progressed rapidly and is expected to continue.

Active Capital Projects

In the past 20 years, the Harris County Flood Control District has spent more than \$117 million on active and completed capital projects in the White Oak Bayou watershed.

Charting Buffalo: A Study of Buffalo and Lower White Oak Bays –

Charting Buffalo is a regional strategic approach that will identify options for flood damage reduction improvements and demonstrate how these options could be integrated with other community and environmental interests. The study area includes 32 miles of Buffalo Bayou eastward from the Barker Reservoir through downtown Houston to the Houston Ship Channel. Also included in the study area is seven miles of lower White Oak Bayou from North Loop 610 West to the point at which it joins Buffalo Bayou near downtown Houston. The study proposes a partnership approach to implementing larger stormwater detention basins that could be used for both riverine flood reduction and drainage mitigation. While the Charting Buffalo study is funded by the Flood Control District, many organizations that are already investing resources in the area are participating in the study. Preliminary flood damage reduction options have been identified by the study, and the Flood Control District is currently determining how to move forward with additional study efforts. As of mid-2013, the Flood Control District has not allocated funding for the implementation of the preliminary flood damage reduction options. For more information, visit www.chartingbuffalo.org.

Jersey Meadows Stormwater Detention Basin – The final phase of excavation of the Jersey Meadows Stormwater Detention Basin (HCFCD Unit E535-01-00) began in June 2012. The stormwater detention basin is located on a 42-acre site, formerly a part of the Jersey Meadows Golf Course, adjacent to a White Oak Bayou tributary in northwest Harris County. The Flood Control District has previously excavated approximately 146,100 cubic yards of soil from the basin, and this phase will remove an additional 432,000 cubic yards. The City of Jersey Village funded construction of a 1.6-mile trail around the basin through an interlocal agreement with the Flood Control District. This phase is estimated to cost \$3.6 million and expected to be complete in 2014.

White Oak Bayou Federal Flood Damage Reduction Project – The White Oak Bayou Federal Flood Damage Reduction Project is a multi-year, \$166 million project that will substantially reduce flooding risks along White Oak Bayou. Started in 1998, the project is a cooperative effort



Drainage Area	Watershed Population	Open Channels
111 square miles	433,250	146 miles

between the Flood Control District and the U.S. Army Corps of Engineers (Corps). This partnership, made possible by Section 211(f) of the Water Resources Development Act of 1996, allows the Flood Control District to work hand-in-hand with the federal government to leverage local tax dollars. The federal financial share of the project is about \$100 million. The project includes the excavation of six stormwater detention basins that will hold approximately 1.1 billion gallons of stormwater, construction of approximately 15.4 miles of channel conveyance improvements along White Oak Bayou from Cole Creek to F.M. 1960, and construction of the Jersey Village Channel (HCFCD Unit E200-00-00), which carries 30 percent of White Oak Bayou flows around the City of Jersey Village during heavy rains. Many of these projects have been completed. The remaining projects include the construction of channel conveyance improvements along White Oak Bayou from Cole Creek to the tributary formally identified as HCFCD Unit E122-00-00 and from the Jersey Village Channel to F.M. 1960, and the expansion of two stormwater detention basins. Upon project completion, the Flood Control District estimates that within the project area, most areas along White Oak Bayou will see water surface elevation reductions of 0.5 to 1.5 feet for the 1 percent (100-year) flooding event.

III. WRITTEN ASSURANCES 21. Assurance that the proposed project does not duplicate existing projects, with the exception of replacing outdated equipment.



CITY OF JERSEY VILLAGE, TEXAS

16501 Jersey Drive, Jersey Village, TX 77040
713-466-2100 (office) 713-466-2177 (fax)

June 27, 2018

Mr. David Carter,
Texas Water Development Board,
P.O. Box 13231-Capitol Station,
Austin, Texas 78711-3231

Dear Mr. Carter,

Please accept this letter in fulfillment of the Written Assurances section for the Flood Protection Grant.

The City of Jersey Village has the authority to plan and implement this project within our city.

This project does not duplicate any existing project. There are currently no sirens within Jersey Village to alert residents of flooding at an early stage of the event.

Please contact me at 713-466-2109 or via email at ableess@ci.jersey-village.tx.us if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "Austin Bleess".

Austin Bleess
City Manager
City of Jersey Village

20. Assurance that the applicant has the authority to plan and implement projects in the project area.

IV. RESOLUTION

- i. Indicating the entity's representative is authorized to apply for a grant from the Texas Water Development Board;
- ii. Granting authority for the entity to enter into a contract with the Texas Water Development Board; and
- iii. Stating the intent to commit local matching funds in cash and/or in-kind services.

22. A resolution from the governing body of each applicant and/or participant:

RESOLUTION NO. 2018-34

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF JERSEY VILLAGE, TEXAS, AUTHORIZING THE CITY TO APPLY FOR A GRANT FROM THE TEXAS WATER DEVELOPMENT BOARD.

WHEREAS, the Jersey Village City Council finds it in the best interest of the citizens of the City of Jersey Village that the City Manager submit and accept granting from the Texas Water Development Board.

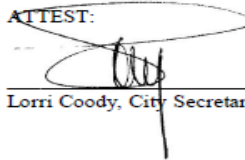
BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF JERSEY VILLAGE, TEXAS, THAT:

- Section 1.** The City Council authorizes the City Manager to submit application for funding from the Texas Water Development Board.
- Section 2.** The City Council assures the awarded funds will be returned in full in the event of loss or misuse of the funds.
- Section 3.** The City Council authorizes the City Manager, the authorized official, to enter into a contract with The Texas Water Development Board, to execute all documents concerning the requested funds, which includes the power to apply for, accept, reject, alter, or terminate the grant.
- Section 4.** The City Council assures the City of Jersey Village will match 50% of the funds required for this expenditure and will comply with other rules set by the Texas Water Development Board.

PASSED AND APPROVED this 18th day of June 2018.



 Justin Ray, Mayor

ATTEST:


 Lorri Coody, City Secretary



Jersey Village Project

Project Background and Description Statement (Brief)

The city will install an early warning flood siren to allow for early notification to citizens of the potential of flooding. This siren purchase and installation is turnkey. The project timeline begins first quarter of 2019 and completion date is expected to be the first half of second quarter. Once Siren is ordered, installation and completion is scheduled for 8 weeks completion timeframe.

Project Goals

Goal	Description	Start Date	Completion Date
Contract and funds	To complete contract between TWDB and receive partial funding from TWDB	January 2019	February 2019
Vendor Setup	Setup Sentry Sirens and Electrical Contractor with Finance	January 2019	February 2019
Order Sentry Siren Install Sentry Siren	Order the siren (8 week turnkey order and install)	February 2019	April 2019
Acceptance Test	Test and accept equipment	April 2019	May 2019
Final Payment and paperwork	Provide final payments to contractors and send final paperwork to all parties.	May 2019	May 2019

Proposal from Storm Sirens

Storm Sirens, Inc.

3801 Harrogate Drive Norman, Ok 73072 1-800-527-6375 stormsirens@aol.com

May 29, 2018

Mark Bitz, Fire Chief
City of Jersey Village
16327 Lakeview Drive
Jersey Village, Texas 77040

Regarding: Storm Warning System

Dear Chief Bitz:

Sentry Siren, Inc., has been building storm warning sirens since 1905. Currently, they manufacture 17 different models of storm warning sirens including standard AC sirens, sirens with battery back-up and electronic sirens. As the regional representative for Sentry, my company has nearly 30 years of experience designing and installing Sentry storm warning systems. We have supplied and installed nearly 2000 sirens regionally and over 300 in the State of Texas.

Based on our recent telephone conversation and the map that you e-mailed me, I have prepared two preliminary proposals for your consideration. As shown on the enclosed map, I believe that one siren located at or near Carol Fox Park would provide the coverage that you need.

The Sentry Model 14V-B is a large omni-directional siren equipped with battery back-up. It normally runs from 230 VAC, single phase, 125 amp electrical service. However, in the event of a power failure, the siren will automatically switch to its bank of rechargeable batteries. Perhaps the key feature of the Sentry model 14V-B is the length of time the siren will run on batteries in a power failure. As is common in Texas, storms frequently come in lines over a 3 or 4 hour period. If the first storm knocks out the power, you may need a siren system that can be sounded 6 or 7 times before power is restored. The sentry model 14V-B will run on batteries for a minimum of 30 minutes, cumulative time (10 standard 3 minute signals). **This is twice as long on batteries as most competitive sirens will run.**

Proposal from Storm Sirens Cont.

Qty. 1 Sentry Model VR-10 Electronic Warning Siren
Omni-Directional
dB Rating at 100 Feet: 148
Range: 5200 Ft Radius/10400 Ft Diameter
110 VAC/UBS Back-Up
4 Audible Alarm or Prerecorded Voice Messages
Magnetic Starter in a NEMA 3R Enclosure

Qty. 1 CD&F Model SD2100X Radio Link
Lockable, Weatherproof Enclosure
Antenna

Total Price \$30,950.00, Complete & Installed (Turn-Key)

Both proposals include installation of the Sentry Model 14V-B and the VR-10 on 45" class II wooden telephone poles. The only items that the City of Jersey Village would be responsible for providing would be the siren site and appropriate electrical service to the siren pole.

Each proposal also includes a CD&F Radio Decoder. The radio decoder would allow the proposed sirens to be activated remotely by radio. The CD&F Radio Decoder is capable of different audible or voice signals for flood, storm warning, etc.

From date of order, either of the proposed siren systems can be operational in 8 weeks or less.

The Sentry Model 14V-B Storm Warning Siren is covered by a 7 year parts and labor warranty. The Sentry Model VR-10 is coverage by a 2 year parts and labor warranty. The CD&F Radio Decoder is covered by a 2 year warranty. The 34U Redtop batteries used in the Sentry Model 14V-B are covered by a 2 year replacement, 3 year pro-rated warranty.

My company has supplied and installed hundreds of Sentry storm warning systems throughout the Midwest. Some of the communities in Texas using our equipment

Proposal from Storm Sirens Cont.

are: Adrian, Allison, Angleton, Anton, Aspermont, Atlanta, Aubrey, Avinger, Azle, Balmorhea, Belton, Bronte, Brownwood, Cameron, Centerville, Channing, Claude, Coolidge, Crandell, Crane County (Crane), Crosbyton, Crowley, Cuero, Decatur, DeLeon, Del Rio, Dodd City, Driscoll, Dumas, Earth, Edgewood, Enchanted Oaks, Eustace, Farwell, Frankston, Frost, Friona, Georgetown, Glen Heights, Goliad County, Golinda, Hamlin, Happy, Hico, Higgins, Holliday, Hughes Springs, Idalou, Jourdanton, Josephine, Junction, Katy, Kaufman, Kenedy County (Sarita), Kingsville, Lamesa, Lampases, Lakeview, La Villa, Leonard, Linden, Lindsay, Llano, Lovelady, Lytle, Malakoff, Mason, Markham, Mart, Mathis, Melissa, Memphis, Mexia, Mineola, Mobeetie, Monahans, Mount Vernon, Muenster, New London, Nixon, Olton, Paducah, Palacios, Paris, Pharr, Pleasanton, Poynor, Pyote, Ralls, Rankin, Ransom, Riesel, Robstown, Saint Jo, San Juan, Pecos, Savoy, Scotland, Seadrift, Seagoville, Silverton, Skellytown, Somerville, Spur, Stinnett, Sunray, Sweeny, Teague, Terrell, The Colony, Tioga, Trent, Tulia, Turkey, Upton County, Valley Mills, Van, Van Horn, Vega, Waelder, Waxahachie, Weslaco, White Oak, Whiteface, Whitesboro, Wilmer, Windthorst, Wink and Union Pacific Railroad (Wilmer & San Antonio).

If you have any questions, please contact us at our toll free number 1 (800) 527-6375 or by e-mail stormsirens@aol.com.

Sincerely,

Frederick R. Engelbrecht

Frederick R. Engelbrecht
President

FRE:st

Installation of Storm Siren





Function Testing

- Will be done 4 times a year. Once per quarter.
- Will be done in the noon-2pm time frame.
- Only will last 15 minutes.
- Only one tone series will be at full volume each test date
- Each quarter we will highlight one of the following at full volume
 - *Tornado, Shelter, Evacuation, Flooding*
- Will be tested from site and from dispatch console
- People in the park will be notified just before the start of the test to allow them to leave or make accommodations for ear protection.
- At least 3 days' notice to be given to residence through email, Facebook, Twitter and social media e-blast.

Texas Water Development Board SPEC SHEET

Specification Sheet			
Contract No:	1800012313	Contractor:	City of Jersey Village
Contract Start Date:	11/12/18	Contract End Date:	09/30/19
Contract Manager:	Sara Husted	Contract Manager Division:	WSC
Contract Type:	Flood Protection	Subcontractor:	Yes
Required Documentation	Signed Payment Request Checklist	Proof of Payment Required:	Yes
Payment Submission:	Quarterly	Progress Report Submission:	Quarterly
Draft and Final Report or Data Only:			
Receivable/Payable Relationship:	0	Subject to 30 Day Prompt Pay (Object Code 7238-7299)	No
Total Contract Amount:	30,950.00	Budget Flexibility (Percentage):	35.00%
Retainage:	10%	Budget Flexibility (Amount):	
TWDB Share	15,475.00	TWDB Share Percentage	50.00%
Local Cash/In-Kind Portion	15,475.00	Local Cash Percentage	50.00%
	Special Instructions:	Cash and/or In-Kind, 10% each invoice	

TWDB Payment Request Checklist

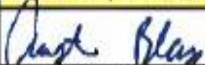
City of Jersey Village	Payment Request No. 1
Contract No: 1800012313	Billing Period of This Payment Request
Contract Type: Flood Protection	From: 11/12/18 To: 09/30/19
Contract Amount: \$ 30,950.00	Requested Amount: \$ 15,475.00
Is this the final Request? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Contract Start Date	Contract End Date	Total Contract Amount	Local Cash	Local In-Kind	TWDB Share	Retainage
11/12/18	09/30/19	\$ 30,950.00			\$ 15,475.00	\$ 3,095.00
Payment Request No.		Total Expenses for this Reimbursement	Local Cash for this Reimbursement	Local In-Kind for this Reimbursement	TWDB Share for this Reimbursement	Retainage for this Reimbursement
1		\$ 30,950.00	\$ 15,475.00	\$ 15,475.00	\$ 15,475.00	\$ 1,547.50

Contractor:	City of Jersey Village
Contractor Address:	16501 Jersey Drive
City, State, ZIP:	City of Jersey Village, TX 77040

Contact:	Mark Blitz
Contact Title:	Fire Chief
Contact Phone:	713-466-2130
Contact Fax:	713-466-2151
Contact Email:	mblitz@jerseyvillage.com

Payment Contact:	Austin Bleess
Payment Contact Title:	City Manager
Payment Contact Phone:	713-466-2109
Payment Contact Fax:	713-466-2177
Payment Contact Email:	bleess@jerseyvillage.com

Certification: I certify that to the best of my knowledge and belief that the billed costs herein are in accordance with the above mentioned contract(s) and all work performed is in accordance with said contract(s).	
 Signature and Title of Authorized Representative	8/30/19 Date Signed
Austin Bleess City Manager Print or Type Name and Title of Representative Signing	713-466-2109 Telephone Number
TWDB-CP0001	

TWDB Invoice Ledger

Invoice Ledger								
City of Jersey Village								
Contract # 1800012313								
Payment Request No	Date	Vendor	Invoice No	Invoice Amount	Requested Amount	Approved Amount	Budget Sub-Category	Description
1	06/20/19	Storm Sirens	101430	\$30,950	\$154.75	\$154.75		SUBCONTRACTOR

STORM SIRENS, INC.

3801 HARROGATE DRIVE
NORMAN, OKLAHOMA 73072
1-800-527-6375

Invoice #: 101430
June 20, 2019

Bill To:	Ship to:
City of Jersey Village 16327 Lakeview Drive Jersey Village, Texas 77040	

Date Shipped	Date Completed	PO Number	Installer
	June 19, 2019	NA	Daniel Chaney

Qty.	Description	Amount
1	Sentry Model VR-10 Electronic Warning Siren Omni-Directional dB Rating at 100 Feet: 148 110 VAC/UBS Back-Up 4 Audible Alarm or Prerecorded Voice Messages	
1	CD&F Model SD2100X Radio Link Lockable, Weatherproof Enclosure Antenna Complete & Installed	
Subtotal		\$30,950.00
Invoice Total		\$30,950.00

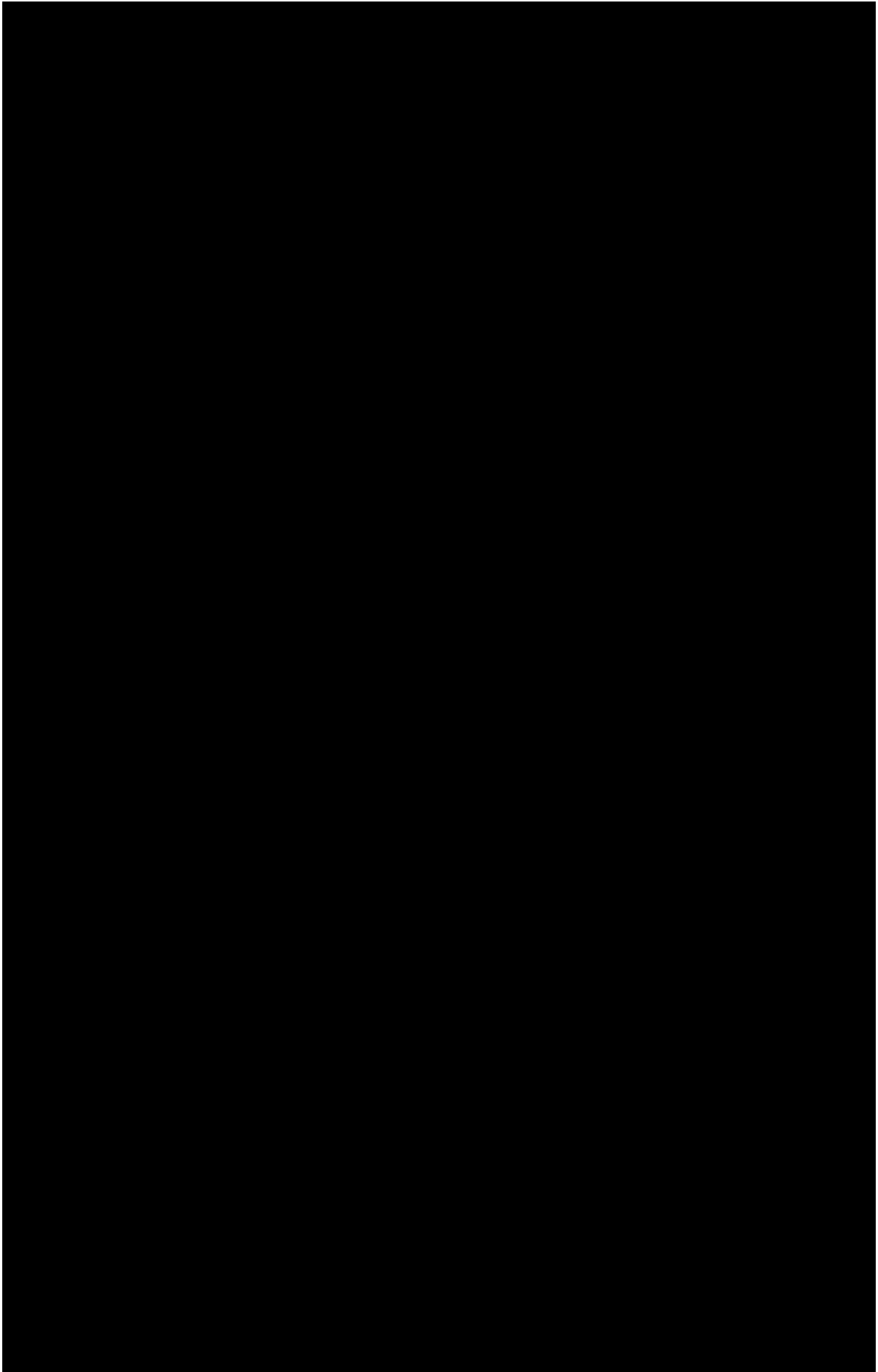
Please remit your payment to:

Storm Sirens, Inc.
3801 Harrogate Drive
Norman, Oklahoma 73072

Thank you for your Business!

Your storm warning system should be tested weekly during storm season and monthly outside of storm season. If your storm warning system is not functioning properly, please contact us by phone 1-800-527-6375 or by e-mail stormsirens@aol.com to be scheduled for service.

[Subcontractor proof of payment sheet](#)



ATTACHMENT 1

City of Jersey Village Flood Early Warning System

Jersey Village

Contract #1800012312

Texas Water Development Board Comments to Draft Report

REQUIRED CHANGES

General Draft Report Comments:

In general, the study follows standard methodologies and practice. Mitigation alternatives identified may be eligible for funding under the Texas Water Development Board's financial assistance programs. Application requirements and eligibility criteria are identified by Texas Water Development Board rules specified in Section 363 of the Texas Administrative Code (TAC). The report would be appropriate for use in support of an application to the Board for financing the proposed improvements. All additional information required by Board rules, 31 TAC 363.401-404, as well as necessary information to make legal findings as required by Texas Water Code chapter 17.771-776, would be required at the time of loan application.

Please conduct a final edit of the document for grammar, spelling, typographical errors, and inconsistent usage of acronyms, and abbreviations. Please spell out all acronyms, with the acronym in parentheses, the first time they are used. Please include a list of acronyms used in the report after the Table of Contents.

Specific Draft Report Comments:

1. Please remove all TWDB logos from report.
2. **Entire Report** – Because you have received STATE funding for this Flood Early Warning System project, there really isn't need for discussion about your Hazard Mitigation Plan, unless the hazards that were identified in the HMP were mitigated with this FEWS project.
3. **Page 5** – Please clarify the meaning of the sentence "*Homes with repetitive flooding are being reviewed now to potentially buy out and then rebuild to our current floodplain management plan to elevate new homes when built.*"
4. **Page 5** – Please clarify what was determined in the sentence "*This was determined to be an elevated storm siren that could sound a horn and tell the public of the threat*".

Exhibits and Tables Comments:

None.

[Why this Project](#)

This city has experienced four major floods over three decades. The latest flood was the tax day floods. The way

we notify our residents has been two ways. We would drive fire trucks and police cars around and blast the sirens and/or we would use reverse 911 and call people. The tax day flood came on us so fast, we did not have a chance to drive around and blast sirens. The reverse 911 takes literally 3.5 hours to call everyone in our city. Most people do not even have a home phone anymore, so reverse 911 for them is only available to them if they had their cell phone registered.

The city manager in our city informed me of this opportunity the TWDB had with flood grants. This project seemed to fit the grant, so it was decided to apply for the grant and if approved we would install a siren in close proximity to the flood areas of the city. This would then become our primary way of notifying our residents most likely impacted by flood waters. So, working with TWDB and a vendor called Storm Sirens, we purchased and installed a siren. This siren will send four different tones, and at the end of each tone will tell people what is happening. For instance, a tone would go for roughly 30 seconds and at the end of the tone, the speaker will say "Flooding is about to occur, prepare your home". This sound can be heard within the home of residents within

a ¼ mile of this siren, which is exactly where we have placed this siren. So, if they are sleeping, they should be awakened. For certain, the tone can be heard up to a mile away. The siren also will notify for Tornados, Evacuation and to shelter in place. All with different tones and all speaking a message at the end of the tone.

Summary

The City of Jersey Village has been proud to work with the Texas Water Development Board on the 50% Grant funded purchase and installation of a flood warning storm siren. The Flood Warning Siren has been installed and is functioning as designed. It is our desire that we never have to use this for a real flood situation, however; we are thankful to the Texas Water Development Board for approving this grant so we may purchase this equipment to help notify our residents of impending floods. This report is our final report of the purchase and installation of the Storm Siren.

The City of Jersey Village believes we have met all contract requirements and would like to have the reimbursement process begin. Attached in this report is a

comprehensive summary of what has transpired from the beginning of the application process to the final TWDB required paperwork.

Specific Draft Fix Comments

All TWDB Logos were removed

All Hazard Mitigation was removed from final report which included #3 and #4 above as they were also part of the Hazard Mitigation in # 2 you requested to be removed.