

Idea ID	Branch	Project Name	Project Description	Impact to Community	Project Est. Cost	Comments
ER001	Economic Recovery Branch	Downtown Science & Technology Center	Creation of a WORLD-CLASS science center focused on interactive, STEM-based, locally-oriented and educational exhibits.	Creation of a truly world-class facility would have far-reaching impacts in our community through job development, significant tourism East of the Hathaway bridge, educational opportunities for local students, and a place for community events. The project would be a catalyst for other business growth in the downtown corridor and would be an enhancement to the recruitment of businesses and individuals looking to select Panama City as a place to live, work, and play.	\$48,000,000.00	<p>Discussions have been held with stakeholders with the city and SDC and parties are interested in collaboration on the project. We have identified a few potential facilities that would be high-visibility locations for the project. Plan to have a meeting with SDC and city stakeholders during the week of 2/4/19.</p> <p>Economic impact of the project from center operations and visitors is far-reaching to include: suppliers of goods &amp; services to center; secondary and downstream suppliers of goods and services; accommodations, food, and travel; employee wages; increased economic activity due to spending of wages.</p> <p>Other economic impact it would have to the community would include: contributing to neighborhood (re)development; attracting tourists; providing an educational resource; promoting research and innovation; offering opportunities to various sectors of the community; providing a meeting place; and being a source of pride for the local community.</p>
ER002	Economic Recovery Branch	City Wi-Fi	Development of a city-based WIFI that covers a TBD range	By providing citizens with Internet access, we can accomplish a few different goals focused around the ability to disseminate information. Much of the student population does not have internet access and this could have a significant impact in the ability of the city/county to reach citizens with information and resources not currently available.	\$2,000,000.00	<p>Underway prior to Michael: Alignment Bay County had discussed this as well as other options for getting students internet access. There was initiatives underway to create a website for free WIFI locations throughout the city. This was to be tied in to the Chromebooks that were given to students..</p> <p>Having a city-based WIFI could be an attractive amenity for someone looking to locate to Bay County/Panama City. It could be focused on areas of need or done through a whole-area approach. This could also be utilized as "internet hubs" in order to have emergency internet locations in case of an outage, like those experienced during hurricane Michael. Having locations with fiber connections, generators, and long-range access points would give a number of locations that would be ready in case of emergency.</p>
	Economic Recovery Branch	Family Friendly Music/Food Venue	Creation of a family-friendly venue for music and food for residents to enjoy. Potentially downtown near the marina.	Frequented in other locations like 30A, these style of venues offer family-friendly atmospheres where people are able to shop, eat, and hold events creating an economic impact in the community as a source of pride for the area.	\$10,000,000.00	30A has a few of these configurations and are very successful in having strong turnout from residents and visitors to the area. An example is below. <a href="https://hub30a.com/">HTTPS://hub30a.com/</a>
	Economic Recovery Branch	Free Internet for Residents	Have internet providers give free starter internet for residents with the ability to upgrade service for higher speeds.	By providing citizens with Internet access, we can accomplish a few different goals focused around the ability to disseminate information. Much of the student population does not have internet access and this could have a significant impact in the ability of the city/county to reach citizens with information and resources not currently available.		By providing a base-level of connectivity (5/5 suggested), it would be easier for residents to access pertinent information from the schools, city/county, search for jobs, health care, etc. Some level of service (phone, TV) would need to happen for the ISP to provide the free internet portion of service. It could be for income levels below a certain threshold as an alternative. Would be greatly beneficial for our low income student population as well as seniors.

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	Economic Recovery Branch	Satellite Campus for College(s) Downtown	Incorporation of a college campus and potentially dorms in the downtown Panama City area.	Both of the local college campuses are limited in space and expanding to a satellite campus would allow for additional growth while infusing student life downtown, creating an economic impact in the community instead of an isolated campus. Savannah accomplishes this with SCAD and the culture is greatly enhanced with the presence of youthful energy and the artistry of their students.	\$5,000,000.00	Strategic Plan: Port of Panama City Strategic Investment Plan for Regional Economic Recovery. Underway prior to Michael: Alignment Bay County had discussed this as well as other options for getting students internet access. There was initiatives underway to create a website for free WIFI locations throughout the city. This was to be tied in to the Chromebooks that were given to students. Downtown has the space and availability to accomplish this goal. The location would also facilitate having a "walkable" campus area that includes restaurants, shops, entertainment. This would be potentially very attractive to a student. If the downtown corridor continues to push towards a technology cluster then the campus could be in a related area.
	Economic Recovery Branch	Reinforced Deeper Bulkheads	Increase size of bulkheads at port to mitigate future damage and prepare for port expansion	Increased Port Capacity, Increased amount of high paying jobs, increased interest in investment	\$35,000,000.00	Strategic Plan: Port of Panama City Strategic Investment Plan for Regional Economic Recovery. The Port of Panama City's cargo operations and industrial tenants rely heavily on 2,700 linear feet of bulkheads that are vulnerable to failure from hurricane surge and rapid tidal drawdown. The deepening of the Port in 2003 exposed the existing bulkheads to the danger of failure from hurricane related surge and drawdown. As the bulkheads have gotten older (60+ years old) the risk has increased. The new bulkheads will be designed to withstand extreme surge and will be deep enough to allow the Port to increase its channel to 40-feet in the future.
ER003	Economic Recovery Branch	Container/ Break Bulk East/West Terminal Expansion	The proposed improvements will nearly triple the Port's container handling and storage capacity adding 903 FEUs of storage including additional support plugs for refrigerated containers.	Increased capacity, job creation	\$15,000,000.00	Strategic Plan: Port of Panama City Strategic Investment Plan for Regional Economic Recovery. Additional break bulk cargo capacity at the East Terminal provides the Port with the opportunity to expand its container terminal capacity at the West Terminal. This provides needed capacity to expand the ports growing Mexico and Central American container markets. The container terminal capacity improvements at the West Terminal include the following improvements: 🚚 Third Container Handling Crane 🚚 60% Increase in Container Storage 🚚 Additional Racks for Refrigerated Containers 🚚 Additional Chassis Parking 🚚 Rail Serviced Container Freight Station (CFS) 🚚 Container Interchange Gate Expansion and Automation

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ER004	Economic Recovery Branch	West Terminal - Bulk Terminal Expansion<>Biomass Dome Storage Facility, Conveyance System and Access Roads	To mitigate storm impacts in the future and to support growth of biomass exports, the Port would like to construct a storage dome adjacent to the existing bulk warehouse. The storage domes are less vulnerable to high winds, providing the port the resiliency of needed to mitigate future storm or disaster damage.	Increased Jobs, The wood pellet storage expansion will also provide Enviva with the security they need to proceed with an expansion of the Jackson County plant, providing significant economic benefits in the region.	\$10,000,000.00	The new Biomass Dome has a capacity of 20,000 tons and will increase the bulk cargo exporting capabilities by 300,000 tons per year, generating an estimated \$50 million in new export activity per year for the region. The dome will be 150 feet in diameter and stand 105 feet high sitting on a pile supported foundation. Product receiving will be accomplished by high angle conveyor systems connected to adjacent rail dump station. The dome will include an aeration system to prevent self-heating. The building will have dust collection and control, heat monitors, and fire suppression systems. The domes foundation includes automated doors leading to a reclaim conveyor system that will connect to the existing ship loading equipment. The existing Port’s wood pellet shipper, Enviva Partners, LP., is eager for the expansion project which will allow them to expand their Jackson County mill production from 800,000 tons annually to 1.1 million tons annually.
ER005	Economic Recovery Branch	Water-Front Parks	Create riverfront parks with boat docks, restaurants open green spaces	Allow the community to enjoy waterfront property, invite business investment, increase values of surrounding areas	\$40,000,000.00	Create Waterfront parks and unique areas similar to Tampa, Charleston, Savannah, Boca Grande
ER006	Economic Recovery Branch	Business and Employment incubator	The incubator would combine an effort to develop school to work initiatives in the retail/tourism,tech,light industrial,construcion and other high employment demand businesses with efforts to develop a business incubator for new businesses. The school to work initiative would involve partnering business sectors with employment demand with the Bay county schools and Gulf Coast Training to develop students would be provided and half of students wages would be coved from the organization	long term development of trained workforce and support for start ups and current businesses by providing subsidized trained labor		Existing Funding Source: Commerce ,Dept of Labor, State Developing trained workforce to supply growing employment sectors is key to fuel perpetual economic development By training students in high demand areas and subsidizing local employment growth we can develop an economic engine to fuel growth of more business
ER007	Economic Recovery Branch	Hurricane Michael disaster fund for Charter Captains	NACO, a 501(c) (6) non profit, has partnered with the International Game Fish Association, a 501(c) (3) non profit to raise monetary finds to distribute to those for hire charter and headboat owners who need financial help the most. This effort applies to all for hire charter/headboat owners and crews who live and operate in the affected area from Panama City Beach, FL to Steinhatchee, FL. 461 owners have been identified and we are in the process of notifying them of financial help available.	Assist Business Recovery, Sustain industry	\$100,000.00	Existing Funding Source: Currently we have raised \$28,000.00 from various sources which includes some charter boat associations, IGFA, American Sport fishing Assn, Yamaha, and others. The community will greatly benefit because the for hire charter/headboat owners will have additional funds in order to operate, rebuild or replace their vessels, afford to pay their crews, buy tackle, fuel, supplies, and a host of other items helping to support their local supporting businesses and communities. For hire charter/headboat operations provide the historical and cultural businesses that provide recreational opportunities to the public. These small family businesses help support their local fishing communities and bring tourists to the area. Financial assistance will help these small family businesses survive, rebuild, and to continue their services to the public.

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ER008	Economic Recovery Branch	5G demo	Verizon has promised to partner with us and bring 5G to Panama City. We are the ONLY city in the south to be in tat position. Ask/support/pay for Verizon to set up a demonstration of the capability on the PC marina. Once the Navy/USAF/ scientists/student/universities can SEE what 5G offers, the opportunities will appear.	5G is our discriminator. It will be what WE HAVE that no one else has! 5G is the facilitator of everything we read about that's coming in the next 10 years! Virtual Reality (think Training at Tyndall) autonomous cars (think testing of First Gen) robotic surgery (BayMed resurgence!) augmented reality(think Navy Dive School) plus opportunities like robotics development, cloud storage, gamers... This is a Game Changing opportunity!		Underway prior to Michael: Mayor Brudnicki announced it on 24 Oct. Verizon advertises 25 million committed to fiber optics and infrastructure. Only 5 cities in America selected by Verizon. Panama City, Sacramento, Los Angles, Houston, and Indianapolis...look at the map. This is our one chance to boldly step into the 21st century ahead of all others. Make Our Town a showcase. Entrepreneurship drive economies. Make this where millennials want to set shop. On CNBC, Verizon CEO calls 5G the next phase of the digital revolution! Ask Steve Millaway, FSU incubator, this has a potential of putting us on the Tech map and jump starting our rebirth.
ER009	Economic Recovery Branch	Disaster Subsidized Childcare for Families and Facility Operators	A critical shortage of labor, both skilled and unskilled, currently exists across much of Bay County. Employers across all industries are experiencing difficulty in staffing operations in the aftermath of Hurricane Michael. Childcare and after school care facilities are in short supply as many have closed or scaled back operations as an outcome of Hurricane Michael. It is commonly accepted that access to responsible and affordable childcare is vital to economic development.	<p>This proposed economic development project is designed to help small business, large scale, and public sector employers staff up their operations by enabling workers to adhere to their work schedules, reducing absenteeism, and improve workplace productivity. It is well documented that workers are more productive when they have peace of mind knowing their children are safely being cared for.</p> <p>Federal and state disaster funds may be available to help offset costs for 1) families with children, and 2) facility operators. Families with children, upon demonstrating employment, employment search, or student status, along with household income would receive a monthly voucher allotment, in addition to any pre-disaster subsidy, to offset costs of childcare.</p> <p>Facility operators would receive a monthly subsidy based on average population count and enrollment capacity. Subsidies to apply toward for rent, electric, and operating expenses.</p> <p>Lessons learned in economic recover from Superstorm Sandy (Hurricane Sandy 2012) provide precedence for moving forward with planning and execution.</p>		Many workers with young children confront multiple challenges and struggle with returning to the labor market either part time or full time due to inability to secure affordable childcare convenient to their home or workplace.
ER010	Economic Recovery Branch	Enhance CRA Funds & Coverage	Find a way to enhance the CRA budget to accommodate additional repairs needed for hurricane-damaged properties. Include ability for owners to get a special approval from CRA board for roof repairs for the next two years.	To enhance the ability to quickly repair and renovate damaged properties. By allowing investors to utilize CRA funds (potentially including roofs) the corridors covered under CRA would be highly desirable properties for improvement.		Strategic Plan: To enhance the ability to quickly repair and renovate damaged properties. By allowing investors to utilize CRA funds (potentially including roofs) the corridors covered under CRA would be highly desirable properties for improvement. Existing Funding Source: Current CRA budgets To avoid prolonged blight, offering an enhanced CRA program would strongly encourage investors to purchase and renovate properties. If properties within the CRA district are not offered the ability to receive adequate funding from the CRA, they may continue to be blighted properties. By offering the ability for the CRA board to allow for support of roof repairs for a temporary period of time, it would help cover a significant impediment to purchase and renovation of the affected CRA district's properties.

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ER011	Economic Recovery Branch	Advanced Manufacturing Innovation Institute	<p>When GKN Aerospace was looking for a place to expand, they told Bay County that they needed two things 1) an advanced manufacturing workforce pipeline and 2) a collaborative partnership in which to perform their future research &amp; development efforts. Upon working this request for over 2 years, signing up additional partners looking to move to or expand in the region, and visiting multiple similar facilities worldwide identified as exemplary, Gulf Coast State College (GCSC) is partnering with education, government, and industry to create the Advanced Manufacturing Innovation Institute or AMI2. The AMI2 will leverage Bay County's and the region's network of educational institutions, world-class research facilities, industry, and military bases to build a sustainable hub of advanced manufacturing training, development, and production.</p> <p>The GCSC Advanced Manufacturing Innovation Institute (AMI2) will be a public-private partnership of industry, local/state/federal agencies, and academia that work together and invest in the development of world leading facilities, technologies, capabilities, education, training, and workforce development/recruitment. Our stakeholders will jointly design, acquire and equip world-class research, development, and production facilities—a global center of excellence for advanced manufacturing excellence! In addition, our stakeholders are working to identify and recruit the best industry talent essential to drive our innovation and success.</p> <p>AMI2 is designed to integrate and expand the work of current and developing regional Advanced Manufacturing (AM) partners - partners who make extensive use of computerized and highly automated, high precision technologies and techniques, combined with a high performance</p>	<p>Our workforce education partners, as previously identified for AMI2, are Bay District Schools (career academies, certifications, dual enrollment, student internships), Gulf Coast State College (pre-employment training, A.S. Engineering Technology, college credit certificates, industry certifications, research support, student internships), Florida State University Panama City (materials research, B.S. Mechanical Engineering, M.S. Systems Engineering, student internships), CareerSource Gulf Coast (pre-employment selection, training scholarships, and internship placement with industries), and advanced manufacturing industries in Bay County (all participating industries will provide multiple internship opportunities for students annually). Our industry partners will guide AMI2 in curriculum development, equipment selection, and evaluation of students to ensure that the students in our internship, certificate, and degree programs have the required skills. Gulf Coast State College guarantees that graduates of an Associate of Science degree, college credit certificate, or non-credit training course included in the Advance Manufacturing Innovation Institute (AMI2) will have the general and technical skills outlined in their program of study, including program objectives. If there are skill deficiencies identified by the student's first employer in the related field, the college will provide additional instruction to address the skill deficiencies at no cost to the student or employer.</p>	\$42,000,000.00	<p>Strategic Plan:</p> <p>The project has been included on the list of Triumph requested projects by Bay County, FL and Advanced Manufacturing is listed as a strategic priority in the Northwest Florida Forward document developed by Florida's Great Northwest.</p> <p>Underway prior to Michael:</p> <p>GCSC had received a grant from the Florida Job Growth Grant Fund before the storm.</p> <p>Existing Funding Source:</p> <p>GCSC has received commitments of matching funds in the amount of \$24,389,485</p>
ER012	Economic Recovery Branch	Port Industrial Park	Completing the necessary ground work to make the 80 acre industrial site shovel ready for a development partner	Once this is done, a commercial development partner can build distribution, storage or logistics centers, increasing trade volumes in the area.	\$3,000,000.00	
ER013	Economic Recovery Branch	Improve bridges and roads to make drive from Tyndall to the beach easier/visually appealing				
ER014	Economic Recovery Branch	Conference center on PCB				
ER015	Economic Recovery Branch	Entice big retail to come to Panama City; IKEA, etc.				
ER016	Economic Recovery Branch	Development similar to City Walk at the downtown marina				
ER017	Economic Recovery Branch	A research park at the airport could be an economic engine				

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ER018	Economic Recovery Branch	Cruise ships at port				
ER019	Economic Recovery Branch	IT/ Entrepreneur Center				
ER020	Economic Recovery Branch	Boardwalk across the sandy beaches				
ER021	Economic Recovery Branch	Grow the ecotourism aspect of our community				
ER022	Economic Recovery Branch	Kayak launch at West Bay, conservation area, eco-learning center				
ER023	Economic Recovery Branch	There is no grand entrance to our community along 231 / 23rd / 79. Spruce it up!				
ER024	Economic Recovery Branch	Concert venues / reinforcing the arts / similar to The Wharf in Orange Beach				
ER025	Economic Recovery Branch	Artist village with painted walls				
ER026	Economic Recovery Branch	Food truck area / park				
ER027	Economic Recovery Branch	Oklahoma Bricktown community with retail and business				
ER028	Economic Recovery Branch	Designated photo landmarks/venues to promote tourism and our area				
ER029	Economic Recovery Branch	Develop HWY 98 infrastructure/parcels in Callaway				
ER030	Economic Recovery Branch	Build an aquarium at the Downtown Marina				
ER031	Economic Recovery Branch	City Marina Convention Ctr				

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ER032	Economic Recovery Branch	City of Panama City Visitor Ctr	A long term (99 Year lease) with Florida Department of Transportation would eliminate the land acquisition expense. Destination Panama City would contribute \$100,000 to the construction of the facility. 3) Location of the Project or Program: The proposed location is Parcel ID 27929-000-000 in Bay County Florida. This request would seek a 99 year lease from FDOT with permission to construct a Visitor's Center on their parcel at the western gateway to the City of Panama City.		\$15,000,000.00	Triumph/CDBG
ER033	Economic Recovery Branch	Defense Hub				
ER034	Economic Recovery Branch	Lynn Haven Commerce Park	Develop next generation commerce park	Provide commercial space for relocating business	\$25,000,000.00	
ER035	Economic Recovery Branch	Business Accelerator	coaching tool for emerging businesses	Will help businesses reach the next growth level	\$5,000,000.00	Project visioning was completed and FSU PC has been contacted re: collaboration.
ER036	Economic Recovery Branch	NSA Panama City Turning Basin	The proposed turning basin would allow for larger vessels to safely enter and exit NSA Panama City in a designated charted area just outside the entrance to NSA Panama City. Due to channel width and depth constraints, large vessels have to exit fully in reverse or they opt to use the Port of Panama City facilities. As missions continue to expand, a turning basin provides the safe opportunity for Navy and Coast Guard vessels alike to transit safely in and out of Alligator Bayou.	This project would increase the Navy's ability to conduct research and testing on platforms currently transiting to Pensacola due to their size. Bringing ships to NSA Panama City increases work opportunities in our area and increases the installation's overall economic impact to our community.	Approximately \$5M-\$6M	Bay County should have a copy of the 2016 Feasibility Study. If not, NSA PC can provide a copy.
ER037	Economic Recovery Branch	Downtown revitalization	Draw chain restaurants in so there are more things open on Sunday.			
ER038	Economic Recovery Branch	Farmers Market & community gardens	Farmers Market & community gardens would help the community and local agricultural farmers. One could be developed in each section of Bay county to service the surrounding areas.			
ER039	Economic Recovery Branch	Downtown Outdoor Amphitheater	An outdoor amphitheater in Downtown Panama City would be a great addition.			
ER040	Economic Recovery Branch	Water Transit	Water based mass transit from available locations throughout Bay County. IE - Lagoon Marinas to Tyndall - Eastern- PC Marina - St Andrews - Sun Harbor - Lynn Haven. Local Schools could potentially utilize system.	Reduce bridge degradation and congestion while RE-employing marine based operators. Also focuses attention on improving marinas and landings for longer term uses (Wuber- water/boat version). Increases and Diversifies housing opportunities for Tyndall and Eastern Shipbuilding and many others seeking stable housing.		
ER041	Economic Recovery Branch	Business Recovery Center				
ER042	Economic Recovery Branch	Underground utilities on commercial corridors				

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ER043	Economic Recovery Branch	Bridge over north bay from west end of Hathaway bridge to Hwy 77 (evacuation/alleviate traffic congestion central pc)				
ER044	Economic Recovery Branch	Evacuation Routes (complete 77/79 four-laning)				
ER045	Economic Recovery Branch	Central center for out of town contractors to report, register, learn laws, educate on number of municipalities and permitting, etc				
ER046	Economic Recovery Branch	Database of ALL Bay County businesses (partner w/ power companies)				
ER047	Economic Recovery Branch	Communication resilience (redundant networks)				
ER048	Economic Recovery Branch	High power wifi generators (wifi approach as back-up)				
HSGS001	Health & Social Services Branch	Communication Infrastructure	Enhancement and expansion of communication technology and infrastructure (i.e. fiberoptic network, mobile towers) that can remain operational during and after a natural disaster, or that may be deployed within hours following a natural disaster. This includes not only equipment, but also for radio stations to maintain broadcast capabilities, and first responders to manage emergencies in a timely and organized manner.	Communication is one of the most important tools when responding to emergencies, from a safety and security perspective, ability of residents to communicate with loved ones, and the ability for emergency responders to be able to relay up-to-date information and/or instructions to County residents.		
HSGS002	Health & Social Services Branch	EOC Operations	The EOC should be expanded to include hardened pods in each of the towns in Bay County activated for use within 72 hours of storm landfall, staffed with one coordinator, and 2 field personnel (one with mental health training, "Baker Act") generators, chainsaws and communication equipment.	Revising the current EOC model will provide for the effective dissemination of information, status reports, and instructions to residents from local and federal agencies adding in the recovery effort.		



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HSGS003	Health & Social Services Branch	Communication and Mobile Carriers	Enter into an agreement with mobile carriers to create hot spots throughout the county that will be available for public use should the regular system goes down.	Bay County residents when faced with the inability to call their loved ones or to received calls attempted to get near a cell tower that was still standing, only to be turned away by police due to their safety and security. Having hotspots available through, would give County residents the added benefit to be able to reach family and friends.		
HSGS004	Health & Social Services Branch	Mental Health for BDS and FSU Programs	FSU and the College of Social Work, is proposing specific programs geared at providing assistance to BDS students. Like a Summer camp opportunities to infuse HEART, an art therapy intervention program; journey of Hope, a more intense program specific to trauma and a traumatic event that could be infused into BDS relatively quickly. Train FSU-PC students, FSU volunteers, interns to deliver these programs for maximum coverage both during the Summer 2019, and during the 2019-20 school year as needed. Resurrect the Multidisciplinary Evaluation and Consulting Center at FSU-PC.	The traumatic experience faced by school children from K-12, has resulted in many of them being "Baker Acted", and one unfortunate event. Availability of these services will help these children to begin the healing process.		
HSGS005	Health & Social Services Branch	Mental Health Talent Retention and FSU	FSU-PC has presented a new model geared to train and retain new talent in the area of mental health. The basic premise is for FSU-PC to attract social work students that will complete their BSW and continue with their MSW, complete their internships within BDS and then remain as fulltime members of the staff.	This program will significantly reduce the shortage of social workers that BDS is experiencing since before hurricane Michael, and more so now that many have relocated to other areas of the State of Country. Furthermore, students K-12, the end beneficiary of this program, will enjoy a much needed service that will potentially address mental health issues before reaching a chronic level.		
HSGS006	Health & Social Services Branch	FSU Education Engineering and Technology	FSU-PC is proposing a plan to expand opportunities available to students in advanced technical training and enhance higher education options through a updated engineering, science, technology and advanced workforce focused, diverse curricula that meets the current and future needs for high paying , technical jobs in a competitive market in the area.	Successful completion of the education/training program, will result in higher paying jobs being made available to residents, and potentially the attraction of additional high tech entities to the area.		
HSGS007	Health & Social Services Branch	Communication and Mobile Towers	Availability of mobile towers to be stored in a facility located outside of the range of an anticipated natural disaster, that can be deployed within hours in order to restore communications within Bay County, for the use of first responders and residents. Likewise, installation of a fiberoptic network that can remain operational during a storm would also be essential. Hardened broadcast capabilities of local radio stations.	County residents would remain informed via text messaging or social media, as well as being able to reach family and friends. The impact is not only knowing, but also contributes to stress reduction of "not knowing". One of the biggest challenges faced by law enforcement, was not knowing which mental health facilities remained operational. This coupled with the fact that officers were not trained on the Baker Act process, made the process even more difficult		

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HSGS008	Health & Social Services Branch	Mental Health Mobile Service and Law Enforcement Training	Expand the Mental Health Mobile Service to include treating patients over age 25. At present this program only treats patients 0 to 25 years of age. Train law enforcement officer on the Baker Act process.	The availability of mental health services to residents of all ages is an essential part of Bay County's recovery effort.		
HSGS009	Health & Social Services Branch	Minimum Security Substance Abuse Facility	To build a 5K sq.-ft dormitory for people with a substance abuse diagnosis are currently being housed and that don't represent a high security risk is needed. Hence the facility would not require the same level of security as the prison.	Providing assistance to citizens that otherwise would be productive members of our community is a duty that must not be foregone. A mission-based resilience substance abuse program for the benefits of those in need of this service.		
HSGS010	Health & Social Services Branch	Shelters for First Responders	Build shelters for first responders to include sleeping quarters, showers, and power generators.	Having this shelters in place will provide for a more concerted effort in the availability of first responders that would otherwise not be able to reached their assigned station, and their respond time to a call.		
HSGS011	Health & Social Services Branch	Mental Health Counseling in Churches	Assist county residents with immediate need items and supplies, distribute information, and serve as points of gathering for support groups.	Meeting the immediate needs of residents that have lost all their personal belongings is an essential part of the recovery process. Likewise, providing information relative to where to seek other types of assistance, and serving as gathering points for residents to meet with support groups, and counselors at no cost to them is also necessary.		
HSGS012	Health & Social Services Branch	Communication	It is of the essence that all information disseminated following a natural disaster be accurate, a problem faced following hurricane Michael. To prevent this from occurring during future natural disaster, designated EOC spokesperson should be assigned to radio stations to be the only source of information that is received from the EOC.	Ensure that residents will receive accurate information relative to available services, road and building conditions, and other information relevant to their safety and security.		
HSGS013	Health & Social Services Branch	Financial Assistance	Establish a private endowment through a local non-profit organization to provide immediate financial assistance to eligible residents while their FEMA claims are funded.	Many residents lost their jobs as a result of damages sustained by their employers' facilities. While FEMA is able to provide financial assistance, claimants have to wait at least two weeks before funds are disbursed. The proposed endowment would provide a portion of the assistance immediately for those deemed eligible by FEMA.		

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HSGS014	Health & Social Services Branch	Teen Center	Create a teen center for the high school population that will provide space to commune, study, read, conduct large support groups meetings and provide individual counseling and scholastic tutoring for this at need population.	Goal is to create space for this mentally vulnerable teen population to engage in age appropriate social activities and stabilize from trauma with peer recovery and increased contact with mental health, "Baker Act" trained personnel. Contact with trained staff can identify and potentially reduce suicide incidence by providing tools for emotional grounding, and education on anti-substance abuse measures.		Post Hurricane Michael, teenagers ages 14-18 have been thrust into adult roles, having to care for younger siblings, grandparents or distressed parents. Many of their families are displaced and living in multi-family situations due to the housing shortage. Many lost the cohesion of their neighborhoods, electronics, personal items, friends, pets and anywhere to go to download their stories and feelings. Common social activities and meeting spaces like the mall, bowling alley, movie theater, and favorite restaurants were lost throughout the county in varying degrees. Parks and sports complexes were severely damaged and some are still being used as a debris staging site. High school students are sharing their school space with other entities due to facility damage. The teen center offers a quiet place to study or read, along with an opportunity to interact with peers socially, as well as, trained staff that can identify and counsel to support positive mental health.
HSGS015	Health & Social Services Branch	Resiliency Centers	Long term goal is to build multiple Resiliency Centers strategically placed around the county that during good times house teen centers, community wellness centers (access to fitness equipment identified by Student Group), senior center programming, and other needed services for the community such as workforce readiness training programs, adult literacy programs, art classes, etc.	Teens, seniors, and community use would all have their own separate entrances to ensure quality care to each group. As identified by the student group, these facilities should be adjacent to sports fields, skate parks, and the like. These buildings would have several rooms built to childcare standards that could be used for emergency childcare for first responders in the event of an emergency. Facilities would also be designed to serve as emergency shelters for people of all ages and abilities. Facility should include showers and basic kitchen services. Facility should also include the latest in varied communication options in the event that we have another huge loss of communication services. The facilities could be owned and operated by the cities or county, or managed through a public/private partnership.		In the design of building new hardened community centers, Resiliency Centers, throughout the county, these facilities can provide a wide array of supports to the community on a regular basis, but if built to codes needed to provide childcare services, it can assist during post disaster to provide housing and childcare services for first responders, as well as, shelter people of all ages and abilities.
HSGS016	Health & Social Services Branch	Parks and play ground equipment	Restore parks and playground equipment to create a safe play space for the community and youth. Pursue grants that improve park setting to include the provision of an amphitheater to be used for the performing arts and community events.	Restoring parks throughout the county will improve mental health and normalcy as well as improve the esthetic nature of the community, which is visible to those considering relocation, and therefore the economic recovery of the area.		Consider combining a skateboard park in a suitable park area centrally located in the county.
HSGS017	Health & Social Services Branch	Childcare business opportunity training	Create a business training opportunity workshop for in home childcare Identify potential financial partners to offer microenterprise loans to help individuals to start their own in-home childcare center	Allow Adults to rejoin the workforce. There has been a 70% loss in Childcare providers in the county. In home care has been frustrated by lack of housing and competing disaster clean-up jobs that pay more. Currently trends are difficulty finding providers that pass a background check. Training will broaden the provider base. May include a mothers- day- out program. Training can include a teenager babysitting program for babysitting for social activities.		Childcare space and need for trained care providers are critical. With limited options for opening new, free standing, childcare centers the best bet in the short term will be to encourage people to open in-home childcare programs.

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HSGS018	Health & Social Services Branch	Security for Domestic Violence Program	Add security measures to the Salvation Army facility in support of the domestic violence program. Prior to the storm the building had been hidden away by a large wooded area. The loss of trees now makes their facility visible for a great distance making it easier for people to watch people coming and going from the facility which keeps victims at risk of being found by their abusers.	This will greatly benefit children, adolescents and the adult populations that face abusive situations and vulnerability.		I Security was identified as the number one most important issue from the Community and Children's group.
HSGS019	Health & Social Services Branch	Training on Emergency or strategic operation planning	Provide free educational conferences or workshops to educate non-profit and private for profit business leaders on how to develop effective strategic plans, emergency operation plans that include business continuity plans, and clear steps for seeking assistance from SBA and FEMA	Training will benefit the entire community as it will help design emergency and operation plans that mitigate for future storms.		
HSGS020	Health & Social Services Branch	Business recovery center, medical office space	Create medical grade office space. It should contain portable clinic kits and at least 100,000sq ft of medical grade office space (has a sink and enough space within the office to support two hospital beds) that would enable providers to return to pre-storm patient care levels. Portable clinics will have two beds, equipment and a fax machine to send and receive private patient data.	Provider space will enable specialty providers to remain in the county and continue service. Currently, it is difficult to keep providers because of the lack of space to see patients. If the providers can't see patients, they are unable to stay in business.		This office space would be combined with other uses for the business recovery center, but will require special design planning to include sinks in the office space.
HSUT021	Health & Social Services Branch	Standardize water connections for hospitals	Standardize the connectors used to connect water sources with intake to the hospitals, to include harden storage for materials when not in use.	This will benefit all people of the community who are utilizing hospital services after a disaster. With out water the hospitals can't flush the toilets and or run the air conditioning. Water is also used for sanitizing between patients to reduce infection.		It was reported that there were 600 hundred people in one hospital alone that couldn't flush toilets.
HSUT022	Health & Social Services Branch	Sewer lift stations for hospitals	Place lift stations within code near each hospital as a redundancy during flooding.	This will benefit the general community that is within a responsible distance from the hospitals. If power goes down or waste water doesn't route properly, there may be back-up of waste water to near by water sources during flooding or a like disaster.		Pland is underway but they were waiting on approval from the county
HSTR023	Health & Social Services Branch	Transportation	Secure large passenger vehicles or bus that can be converted to transport or evacuate large numbers of patients who cannot sit upright. Vehicle should also be equipped with a communication source to support contact during evacuation. Contracts with Air Support to facilitate the same need should be considered.	This will benefit all portions of the population that may need transportation or evacuation from the hospital when not able to sit upright, otherwise they need to be transported one at a time by ambulance, which happened during Post Hurricane Michael, specifically with the elderly.		These items should be included in a transportation plan that also allows for staffing that will support 12 hour rotations due to needed sleep during disaster response.
HSEM024	Health & Social Services Branch	Security for hospital and staff with RX	Security for the providers to protect coveted resources during emergency situations. Areas of the medical system and hospitals that maintain class C pharmaceuticals should have armed security to fend off people who attempt to access prescriptions.	This will impact and community members who utilize the hospital for care or sheltering during a storm. This was huge issue the first 4 or 5 days. There was no way to secure medications, protect staff, patients and other resources.		Acute care facilities had armed guards- rehabilitation hospitals did not. Petitioned the EOC, but were denied.

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HSEM025	Health & Social Services Branch	Communication Ham Radios	Supply ham radios at hospitals, EOC's and Pods, (Satellite EOCs) and inpatient facilities.	This will impact all portions of the community utilizing medical facilities. After the storm, there was no Local communication with command structure or utilities for days. The only communication available was through corporate ties. This presented a number of issues, one of the biggest not being able to communicate regarding medication and whether some of the substance abuse programs were operational.		
HSGS026	Health & Social Services Branch	Incentives for medical professionals	Create incentives to attract doctors to the area. A half tax for an amount of time for younger physicians married w/o children may attract new doctors starting their practice. A federally sponsored 5-year hurricane write-off loan program, similar to "service in rural area" loan forgiveness program, but with disaster terminology to support the pay-off of student loans.	This is a critical need for the medical subgroup. They have already lost key specialty physicians. Having this level of care improves health and quality of life for the portions of the whole community. Doctors and nurses and support staff are needed as well.		Lack of office space has resulted in reduced patient care and the county losing several specialists due to economic inability to support payment to private practice staff and equipment rental. It should be noted that non-profit free community medical support can impact the economic recovery of private practice providers after two weeks post storm.
HSGS027	Health & Social Services Branch	Incentives for behavioral health providers	Create incentives to maintain and attract staff at the doctor level, master, 4-year and non- degreed staff. Potential options are to increase salary range, offer tax incentives, pay relocation costs, a federally sponsored "5 year" hurricane write-off loan program similar to, "service in rural area" loan forgiveness program, but with disaster terminology. student loan forgiveness, Retention bonuses, and sign-on bonuses.	There has been a 40% loss in personnel, some of which existed before Hurricane Michael. The remaining providers are showing signs of compassion fatigue. Mental health has become the number one issue in the county, which directly relates to housing. Programs and facilities cannot operate without enough staff to support them.		
HSFA028	Health & Social Services Branch	FEMA Housing for the Behavioral Health Community	Establish a FEMA trailer camp immediately that would support the behavioral health community. Many are leaving the area due to housing and lack of facilities to practice- targeting the school year end. Many of the providers live close to the epicenters of Panama City, in order to serve that population, but lost the houses or rental units during the storm. They are now forced to commute and due to spring break are losing their back-up options as well.	Mental health is the number one issue in the county and providers are having trouble focusing because they do not have housing or rental options. A healthy stable behavioral health workforce is vital to all populations of the community. Behavioral health providers are asking for immediate help by establishing this FEMA camp or with be forced to leave at the end of the school year.		

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HSFA029	Health & Social Services Branch	Assessment for Nursing Homes	Recommend an assessment be done to identify the capacity needs for the elderly in Bay County and facilities to support independent, assisted living, nursing care and recovery care. to bring capacity up to adequate levels for the current and rising elderly population Nurse homes are less than half their pre-storm capacity. Many elderly are still living out of the county. Nursing homes should be evaluated for restoration. If rebuilding new facilities, calculations should account for a population of 6508 seniors as reported in 2017 in Panama City.	This affects the entire community as parents and grandparents are integral to the extended family. Many elderly were evacuated during and after the storm and still not returned due to the lack of space. An assessment would identify needs capacity		
HSGS030	Health & Social Services Branch	Telemed equipment	Acquire a Telemed equipment system to use to support telemedicine, which is providing healthcare from a distance. This system allows for inkstand file sharing, scheduling, credit card payment and is HIPPA secure.	During the shortage of Behavioral health providers, this will enable current staff to tap into remote option for mental health support and RX writing.		Records access became a huge issue. This system can obtain recommendation in a secure way, HIPPA secure) that will allow providers on this end to diagnose and write scripts.
HSGS031	Health & Social Services Branch	Regional Hurricane Center	A regional hurricane center designed for the stringent ICC-500 design standards similar to the FASANO regional hurricane center built in 2009 in Hudson County Florida for \$7,200,000. The facility would be hardened to resist 190mph winds and the impact of wind borne debris for 72 hours, self-sustaining. It would be capable of housing 1000 occupants, have a commercial kitchen, a health clinic, underground potable water tanks and a sanitary hold. This facility could support the northern population of the state.	This facility could support and house patients for up to 45 or 60 days to include families, caretakers and pets.		An assessment should be done under the supervision of the state to address the specific needs of this region. Due to the proximity of the nearest established healthcare being in Pensacola rand Tallahassee, a close look at this option should be highly considered.
HSGS032	Health & Social Services Branch	Interdisciplinary Community Training Program	Expand current interdisciplinary community training program for medical, behavioral health and law enforcement personnel to include transportation, evacuation, contracted personnel, EOC, local radio stations, military and state disaster response components and other needed entities in a mock training scenario (to include Baker Act training for key personnel)	Coordinating training across the county will help to ensure timing, communication, handling of patient load, transportation and security are addressed and improved throughout the county to mitigate for a future storm.		Due to the unique mental health response needs of the behavioral health and substance abuse patients, ensure all first responders, medical providers and respective community leads are trained and exercise skills with them collaboratively
HOU001	Housing Branch	3D printed concrete homes	Demo home using 3D printed homes to provide affordable, hurricane proof homes that the average income wage earner can afford. \$30-\$50k	To establish hope for the working class, and attract others to Bay county.		The model home will be the first in a cluster of 10-20 homes in a village like community. 3-2 single family coastal cottage craftsman style.
HOU002	Housing Branch	Transitional Housing Facility prioritizing veterans	Non profit veterans housing community and center for community care. Examples of successful developments can be found all over the US. Here is one from Tallahassee. <a href="http://www.floridahousing.org/FH-ImageWebDocs/AboutUs/BoardOfDirectors/BoardPackages/Exhibits/2015/01-January30/Consent/MFP_Ex_A.pdf">http://www.floridahousing.org/FH-ImageWebDocs/AboutUs/BoardOfDirectors/BoardPackages/Exhibits/2015/01-January30/Consent/MFP_Ex_A.pdf</a>  Catalyst Church disaster recovery coalition is ready and willing to take the lead in development and long term management of this initiative.	Doorways surveyed in 2017 that Bay County was Home to approx. 330 people and that over 25% of those were veterans. Hurricane Michael has created and even greater housing crisis. Creating transitional and temporary housing for people struggling with financial instability, prioritizing veterans and single parents can improve our city tremendously.		
HOU003	Housing Branch	Public Awareness of Flood Insurance	Project to increase public awareness of the benefits of flood insurance though public education	Will increase the number of people who get flood insurance		

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HOU004	Housing Branch	Property Buyback	Purchase and demolish properties in the floodplain.	This will increase greenspace and reduce recovery costs from damaged structures		
HOU005	Housing Branch	Increase base level of building codes	Strengthen regulations to mandate additional storm mitigation accessories on residential structures	Homes built to increased storm protection standards will have fewer recovery costs		
	Housing Branch	Community Land Trust	Establish a Community Land Trust (CLT) that will own land on which homes for homeownership can be built and then allowing long term leasehold of the land reducing cost of homeownership. Bay County could subsidize the creation of the CLT and then restrict home sales & leases based on individual AMI restrictions both on initial and resale of homes. A limit of maximum increase equity on the home should also be restricted to preserve affordability.	The City of Houston created a very aggressive CLT after Hurricane Harvey to increase affordable homeownership city wide. The Houston CLT model could be used to increase homeownership for both the short term and long term. Multiple sources of land could be used to start and expand the CLT such as; existing government owned land, land if a buyout program is established, donated land and/or individual lots across the county where the potential buyer meets the AMI restrictions and needs the subsidy to purchase their home and are willing to have the CLT own the land. CLTs have also helped to develop or redevelop targeted areas and can also assist with pressures on transportation infrastructure and/or school population challenges.		Subsidizing affordable homeownership is needed if Bay County is to reduce the high rate of rental housing in the county. As stated a CLT is a way to not only produce affordable homeownership but also as previously mentioned a CLT also preserves affordability in the future. Grounded Solutions has experience creating and guiding CLTs. Contact Michael Brown, mbrown@groundedsolutions.net for more information.
HOU006	Housing Branch	Education on Resiliency & Push for Neighbor Envy of Resilience	FEMA estimates for every dollar spent on resiliency over the life of the property will save \$7. Today we see strong neighbor envy over such items as granite counter tops & high end appliances yet items such as hurricane roof straps or storm windows are only a focus or desired items immediately after a disaster.			
HOU007	Housing Branch	Affordable Housing Development Lending Fund	The majority of affordable housing projects never start because an organization whose focus is affordable housing development often do not have early funding to finance land purchase and/or soft costs. Subsidizing just some of the potential lost could get financial institutions and/or national non-profits to invest in a fund which could speed up and increase the number of affordable housing developments. Once an affordable developers has the early financing in place it is far easier for traditional funders to provide both short term and perm financing.	The first dollars "In" are key to a projects success creating an affordable housing development fund can increase the number of both rental and homeownership affordable developments		
HOU008	Housing Branch	Shipping Container Housing	Shipping container housing would be a great, quick, and affordable housing solution to a HUGE problem in our area. The options are limitless and can be made on all ends of the affordability scale. This is already being done all throughout international areas and is picking up momentum in the US. Best options include: -Multifamily -Commercial Offices -Residential Units -Duplexes -Retrofit Mobile Home Parks -Storage Complexes -Warehouses	By providing safe and affordable housing on a GRAND scale, we can start the rebuilding process for all of Bay County.  As we all know, jobs won't be able to flow back until there is housing available for employees.  This address a huge problem for many people.		Existing Funding Source: Private Capital I have a google drive with all possible uses that I would love to share with everyone. Link is below: <a href="https://drive.google.com/drive/folders/1gbNQ5EDfTs5OYa7D_XMD3fVFUXNpr306?usp=sharing">https://drive.google.com/drive/folders/1gbNQ5EDfTs5OYa7D_XMD3fVFUXNpr306?usp=sharing</a>

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HOU009	Housing Branch	Disaster Recovery Through Education	Super Storm SANDY Recovery Liaison for Nassau County NY for six years has just retired and moved to Florida. This individual has developed a seminar series of disaster recovery strategies that has been presented to thousands of people. It's a two hour presentation.	Could save homeowners and business owners millions of dollars.		Existing Funding Source: Nassau County NY Please ask someone to call me so that I can better describe the program. I speak to audiences as large as 700 people.
HOU010	Housing Branch	Affordable Housing	4. First, create policies that REQUIRE affordable housing to be included integrally in all major new developments over a threshold of the # units called for by affordable housing advocates. Distribute affordable housing across the county. Second, investigate feasibility of innovative approaches like creating a Tiny House community (there is one in Tallahassee). Third, investigate mechanisms by which renders of AH can build wealth- rent to own, etc. Fourth, set up an empowered Task Force to stick with this issue to investigate and implement most viable options.	Provide for basic needs and beyond		A tiny house community is in Tallahassee and other places.
HOU011	Housing Branch	Floating Hotels, Riverboats and Cruise Ships for Temporary Housing	Floating hotels, cabin riverboats, and cruise ships (smaller sizes) can be brought into the Panama City for temporary housing.	The floating vessels can provide immediate housing for families, disaster workers, military personnel and college students.		Floating hotels, cabin riverboats, and cruise ships (smaller sizes) have been utilized after a number of natural disasters. Bay County can take advantage of it's vast shore line natural resource by coordinating with organizations that own these vessels to provide immediate housing.
HOU012	Housing Branch	Affordable Senior Independent Housing	Taken from the Senior Living website: Senior Independent Living Communities  Senior Independent Living awards you the freedom to do what you want to do, when you want to do it. It's your lifestyle!  After settling into a Senior Lifestyle Community, our residents often wonder why they did not make the decision to move sooner. We often hear from our residents and their families how easy it is to make new and meaningful friendships, how helpful it is to have staff on-site to service housekeeping and maintenance needs, how luxurious it is to have breakfast and dinner prepared by the culinary staff, and how enjoyable it is to participate in our many life enrichment programs.  The senior independent living community quality of the experience at a Senior Lifestyle Community is heavily reliant on having a dedicated, well-trained and consistent service staff. Here at Senior Lifestyle it is one of our top priorities to empower our team of professionals to deliver the highest standards in hospitality services to our residents. Independent Living is just that, with a few added perks to make life hassle-free and even more enjoyable. You always have the freedom and flexibility to do whatever you like. So simply kick back and relax in your retirement, or mix it up with friends and family in this amazing lifestyle!  <i>Senior Independent Living Services Allow You to Live Life to the Fullest</i>	Provide safe living arrangements for seniors in our community.		
HOU013	Housing Branch	Tiny House Development	Develop a community of tiny homes similar to The Dwellings in Tallahassee.			



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INES001A	Infrastructure Branch	Lifeline Drug Treatment Dormitory	<p>Construction of a 5,000 sf medium security stand-alone dormitory at the Bay County Jail to house the Lifeline Drug Treatment Program. The program is currently housed in a pod at the main jail. The stand-alone facility will allow for the expansion of the program, and facilitate the delivery in a more rehabilitative environment. Due to the lower level classification of participants in the program, the dormitory can be engineered at less cost than traditional jail dormitories.</p> <p>Bay County has experienced significant issues with drug addiction issues with high rates of substance abuse from methamphetamine and opiates. Statistics show high levels of prescribing for opioids, and high rates of removals of children from the drug endangered homes. Bay County led the state for many years in the seizure of methamphetamine labs. The Bay County Sheriff's Office has been working through the Lifeline Drug Treatment Program to provide rehabilitative services to inmates at the Bay County Jail. Innovative treatments to include medication assisted treatment, and the Mission Based Resilience Program have shown promise in making an effect on individuals that are engaged in the criminal justice system and addicted to drugs. This project will allow for the expansion of treatment services in Bay County. There are concerns that the stresses of the hurricane recovery will exacerbate the issue as evidenced by information that we have received from other communities that have experienced natural disasters and their experience with overdoses and addiction rates. In addition, the Bay County Jail is near design capacity on the inmate population, and this dormitory will add additional capacity at a lower cost.</p>	<p>Bay County has experienced significant issues with drug addiction issues with high rates of substance abuse from methamphetamine and opiates. Statistics show high levels of prescribing for opioids, and high rates of removals of children from the drug endangered homes. Bay County led the state for many years in the seizure of methamphetamine labs. The Bay County Sheriff's Office has been working through the Lifeline Drug Treatment Program to provide rehabilitative services to inmates at the Bay County Jail. Innovative treatments to include medication assisted treatment, and the Mission Based Resilience Program have shown promise in making an effect on individuals that are engaged in the criminal justice system and addicted to drugs. This project will allow for the expansion of treatment services in Bay County. There are concerns that the stresses of the hurricane recovery will exacerbate the issue as evidenced by information that we have received from other communities that have experienced natural disasters and their experience with overdoses and addiction rates. In addition, the Bay County Jail is near design capacity on the inmate population, and this dormitory will add additional capacity at a lower cost.</p>	\$850,000.00	
INES002A	Infrastructure Branch	BCSO Training Facility/Law Enforcement Command Post and high-value vehicle storage	<p>Project to replace structures damaged by Hurricane Michael for the purpose of housing law enforcement specialty vehicles and equipment as well as a classroom/Emergency Operations Center for law enforcement training and operations. The Bay County Sheriff's Office is located at 3421 Highway 77 on the border of Panama City and Lynn Haven. Structures in this area sustained catastrophic damage. The Bay County Sheriff's Office lost a warehouse/shop metal building, several pole barns and sustained damage to a 20+ year-old portable classroom used to train law enforcement officers.</p> <p>The Bay County Sheriff's Office is active in the Regional Domestic Security Task Force, and has one of the regionally designated bomb squads and swat teams. As such, we have obtained valuable specialty vehicles to respond to critical incidents throughout Northwest Florida. The bomb squad is one of two in the region, and has a vehicle and equipment valued at over \$1.5 million. The Swat team is one of three designated in the region and has vehicles and equipment valued at over \$400,000, including a \$300,000 armored vehicle that was recently acquired through federal/state funding. We also have a mobile command post vehicle on order that is a joint purchase with Bay County Emergency Services that cost \$650,000. The total value of this equipment exceeds \$2.5 million. Due to the effects of Hurricane Michael, this equipment is being housed in our parking lot and exposed to the elements.</p> <p>The project will allow for a suitable location to effectively train law</p>	<p>The project will allow for a suitable location to effectively train law enforcement officers. The training room could also function as a law enforcement command post in natural disaster and other law enforcement emergencies. The garage bays would allow for appropriate storage of high-value vehicles extending the useful life of this equipment.</p>	\$875,000.00	

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INES003A	Infrastructure Branch	Expand and Improve Emergency Shelters Operations	Develop additional sheltering facilities besides Bay District Schools and staff emergency shelters with trained personnel from outside the local area. Additional non-school shelters supervised by trained outside manpower will better ensure that Bay County sheltering capacity and capability meets community needs.	Additional non-school shelters supervised by trained outside manpower will better ensure that Bay County sheltering capacity and capability meets community needs.		
INES004A	Infrastructure Branch	Consolidated Communications/ 911 Center	Propose a consolidated 911/ Dispatch facility capable of handling all 911 demand and dispatch of police, fire and EMS resources.	Life safety, property preservation, environmental protection	\$17,000,000.00	
INES005A	Infrastructure Branch	EMS Stations	Emergency Medical Services (EMS) stations need to be located strategically throughout all of Bay County, including municipalities. EMS units can be stationed within fire stations or housed in stand-alone structures. None of the existing County or City infrastructure has capacity for the EMS units and associated crews.	Critical life safety issue. 911 EMS.	\$10,000,000.00	
INES006A	Infrastructure Branch	Retrofit County Fire Station/EMS Station Truck Bay Doors	Retrofit County Fire Station/Emergency Medical Services (EMS) Station Truck Bay Doors All doors retrofitted to accordion type doors similar to existing doors at West End Fire Dept. to meet Miami-Dade wind load standards.			
INES007A	Infrastructure Branch	New Fire Stations (Unincorporated Bay County)	Stations needed for current call volume and protection of life, property and environment.	Life safety, property preservation, environmental protection and reduced insurance costs to residents and businesses.	\$28,000,000.00	
INFA001A	Infrastructure Branch	Wind Retrofit Hardening of Existing Majette Yard Facilities	Wind Retrofit Hardening of Existing Majette Yard Facilities Roads & Bridges Administration Building Roads & Bridges Fleet Shop Traffic Sign Shop Mosquito Control system			
INFA002A	Infrastructure Branch	Construct hardened records facility with space for key public works staff during emergency. Facility will act as COOP for EOC (equipped with backup power and hardened communication system).	Facility will act as COOP for EOC (equipped with backup power and hardened communication system).			
INFA003A	Infrastructure Branch	Wind Retrofit Hardening of Existing County Fuel Depots (Majette & 9th St)	Wind Retrofit Hardening of Existing County Fuel Depots (Majette & 9th St) Construct canopies to Miami-Dade wind load standards. Install backup generators to provide emergency power for lighting, fuel pumps and Fuelmaster pedestal. Provide wireless connectivity capability for Fuelmaster pedestal.			

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INFA004A	Infrastructure Branch	Equip additional county facilities with building-wide backup generators (all fire stations, library, entire county admin building, etc.)	Install additional generators on County facilities.			
INFA005A	Infrastructure Branch	Community centers	We need better community centers. These could be tied in with community gardens and would help them become more of a center.			
INGS001A	Infrastructure Branch	Re-evaluating Bay Town Trolley Routes Post-Hurricane	We are proposing a project to re-evaluate timing of routes, use of routes, and location of routes given the transition of population centers.	We are trying to better meet the needs of the community and our ridership. We also want to make sure we are utilizing our grant funds/other funds in the most cost effective manner.	\$200,000.00	
INGS001B	Infrastructure Branch	Trolley System	The trolley system needs to be upgraded to more of a bus line system. More trolleys/buses, pickup/drop off spots, and it needs a better schedule to be more effective for people.			
INGS002A	Infrastructure Branch	Cleaning and Clearing Bus Stops	<p>We are in the process of evaluating and documenting the damaged sustained by the Bay Town Trolley Bus Stops and how to better maintain the safety and cleanliness in light of all the hurricane debris and trash being dumped at the trolley stops. We are also evaluating replacement of shelters and benches.</p> <p>1) Clearing and Maintaining clean trolley stops to assist with the clean up of neighborhoods and communities. 2) Safety. Evaluating/removing hazards from the stops and surrounding stops. 3) Function better to move people safely more efficiently.</p>	<p>1) Clearing and Maintaining clean trolley stops to assist with the clean up of neighborhoods and communities. 2) Safety. Evaluating/removing hazards from the stops and surrounding stops. 3) Function better to move people safely more efficiently.</p>	\$400,000.00	
INGS003A	Infrastructure Branch	Animal Control hardened facility to act as "animal shelter"	Community needs safe / secure location to house pets during disasters			
INGS004A	Infrastructure Branch	Electric Car Charging Stations	<p>As electric cars are becoming more popular, the ability to charge your vehicle is crucial. Many campus environments such as the military bases and colleges have them for internal vehicles but there are very few in the community. If charging stations were available at strategic locations throughout the county, both our visitors and locals alike could benefit. As infrastructure is being rebuilt, now is the perfect opportunity to have these put in place.</p> <p>Provides peace of mind for those using electric cars to commute around the county. With more and more electric cars becoming more affordable, the need for charging stations will grow.</p>	Provides peace of mind for those using electric cars to commute around the county. With more and more electric cars becoming more affordable, the need for charging stations will grow.		

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INGS005A	Infrastructure Branch	Wildfire Property Protection	Plans need to be made to protect property from potential wildfires. With forest and timberlands damaged as they are, it is primed for wildfires. Plans need to be made to clean up these areas of the large amounts of dead and dying trees. Fire protection methods need to be established now. Additionally, in just a short order of time these areas will be infested with bugs/beetles that will cause future problems for the citizens of Bay County and the surrounding areas.	This will prevent further property damage in the future.		
INGS006A	Infrastructure Branch	Emergency Staging Areas	Purchase property for use as staging area during emergencies.			
INST001A	Infrastructure Branch	Regional Stormwater Management Facilities	<p>Provide a series of regional stormwater management facilities (RSMF) throughout the county and municipalities to provide for the treatment and management of stormwater for existing and future development including commercial areas, residential neighborhoods, and roadways.</p> <p>The RSMF will receive and treat stormwater runoff, there thereby improving environmental quality in the area’s bays, bayous, creeks, and other natural waterways. The RSMF will reduce existing flood hazards by conveying and attenuating stormwater runoff from existing development and roadways. The RSMF also have the added economic benefit of attracting new business/investment in the area by providing capacity for new development. Rather than construct stormwater facilities for a single development, RSMF can relieve developers of stormwater requirements and save on the upfront costs of site construction and allow owners to maximize the use of their properties.</p>	The RSMF will receive and treat stormwater runoff, there thereby improving environmental quality in the area’s bays, bayous, creeks, and other natural waterways. The RSMF will reduce existing flood hazards by conveying and attenuating stormwater runoff from existing development and roadways. The RSMF also have the added economic benefit of attracting new business/investment in the area by providing capacity for new development. Rather than construct stormwater facilities for a single development, RSMF can relieve developers of stormwater requirements and save on the upfront costs of site construction and allow owners to maximize the use of their properties.		
INST002A	Infrastructure Branch	Countywide Ditch & Creek Clearing & Maintenance	Most ditches and creeks are in need of clearing for pre- and post-hurricane issues to include access for reoccurring maintenance. Clear drainage will eliminate potential flooding for future events.	Clear drainage will eliminate potential flooding for future events.		
INST003A	Infrastructure Branch	Stream restoration at all impacted crossings	Stream restoration at all impacted crossings to improve culvert sizes and do natural channel design to stabilize stream banks as far up and downstream as needed. In other words, don't just fix the culvert and ignore ongoing stream instability.			
INST004A	Infrastructure Branch	Restoration of County's stormwater channels	Existing County's stormwater channels have been impacted by hurricane Michael and require restoration to include stabilization of eroded/regraded slopes. The majority of the stormwater channels connect to St Andrews Bay system. Stabilization of side slopes is critical for water quality of our watersheds.	Majority of the stormwater channels connect to St Andrews Bay system. Stabilization of side slopes is critical for water quality of our watersheds.		

Idea ID	Branch	Project Name	Project Description	Impact to Community	Project Est. Cost	Comments
INST005A	Infrastructure Branch	Conservation, Recreation and Flood Protection	<p>Permanent protection and management of 2,000 acres of targeted forests, fields, and wetlands will simultaneously benefit the Panama City Crayfish (PCC) and will remove regulation, provide flood protection for the community, and filter water that feeds our bay.</p> <p>1) Removes the PCC from the U.S. Endangered Species Act (ESA) which removes ESA permitting for development; 2) Provides recreational space for communities, which are compatible with residential areas, future residential and commercial development, and increases property values; and 3) Provides flood relief through stormwater management, which helps keep our yards dry, bay clean, and fisheries healthy.</p>	<p>1) Removes the PCC from the U.S. Endangered Species Act (ESA) which removes ESA permitting for development; 2) Provides recreational space for communities, which are compatible with residential areas, future residential and commercial development, and increases property values; and 3) Provides flood relief through stormwater management, which helps keep our yards dry, bay clean, and fisheries healthy.</p>	\$200,000.00	
INST006A	Infrastructure Branch	Protecting our Bay, Improving our Economy, and Beautifying Bay County!	<p>Let's put the "GREEN" into flood control! Create structures to mimic natural water filtration processes, use natural wildlife habitat (such as Panama City crayfish lands) and absorb flood waters via "Green Street Practices"—a term deemed by the U.S. Environmental Protection Agency (<a href="https://www.epa.gov">https://www.epa.gov</a>). Permitting and financial incentives at the County and City levels can inspire developers and homeowners to use permeable parking lots, rain gardens (also called bioretention/filtration), bio or vegetative retention swales. Initially we recommend setting the tone by retrofitting City and County Buildings with such features with Green Street Practices but moving towards integration at a County-wide level is ideal especially with new developments.</p> <p>Protecting St Andrews' Bay via reducing stormwater runoff wrought with contaminants and debris, direct ties to the health of our economy via improved fishing experiences, water activities, wildlife (dolphins, sea turtles, bird life), visual attractiveness, and our overall quality of life. Reducing the quantity of treated water also saves money. Specifically Green Street Practices will:</p> <p>1) Protect St Andrew Bay Recreational and Fishing Industry; 2) Reduce localized flooding events; 3) Improve Water Quality for all Bay County Citizens; 4) Reduce quantities of treated water; 5) Reduce Water Consumption; 6) Provide parks, trails and other passive recreation opportunities similar to Conservation Park on Panama City Beach; 7) reduced costs to the community by reducing water treatment costs; 8) Improved health and aesthetics, 9) improved economic standing.</p>	<p>Protecting St Andrews' Bay via reducing stormwater runoff wrought with contaminants and debris, direct ties to the health of our economy via improved fishing experiences, water activities, wildlife (dolphins, sea turtles, bird life), visual attractiveness, and our overall quality of life. Reducing the quantity of treated water also saves money. Specifically Green Street Practices will:</p> <p>1) Protect St Andrew Bay Recreational and Fishing Industry; 2) Reduce localized flooding events; 3) Improve Water Quality for all Bay County Citizens; 4) Reduce quantities of treated water; 5) Reduce Water Consumption; 6) Provide parks, trails and other passive recreation opportunities similar to Conservation Park on Panama City Beach; 7) reduced costs to the community by reducing water treatment costs 8) Improved health and aesthetics, 9) improved economic standing.</p>		
INST007A	Infrastructure Branch	Healthy St. Andrews Bay	<p>Improve stormwater runoff so to lessen the amount of stormwater that runs directly into the bay. Initiate programs that help create a cleaner bay through prevention, monitoring and maintenance.</p> <p>A healthier bay makes for a more attractive community for tourists and potential residents.</p>	<p>A healthier bay makes for a more attractive community for tourists and potential residents.</p>		
INST008A	Infrastructure Branch	Establish Grand Lagoon and West End drainage systems				

Idea ID	Branch	Project Name	Project Description	Impact to Community	Project Est. Cost	Comments
INST009A	Infrastructure Branch	Improve Watson Bayou Drainage System				
INST010A	Infrastructure Branch	Alf Coleman Drainage Improvements	<p>Raising the roadway existing elevation approximately 3' and providing a stormwater collection system for this basin to include a stormwater facility with associated structures and piping.</p> <p>During significant rainfall events, this roadway becomes submerged and must be shut down to local traffic only due to flooding. This roadway provides connection for two subdivisions and two apartment complexes. Pedestrian traffic is compromised in some locations along this roadway.</p>	During significant rainfall events, this roadway becomes submerged and must be shut down to local traffic only due to flooding. This roadway provides connection for two subdivisions and two apartment complexes. Pedestrian traffic is compromised in some locations along this roadway.	\$2,300,000.00	
INST011A	Infrastructure Branch	N.Glades and Hombre Drainage Improvements	<p>This project includes, but is not limited to the construction of 5764 FL channel improvements including the construction of a single lane timber bridge crossing, sodding, seed and mulch, riprap, erosion control, earthwork.</p> <p>This project could help alleviate some of the flooding for 100 year rainfall events within the Glades basin. This improvement along with a few others, should be able to drop flooding levels approximately 0.6' in those areas where the most damage occurred to residences.</p>	This project could help alleviate some of the flooding for 100 year rainfall events within the Glades basin. This improvement along with a few others, should be able to drop flooding levels approximately 0.6' in those areas where the most damage occurred to residences.	\$850,000.00	
INST012A	Infrastructure Branch	CRA Storm Water Improvements and Storm Hardening	Provide storm water treatment and attenuation in all road rights of way located in the CRA District. Storm hardening measures with undergrounding all overhead utilities in the CRA District.	This project will reduce pollution to the Gulf of Mexico, minimize flooding to the transportation grid and adjacent property, and protect power and communication during sever weather events from falling trees, extreme winds and air born objects.	\$73,500,000.00	
INST013A	Infrastructure Branch	CRA Storm Water Improvements and Storm Hardening- Segment 4.1 and Segment 4.2.	<p>Provide storm water treatment and attenuation in road rights of way located in the Segment 4.1 and 4.2 CRA District. Storm hardening measures with undergrounding all overhead utilities in Segment 4.1and 4.2 CRA District.</p> <p>This project will reduce pollution to the Gulf of Mexico, minimize flooding to the transportation grid and adjacent property, and protect power and communication during sever weather events from falling trees, extreme winds, and airborne objects.</p>	This project will reduce pollution to the Gulf of Mexico, minimize flooding to the transportation grid and adjacent property, and protect power and communication during sever weather events from falling trees, extreme winds and air born objects.	\$16,500,000.00	
INST014A	Infrastructure Branch	CRA Storm Water Improvements and Storm Hardening- Segment 4.1	<p>Provide storm water treatment and attenuation in road rights of way located in the Segment 4.1 CRA District. Storm hardening measures with undergrounding all overhead utilities in Segment 4.1 CRA District.</p> <p>This project will reduce pollution to the Gulf of Mexico, minimize flooding to the transportation grid and adjacent property, and protect power and communication during sever weather events from falling trees, extreme winds, and airborne objects.</p>	This project will reduce pollution to the Gulf of Mexico, minimize flooding to the transportation grid and adjacent property, and protect power and communication during sever weather events from falling trees, extreme winds and air born objects.	\$8,100,000.00	

Idea ID	Branch	Project Name	Project Description	Impact to Community	Project Est. Cost	Comments
INTR001A	Infrastructure Branch	Dirt Roads Stabilization	Stabilization of existing Bay County's dirt roadways (approximately 200 miles) and construction of roadside swales for stormwater treatment. The purpose of this project is to improve water quality of St. Andrews Bay System by eliminating the source of sedimentation and reducing nitrification of watersheds through stabilization of dirt roads and installation of adequate roadside drainage system.	The purpose of this project is to improve water quality of St. Andrews Bay System by eliminating the source of sedimentation and reducing nitrification of watersheds through stabilization of dirt roads and installation of adequate roadside drainage system.		
INTR001B	Infrastructure Branch	Accelerate Dirt Road Paving	Accelerate dirt road paving where possible. The county has made significant progress in the last decade. What would it take to finish?			
INTR002A	Infrastructure Branch	Improvements for School Bus Routes	Paving, lighting and bus stop shelters.  These improvements will reduce risks concerning school bus program safety and security, weather sensitivity, bus schedule delays, tripping and falling injuries, and bus damage due to recurring road washouts and potholes.	These improvements will reduce risks concerning school bus program safety and security, weather sensitivity, bus schedule delays, tripping and falling injuries, and bus damage due to recurring road washouts and potholes.		
INTR003A	Infrastructure Branch	Smart City/Connected Intersections	The procurement and installation of hardware at traffic signals around Bay County to prepare for vehicle to infrastructure communications. This will include connected vehicles, emergency traffic signal preemption, and any other safety or efficiency improvements.  These projects will enhance the safety and efficiency of the movement of the traveling public around Bay County.	These projects will enhance the safety and efficiency of the movement of the traveling public around Bay County.		
INTR004A	Infrastructure Branch	Hardening of Bay County traffic signal system	Replace span wire intersections with mast arms and cut loops at all intersections.			
INTR005A	Infrastructure Branch	Emergency Vehicle Signal Preemption	Emergency Vehicle Signal Priority would give first responders signal priority when approaching traffic signals during an emergency. This would allow for faster response and reduce the potential for emergency vehicle accidents during response.	It would greatly increase traffic safety for emergency vehicles and other commuters during an emergency.		
INTR006A	Infrastructure Branch	Traffic concerns throughout the county	After the storm, North-South was our biggest challenge in town. East-West I believe is being addressed through the fly-overs. While there was an east-west challenge, it was due to literally everyone relocating to the beach and commuting back and forth. Outside of commute times, we could traverse east-west. North-south stayed a challenge at all times. 77 and 231 were over capacity. 231 will help with 77 and Star ave flyovers, but we need north-south relief from Highway 388 south to 98 on Hwy 77. I don't have a good solution because of the limited right of way and complexity with business setbacks – but they're doing 390.  We could've gained about a day of productivity by eliminating the traffic. Traffic flow is an issue. It was not good before the storm and is even worse now. There is no efficient way to get to the interstate if you are headed west.			

Idea ID	Branch	Project Name	Project Description	Impact to Community	Project Est. Cost	Comments
INTR007A	Infrastructure Branch	Bike Path/boardwalk between downtown & St Andrews	Better bike paths. The beachside of Beach Dr could now become home to a boardwalk that provides a pathway between downtown and St Andrews.			
INTR008A	Infrastructure Branch	Countywide off-road bicycle network	Construct a series of off-road bicycle paths.			
INTR009A	Infrastructure Branch	Elevated pedestrian structures on Back Beach Road/US 98.	<p>The construction of pedestrian structures on Back Beach Road and US 98.</p> <p>This project would allow pedestrians to safely cross US 98 without the risk of conflict with vehicles on US 98. This would further increase the efficiency of US 98 by not forcing vehicles to stop for pedestrian traffic.</p>	This project would allow pedestrians to safely cross US 98 without the risk of conflict with vehicles on US 98. This would further increase the efficiency of US 98 by not forcing vehicles to stop for pedestrian traffic.		
INTR010A	Infrastructure Branch	Gulf Coast/West Bay Parkway (Advancement)	<p>Gulf Coast/West Bay Parkway provides a belt circle through the County from Mexico Beach to West Bay.</p> <p>The project provides greater mobility, evacuation routes, reduce congestion, improves safety, improves mobility of 1st responders during and after a storm event.</p>	The project provides greater mobility, evacuation routes, reduce congestion, improves safety, improves mobility of 1st responders during and after a storm event.		
INTR011A	Infrastructure Branch	Continuation of East Bay Parkway to Wildwood Road.	<p>Creation of an additional east-west roadway servicing Bay County and Panama City Beach from Hathaway Bridge to SR 79.</p> <p>Presently, this area is served by one main travel corridor, US 98. After the storm major congestion resulted and impacted evacuation, access to emergency vehicles, 1st responders, etc. Another route will be instrumental in recovery process.</p>	Presently, this area is served by one main travel corridor, US 98. After the storm major congestion resulted and impacted evacuation, access to emergency vehicles, 1st responders, etc. Another route will be instrumental in recovery process.	\$13,000,000.00	
INTR012A	Infrastructure Branch	Construction of a North Bay Bridge	<p>Option to construct a North Bay Bridge. One that cuts across from the foot of Hathaway (west side) and across the Bay to the north end of Bailey Bridge or there about.</p> <p>This could have a huge impact on traffic especially those needing to go north bound and would cut out all of the “in town” congestion and of course it works vice versa too for those coming from the north to access the beach. This would also have a huge impact on evacuations. I know it is long range planning but there is a great need.</p>	This could have a huge impact on traffic especially those needing to go north bound and would cut out all of the “in town” congestion and of course it works vice versa too for those coming from the north to access the beach. This would also have a huge impact on evacuations. I know it is long range planning but there is a great need.		
INTR013A	Infrastructure Branch	Thomas Drive Flyover Phase 2	FDOT design project - Improve traffic congestion before and after an event.	Improve traffic congestion before and after an event.		



Idea ID	Branch	Project Name	Project Description	Impact to Community	Project Est. Cost	Comments
INTR014A	Infrastructure Branch	Bay Parkway Phase 2	<p>A two lane rural roadway connecting Bay Parkway Segment 1 terminus at North Pier Park Drive to the terminus at Nautilus Street. Stormwater facilities with the associated structures and piping, underground utilities, lighting, multi-use trail and bike lane.</p> <p>This project is anticipated to divert approx. 4,800 weekday trips and 6,100 weekend trips from the already over capacity PCB Parkway in this section as well as improve the LOS for the intersection of SR 79 and PCB Parkway from D to C in the AM peak period. Reduction of 25% in turning movements onto PCB Parkway and SR 79.</p>	<p>This project is anticipated to divert approx. 4,800 weekday trips and 6,100 weekend trips from the already over capacity PCB Parkway in this section as well as improve the LOS for the intersection of SR 79 and PCB Parkway from D to C in the AM peak period. Reduction of 25% in turning movements onto PCB Parkway and SR 79.</p>	\$10,900,000.00	
INTR015A	Infrastructure Branch	Back Beach Road Extension	<p>Extend the current road. Alleviate Traffic on Back Beach Road.</p>	<p>Alleviate Traffic on Back Beach Road</p>		
INTR016A	Infrastructure Branch	Gulf Coast Parkway	<p>Construct an arterial highway from Port St. Joe and Mexico Beach to U.S. 231 north of Panama City Distribution Center.</p> <p>Enhance transportation connection to Gulf County and eastern Bay County promoting increased development. Provide a by-pass to Tyndall AFB reducing traffic congestion and conflicts with Tyndall AFB operations. Provide greater evacuation route capacity.</p>	<p>Enhance transportation connection to Gulf County and eastern Bay County promoting increased development. Provide a by-pass to Tyndall AFB reducing traffic congestion and conflicts with Tyndall AFB operations. Provide greater evacuation route capacity.</p>		
INTR017A	Infrastructure Branch	Tyndall Parkway through Tyndall Air Force Base	<p>The Florida Department of Transportation, in cooperation with the Federal Highway Administration (FHWA) and the U.S. Department of Defense at Tyndall Air Force Base, is making improvements to SR 30 (US 98) Tyndall Parkway through Tyndall Air Force Base in Bay County. The project (Project No. 431684-1) involves a one-mile segment of US 98 centered at the intersection of US 98 and Airey Avenue/Tyndall Drive at the Tyndall AFB main gate. The proposed improvements include a new intersection configuration to separate Tyndall AFB traffic from through traffic and an overpass at Louisiana Avenue to improve on-base traffic flow.</p> <p>The project will necessitate the relocation of approximately 2,654 feet of 20" potable water main owned by Bay County and serving both Tyndall Air Force Base and the City of Mexico Beach. The estimated cost of that relocation is \$1,500,000.00.</p>	<p>When completed, the project is expected to reduce vehicle queuing and delay on US 98 entering the base, and allow access between the support side (south of SR 30) and the Flightline side (north of SR 30) without the need to exit and re-enter security.</p>		
INTR018A	Infrastructure Branch	Crosswind Runway at Northwest Florida Beaches International Airport (ECP)	<p>Crosswind Runway at ECP to further develop aviation opportunities in our Region.</p> <p>The crosswind runway is a planned 7,500 ft. runway located at ECP, which would allow additional access to the airport in differing weather conditions. The runway would facilitate airport development on the east side of the airport and would allow for continued aviation development in the Region.</p>	<p>The crosswind runway is a planned 7,500 ft. runway located at ECP, which would allow additional access to the airport in differing weather conditions. The runway would facilitate airport development on the east side of the airport and would allow for continued aviation development in the Region.</p>	\$45,000,000.00	

Idea ID	Branch	Project Name	Project Description	Impact to Community	Project Est. Cost	Comments
INTR019A	Infrastructure Branch	Tarp-It	<p>Get information out to debris removal companies and to the public, to tarp their loads of debris before travel.</p> <p>This will help ensure the roadways and vehicles on the roadway, remain safe and help keep debris out of the roadway.</p>	This will help ensure the roadways and vehicles on the roadway, remain safe and help keep debris out of the roadway.		
INTR020A	Infrastructure Branch	ROW Acquisition & Construction of East Avenue Improvements	FDOT has funded a PD&E study to improve East Avenue but the ROW and construction phases are not funded.	East Avenue will be prime for the new East Terminal and for Eastern Shipbuilding Nelson Yard. It will also provide relief to US 231.		
INUT001A	Infrastructure Branch	Bay County Utility Remote Sites Communication and Telemetry	<p>Install communication and telemetry at all water and wastewater remote sites including pumping stations, storage tanks, and lift stations.</p> <p>This project will allow the water and wastewater treatment plants to communicate and control the remote sites at all times. Specifically during storms, allow water and wastewater pumping stations to continue to move water and wastewater through the distribution and collections systems minimizing loss of critical services.</p>	This project will allow the water and wastewater treatment plants to communicate and control the remote sites at all times. Specifically during storms, allow water and wastewater pumping stations to continue to move water and wastewater through the distribution and collections systems minimizing loss of critical services.	\$5,000,000.00	
INUT002A	Infrastructure Branch	Critical Facility Utility and Communication Infrastructure	<p>Establish and maintain dedicated and/or redundant utility and communication infrastructure to critical facilities such as Emergency Operations Centers, Hospitals, Shelters and Government Facilities.</p> <p>As witnessed during Hurricane Michael; critical facilities, such as Emergency Operations Centers, Hospitals, Shelters and Government Facilities were unable to provide necessary services due to the lack of power, water, wastewater and communication. By establishing and maintaining dedicated and/or redundant infrastructure, this project will ensure the sustainability of essential services to the community in times of need.</p>	As witnessed during Hurricane Michael; critical facilities, such as Emergency Operations Centers, Hospitals, Shelters and Government Facilities were unable to provide necessary services due to the lack of power, water, wastewater and communication. By establishing and maintaining dedicated and/or redundant infrastructure, this project will ensure the sustainability of essential services to the community in times of need.		
INUT003A	Infrastructure Branch	Providing or assisting municipalities with dedicated infrastructure or looped infrastructure to critical facilities (i.e., EOC, hospitals, military bases, etc.)	Project would protect critical infrastructure			
INUT004A	Infrastructure Branch	Bay County Lift Station Bypass Pumps and Generators	<p>Install backup bypass pumps and/or generators at all lift stations in the Bay County collection system.</p> <p>This project will ensure that the lift stations will continue to pump wastewater in the event of a loss in commercial power, significantly minimizing the potential for sewer backups and overflows.</p>	This project will ensure that the lift stations will continue to pump wastewater in the event of a loss in commercial power, significantly minimizing the potential for sewer backups and overflows.	\$4,000,000.00	

Idea ID	Branch	Project Name	Project Description	Impact to Community	Project Est. Cost	Comments
INUT005A	Infrastructure Branch	Septic System Incentive Program	Incentive program (perhaps under a new state program now being considered in legislature) to connect all septic systems in the areas hardest hit by the storm to sewer lines.			
INUT006A	Infrastructure Branch	Removal of active sewer lines along the bay shore	<p>There is a stretch of sewer line with manholes that runs along the bay shore West of Michigan and south of 16th St. Sewage should be rerouted away from the bay's edge. Untreated sewage has discharged from the manhole on numerous occasions, including over several days after Hurricane Michael.</p> <p>This project would result in a cleaner bay, with less chance of costly environmental violations by the City.</p>	A cleaner bay, less chance of costly environmental violations by the City.		
INUT007A	Infrastructure Branch	Sewer Line expansion/Improvement through Tyndall that leads to Mexico Beach	The sewer line for Mexico Beach that runs through Tyndall needs to be expanded/improved. Growth in Mexico Beach prior to Michael caused there to be a serious strain on the system.			
INUT008A	Infrastructure Branch	Deerpoint Lake Protection Zone Septic to Centralized Sewer	This project consists of providing a centralized sewer system within the western portion of the Deerpoint Lake Protection zone. The installation of this project will also provide the backbone for future phases of septic to sewer transition.	Approximately 50 million gallons per day of water is pumped from the Deerpoint Lake, which is the main source of all drinking water for Bay County. In addition to supplying drinking water, between 500 million and 1 billion gallons per day of fresh water spills over Deerpoint Dam into North Bay and subsequently into St. Andrews Bay. The quality of this water is extremely important to the sensitive ecological balance of the bay systems. As a result of the absence of a centralized sewer system, there is a high density of septic tanks located within the Deerpoint Lake Protection Zone. A large percentage of the septic tanks in this area are old, failing, and/or do not meet the current standard for construction. This allows high levels of nutrients and bacteriological pollution to infiltrate Deerpoint Lake. As a result of septic tank removal, the water quality of the Deerpoint Lake Reservoir, North Bay and the entire St. Andrew Bay system will be greatly improved by reducing nutrient loading and bacteriological pollution. The installation of this project will also provide the backbone for future phases of septic to sewer transition.	\$11,000,000.00	
INUT009A	Infrastructure Branch	Policies to Reduce Impervious Surfaces	Adopt policies about reducing impervious surfaces and begin conversion to pervious surfaces in key watersheds that are directly affecting the bay.			

Idea ID	Branch	Project Name	Project Description	Impact to Community	Project Est. Cost	Comments
INUT010A	Infrastructure Branch	Grand Lagoon Sewer System	<p>Project builds upon the previously-completed first phase of a program to provide a centralized wastewater system to eliminate septic tanks in the environmentally- sensitive Grand Lagoon estuary. Seven independent phases are contemplated.</p> <p>This program will provide for protection and long-term improvement of the Grand Lagoon estuary water quality. Improved water quality enhances the attraction and beneficial use/enjoyment of the lagoon area by County residents and visitors. A centralized sewer system eliminates marginally treated septic system discharges.</p>	<p>This program will provide for protection and long-term improvement of the Grand Lagoon estuary water quality. Improved water quality enhances the attraction and beneficial use/enjoyment of the lagoon area by County residents and visitors. A centralized sewer system eliminates marginally treated septic system discharges.</p>	\$19,300,000.00	
INUT011A	Infrastructure Branch	PCB Laguna Beach Sewer System	<p>Over 1,250 residential homes and vacant lots in the Laguna Beach community near the Gulf would be served by a new gravity sewer system in unincorporated Bay County, eliminating the necessity of septic tanks from the area.</p> <p>Residents will be provided a means to eliminate the use of septic tanks, reducing the environmental impacts on three inland dune lakes and the Gulf of Mexico. Roads within the project area will be repaved as a part of the project. Larger homes would be possible since the small lots would not be limited by septic drain field area reqmt's.</p>	<p>Residents will be provided a means to eliminate the use of septic tanks, reducing the environmental impacts on three inland dune lakes and the Gulf of Mexico. Roads within the project area will be repaved as a part of the project. Larger homes would be possible since the small lots would not be limited by septic drain field area reqmt's.</p>	\$9,320,000.00	
INUT012A	Infrastructure Branch	Bay County North Bay Water Treatment Plant	<p>Design and construct a new 30 MGD water treatment plant in the northwestern area of the county.</p> <p>The current Water Treatment Plant is a 60 MGD treatment facility located on Transmitter Road. Bay County's Water Treatment Plant is the sole producer of all treated drinking water for Panama City Beach, Panama City, Springfield, Callaway, Parker, portions of Lynn Haven, Tyndall Air Force Base, Mexico Beach, and unincorporated Bay County. In order to deliver treated water to the north and western areas of the county, large infrastructure must cross several critical water bodies. A second water treatment plant would provide a redundant treated water source for the entire county should the current water treatment plant be compromised and would more efficiently and effectively service the north and western areas of the county where significant growth and development is planned.</p>	<p>The current Water Treatment Plant is a 60 MGD treatment facility located on Transmitter Road. Bay County's Water Treatment Plant is the sole producer of all treated drinking water for Panama City Beach, Panama City, Springfield, Callaway, Parker, portions of Lynn Haven, Tyndall Air Force Base, Mexico Beach, and unincorporated Bay County. In order to deliver treated water to the north and western areas of the county, large infrastructure must cross several critical water bodies. A second water treatment plant would provide a redundant treated water source for the entire county should the current water treatment plant be compromised and would more efficiently and effectively service the north and western areas of the county where significant growth and development is planned.</p>	\$50,000,000.00	

Idea ID	Branch	Project Name	Project Description	Impact to Community	Project Est. Cost	Comments
INUT013A	Infrastructure Branch	Bay County Water Treatment Plant Critical Structures Hardening	<p>Harden critical structures at the Bay County Water Treatment Plant to withstand wind loads of up to 184 mph (Miami-Dade code).</p> <p>As a result of Hurricane Michael many critical structures at the Water Treatment Plant we severely damaged or destroyed, compromising human safety and the highly sensitive and expensive equipment contained within. Hardening these structure will ensure safety of staff and critical operational equipment during hurricane events, allowing the Water Treatment Plant to continue producing treated drinking water.</p>	As a result of Hurricane Michael many critical structures at the Water Treatment Plant we severely damaged or destroyed, compromising human safety and the highly sensitive and expensive equipment contained within. Hardening these structure will ensure safety of staff and critical operational equipment during hurricane events, allowing the Water Treatment Plant to continue producing treated drinking water.	\$10,000,000.00	
INUT014A	Infrastructure Branch	Bay County Military Point Wastewater Treatment Plant Critical Structures Hardening	<p>Harden critical structures at the Military Point Advanced Wastewater Treatment Plant to withstand wind loads of up to 184 mph (Miami-Dade code).</p> <p>As a result of Hurricane Michael, many critical structures at the Military Point Advanced Wastewater Treatment Plant were severely damaged or destroyed, compromising human safety and the highly sensitive and expensive equipment contained within. Hardening these structure will ensure safety of staff and critical operational equipment during hurricane events, allowing the MPAWT to continue accepting and treating domestic wastewater and preventing sewer backups within the municipal wastewater systems.</p>	As a result of Hurricane Michael many critical structures at the Military Point Advanced Wastewater Treatment Plant were severely damaged or destroyed, compromising human safety and the highly sensitive and expensive equipment contained within. Hardening these structure will ensure safety of staff and critical operational equipment during hurricane events, allowing the MPAWT to continue accepting and treating domestic wastewater and preventing sewer backups within the municipal wastewater systems.	\$5,000,000.00	
INUT015A	Infrastructure Branch	Bay County North Bay Wastewater Treatment Plant Critical Structures Hardening	<p>Harden critical structures at the North Bay Wastewater Treatment Plant to withstand wind loads of up to 184 mph (Miami-Dade code).</p> <p>As a result of Hurricane Michael many critical structures at the North Bay Wastewater Treatment Plant were severely damaged or destroyed, compromising human safety and the highly sensitive and expensive equipment contained within. Hardening these structure will ensure safety of staff and critical operational equipment during hurricane events, allowing the NBWWTP to continue accepting and treating domestic wastewater and preventing sewer backups within the municipal wastewater systems.</p>	As a result of Hurricane Michael many critical structures at the North Bay Wastewater Treatment Plant were severely damaged or destroyed, compromising human safety and the highly sensitive and expensive equipment contained within. Hardening these structure will ensure safety of staff and critical operational equipment during hurricane events, allowing the NBWWTP to continue accepting and treating domestic wastewater and preventing sewer backups within the municipal wastewater systems.	\$3,000,000.00	
INUT016A	Infrastructure Branch	Bay County North Bay Additional Water Storage	<p>Design and construct additional treated water ground storage tanks in the north and western areas of the county.</p> <p>Additional ground storage tanks will provide additional capacity in the wholesale water distribution system and significantly decrease the possibility of service interruptions should the water treatment plant be compromised or when water line service repairs are needed.</p>	Additional ground storage tanks will provide additional capacity in the wholesale water distribution system and significantly decrease the possibility of service interruptions should the water treatment plant be compromised or when water line service repairs are needed.		

Idea ID	Branch	Project Name	Project Description	Impact to Community	Project Est. Cost	Comments
INUT017A	Infrastructure Branch	Bay County Subaqueous Potable Water Main at Hathaway Bridge	<p>Design and construct a new subaqueous potable water main underneath St. Andrews Bay at Hathaway Bridge. The existing water main was installed inside of the bridge during its construction in 2003 and supplies all potable water to eastern Panama City Beach. As a result of bridge movement, the water main is failing.</p> <p>The proposed subaqueous water main will ensure the delivery of potable water and the viability of Panama City Beach. Reduce the potential negative traffic impacts to the Hathaway Bridge, which is the only connection from Panama City Beach to Panama City and visa versa. Approximately 70,000 vehicles per day cross Hathaway. Panama City Beach is a major economic driver for Bay County and accounts for approximately \$2.5B in economy sales revenue. Panama City Beach is a major tourist destination that receives approximately 17 million visitors annually. Ensuring the delivery of sufficient quantity and quality of potable water is critical to maintaining the viability of the tourism industry.</p>	The proposed subaqueous water main will ensure the delivery of potable water and the viability of Panama City Beach. Reduce the potential negative traffic impacts to the Hathaway Bridge, which is the only connection from PC Beach to Panama City and visa versa. Approximately 70,000 vehicles per day cross Hathaway. Panama City Beach is a major economic driver for Bay County and accounts for approximately \$2.5B in economy sales revenue. Panama City Beach is a major tourist destination that receives approximately 17M visitors annually. Ensuring the delivery of sufficient quantity and quality of potable water is critical to maintaining the viability of the tourism industry.	\$8,000,000.00	
INUT018A	Infrastructure Branch	Bay County Subaqueous Potable Water Main at Dupont Bridge	<p>Design and construct a new subaqueous potable water main underneath East Bay at Dupont Bridge. The existing water main was installed on the bridge structure in 1966 and supplies all potable water to Tyndall Air Force Base and Mexico Beach.</p> <p>The proposed subaqueous water main will ensure the delivery of potable water and the viability of Tyndall AFB and Mexico Beach. Reduce the potential negative traffic impacts to the Dupont Bridge, which is the only connection from Tyndall/Mexico Beach to Bay County and visa versa. Tyndall AFB is a major economic driver for Bay County and has committed to spend \$3B to rebuild the base as one of the most advanced and premier military bases in the country. Ensuring the delivery of sufficient quantity and quality of potable water is critical to maintaining the viability of the Tyndall AFB.</p>	The proposed subaqueous water main will ensure the delivery of potable water and the viability of Tyndall AFB and Mexico Beach. Reduce the potential negative traffic impacts to the Dupont Bridge, which is the only connection from Tyndall/Mexico Beach to Bay County and visa versa. Tyndall AFB is a major economic driver for Bay County and has committed to spend \$3B to rebuild the base as one of the most advanced and premier military bases in the country. Ensuring the delivery of sufficient quantity and quality of potable water is critical to maintaining the viability of the Tyndall AFB.	\$8,000,000.00	
INUT019A	Infrastructure Branch	Bay County Subaqueous Raw Water Main at Deerpoint Dam	<p>Design and construct a new subaqueous raw water main underneath Deerpoint Reservoir at the Deerpoint Dam. The existing raw water main was installed on the dam structure and transports raw water from Econfina Pumping Station to the Water Treatment Plant.</p> <p>The proposed subaqueous water main will provide redundancy at this critical water crossing to ensure the delivery of raw water from Deerpoint Reservoir to the Water Treatment Plant. Bay County's Water Treatment Plant produces all treated drinking water for Panama City Beach, Panama City, Springfield, Callaway, Parker, portions of Lynn Haven, Tyndall Air Force Base, Mexico Beach, and unincorporated Bay County.</p>	The proposed subaqueous water main will provide redundancy at this critical water crossing to ensure the delivery of raw water from Deerpoint Reservoir to the Water Treatment Plant. Bay County's Water Treatment Plant produces all treated drinking water for Panama City Beach, Panama City, Springfield, Callaway, Parker, portions of Lynn Haven, Tyndall Air Force Base, Mexico Beach, and unincorporated Bay County.	\$5,000,000.00	

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INUT020A	Infrastructure Branch	Panama City Beach East-West Water Connection	<p>The Bay County Water Treatment Plant supplies potable water to the City of Panama City Beach by way of two main points of delivery, St. Andrews Bay at Hathaway Bridge and West Bay at SR 79. PC Beach's current retail water infrastructure does not support supplying potable water to eastern PC Beach from West Bay or visa versa. Design and construct a water distribution system to support maximum distribution from one side of the island to the other in the event that one point of delivery is compromised.</p> <p>Panama City Beach is a major tourist destination that receives approximately 17 million visitors annually and is a major economic driver for Bay County and accounts for approximately \$2.5B in economy sales revenue. This project will further ensure the delivery of potable water and the viability of Panama City Beach.</p>	Panama City Beach is a major tourist destination that receives approximately 17M visitors annually and is a major economic driver for Bay County and accounts for approximately \$2.5B in economy sales revenue. This project will further ensure the delivery of potable water and the viability of Panama City Beach.		
INUT021A	Infrastructure Branch	West Side Water Treatment Plant	<p>Construct a water treatment plant on the west side of Deerpoint Lake to provide potable water to the west side of Bay County and Panama City. Currently there is a single water line from the Deerpoint Reservoir to the existing water plant from which all citizens receive their water.</p> <p>Currently there is a single water line from the Deerpoint Reservoir to the existing water plant from which all citizens receive their water. A second supply line and WTP is required to support county development and provide a second means of providing potable water to the county.</p>	Currently there is a single water line from the Deerpoint Reservoir to the existing water plant from which all citizens receive their water. A second supply line and WTP is required to support county development and provide a second means of providing potable water to the county.		
INUT022A	Infrastructure Branch	County-wide optical infrastructure to connect to Florida LambdaRail (FLR)	<p>Install optical infrastructure capable of working at and through FLR which would be available to both the public and private sectors.</p> <p>Promote economic development and enhance operations of public institutions including military installations.</p>	Promote economic development and enhance operations of public institutions including military installations.		
INUT023A	Infrastructure Branch	Increased Communications Fiber Redundancy and Reliability	<p>Install buried fiber along separate routes--one via Pensacola and one via Tallahassee. Current fiber links are both along Hwy 20 right-of-way, east to Tallahassee.</p> <p>Separate redundant routes will reduce risk of mass communications service loss and improve data management efficiency via routing options.</p>	Separate redundant routes will reduce risk of mass communications service loss and improve data management efficiency via routing options.		
INUT024A	Infrastructure Branch	High speed internet for all of Bay County and super high speed internet for High Tech Industrial Park	Provide high speed internet to rural communities.			
INUT025A	Infrastructure Branch	Separate transmission line into the base for electrical needs	Securing a separate electrical transmission line into the base for its electric needs - currently it has service by two separate entities but they come in on the same lines.			

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INUT026A	Infrastructure Branch	Bring Back the Stars!—via Reduction of Light Pollution	<p>Through example and incentives, Cities and the County can begin to reduce unnecessary night light pollution by following FWC’s document labeled “Rebuild with Wildlife in Mind” (attached) and examples given on International Dark-Sky Associations (<a href="https://www.darksky.org">https://www.darksky.org</a>) website. At minimum switching from higher color temperature to a lower color temperature light as they are less harsh and therefore less harmful to human health and the natural environment (sea turtles, Panama city crayfish, migratory birds, etc.).</p> <p>Light pollution affects us all! Improved human health, human safety, wildlife behavior, and reduced energy consumption. Specifically adopting Dark Skies Initiatives will:</p> <p>1) Reduce energy waste—Its estimated that about 35% of light is wasted;</p> <p>2) Reduce crime and increase safety—studies show either equal or increased crime in areas brightly lit at night;</p> <p>3) Reduce light pollution effects on wildlife and natural habitats (reduce sea turtle and bird migration disorientations to name a few—deadly to both);</p> <p>4) Improve human health--Studies report that exposure to artificial light at night can harm your health by altering natural light-dark cycles.</p>	<p>Light pollution affects us all! Improved human health, human safety, wildlife behavior, and reduced energy consumption. Specifically adopting Dark Skies Initiatives will:</p> <p>1) Reduce energy waste—Its estimated that about 35% of light is wasted.</p> <p>2) Reduce crime and increase safety—studies show either equal or increased crime in areas brightly lit at night</p> <p>3) Reduce light pollution effects on wildlife and natural habitats (reduce sea turtle and bird migration disorientations to name a few—deadly to both);</p> <p>4) Improve human health--Studies report that exposure to artificial light at night can harm your health by altering natural light-dark cycles.</p>		
INUT027A	Infrastructure Branch	Millville Wastewater Treatment Plant Relocation	Move it off the waterfront to an inland industrial area.	Cleaner Watson Bayou. Remove a dilapidated, antiquated, failing system. Help the Millville area improve.		
	Infrastructure Branch	Fix.Thomas.Drive	Bury utilities, add separate bike/pedestrian path (30A style) and install adequate lighting on the full length of Thomas Drive (Hwy. 98 to Joan Ave). Use funds currently earmarked for Thomas Drive culvert project to leverage grant/recovery funding and coordinate with Sewer Expansion project for efficiency and to leverage additional funding.	As the primary road of one of the most important tourism corridors in Bay County, this project is vital to the long-range goal of revitalizing the east end of the island and creating an inviting corridor for locals and visitors to explore the Grand Lagoon.		Thomas Drive is PCB's original tourism corridor, a primary evacuation route and the lifeline of the Grand Lagoon. The requested improvements will affect immediate positive change and transform Thomas Drive into a strong foundation that can support a long term revitalization plan for the Grand Lagoon.
	Infrastructure Branch	Grand Lagoon Stormwater Management/Sewer Expansion	Expand and improve the existing sewer system in the Grand Lagoon to protect our economy and ecology. Updated sewer system would improve stormwater/wastewater management, lessen dependence on septic systems and improve health of the Bay, a critical initiative in creating a sustainable future for the Grand Lagoon and St Andrews Bay.	The health of the St. Andrews Bay is paramount to the vitality of the Grand Lagoon area and the quality of life for its residents and visitors. The increasing level of nutrients found in the Grand Lagoon and surrounding bay waters is alarming now and getting worse. A comprehensive and affordable sewer plan would help curb the leaching of nutrients into the lagoon and remove a hindrance to Thomas Drive business development as it is currently cost-prohibitive for businesses to connect to the sewer line.		Implementing this project in conjunction with burying the utilities on Thomas Drive provides a significant cost savings and minimizes impact.
	Infrastructure Branch	Interstate spur				



Idea ID	Branch	Project Name	Project Description	Impact to Community	Project Est. Cost	Comments
	Infrastructure Branch	Hardened sports center at Frank Brown Park	Construct a hardened sports center at Frank Brown Park to act as shelter after the storm.			
	Infrastructure Branch	Widening of West Bay Parkway from two lanes to four				
	Infrastructure Branch	Underground power and communications on Front Beach Road and Thomas Drive				
	Infrastructure Branch	Stormwater project	Awaiting call back from Mayor Hammond with more details (KA 3/25)			
	Infrastructure Branch	Stormwater management	The city would like to have a stormwater study conducted in order to determine the current status and best course of action regarding ditches, holding ponds, and related infrastructure. With massive loss of trees throughout the city, there is major concern about the stormwater system impact to wetlands and the potential flooding of homes.		\$57,000.00	
	Natural & Cultural Resources Branch	St. Andrews State Park Button Bush Trail	Construction of a new boardwalk trail around Button Bush Marsh. Currently there is no trail at that site.	Addition of this new board walk trail will provide access to the natural resources around the marsh. The plan was for a boardwalk in low areas plus an observation deck and at grade trail in higher areas. It would be constructed with accessibility as a goal. Cultural aspects would include excellent birding, photography, and educational interpretive signs to inform visitors. Environmental impact would be to reduce intrusion and trails formed by visitors walking on unmarked trails and damaging natural resources.	\$750,000.00	Yes. It has been identified as a goal by the Friends of St. Andrews State Park in its long range planning. A exploratory engineering feasibility study was done a couple of years ago.
	Natural & Cultural Resources Branch	St. Andrews State Park Gun Mount/Overlook Pavilion	Replacement of the historical World War II Gun Mount/Overlook roof which was totally torn off by the hurricane. The roof was only 2 years old and partially funded by donations to the Friends of St. Andrews State Park, a tax-exempt 501(c)(3) organization. It was a metal roof that met park standards and added to the park aesthetics.	The historical gun mount overlook pavilion was used by the community for viewing the pass, jetty area and gulf, birding, photography, for weddings and also had a kiosk of cultural and educational information about the gun mount.	\$20,000.00	Since the hurricane it was added to the Friends annual/long range planning document
	Natural & Cultural Resources Branch	St. Andrews State Park Turpentine Still	Restoration and repair of the historical turpentine still located in the park.	The historical turpentine still provides an opportunity to explore what once was a working still which was an important cultural aspect of this community. It provides an educational and cultural experience with interpretive signs throughout. Before the hurricane, there were some repairs required and the top floor was closed but after the storm, major work and renovation will be needed. Currently, due to the recent damage, the still is completely closed off to visitors. The goal would be to once again have this as an asset to the park.	\$20,000.00	Since the hurricane it was added to the Friends annual/long range planning

Idea ID	Branch	Project Name	Project Description	Impact to Community	Project Est. Cost	Comments
	Natural & Cultural Resources Branch	St. Andrews State Park 30 foot Landing Craft	30 foot Landing Craft to be used for park operations with the primary use being for operations on Shell Island. Operations at Shell Island include cultural resource monitoring (archeological sites), sea turtle nesting surveys, Choctawhatchee Beach Mouse monitoring ( a federally endangered species), shorebird monitoring, prescribed fire, volunteer work events, and emergency.	The park often responds, alongside first responders, to medical emergencies and missing persons calls at Shell Island and the mainland of St. Andrews State Park. With the park's current equipment, park staff is limited to how many people can respond to these calls and are often unable to respond to calls due to rough waters in and around the shipping channel because the park's current boat can only operate in very calm waters and can only carry one piece of equipment (ATV). A landing craft would enable park staff to operate a vessel in more inclement water conditions and would enable them to carry additional equipment and personnel when responding to emergency situations and providing a greater level of cooperation with FWC, Coast Guard, and Bay County Sherriff's Department. Continues in Comments	\$120,000.00	Value to the Environment With the park's current vessel, high tides and less than ideal water conditions in and around the pass prevent park staff from conducting research and monitoring activities on Shell Island. This could cause imperiled species to be negatively impacted by tides, storms, human interaction, and predators. It also has an impact on research conducted on imperiled species. The landing craft would also help prescribed fire operations become more safe and efficient as it will enable park staff to transport much needed equipment to Shell Island and have water suppression capabilities on the vessel itself. The landing craft would also enhance the park's ability to conduct volunteer work days and perform general beach cleanup more efficiently as large items could be loaded onto the vessel from the beach rather than being dismantled and carried to a boat in small sections. Since the hurricane it was added to the Friends annual/long range planning
	Natural & Cultural Resources Branch	Pickleball at Senior Center	Providing additional designated pickleball courts and an updated recreation facility that would include restrooms, water and lighting by the courts.	This will be a safe haven for residents and tourists during storms and bad weather. It will provide health benefits from the physical activity of the rec complex, both outdoor and indoor. Both children and adults can have sports activities providing comradery and spirit. Revenues will be increased by having local and national tournaments. Visitors will have another venue to use while adding to our revenues of the city establishments.		Yes it has. I want to add the aspect of pickleball to the picture for Growth of our City. Pickleball is the fastest growing sport and has over 3.1 million players. This is the future in sports. Many former snowbirds were unable to visit this year because of responders staying and lack of housing. They moved on this year to the other cities providing pickleball venues. Those cities include our neighbors of Griffin, GA, Biloxi, MS, Naples, and Punta Gorda, FL to name a few. These cities recently have built complexes and are drawing tourists, visiting vacationers and residents. Revenues have increased and charities have benefited by their establishment. Long term economic benefits will be obtained with the building.
	Natural & Cultural Resources Branch	Sunshine Art Center Project Jumpstart Art	An arts program designed to grow the arts in Bay County. Step one is already in progress, getting artists back to work by providing supplies, workshops and opportunities to sell their work. Step two an Art Center on the beach that would act as a hub providing programs and arts opportunities on site and in the community while supporting activities of other arts venues in Bay County.	Attract new businesses by providing cultural opportunities to entice employers to choose Bay County Increase Tourism making Panama City Beach An Arts destination creating events and activities to attract tourist year round. Provide services that would entice seniors to choose our growing retirement communities. Advocate for the arts in school provide art experiences to enhance the quality of experiences for our children		
	Natural & Cultural Resources Branch	PCB Sports Complex Recreation Center	Building of multi use sports fields for the community to help alleviate pressure of Frank Brown Park Fields. Possibly includes an indoor recreation complex for additional sporting events in phase II; basketball, volleyball, band mitten and pickleball. Also to be used as a community shelter during times of emergency weather. Provide community activities, tourist participation and regional/national tournaments.	Provide a needed resource during snowbird, vacationers and local residents. It will provide a place for public usage to obtain physical benefits from exercise. It can provide additional revenue by having local and national tournaments or charity events. Frank Brown Park has limited usage as the children and other activities share the gym, especially when the public schools are not in session, this would be an option.		

Idea ID	Branch	Project Name	Project Description	Impact to Community	Project Est. Cost	Comments
	Natural & Cultural Resources Branch	Property Protection	Plans need to be made to protect property from potential wildfires. With the forest and timber lands damaged as they are, it is primed for wildfires. Plans need to be made to clean up these areas of the large amounts of dead and dying trees. Fire protection methods need to be established In just a short order of time these areas will be infested with bugs/beetles that will cause future problems for the citizens of Bay County and the surrounding areas.	This will prevent further property damage in the future.		
	Natural & Cultural Resources Branch	Deerpoint Lake Cleanup	Deerpoint Lake should be made where it could be "drawn down" so as to kill/destroy the noxious/invasive plant life that now exist. A "drawn down" of at least 4 feet would benefit the entire area. Cleanup of the lake must include removal of trees, and debris, produced by Hurricane Michael. Large areas of the lake which were accessible, prior to the storm, are now blocked and inaccessible.	Increased, and better, water supply. Increase recreational potential. Prevent health issues.		
	Natural & Cultural Resources Branch	Park project	Green spaces downtown plaza area to hold events - how about all those vacant lots near the new city hall - along Jenks Ave-- - almost a mini Central Park- water feature			
	Natural & Cultural Resources Branch	Neighborhood based job training, Maker Space, and Garden	Seek funding to enhance community centers in impoverished neighborhoods with job training for technical careers, access to a “Maker Space,” and a community garden. Offer job training, hands-on tool training (computers to construction) and nutrition and garden training.	Improve employment opportunities; would create a center for neighborhoods; youth and adult opportunities for learning toward a better life; food to counter hunger; entrepreneurship chances.		
	Natural & Cultural Resources Branch	A Call to Action	Research indicates that exposure is key for elections, getting motions passed and other important decisions the general public has a choice in affecting change. I propose we schedule a county wide hour (or hours) in which everyone emails a list of pre-established individuals whether it be politicians, celebrities or news organizations. Let’s rally to get the word out about the state of Bay County and although, we may be small, our voice is just as loud as the larger areas of FL impacted by hurricanes prior	It will draw on cultural and social mechanisms to bring awareness and attention to the state of the county and the help we need financially. It could potentially lead to investments or national attention that mediates other impacts and resources we need.		
	Natural & Cultural Resources Branch	Bay Families with Dogs, Inc.	Provide disaster resiliency, offloading the crowding in other parks after disasters, and reducing post-disaster traffic on our roads. Reduce the number of lost/escaped/injured dogs by giving owners a way to exercise their pets while their yards have compromised fencing. Lessen the strain on local government resources by reducing post-disaster of misplaced and injured dogs. Create a new visitor attraction to help the economy. A dog beach at the park(as is Pensacola)	bringing visitors who look for destinations to take their dogs along, and who will contribute in a positive, family-friendly way to our local economy. Providing a social gathering place for local citizens who have dogs and need to exercise them. Provide exercise and socialization for dogs so that they are better behaved in their homes. Provide activities that will increase adoptions of homeless pets. Increase resiliency during recovery from future disasters by providing additional park space and reducing traffic.		

Idea ID	Branch	Project Name	Project Description	Impact to Community	Project Est. Cost	Comments
	Natural & Cultural Resources Branch	Mexico Beach Restoration Project	Hurricane Michael’s extraordinary combined storm surge and wave action of upwards of 15-20 feet caused significant erosion along the Mexico Beach shoreline. In particular, the dune system was severely impacted, with the main road now vulnerable to future small storm events in many locations. A full beach restoration of the entire 3.0 mile Mexico Beach shoreline from the channel to the Bay County/Gulf County line will consist of beach placement of approximately 1.5 million cubic yards of sand dredged from an offshore sand borrow source. The project will consist of a beach berm averaging 150 feet wide and an upland double dune system, with 95 cy/ft being placed.	The beach restoration project will provide critical upland storm protection to upland structures and infrastructure such as the road and utilities. Secondary benefits include providing recreational beach space and habitat for endangered species. From a social standpoint, the restored beach will serve as a focal point for recovery, providing the physical and economic justification for the redevelopment and revitalization of the community. It will also grow local and state revenues, help to restore property values, encourage tourism, and provide jobs.	\$25,000,000.00	Per a recommendation from the 2017 Feasibility Study, Mexico Beach, Florida Beach Restoration and Inlet Bypassing study undertaken by the Mexico Beach Community Development Council, the City of Mexico Beach had nearly completed state and federal permitting of a truck haul sand bypass project. The state permit is in hand, with the federal permit not far behind. The project, while smaller in scope, would transfer sand that accumulates and is dredged from near and in the Mexico Beach channel to the critically eroded portion of the 3-mile adjacent shoreline. The project needs are now much greater given the level of erosion inflicted by Hurricane Michael.
	Natural & Cultural Resources Branch	Panama City Beach Shore Protection Project	Hurricane Michael’s combined storm surge and wave action caused erosion of approximately 650,000 cy along the 18.5-mile Panama City Beaches Federal Shore Protection Project. This sand loss must be replaced to restore the project to the desired level of upland protection. The U.S. Army Corps of Engineers’ (USACE) preliminary calculations indicate approximately 1.2 million cy will be needed over the 18.5-mile project area to restore the project to its full benefit. It is anticipated that the project will be contracted, built, and managed by the USACE. The offshore sand borrow sources have already been identified and fully permitted.	The beach restoration project provides critical upland storm protection to upland structures and infrastructure such as the road and utilities, and it must be maintained to achieve these benefits. Secondary benefits include providing recreational beach space and habitat for endangered species. It also grows local and state revenues, helps to maintain property values, encourages tourism, and provides jobs.	\$30,000,000.00	The Panama City Beach Shore Protection Project is well established, with the program really ramping up after Hurricane Opal struck in 1995. The project was initially constructed in 1998/99 and has been renourished three times since then – 2005/06 (project-wide), 2011 (hot spot), and 2017(hot spot). The Bay County Tourist Development Council manages the beach renourishment program on behalf of Bay County. It maintains current permits for future beach renourishment construction, including identified offshore sand borrow sources, and conducts all required yearly monitoring. The 2017 construction project provided beach renourishment to 4 identified “hot spot” areas totaling approximately 4 miles along the 18.5-mile project. Due to the health of the beach when Hurricane Michael struck, no structure or infrastructure damage was suffered by the upland due to Hurricane Michael’s storm surge and wave action along Panama City Beach.
	Natural & Cultural Resources Branch	Community Heart & Soul Project	I was gearing up to help PCGS bring in Orton Family Foundation to do a Community Heart and Soul project before Michael. With the rate of 'project ideas' coming in with folks chiming in on social media, raising the unproductive dialogue, now more than ever, we need to help everyone lead and participate in the way this program does for small communities.	Limitless, quiet the noise, direct the passions, frame the ideas, support the citizens, lay ground work for deciding on all other projects. Bring in other funders. Signals to investors who we are and that we know how to bring in the top ideas.		
	Natural & Cultural Resources Branch	Hire Harriet Tregoning as part of advisory panel	I am an urban planner from Panama City, worked nationally with the leading thinkers about post-disaster efforts. Blending policy, advocacy, design, capacity building, community heart and soul, financing, funding, etc. Please reach out to me so that we can have a series of phone calls about the talented people and impactful funding programs I know about. Harriett is at the top of my dream team list.	The wisdom, skill, agility, connections will be among the highest leverage investment you could make in any one project. Put the experts in the right role (advising, not driving) and they will signal to investors of all kinds that we are making some very smart moves. <a href="https://kinder.rice.edu/2018/02/19/harriet-tregoning-resiliency-and-planning-expert-offers-insights-for-houston">https://kinder.rice.edu/2018/02/19/harriet-tregoning-resiliency-and-planning-expert-offers-insights-for-houston</a>		
	Natural & Cultural Resources Branch	Rights-of-Ways Cleanup	Plans need to be made to start a continuing project of gathering all of the trash that has been produced by Hurricane Michael. The large equipment can only do so much. There will need to be a plan in place that will pay for manual labor needed to clean up all of the rights-of-ways in the area.	Protection of health and make the area presentable to guests, future businesses and residents.		

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	Natural & Cultural Resources Branch	Ecosystem	Trees create an ecosystem to provide habitat and food for birds and other animals. Trees absorb carbon dioxide and potentially harmful gasses, such as sulfur dioxide, carbon monoxide, from the air and release oxygen. One large tree can supply a day's supply of oxygen for four people.	Better air quality as well as a strong ecosystem for our community.		
	Natural & Cultural Resources Branch	Hertz Lake, Pretty Bayou	This pond, or “Hertz Lake” , is situated behind Oaks Plantation and is connected to Pretty Bayou but unfortunately Has become blocked by debris causing it to become stagnant and now is nearly overgrown with algae, grass and such.	This pond was inhabited by water fowl, those who fish and enjoyed as a natural oasis in the community. We are most concerned that mosquitoes will become unbearable, along with other insects.		
	Natural & Cultural Resources Branch	"Make the Greenprint the Blueprint"	“Make the greenprint the blueprint”—use GIS technology available from places like <a href="https://nemac.unca.edu/about-nemac">https://nemac.unca.edu/about-nemac</a> to design around the amazing natural features of Bay County. Protect and expand natural areas that buffer storm surge, moderate flooding, and provide habitat. Identify areas to prioritize for public land acquisition; protect the watersheds with adequate riparian buffers that can double as recreation/transportation pathways; protect the coast, protect existing parks and greenspaces and try to add a park in every neighborhood.	Taking care of the land, water, and people makes for a place where entrepreneurs and young talent want to be. Protection of "ecosystem services" helps people survive in a future where we expect more challenges to resilience of people and natural areas together.		Scattered efforts--however the entire "greenprint" of the county should be mapped, displayed, and considered. It also assists in reducing costs of hard structure for stormwater treatment. <a href="https://toolkit.climate.gov/tool/guide-assessing-green-infrastructure-costs-and-benefits-flood-reduction">https://toolkit.climate.gov/tool/guide-assessing-green-infrastructure-costs-and-benefits-flood-reduction</a>
	Natural & Cultural Resources Branch	Maker Spaces & Growing Spaces at Community Centers	Seek funding to enhance community centers in impoverished neighborhoods with job training for technical careers, access to a “Maker Space,” and a community garden. Offer job training, hands-on tool training (computers to construction) and nutrition and garden training. Also, the community gardens would offer actual food. Use some of the wood chips to help build soil for gardens.	Give those with fewest life chances actual tools to have better lives.		
	Natural & Cultural Resources Branch	ULI Rose Center for Leadership	The moment the storm hit, I knew our local elected leaders were going to need their own support. That the pressure on them in public to know the answer would burden the process. My colleague Jess Zimbabwe runs a leadership fellowship program for local government officials out of ULI. We've already talked about creating a peer network for any local official who wants starting with a kick off meeting where we'd match ours with her graduates and or officials from other disaster communities. (I immediately reached out to my friend/colleague long time Monroe County Commissioner George Neugent for example. He also sits on Gulf wide BP board. He's game.)	Bring successful peers to our community to bolster the energies and leadership our local officials need in a way that brings it to them, to give them the best opportunity to succeed. This peer group could unfold to be informal- so that our official would have a life line for example, out of the sunshine. Hopefully they might take advantage of the opportunity to join the formal program or one might emerge. It's another setting the table opportunity.		

Idea ID	Branch	Project Name	Project Description	Impact to Community	Project Est. Cost	Comments
	Natural & Cultural Resources Branch	St. Andrews State Park Beach Restoration Project	Hurricane Michael’s combined storm surge and wave caused erosion along the one-mile St. Andrews State Park shoreline. The shoreline is immediately adjacent to the 18.5-mile Panama City Beaches Federal Shore Protection Project, and restoration of the 1-mile park shoreline has become more and more critical. A full beach restoration of the 1-mile shoreline beginning at the federal Panama City Beaches eastern terminus to the jetty at St. Andrews Inlet will consist of beach placement of approximately 600,000 cubic yards of sand dredged from the same offshore sand borrow source already permitted for the Panama City Beaches project. The project will consist of a beach berm averaging 190 feet wide (to tie into the Panama City Beaches project), with 115 cy/ft being placed. It is anticipated that the project can be contracted, built, and managed by Bay County, and significant savings on mobilization/demobilization can be achieved if the project can be bid out at the same time the U.S. Army Corps of Engineers is contracting the Panama City Beaches renourishment project.	The beach restoration project provides critical upland storm protection to upland structures and infrastructure such as the road and utilities, and it must be maintained to achieve these benefits. Secondary benefits include providing recreational beach space and habitat for endangered species. It will also grow local and state revenues, help to maintain property values, encourage tourism, and provide jobs. Finally, St. Andrews State Park is one of the top ten most visited state parks in the State of Florida, with its shoreline in dire need of repair.	\$14,500,000.00	Only just a couple of months prior to Hurricane Michael, the Florida Park Service reached out to the Bay County Tourist Development Council to request assistance in becoming part of the greater 18.5-mile Panama City Beaches renourishment program. The erosion along the St. Andrews State Park shoreline has become more and more critical after many years of continual annual erosion. Preliminary discussions had just begun on the appropriate strategy to incorporate the Park into the greater Panama City Beaches renourishment program when Hurricane Michael struck, causing even more erosion
	Natural & Cultural Resources Branch	Complete Streets	Build “complete streets” with street trees	Improved aesthetics, transportation functionality, and opportunity to introduce street trees along roads that have been eyesores.		
	Natural & Cultural Resources Branch	Philanthropic pursuit	Invest in a development/fundraising effort to acquire more funds from philanthropic sources.			
	Natural & Cultural Resources Branch	Public "map and think" forums with GIS Decision Support	Take time to involve the public in considering plans. Put the geographic features of the place on big screens for all to see and to help inform planning options. Ask consultants to offer various "build out scenarios" that take different approaches to transportation, land conservation, compact vs. dispersed housing density. Consult the many good resources out there, including a detailed analysis of coastal systems and populations from <a href="https://nemac.unca.edu">https://nemac.unca.edu</a>	Seeing the county as a whole in maps provides the spatial evidence helpful to do good planning and generate good ideas.		
	Natural & Cultural Resources Branch	Values2Vision	I am a local retired architect who has developed, along with Hearst Foundation friend, a fun board game that assists people and groups in sharpening their vision. The game also helps others find the tools to share their vision with others effectively in a community building way.	We will initially offer this game free to any group needing guidance. This is a great team building and visioning exercise, locally produced.		We have worked on this project for nearly 2 years and have tested it with groups ranging from college students planning their next step, a college alumni camp in LA, a spiritual retreat, and family reunion.
	Natural & Cultural Resources Branch	Blue Zones	Ask founder of Blue Zones and Dan Burden to work with leaders on developing a set of recommendations on how Recovery can result in Bay County as a Blue Zone. <a href="https://www.bluezones.com/">https://www.bluezones.com/</a>	Quality of life, aging in place population that is healthy and active, connected to outdoor resources, food security, well being. Leverages St. Joe's development in the west by creating a Bay County-wide brand- working all together.		

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	Natural & Cultural Resources Branch	Indoor aquatic center	Build an indoor aquatic center or YMCA with an indoor pool in town. Tear down the Garden Club building and build there or use a vacant lot in downtown PC. The Garden Club area already has parking nearby (dog park) and a great walking park. Keep these amenities but add to the land by building an aquatic center/YMCA with an indoor pool.	If you create a network of public services (library, city hall, county government building) and public spaces (parks, aquatic center/YMCA, walking tracks) near the downtown area, you will encourage more people to move downtown.		
	Natural & Cultural Resources Branch	Conservation, Recreation and Flood Protection	Permanent protection and management of 2,000 acres of targeted forests, fields, and wetlands will simultaneously benefit the Panama City Crayfish (PCC) and will remove regulation, provide flood protection for the community, and filter water that feeds our bay.	Removes the PCC from the U.S. Endangered Species Act (ESA) which removes ESA permitting for development; 2) Provides recreational space for communities, which are compatible with residential areas, future residential and commercial development, and increases property values; and 3) Provides flood relief through stormwater management, which helps keep our yards dry, bay clean, and fisheries healthy.		
	Natural & Cultural Resources Branch	Protecting our Bay, Improving our Economy, and Beautifying Bay County!	Let’s put the “GREEN” into flood control! Create structures to mimic natural water filtration processes, use natural wildlife habitat (such as Panama City crayfish lands) and absorb flood waters via “Green Street Practices”—a term deemed by the U.S. Environmental Protection Agency ( <a href="https://www.epa.gov">https://www.epa.gov</a> ). Permitting and financial incentives at the County and City levels can inspire developers and homeowners to use permeable parking lots, rain gardens (also called bioretention/filtration), bio or vegetative retention swales. Initially we recommend setting the tone by retrofitting City and County Buildings with such features with Green Street Practices but moving towards integration at a County-wide level is ideal especially with new developments.	Protecting St Andrews’ Bay via reducing stormwater runoff wrought with contaminants and debris, direct ties to the health of our economy via improved fishing experiences, water activities, wildlife (dolphins, sea turtles, bird life), visual attractiveness, and our overall quality of life. Reducing the quantity of treated water also saves money. Specifically Green Street Practices		Conservation of the PCC meshes well with stormwater/flood control, passive green and recreational space for the citizens of Bay County. Setting aside lands for just the PCC is under-utilizing the capacity of land easements for our community and the ecosystems they support other than the PCC. Synergy with our proposal for Green Flood control is ideal.
	Natural & Cultural Resources Branch	Bring Back the Stars!—via Reduction of Light Pollution	Through example and incentives, Cities and the County can begin to reduce unnecessary night light pollution by following FWC’s document labeled “Rebuild with Wildlife in Mind” (attached) and examples given on International Dark-Sky Associations ( <a href="https://www.darksky.org">https://www.darksky.org</a> ) website. At minimum switching from higher color temperature to a lower color temperature light as they are less harsh and therefore less harmful to human health and the natural environment (sea turtles, Panama city crayfish, migratory birds, etc.).	1) Reduce energy waste—Its estimated that about 35% of light is wasted. 2) Reduce crime and increase safety—studies show either equal or increased crime in areas brightly lit at night 3) Reduce light pollution effects on wildlife and natural habitats (reduce sea turtle and bird migration disorientations to name a few—deadly to both); 4) Improve human health--Studies report that exposure to artificial light at night can harm your health by altering natural light-dark cycles.		
	Natural & Cultural Resources Branch	Opening of East Pass	Reopen the pass along the historic channel linking St Andrews Pass and the Gulf of Mexico.	Opening East Pass will bring improvements such as but not limited to the estuary; increase marine life, helps with dunes, creates more space for endangered species, and improves the over all quality of the St. Bays estuary’s water. It also provides a secondary access to the Gulf of Mexico that provides for commercial, recreational fisherman and divers. Also Improve water quality in the disturbed costal ecosystem. Improve habitat.		



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	Natural & Cultural Resources Branch	Man in the Sea	A new facility to preserve and interpret the history of how we have learned to live, work and play underwater. Please to expand libraries, archives and international collections through donations from all over the world . This would be in education complex to teach history and activities that have made significant contributions to science engineering, exploration and development of underworld	This is a plan that benefits the entire county. Brings education to the local community and tourism. It also would benefit the colleges. A place for seminars on electronics and a place for research in marine science. A international place to store artifacts. An IMAX theater would give the locals and give both tourists and locals something more to do. Families get out and be a part of the community. Also a center for archival material	\$18,415,000.00	
	Natural & Cultural Resources Branch	Bay County Indoor Recreation Center 1 of 4	Located off of US 231 and Transmitter Road, will serve as a primary shelter during and after storm events impacting Bay County Florida. When not in use as a storm shelter, the Rec Center will be used as an amenity for local residents, as well as used to generate incremental sports tourism demand for Panama City and Lynn Haven. Loosely modeled after the Kenyon College Athletic Center in Gambier Ohio, the Rec Center will include athletic courts, running track, aquatic center, locker rooms, medical facilities, commercial kitchen, small conference rooms and training rooms. The land surrounding the Rec Center will be converted into a public park to assist with storm water mitigation and natural filtration from the nearby water treatment plant and will provide walking and biking paths and other amenities.	See Plan Description. This would be one of four building to provide a variety of benefits to the community. Before , after and during the next storm		
	Natural & Cultural Resources Branch	Downtown Conference Center 2 of 4	Located in the downtown core of Panama City landwardly adjacent to the full-service hotels being developed at the marina. The ground floor will consist of parking, street-front retail space, an entry atrium and loading docks. All of the public assembly and support space will be on the upper floor(s) to mitigate impact from storm surge. The public assembly space will consist of ballrooms, conference rooms, reception areas, commercial kitchen and other amenities traditionally from in full-service conference centers. The facility will be connected to the adjacent hotel(s) by a sky bridge. During a storm event, the conference center will service as the County's business recovery center. The center will also be connected to the County's Internet backbone through an in-ground fiber optic connection to the Government Center.	See Plan Description. This would be one of four building to provide a variety of benefits to the community. Before , after and during the next storm		
	Natural & Cultural Resources Branch	Panama City Beach Special Event Center 3 of 4	Located in the Middle Beach area (Signal Hill or Miracle Strip) will be used as a post-storm shelter for Panama City Beach residents. The ground floor will consist of parking, street-front retail space, an entry atrium and loading docks. All of the public assembly space, except for the arena floor will be elevated to mitigate impact from storm surge. The 250,000 sf facility will consist of an arena, ballrooms, conference rooms, reception areas, commercial kitchen and other amenities traditionally from in full-service special centers. The center will also be connected to the County's Internet backbone through an in-ground fiber optic connection to the Government Center.	See Plan Description. This would be one of four building to provide a variety of benefits to the community. Before , after and during the next storm		



Idea ID	Branch	Project Name	Project Description	Impact to Community	Project Est. Cost	Comments
	Natural & Cultural Resources Branch	Panama City Beach Indoor Sports Center 4 of 4	Located at the Panama City Beach Sports Complex on the east end of the beach, will be hardened to serve as a post-storm shelter for first responders assisting in the recovery efforts. With its proximity and convenient access to the Hathaway Bridge and the proposed Bay Parkway, this Center is uniquely situated to aid communities on both sides of the bridge.			
	Natural & Cultural Resources Branch	Heritage Preservation Plan	Get a City mandated Art Incorporation Clause for new and existing specified areas by adding a EOC that is solely responsible for Historical & Heritage Preservation Including but not limited to murals, sculptures, art inspired landscaping and incorporate local artist work. This plan to keep Heritage sites protected before, during and after the storm. The plan would keep the sites safe, so they are not ruined such as but not limited to. (Governor Stone, Native American Artifacts, Martin Theater) This plan would also support the creation of federally recognized heritage in NW Florida	Preserve the Heritage of the community. This plan would be to keep Heritage sites protected before, during and after the storm. The plan would keep the sites safe, so they are not ruined. Helps education in history ad science which benefits the community and tourist		
	Natural & Cultural Resources Branch	Reforestation Support Plan	This plan is to educate the community in urban forest to aid in stormwater management, visual aesthetics, air quality and temp. moderation. Partner with Arbor day and the Agricultural State Forestry to assist with the planting of non invasive trees to rebuild what was lost. Workshops and events to bring the community together in rebuilding efforts	Gets the community engaged and educated in the correct placement and planting to get the eco system back to conditions pre storm		
	Natural & Cultural Resources Branch	Bay County Reef Restoration	This would be a 3 part plan. 1.) Evaluate and identify Reef Conditions. 2) Restore and rehabilitate the reefs that can rehabilitated. 3) Creation and placement of new artificial reefs.	This plan impacts all of bay county's fishing, diving, marine life and sustainability of the under water eco system.		
	Natural & Cultural Resources Branch	Reef Exploration Program	Develop and identify snorkel reefs to aid in Education and to aid access to our marine environment	This plan will provide residents and visitors another way enjoy our costal and marine resources.		
	Natural & Cultural Resources Branch	Fisherman Directory of Support	To establish a directory of fisherman and deckhand crews to aid in a method of information on financial grants and ways to provide resources after the storm	This is a way to help the local fisherman and crews stay connected and informed on ways they can get monies to continue working and move forward after a natural disaster.		
	Natural & Cultural Resources Branch	Rails to Trails	Identify and establish a way to connect walk ways, bike paths and parks. Identify which Rail roads and no longer being used and turn them in to trails.	Gives the communities a way to connect to each other while giving residents and visitors a way to enjoy Bay County.		
	Natural & Cultural Resources Branch	Costal and Marine Technology Center	A plan to build a multifunctioning innovative center to help commercialize marine centered technologies and develop a interactive, experimental, interpretive education research facility. This could also provide a great way to involve k-12Stem initiatives.	This is a n opportunity to make Bay County the leading research and development for military diving, marine resources, and costal technologies . In addition to that provide a place for locals and people across the country to come, learn and explore.		
	Natural & Cultural Resources Branch	St. Andrews Bay Estuary Plan	The acquisition of land to protect, restore and maintain the quality of natural functions and, water wetland systems. To increase natural resource based public recreational and educational opportunities	Acquiring the project area would contribute to the protection of the natural shoreline, water quality and aquatic resources		

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PLGS001	Planning & Capacity Building Branch	Post-Disaster Recovery Plan	Review existing capability for recovering and redeveloping from major disasters. Address additional capability required to meet post-disaster needs, and opportunities to enhance or improve existing policies to proactively deal with post disaster needs.			BUSINESS RECOVERY CENTERS: This was discussed with the Economic Recovery Branch [HHS Branch also liked this idea and the consensus was that the Schools could be used]. It was discussed that there needs to be one place that the Community could go to get help .
PLGS002	Planning & Capacity Building Branch	Long-Term Community Recovery Plan	Redevelopment efforts of the County, its cities, and Community Redevelopment Agencies could all be coordinated and aligned with their post-disaster redevelopment comprehensive plan goals.			
PLGS003	Planning & Capacity Building Branch	Pre-Disaster and Post-Disaster Recovery Plan	Pre and post-disaster education on temporary permitting procedures that will be in effect post-disaster			BUSINESS RECOVERY CENTERS: This was discussed with the Economic Recovery Branch. It was thought that if there was one location for everyone to go and received training/education on the current situation and how to move forward, it would be beneficial.
PLGS004	Planning & Capacity Building Branch	Land Acquisition and Easement Conservation Project	Acquire lands and conservation easements to help protect natural habitats, resources ad connect natural linkages. Enhance recreational opportunities and expand environmental education.			
PLGS005	Planning & Capacity Building Branch	Building Codes Enhancement	Work with Code Enforcement to enhance the capacity to deal with post-disaster blight and unfit/unsafe structures.			
PLGS006	Planning & Capacity Building Branch	Energy Resiliency Project	Identify and collaborate with LEED-certified organizations that can help bring in energy efficient concepts into the rebuilding process.			
PLGS007	Planning & Capacity Building Branch	Transfer of Development Rights Project	Consider Transfer of Development Rights as an option to encourage relocation out of areas that are highly vulnerable to disaster hazards.			
PLGS008	Planning & Capacity Building Branch	Building Codes Enhancement	Ensure minimum compliance in rebuilding of substantially damaged structures and new construction.			
PLGS009	Planning & Capacity Building Branch	Historic Building Restoration Toolkit	Develop a resource toolkit for property owners with organizations, suppliers, etc. who can assist in the restoration and mitigation of historic properties.			
PLGS010	Planning & Capacity Building Branch	Triage Housing Projects	Triage housing projects from Hurricane Michael damage assessment and repair, elevate or demolish according to property condition and location			This was discussed with the Housing Branch. Ian let Mr. Johnson know that the turn around now for permitting is expediated and really cannot move much quicker. Right now the surveyors are working sunup to sundown Monday through Saturday.
PLGS011	Planning & Capacity Building Branch	Historic Building Mapping Project	Develop and maintain a system to "flag" historically significant properties.			

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PLGS012	Planning & Capacity Building Branch	Historic Building Mapping Project	Maintain a list of archeological and historic resources countywide in the GIS system.			
PLGS013	Planning & Capacity Building Branch	FEMA GIS Mapping	Post flooding events, using damage assessments and geospatial analysis, identify areas that have been repeatedly flooded or are significantly impacted by recent floods . Evaluate them for designation as "adaption action areas" or for implementation of appropriate sea level rise adaption strategies to ensure long-term mitigation.			
PLGS014	Planning & Capacity Building Branch	Redevelopment Plans Analysis of Hazard Vulnerability	When preparing or reviewing redevelopment plans, include an analysis of hazard vulnerability when considering appropriate locations for increased densities and intensities.			
PLGS015	Planning & Capacity Building Branch	Hurricane affected Properties Acquisition	Complete acquisition of properties affected by Hurricane Michael and funded with HMGP Grant.			
PLGS016	Planning & Capacity Building Branch	City of Mexico Beach Comprehensive Plan to update and address post storm issues	Update comprehensive plan to address necessary changes to the Land Development Code related to post storm planning issues.	Will provide for consistency between the Comprehensive Plan and Land Development Code to address redevelopment strategies	\$100,000.00	Possible limited grant funding from the State of Florida
PLGS017	Planning & Capacity Building Branch	City of Mexico Beach Comprehensive Plan to update and address post storm issues	Prepare a complete update to the Land Development Code to address changes that have occurred post storm related to building code changes, flood zone changes, implementing economic development strategies, non-conforming land use and redevelopment.	Will provide a consistent and up to date Land Development Code that can be utilized to assist the City and its citizens in rebuilding the City.	\$200,000.00	Possible limited grant funding from the State of Florida
PLGS018	Planning & Capacity Building Branch	Removal of active sewer lines along the bay shore.	There is a stretch of sewer lines with manholes that runs along the bay shore west of Michigan and south of 16th Street. Sewage should be rerouted away from the Bay's edge. Untreated sewage has discharged from the manhole on numerous occasions, including over several days after Hurricane Michael.	A cleaner bay, less chance of costly environmental violations by the City.		
PLGS019	Planning & Capacity Building Branch	Healthy Bay	Improve stormwater run off so to lessen the amount of stormwater that runs directly into the bay. Initiate programs that help create a cleaner bay through prevention, monitoring and maintenance.			
PLGS020	Planning & Capacity Building Branch	Public Green Space	Create low maintenance green spaces on public property. This can be done on right of ways, existing parks, parking lots, bridges, along sidewalks, street corners, walls and other public property, using trees, bushes, vines, flowers, etc.	We lost a lot of trees and foliage from this storm. The more we can add greenery the better for the environment, the attractiveness of the community and the mental health of the residents.		

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PLGS021	Planning & Capacity Building Branch	Business Signage	Prohibit businesses from using vehicles as their Permanent Business Sign. Many businesses throughout the county park broken down vehicles near the road to advertise their businesses. Most of these vehicle signs are not maintained and become dilapidated very quickly. In order to build a better looking Bay County, a low hanging fruit project would be to prohibit this type of signage.	It will clean up areas near the roadway and ensure businesses use more permanent and appealing signs.		
PLGS022	Planning & Capacity Building Branch	Electric Car Charging Stations for Multi-Family Housing and Gas Stations	Require new multi-family housing developments (apartments and townhomes without garages) and gas stations to add electric car charging stations. With the price of electric cars going down, the number of electric cars will continue to increase. Many apartments and townhome communities do not have access to car charging stations or the ability as a renter or homeowner to install one. For developments that have common spaces, and a large concentration of residents, the need for car charging stations will continue to increase. If not mandatory, maybe this project could be attached to some type of incentive.	This will allow residents and visitors who own electric cars more options when it comes to housing.		

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