

STORMWATER SHORT TERM AND IMMEDIATE ACTION TRACKING

AREA	SUB-AREA	ITEM	STAFF ASSIGNED	CONSULTANT ASSIGNED	STATUS	NOTES
GENERAL		<i>A thorough cleaning and general maintenance of the current systems should be conducted in a manner that documents who, when, and where systems have been checked for maximum operating efficiency. No component of the current system should be assumed to be operating properly until inspections are completed.</i>	GENTRY	NONE	INPROCESS	City Council approved on 7/7. Work started 9/8 and should last about two months, staff will attempt to place the videos online for public review as they become available.
GENERAL		Groundwater level monitoring (Piezometers)	TEL		INPROCESS	Measuring groundwater levels in catch basins currently
GENERAL		Swale plan/driveway culvert cleanup	TEL		STARTED	S. Sunset, Fairpoint, Bear Dr. This will depend on survey data.
GENERAL		Watershed Surveying	VLP	RUBEN	INPROCESS	75% of East Area Complete
EAST	PH	<i>Develop plans to enlarge the existing central holding pond in available area adjoining the existing pond. Capacity gain may be 1/3 or greater from the existing area.</i>	VLP	JEHLE	INPROCESS	PHHOA willing to consent to pond enlargement if required.
EAST	PH	<i>Install a direct connect of the lower pond (bordering James River Rd.) to the hospital retention pond. This will entail obtaining easements and approvals from Baptist Healthcare.</i>	VLP	JEHLE	INPROCESS	BHC has approved interconnect, jhi is in process on the design. BHC will pay 1/3 of cost. <i>Note – The overflow from the main holding pond that James River pond is sized too small to overcome a 200 year event. Assessment should begin to determine the feasibility of enlarging or replacing this pipe. We suspect this project will be long term and expensive, but the initial assessment should be done. Emphasis in the short term should concentrate on enlarging the main pond, with overflow pipe upgrades considered later.</i>
EAST	PH	<i>Equalization pipe that will allow quicker flow from the large pond to the small pond.</i>	VLP		COMPLETE	Install 16" ductile iron connection.
EAST	M/S	<i>ALT 1: Following enlarging the Plantation Hill pond system, connect a discharge from the existing storm water collection system into the Plantation Hill system. The current system without a discharge pipe will serve this area well IF the existing groundwater filtering pipe is discharged continually. The discharge planning may have to include the installation of a lift station, but existing groundwater filtering pipe already in the ground can be effectively utilized.</i>	VLP	JEHLE		Explore redundancy, cost of doing each alternative.
EAST	M/S	<i>ALT 2: Contingency – in the unlikely circumstance Plantation homeowners elect to maintain the status quo of the current facilities and refuse access to the private facilities for the McClure/Shirley area, an alternative engineering plan to discharge the McClure system should be prepared. An alternative for review is to pump southward into the discharge systems that serve Highway 98.</i>	VLP	JEHLE		
EAST	M/S	ALT 3: Forcemain could be directed to the Hospital Pond	VLP	JEHLE		
EAST	M/S	ALT 4: Forcemain could be directed to the Bay Cliffs system once it is directly connected to the Hospital discharge pipe.	VLP	JEHLE		
EAST	BAYCLIFFS	<i>Obtain an easement to immediately discharge the existing Bay Cliffs collection system to the storm pipe running parallel to the subdivision. Ground water elevations will improve and storm event capacity increased.</i>	VLP		INPROCESS	Easement is being negotiated. Will need a "work permit" from Gulf Islands National Seashore (GINS) once the easement is obtained.

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EAST	BAYCLIFFS	Begin an immediate plan to swale/berm/ditch the property bordering Bay Cliffs and the Live Oaks reservation to prevent sheet runoff of water from the Live Oaks reservation now flooding Bay Cliffs. Videos of the runoff from the Live Oaks area have verified the severity of this problem.	VLP	BASKERVILLE	INPROCESS	Baskerville provide quote to complete the design and permit with GINS. With the discharge of groundwater collected in the existing Bay Cliffs underground system going to the outfall line coming from the hospital, AND a berm/swale structure being constructed to impede the runoff from the Naval Live Oaks, the Bay Cliffs area will see appreciable improvement in the event of another major downpour. This will require considerable negotiation with GINS. To approach them with the concept next week.
EAST	BAYCLIFFS	Modify the invert and overflow of the hospital pond. By maintaining the pond level more efficiently, capacity is better utilized. Permission from the hospital will need to be obtained.	VLP		STOPPED	Permit conditions do not allow lowering of pond elevation.
EAST	BAHAMA BAY	Determine causes of flooding and potential solutions	VLP			No Info yet
EAST	HARBORTOWN	Clean and check overflow and interconnecting pipes	VLP			Private System
CENTRAL	D/S	REVISED: Contract will be redesigned to eliminate lift station and place 36" to 42" pipe drained by gravity. Improve upon the existing contract for the storm water contract now underway by engineering additional catch basins for the right of way. The already designed system poised for construction must have homeowner cooperation for easement to the pumping station on Russ Drive.	TEL	HATCH MOTT JEHLE	INPROCESS	The initial survey indicates that the system can be placed as gravity system with 36" or 42" pipe along School property, discharging at or near wetlands. Easements documents in process. Jehle provided quote for completing mainline.
CENTRAL	D/S	REVISED: See above Utilize the existing easement bordering the school property to install added collection of groundwater for discharge into the Russ station. Meetings with school district representatives have already begun and cooperation has been positive.	TEL	HATCH MOTT JEHLE	INPROCESS	See Above. Easements from Dracena have been signed. Easement from Silverthorn is in process.
CENTRAL	D/S	Verify and ensure, pumping capacity of the Russ station is sized at 40hp (2@20 each) or more.	VLP	NONE	DONE	VERIFIED
CENTRAL	Loruna/ Futura /Poincianna	Immediately create a gravity collection point at Loruna and Poincianna, taking the water flow southward to the retention pond existing in Shoreline Park (northern area near Poincianna).	VLP	NONE	INPROCESS	Change order to Utility Service contract estimated at \$50k.
CENTRAL	Loruna/ Futura /Poincianna	Enlarge and lower the pond level in Shoreline Park so its level is lower, creating more capacity and lowering adjoining groundwater levels. City staff has already begun this task.	VLP	NONE	INPROCESS	Lowering of pond 12" is complete. Enlarging not feasible without encroaching on facilities. Staff will solicit quotes to dredge the ponds for better percolation.
CENTRAL	Loruna/ Futura /Poincianna	Install an 18" or greater perf pipe in an area within the Frisbee golf range to act as a groundwater control. Direct flow to the existing pipe that connects to the Community Center lift station. This improvement can be easily constructed on existing city owned property and into existing drainage infrastructure.	VLP	NONE	INPROCESS	Change order to Utility Service contract presented to and approved in concept by City Council and estimated at \$210k. Includes duplicate overflow pipe for Park Pond.
CENTRAL	Loruna/ Futura /Poincianna	Begin engineering and design of added underground drains for tie in to the Loruna catch basin that will drain areas north of Poincianna.	VLP	NONE	INPROCESS	Change order to Utility Service contract.
CENTRAL	BEAR	At approximately 113 Bear Dr, the right of way needs a better contour of the existing topography to allow greater flow into existing basins.	TEL	NONE		The grading and swale plan will be developed for this areas, as well as an extension of the existing system to connect to the back yard of 111 Bear. Pipe size and basin upgrades will included as option in upcoming repaving project.
CENTRAL	BEAR	Thoroughly test the recent repairs on the Bear Drive system to assure the line problem has been fixed.	RDAVIS	NONE	COMPLETE	The test showed no current reductions of flow in the system after the repair. We will be cleaning and video inspecting.

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WEST	WASH	Expand upon the currently engineered plan (soon to be constructed) by adding piping from Navarre St via Norwich that will serve to increase the drainage of Gilmore and San Carlos as well as the south end of Navarre. A design should be drawn that will enable adjoining areas near Gilmore, San Carlos, Norwich, York, or Surrey to have a discharge via Washington. The contracted new storm water project will include a 12" discharge force main line under Shoreline that ultimately will discharge in Regina/Zamara canal. This high capacity line should be utilized to its full capacity without adding other discharge lines that may be unnecessary.	TEL	HATCH MOTT	INPROCESS	Hatch Mott to provide price for surveying extension. Not critical, as existing project will be adjusted to accommodate the pipe extensions.
WEST	WASH	Ensure the planned Washington lift station is sized at 40hp (2@20 each) or better.	TEL	NONE	COMPLETE	VERIFIED
WEST	Dolphin/ Camelia	Upgrade the Camelia/Dolphin catch drains into the existing lift stations adding more from the areas on Dolphin east of the stations. Increase the capacity of the lift stations for greater discharge.	TEL	HATCH MOTT	COMPLETE	This item is currently part of the 2014 Drainage Improvements Project
WEST	Dolphin/ Camelia	Raise the elevation of the electrical panels and replace as needed for higher capacity pump upgrades. This recommendation is already a part of the planned storm water project.	TEL	HATCH MOTT	INPROCESS	Change Order in process
WEST	S. GILMORE	Purchase replacement pump	VLP	NONE	COMPLETE	The pump was received and installed on 7/22/14
WEST	N. GILMORE	New Pump Station, Berry Pond, Gilmore Bayou Discharge	TEL	NONE	INPROCESS	Engineering to prepare preliminary evaluation and fee proposal.
WEST	FAIRPOINT	Low pressure storm pump stations for suspect lots				
WEST	Navarre/ Cameila	Larger inlet throats	TEL	NONE	INPROCESS	Camera work being done today, new inlets worked into the repair of the Navarre/Highpoint system.
WEST		Raise electrical				Gilmore is only station left to consider.
WEST		Hard pipe emergency crossings				