

NAVARRE WATER QUALITY PROGRAM

Project 2: Dirt Road Paving, District 1, District 4, and District 5

Project located throughout the Fairpoint Peninsula in Santa Rosa County

Project 4: Perch Street Septic Tank Abatement

Project 3: Navarre Regional Stormwater Pond Park

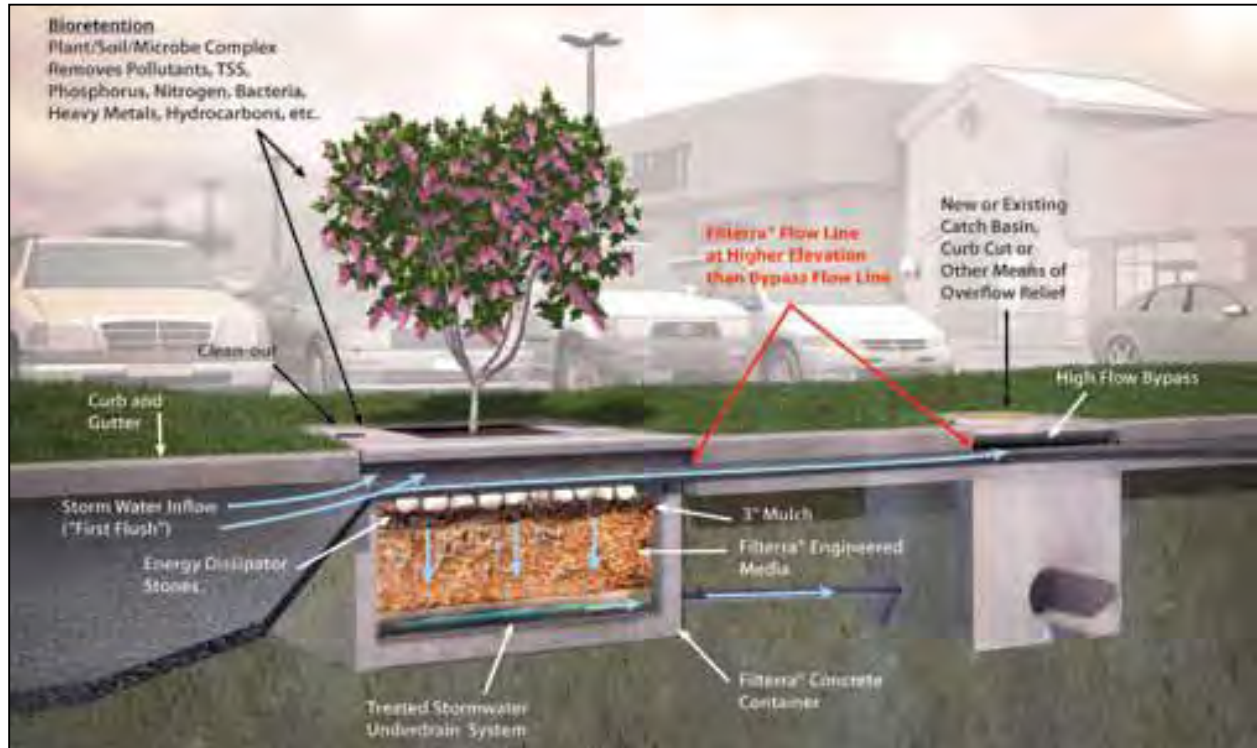
Project 1: Navarre Park Water Quality



PROJECT 1
Navarre Park Water Quality Improvement

Bio-Filtration for Retrofitting an Existing Parking Area – Phase I

(This information is taken from the Contech Engineered Solutions Filterra Bioretention System Solutions Guide.)



Measured Pollutant Removal Performance

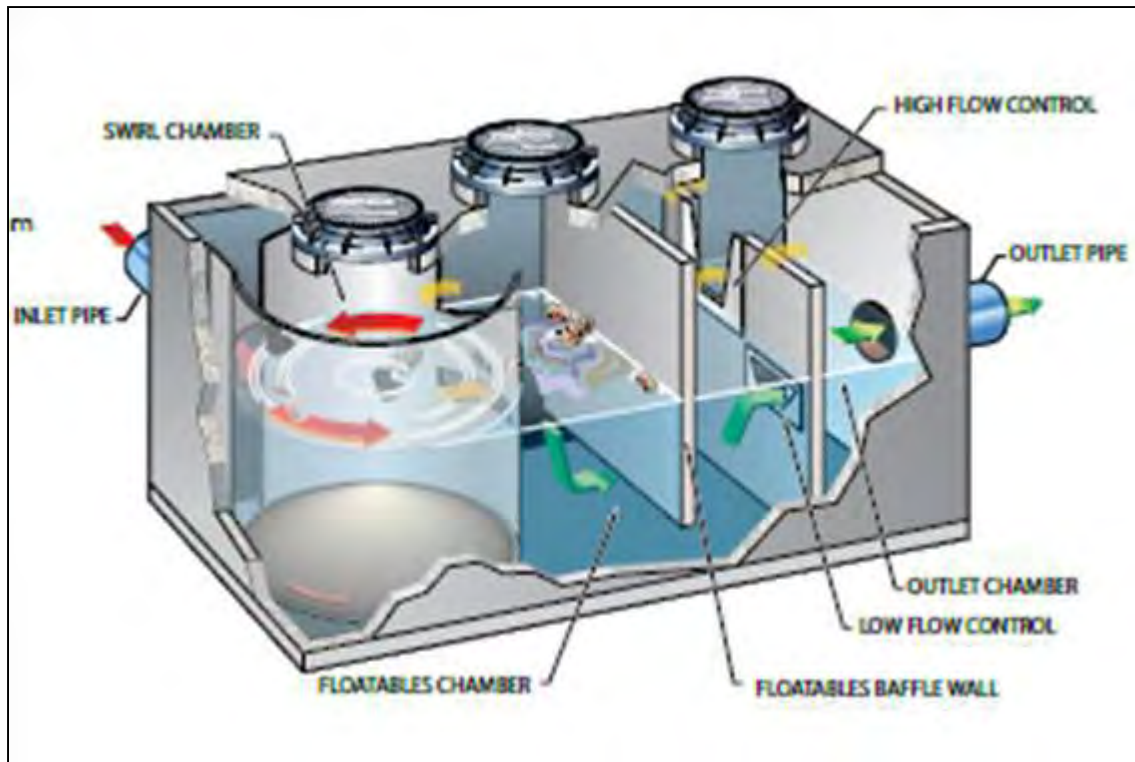
(Ranges varying with particle size, pollutant loading, and site conditions.)

TSS Removal	85%
Phosphorous Removal	70%
Nitrogen Removal	43%
Total Copper Removal	58%
Dissolved Copper Removal	46%
Total Zinc Removal	58%
Oil & Grease Removal	93%

Information on the pollutant removal efficiency of the filter media/plant media is based on third-party lab and field studies. Some jurisdictions recognize higher removal rates – see your Contech Stormwater Consultant for details.

Hydrodynamic Separator for Phase I

(This information is taken from the Contech Engineered Solutions Hydrodynamic Separator brochure.)



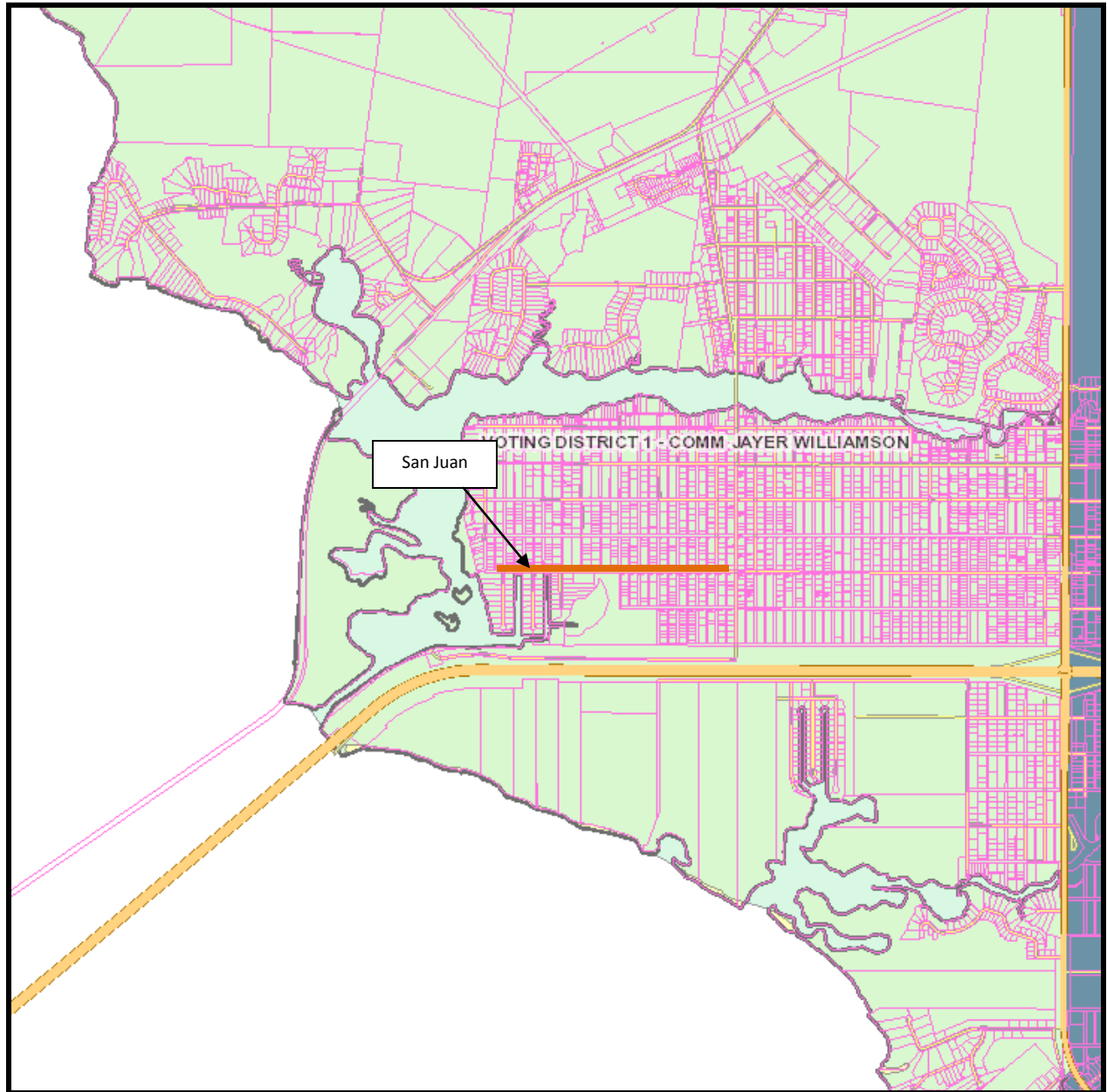
Santa Rosa County
CONSTRUCTION COST ESTIMATE
Navarre Park Stormwater Enhancement Program - Phase I

4/2/2015

		BID PROPOSAL			
NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
EAST PARKING LOT and POND RECONSTRUCTION					
1	MOBILIZATION (COUNTY)	1.00	LS	\$15,000.00	\$15,000.00
2	MOBILIZATION (CONTRACTOR)	1.00	LS	\$20,000.00	\$20,000.00
3	EROSION CONTROL	600.00	LF	\$4.00	\$2,400.00
4	REMOVE 4' HIGH FIBER-BOARD FENCING	655.00	LF	\$1.50	\$982.50
5	RELOCATE COVERED GAZEBO AND PICNIC	1.00	LS	\$1,500.00	\$1,500.00
6	REMOVE CONCRETE RETAINING WALL	655.00	LF	\$10.00	\$6,550.00
7	REMOVE 8' WIDE CONCRETE NATURE	430.00	SY	\$4.00	\$1,720.00
8	EXCAVATION (180' x 115' x 2' deep =	1,533.00	CY	\$6.00	\$9,198.00
9	EMBANKMENT (190' x 125' x 8 'deep =	7,037.00	CY	\$6.00	\$42,222.00
10	CONCRETE SIDEWALK 8' WIDE	200.00	LF	\$32.00	\$6,400.00
11	SOD (419) (240' x 170' = 40,800/9sf/sy =4533)	4,533.00	SY	\$2.50	\$11,332.50
12	IRRIGATION	1.00	LS	\$4,000.00	\$4,000.00
13	MILL ASPHALT (1")	2,400.00	SY	\$4.00	\$9,600.00
14	ASPHALT PAVING (1")	2,400.00	SY	\$6.55	\$15,720.00
15	STRIPING AND MARKING	1.00	LS	\$5,000.00	\$5,000.00
16	HSU/BAYSAVER OR EQUIVALENT	1.00	EA	\$120,000.00	\$120,000.00
17	LANDSCAPE	1.00	LS	\$15,000.00	\$15,000.00
18	DEWATERING	1.00	LS	\$15,000.00	\$15,000.00
Subtotal					\$301,625.00
<u>WEST PARKING LOT</u>					
19	BIO - RETENTION UNITS (Standard 6'x6')	5.00	EA	\$20,000.00	\$100,000.00
20	REMOVE CONCRETE SIDEWALK	380.00	SY	\$3.00	\$1,140.00
21	CONCRETE SIDEWALK (6' WIDE)	570.00	lf	\$25.00	\$14,250.00
22	MILL ASPHALT (1")	3,700.00	SY	\$4.00	\$14,800.00
23	TYPE F CURB AND GUTTER (6' WIDE)	640.00	LF	\$18.00	\$11,520.00
24	ASPHALT PAVING (1")	3,700.00	SY	\$6.55	\$24,235.00
25	STRIPING AND MARKING	1.00	LS	\$10,000.00	\$10,000.00

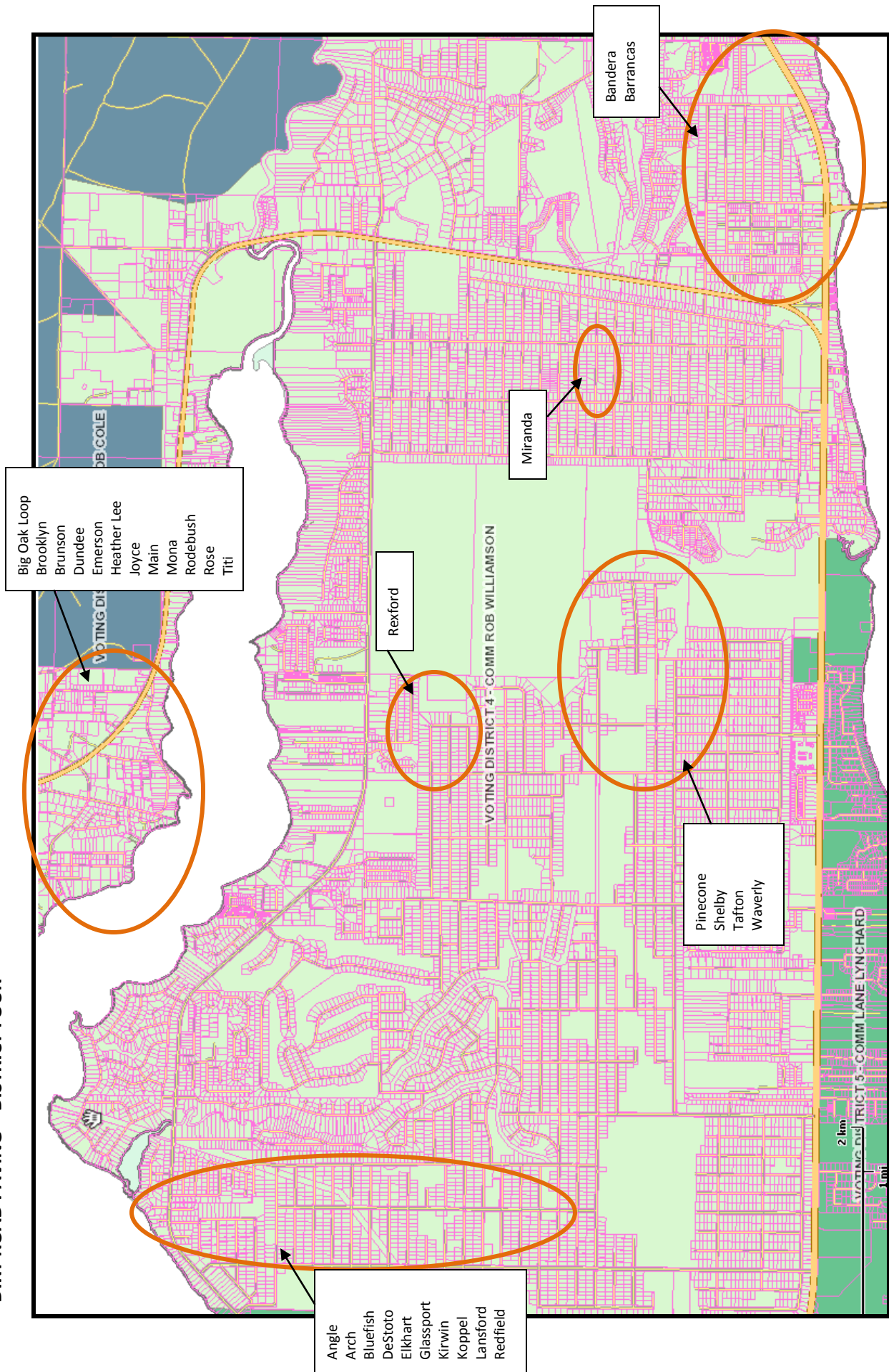
26	4" SDR -35 PVC	400.00	LF	\$15.00	\$6,000.00
27	LANDSCAPE	1.00	LS	\$20,000.00	\$20,000.00
Subtotal					\$201,945.00
	ESTIMATED CONSTRUCTION COST				\$503,570.00
	IN-HOUSE ENGINEERING (Engineering, Geotech, & CE&I)			15%	\$75,535.50
	VACUUM TRAILER EXCAVATOR (3000 CFM BLOWER)	1	UNIT	\$ 180,000.00	\$180,000.00
TOTAL					\$759,105.50
County Matching Work					\$372,248.00
Contractor Total (Yellow)					\$386,857.50

DIRT ROAD PAVING – DISTRICT ONE



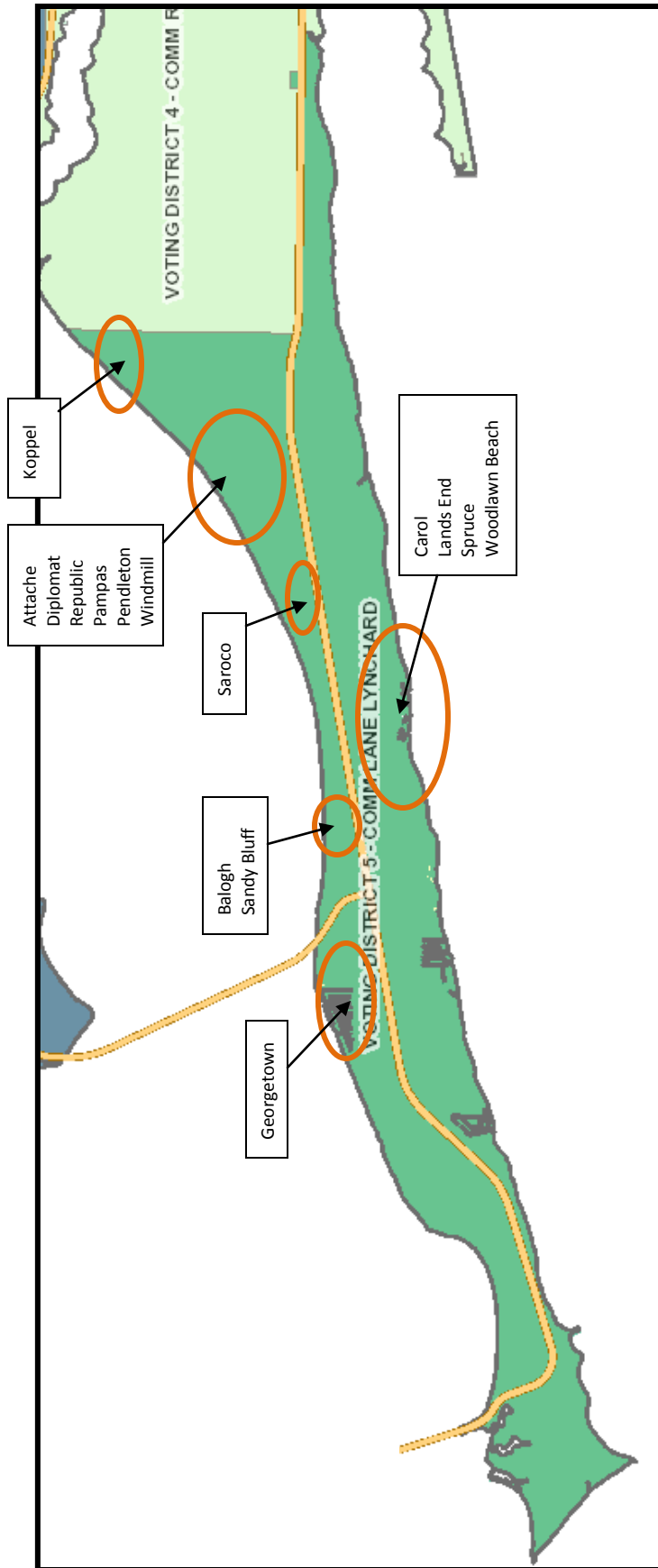
— Proposed paving site

DIRT ROAD PAVING – DISTRICT FOUR



General location of proposed paving

DIRT ROAD PAVING – DISTRICT FIVE



○ General location of proposed paving

DIRT ROAD PAVING – DISTRICT 1, DISTRICT 4, AND DISTRICT 5**DIRT ROAD PAVING – DISTRICT 1, DISTRICT 4, AND DISTRICT 5**

DISTRICT 4	
STREET NAME	LENGTH IN FEET
ANGLE ROAD	1132.29
ARCH ROAD	1293.52
BANDERA DRIVE	152.87
BARRANCAS STREET	664.12
BIG OAK LOOP	1361.00
BLUEFISH ROAD	492.03
BROOKLYN ROAD	312.20
BRUNSON DRIVE	296.41
DESOTO STREET	905.38
DUNDEE ROAD	313.64
ELKHARD DRIVE	1875.93
EMERSON STREET	623.82
GLASSPORT STREET	1439.52
HEATHER LEE STREET	389.14
JOYCE LANE	658.48
KIRWIN STREET	254.81
KOPPEL DRIVE	1788.26
LANSFORD STREET	782.36
MAIN STREET	1451.14
MIRANDA STREET	1362.68
MONA DRIVE	1148.46
PINECONE COURT	272.86
REDFIELD STREET	1124.44
REXFORD STREET	276.27
RODEBUSH LANE	370.43
ROSE STREET	358.84
SHELBY COURT	361.05
TAFTON STREET	391.93
TITI LANE	264.60
WAVERLY COURT	309.73
WELSH ROAD	318.92
TOTAL FEET	22,747.17
TOTAL MILES	4.31

DISTRICT 5	
STREET NAME	LENGTH IN FEET
ATTACHE COURT	201.72
BALOGH DRIVE	352.74
CAROL COURT	186.83
DIPLOMAT STREET	113.03
GEORGETOWN COURT	670.81
KOPPEL DRIVE	207.16
LANDS END LANE	71.25
PAMPAS DRIVE	866.89
PENDLETON COURT	183.58
REPUBLIC COURT	383.20
SANDY BLUFF DRIVE W	169.94
SAROCO ROAD	922.30
SPRUCE STREET	767.53
WINDMILL DRIVE	1946.87
WOODLAWN BEACH RI	360.44
TOTAL FEET	7404.30
TOTAL MILES	1.40

DISTRICT 1	
STREET NAME	LENGTH IN FEET
SAN JUAN	5,280
TOTAL MILES	1.0

Santa Rosa County
Construction Cost Estimate
District 1, 4 & 5 Dirt Road Paving (47 projects - approximately 6 miles)

6/29/2016

		Estimate			
NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
Dirt Road Paving					
1	Mobilization	1.00	LS	\$30,000.00	\$30,000.00
2	Final grading and seal rolling prior to paving	70,400.00	SY	\$1.00	\$70,400.00
3	Re-establish Grade on Ditch, County Specs 2300	105,600.00	SY	\$2.00	\$211,200.00
4	Mix Existing Base to a Maximum Depth of 6" and Re-Compact to a Minimum LBR of 75 (To include the mixing, compacting, grading, and testing), less than 1000sy	70,400.00	SY	\$4.00	\$281,600.00
5	1.5 "ASPHALT PAVING	70,400.00	SY	\$6.60	\$464,640.00
6	3" Top Soil (Sod and Seeding areas)	52,800.00	SY	\$1.00	\$52,800.00
7	Sodding - Centipede (4' wide sod strip adjacent asphalt)	28,160.00	SY	\$2.00	\$56,320.00
8	Centipede, Seeding and Mulch, (15lb Per Acre) (Ditch Areas)	330.00	LB	\$13.00	\$4,290.00
Subtotal					\$1,171,250.00
TOTAL CONSTRUCTION COST					\$1,171,250.00
	Engineering (Inhouse)			2%	\$23,425.00
TOTAL COSTS					\$1,194,675.00
County Matching Work					\$669,425.00
Contractor Total (Yellow)					\$525,250.00

PROJECT 3
Navarre Regional Stormwater Pond Park

EXISTING DISCHARGE
LOCATION

EXISTING DISCHARGE
LOCATION



GRAPHIC SCALE



(IN FEET)
1 inch = 400 ft.



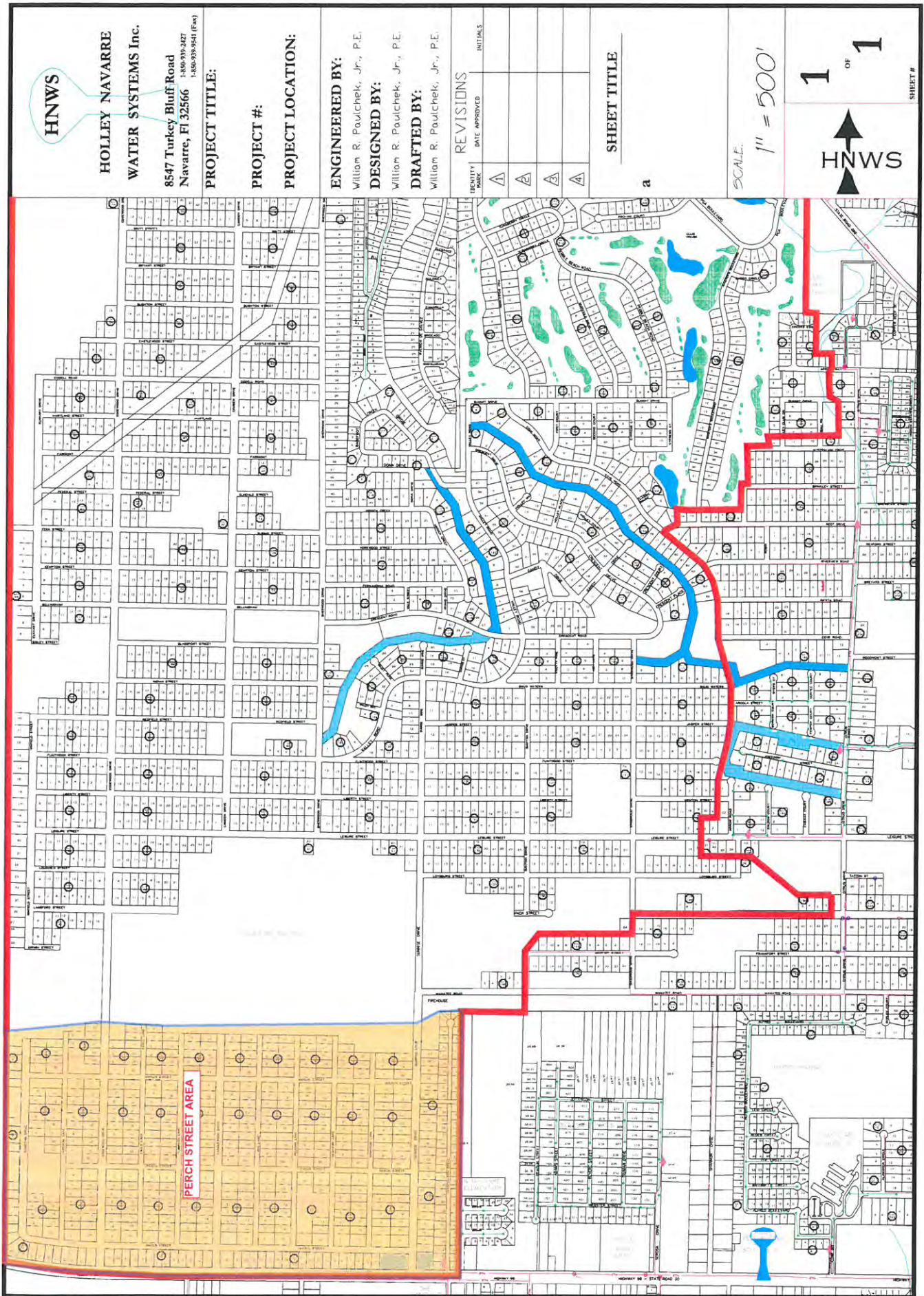
PRELIMINARY DRAINAGE BASIN MAP

Navarre Water Quality Enhancement Project - Phase II
ROUGH ORDER OF MAGNITUDE COST ESTIMATE
Regional Stormwater Pond

6/28/2016

		BID PROPOSAL			
NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
STORMWATER POND AND CONVEYANCE					
	MOBILIZATION	1.00	LS	\$32,000.00	\$32,000.00
	MAINTENANCE OF TRAFFIC	1.00	LS	\$25,000.00	\$25,000.00
	DEMOLITION/CLEARING AND GRUBBING (BUILDING & PL REMOVA	1.00	LS	\$100,000.00	\$100,000.00
	DEWATERING	1.00	LS	\$200,000.00	\$200,000.00
	EROSION CONTROL	1.00	LS	\$40,000.00	\$40,000.00
	EXCAVATION	158,000.00	CY	\$10.50	\$1,659,000.00
	EMBANKMENT	40,000.00	CY	\$6.00	\$240,000.00
	EXCAVATIONS AND DISPOSAL OF UNSUITABLE SOILS	20,000.00	CY	\$18.00	\$360,000.00
	18" RCP STORMDRAIN PIPE	500.00	LF	\$56.00	\$28,000.00
	30" RCP STORMDRAIN PIPE	1,500.00	LF	\$95.00	\$142,500.00
	36" RCP STORMDRAIN PIPE OUTFALL	1,500.00	LF	\$113.00	\$169,500.00
	ADS PIPE	5,000.00	LF	\$50.00	\$250,000.00
	6'x10' DIVERSION STRUCTURE	1.00	EA	\$13,000.00	\$13,000.00
	FDOT TYPE D DBI	25.00	EA	\$4,000.00	\$100,000.00
	STORM MANHOLE	25.00	EA	\$6,000.00	\$150,000.00
	MITERED END SECTION	25.00	EA	\$2,300.00	\$57,500.00
	CONSTRUCT HEADWALL AT OUTFALL STRUCTURE	1.00	EA	\$12,000.00	\$12,000.00
	RIP RAP	400.00	TN	\$200.00	\$80,000.00
	UTILITY CONFLICTS AND RELOCATIONS COSTS	1.00	LS	\$400,000.00	\$400,000.00
	SHEET PILE WALL	1.00	LS	\$25,000.00	\$25,000.00
Subtotal					\$4,083,500.00
<u>LANDSCAPING, HARDSCAPE & LIGHTING</u>					
	LANDSCAPE/SITE FURNISHINGS	1.00	LS	\$500,000.00	\$500,000.00
	BERMUDA SOD	80,000.00	SY	\$3.60	\$288,000.00
	SIDEWALK	3,000.00	SY	\$45.00	\$135,000.00
	IRRIGATION	1.00	LS	\$120,000.00	\$120,000.00
	EDUCATIONAL KIOSKS	1.00	LS	\$16,000.00	\$16,000.00
	TREE PROTECTION	20.00	EA	\$500.00	\$10,000.00
	DECORATIVE LIGHTING	1.00	LS	\$300,000.00	\$300,000.00
Subtotal					\$1,369,000.00
	ESTIMATED CONSTRUCTION COST				\$5,452,500.00
	R/W PURCHASE -	609840	SF	\$ 8.00	\$4,878,720.00
	ENGINEERING			10%	\$545,250.00
	SURVEYING AND DATA COLLECTION			1.5%	\$81,787.50
	CONSTRUCTION ENGINEERING AND INSPECTION			5.0%	\$272,625.00
Subtotal					\$11,230,882.50
	10% Contingency			10.00%	\$1,123,088.25
Total Project Costs					\$12,353,970.75

PROJECT 4
Perch Street Septic Tank Abatement



HOLLEY-NAVARRE WATER SYSTEM, INC.

SEPTIC TANK ABATEMENT

OPINION OF PROBABLE COST

September 5, 2014

PERCH STREET AREA

NO	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
1	Erosion Control Measures/Site Restoration	LS	1	\$7,500.00	\$7,500.00
2	Mobilization	LS	1	\$20,000.00	\$20,000.00
3	MOT	LS	1	\$10,000.00	\$10,000.00
4	Dewatering	LF	31,500	\$15.00	\$472,500.00
5	Gravity Sanitary Sewer (0-6' deep)	LF	16,800	\$25.00	\$420,000.00
6	Gravity Sanitary Sewer (6-10' deep)	LF	21,000	\$35.00	\$735,000.00
7	Gravity Sanitary Sewer (>10' deep)	LF	4,200	\$45.00	\$189,000.00
8	Sanitary Sewer Manholes (0-6' Deep)	EA	42	\$3,000.00	\$126,000.00
9	Sanitary Sewer Manholes (6-10' Deep)	EA	53	\$4,000.00	\$210,000.00
10	Sanitary Sewer Manholes (>10' Deep)	EA	11	\$5,500.00	\$57,750.00
11	New 20 HP Duplex Station Complete	EA	2	\$200,000.00	\$400,000.00
12	4" Service (Same Side)	EA	286	\$500.00	\$143,000.00
13	4" Service (Opposite Side)	EA	286	\$1,200.00	\$343,200.00
14	6" PVC Forcemain	LF	7,300	\$18.00	\$131,400.00
15	Cut & Patch Existing Paved Driveway	SY	1,400	\$30.00	\$42,000.00
16	16" Jack and Bore	LF	750	\$150.00	\$112,500.00
SUBTOTAL =					\$3,419,850.00
15% CONSTRUCTION CONTINGENCY =					\$512,977.50
TOTAL CONSTRUCTION COST =					\$3,932,827.50
NON-CONSTRUCTION COSTS (8.0 %) =					\$314,626.20
GRAND TOTAL =					\$4,247,453.70

1 This cost estimate does not include any monies for property acquisition.

2 This cost estimate assumes that sanitary sewer is located within the grassed right-of-way.



Santa Rosa County Local RESTORE Council
Project Scoring Sheet
Category 1 – Environment



Purpose:

- Restoration and protection of natural resources, ecosystems, fisheries, marine and wildlife habitats, beaches and coastal wetlands
- Mitigation of damage to fish, wildlife habitats, beaches and coastal wetlands
- Implementation of a federally approved marine/coastal management plan, including fisheries monitoring

	Selection Criteria	Points	Point Scale
1	Does the proposed project align with one or more of the four Priority Evaluation Criteria described in the Gulf Coast Ecosystem Restoration Council's Initial Comprehensive Plan?	20	Four criteria met - 20 points Three criteria met - 15 points Two criteria met - 10 points One criteria met - 5 points Zero criteria met - 0 points
2	Does the proposed project align with the "watershed approach" being envisioned for RESTORE projects within the State of Florida?	20	Strongly aligns with watershed approach, "Fix it" and "Prevent it" projects - 20 points Aligns with watershed approach "Fix it" or "Prevent it" solution only - 10 points Aligns w/ watershed approach "Prevent it" through educational/outreach only - 5 points Doesn't align with Pensacola Bay Watershed approach - 0 points
3	To what degree is the proposed project feasible and/or anticipated project outcome(s) sustainable over the long term?	15	High (Feasible with long term sustainability) - 15 points Moderate (Feasible but moderate long term sustainability) - 10 points Low (Feasible but outcomes not sustainable) - 5 points Not Feasible or sustainable - 0 points
4	Does the proposed project provide direct or indirect health benefits to humans?	15	High: Project directly mitigates areas with recurring health warnings -15 points Moderate: Project directly mitigates problems that create potential health issues -10 points Low: Project offers indirect benefits in of areas not prone to health warnings - 5 points Project offers no recognized health benefits -0 points
5	To what degree does the proposed project contribute to potential leveraging ability to allow greater overall environmental or natural resources benefit to accrue as a result of the project?	10	Very High - 10 points High - 7.5 points Moderate - 5 points Low -2.5 points Does not provide leverage - 0 points
6	Does the proposed project have public support and acceptance?	10	High Support: Including resolutions of support and no objections -10 points Moderate support: Support with no resolutions but no significant objections -5 points Low support: Significant opposition (with signature resolutions against) -0 points
7	Does the proposed project provide an appropriate return on investment?	5	High ROI -5 points Medium ROI - 2.5 points Low ROI - 0 points
8	Is the proposed project a "Legacy Project"? Will it have a lasting impact on Santa Rosa County? What is the proposed project area of impact?	5	Project provides long term positive impact to large area of the community -5 points Project provides long term positive impacts for a smaller area of the community -3 points Provides short term positive benefits to the community -1 points
Total Points		100	

SCORING VALUE WORKSHEET

1.	Does the proposed project align with one or more of the four Priority <u>Evaluation Criteria</u> described in the Gulf Coast Ecosystem Restoration Council's Initial Comprehensive Plan? Projects that are projected to make the greatest contribution to restoring and protecting the natural resources, ecosystems, fisheries, marine and wildlife habitats, beaches, and coastal wetlands of the Gulf Coast region. Large-scale projects and programs that are projected to substantially contribute to restoring and protecting the natural resources, ecosystems, fisheries, marine and wildlife habitats, beaches, and coastal wetlands of the Gulf Coast ecosystem. Projects contained in existing Gulf Coast State comprehensive plans for the restoration and protection of natural resources, ecosystems, fisheries, marine and wildlife habitats, beaches, and coastal wetlands of the Gulf Coast region. Projects that restore long-term resiliency of the natural resources, ecosystems, fisheries, marine and wildlife habitats, beaches, and coastal wetlands most impacted by the <i>Deepwater Horizon</i> oil spill.	20 points maximum	5 points
2.	Does the proposed project align with the "watershed approach" being envisioned for RESTORE projects within the State of Florida? Project or program that strongly aligns with the Pensacola Bay Watershed approach. Addresses <u>more than one</u> of the identified priority actions (water quality, habitat/resource protection, education/outreach, community resilience). Project or program addresses root causes of major issues identified for the Pensacola Bay Watershed (sedimentation, nutrient loading, contaminants, storm-water quality and quantity, protect, restore, and create natural habitat and resources and increase buffer areas) with either a "Fix it" and/or "Prevent it" approach. <u>Type of project:</u> "Fix it" and "Prevent it" projects. Dirt road paving in high erosion areas near wetlands, reducing point source waste water discharges, septic tank abatement, retrofit existing planned developments pre-storm-water regulations, etc. . Project or program aligns with the Pensacola Bay Watershed approach. Addresses at <u>least one</u> of the identified priority actions (water quality, habitat/resource protection, education/outreach, community resilience). <u>Type of project:</u> "Fix it" or "Prevent it" type projects. Same projects as above including land protection, conservation project/program. Project or program aligns with the Pensacola Watershed approach but does not directly address the root causes of major issues identified for the Pensacola Bay Watershed (sedimentation, nutrient loading, contaminants, storm-water quality and quantity, protect, restore, and create natural habitat and resources and increase buffer areas). <u>Type of project:</u> Educational/Outreach programs that provide a "Prevent it" approach but not an actual "Fix it" solution Projects do not conform to Pensacola Bay Watershed approach. Does not address any of the identified priority actions (water quality, habitat/resource protection, education/outreach, community resilience). Does not address major issues or their root causes.	20 points maximum	20 points
3.	To what degree is the proposed project feasible and/or anticipated project outcome(s) sustainable over the long term? High - Normal permitting, straight forward construction, self sustaining or low long term maintenance. Project will result in significant long term measurable benefits to environment. No R/W required or R/W will be donated. Chance of success is high. Project will provide sustainable, long lasting benefits to Santa Rosa County. The group or organization sponsoring the project has a proven track record in managing and delivering similar projects while adequately reporting results. Project is technically sound from an engineering/environmental science perspective Moderate - Normal permitting, straight forward construction. May require specialized equipment to maintain. Additional easement or R/W may be required but with friendly take (no eminent domain). Project will provide sustainable, long term measurable benefits to environment. The group or organization sponsoring the project has some experience in managing or delivering similar projects. Project is technically sound from an engineering/environmental science perspective Low - Projects that are difficult to permit and/or construct but provide some lasting benefits to the environment. Requires significant recurring or long term maintenance to function properly. The group or organization sponsoring the project has no experience in managing or delivering similar projects. Chance of success is low to moderate. Projects that have very little chance of being permitted by Federal and State agencies (USACE, FEDP, NWFWM). Projects that have the potential to do more harm to the environment (impact to endangered or threatened species). Projects that are very difficult to construct or maintain. R/W	15 points maximum	15 points
			10 points
			5 points
			0 points

required by eminent domain.	
4. Does the proposed project provide direct or indirect health benefits to humans?	15 points maximum
High – Project directly mitigates <u>documented</u> health issues to humans. Reduces recurring health warnings from Health Department, reduces negative impacts to drinking water, reduces aquatic toxins, reduces point source or non point source nutrient loadings, improves community resiliency (reduces likely hood of reoccurring flooding)	15 points
Moderate – Project directly mitigates problems that <u>create</u> potential health issues within the community and directly improves water quality conditions within the Pensacola Bay watershed. Reduces sediment, nutrient or metal discharges Pensacola Bay system	10 points
Low – Project offers indirect benefits to water quality of areas not prone to health warnings	5 points
Project offers no recognized health benefits	0 points
5. To what degree does the proposed project contribute to potential leveraging ability to allow greater overall environmental or natural resources benefit to accrue as a result of the project?	10 points maximum
Leverage greater than or equal to 4:1 - Very High	10 points
Leverage greater than or equal to 3:1 - High	7.5 points
Leverage greater than or equal to 2:1 - Moderate	5 points
Leverage greater than or equal to 1:1 - Low	2.5 points
No leveraging presented. No matching funds or in-kind match.	0 points
6. Does the proposed project have public support and acceptance?	10 points maximum
High - Significant support including resolutions of support and no objections or very minor objections from public. Project or program demonstrates coordination and cooperation among nonprofit organizations or community groups. Large in-kind support or services. Greater than or equal to 1:1	10 points
Moderate - Support with no resolutions but no significant objections or very minor objections from public. No vocal opposition to the project. Some minor public participation or minor in-kind services.	5 points
Low - Significant opposition (significant vocal opposition or signature resolution opposing project)	0 points
7. Does the proposed project provide an appropriate return on investment?	5 points maximum
High - Project costs sufficiently detailed, realistic and commensurate with the project needs and time frame versus benefits to the community. Jobs created short term/long term. Other benefits documented by sponsor. High return on investment.	5 points
Moderate - Project costs sufficiently detailed, realistic and commensurate with the project needs and time frame versus benefits to the community however return is moderate versus other projects, Greater than or equal to .5: 1	2.5 points
Low - Project costs and benefits adequately detailed but return is low versus investment. Project costs or benefits not sufficiently detailed or realistic to develop an accurate measure of return on investment. ROI less than <.5:1	0 points
8. Is the proposed project a "Legacy Project"? Will it have a lasting impact on Santa Rosa County? What is the proposed project area of impact?	5 points maximum
Project is a major difference maker for the community. Project provides long term positive impact to large area of the community. (significant acres impacted or restored, miles improved/preserved, neighborhood stormwater quality/flooding potential reduced)	5 points
Project provides long term positive impacts for a smaller area of the community (subset of larger community, neighborhood improved, smaller acreage restored/improved/preserved/flooding potential reduced)	3 points
Provides short term positive benefits to the community in a confined or targeted area.	1 point