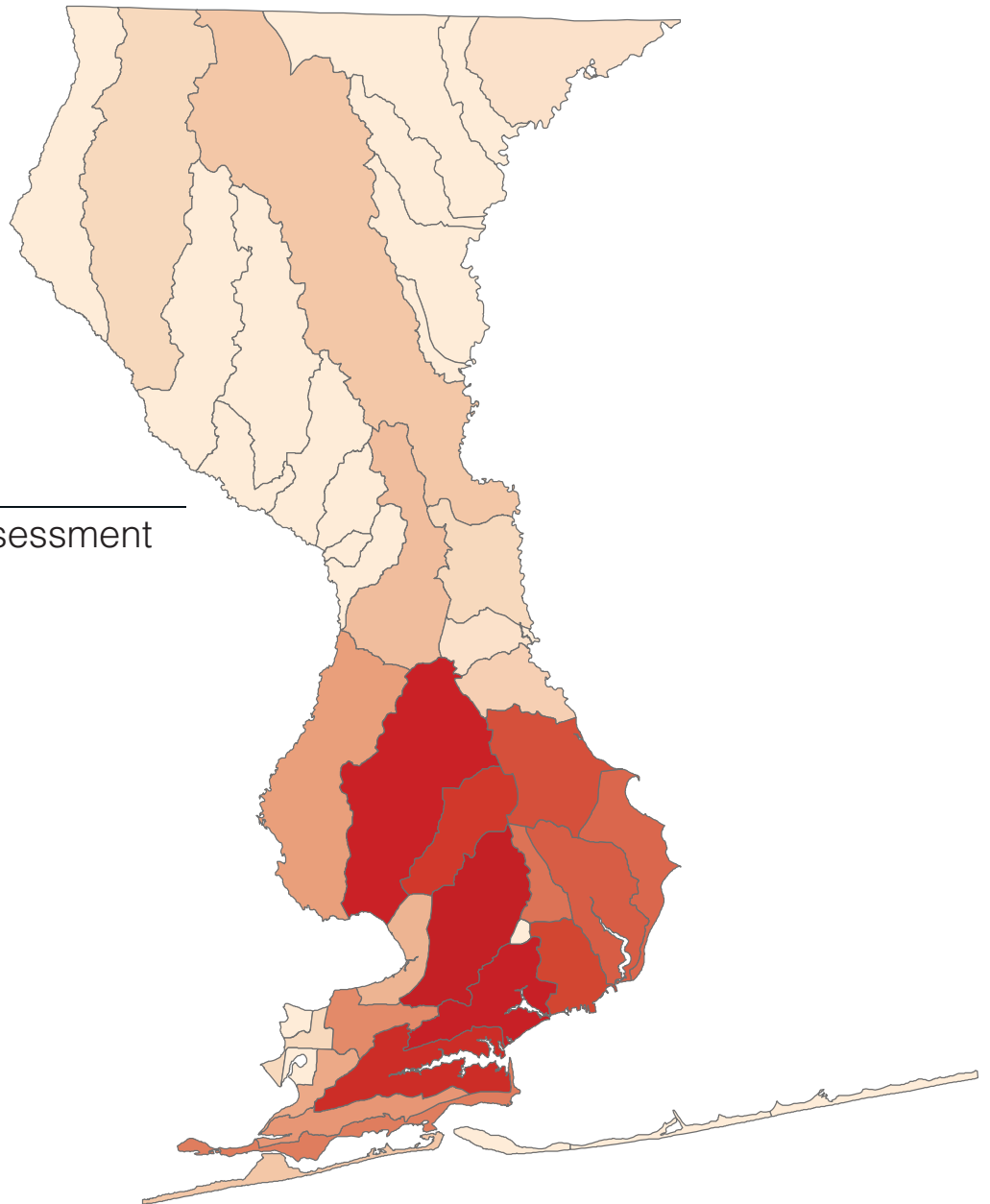


Escambia County

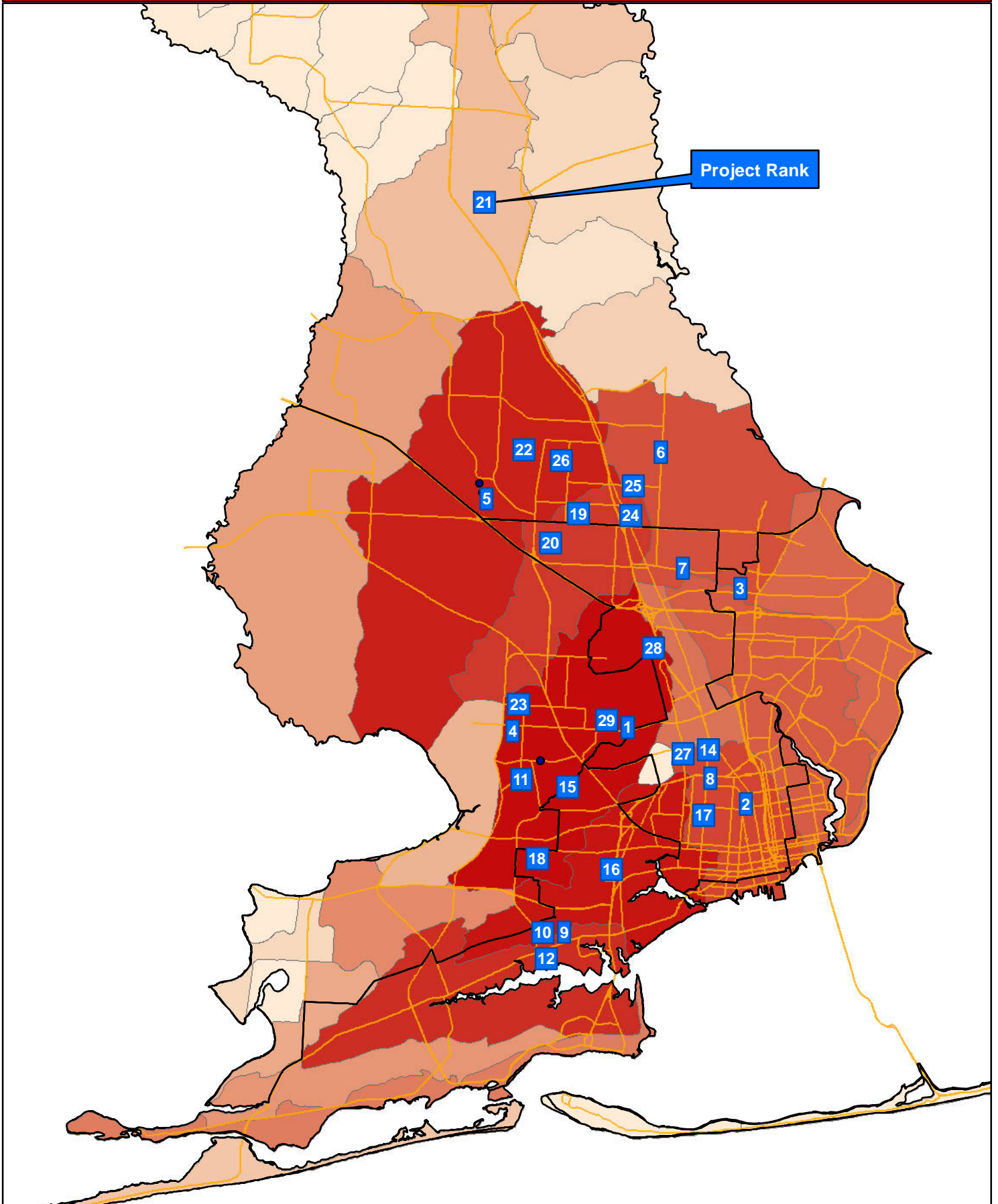
Stormwater Needs Assessment
2015 Edition



Prepared For:
Escambia County

BDI Job Number:
25899.02

Prepared By:
Baskerville-Donovan, Inc.
449 West Main Street
Pensacola, FL 32502
Phone: (850) 438-9661
Fax: (850) 433-6761



Rank	Project		Page
1	Crescent Lake		87
	<i>Construct drainage system and new ponds on east side of Crescent Lake through the Blue Springs Drive drainage system up to Glass Street and Sun valley Drive</i>	<i>\$4,000,000</i>	
2	Spring Street - Leonard Street - PHS Drainage		97
	<i>Joint Drainage project between the City and School Board to address flooding on Spring Street and School Area.</i>	<i>\$500,000</i>	
3	Frinchez Heights (Sabra, Erwin, Whitmire, Ernistene Area)		65
	<i>Proposed drainage capacity improvements in the Frinchez Heights area including Sabra Dr, Erwin Dr, Whitmire Dr, Ernistene Rd (North of Olive Rd) which will likely require a ditch conversion into a pond site</i>	<i>\$400,000</i>	
4	Muldoon Road and Saufley Field Rd Area		83
	<i>Drainage improvements are needed to address existing drainage capacity from Blue Angel to Muldoon Road. FDOT is currently (2015) reviewing partial drainage with sidewalk projects.</i>	<i>\$3,000,000</i>	
5	Flood Plain Management, Wetland Restoration, and Regional Pond Construction in 11-Mile Creek Basin		51
	<i>A large scale project to provide channel, stream, and flood plain restoration improvements, including at minimum of 9 regional stormwater management facilities (ponds). Project completion will require multiple grants to provide a complete realization of the 11-Mile Creek Basin Study Recommendations. The total estimated project costs is over at least a 10-year period.</i>	<i>\$46,538,265</i>	
6	Willowbrook Lake Dam		55
	<i>Restore dam and overflow structure at Willowbrook dam East of Chemstrand Road to provide Water Quality</i>	<i>\$500,000</i>	
7	Ensley Drainage - Caro-Mayflower Pond Area		63
	<i>Expansion of the Caro-Mayflower pond, to address drainage issues south of Caro Street, north of Johnson Ave between Hwy 29 and Palafox Street, including repetitive flooding loss on Orange Avenue.</i>	<i>\$1,300,000</i>	
8	Delano Drainage Area (L Street, Leonard, Fairfield, Herman, and Fairfield Area)		97
	<i>Drainage System Improvements to include new regional pond(s) and rehab of existing ponds for water quality and flood control</i>	<i>\$6,488,476</i>	
9	Beach Haven Area Drainage and Sewer Northeast Phase 1		107
	<i>Roadway/drainage and sewer improvements; currently under design (NE of Decatur Ave to Gulf Beach Highway; from Mills Ave to Decatur Ave including ponds for Phase 1 & 2)</i>	<i>\$10,887,839</i>	
10	Beach Haven Area Drainage and Sewer Northeast Phase 2		117
	<i>Roadway/drainage and sewer improvements; currently under design (NE of Fairfield and Gulf Beach Highway; Fairfield Dr to Colbert)</i>	<i>\$7,823,000</i>	
11	Muldoon-Saufley Field-Velma (Pond Expansion)		91
	<i>Property purchase and drainage improvement design to provide positive outfall for two County ponds, expand the Velma St Pond, and provide outfall to Bayou Marcus Creek. Refer to Bayou Marcus Basin Study -Velma Dr Pond Outfall Branch C to be modified by property acquisition and Velma pond expansion.</i>	<i>\$3,450,000</i>	
12	Beach Haven Area Drainage and Sewer (South)		117
	<i>Roadway/drainage and sewer improvements; currently under design (NE of Fairfield and Gulf Beach Highway; Fairfield Dr to Colbert)</i>	<i>\$12,000,000</i>	
13	Bristol Creek Property Acquisition		51
	<i>A large scale project, with a Property Acquisition Plan for repeatedly flooded property and easement acquisition. Project will be partially funded by HMGP grant if approved. Related to project "Flood Plain Management, Wetland Restoration, and Regional Pond Construction in 11-Mile Creek Basin."</i>	<i>\$6,189,380</i>	
14	Beverly Parkway Basin Zone H- Loretta Street, between Kelly Ave and North "P" Street		89
	<i>Construct new ponds and expand the stormwater collection system in the area around Loretta Street.</i>	<i>\$6,499,810</i>	

Rank	Project	Page
15	North 61st Property Purchase and flood plain restoration <i>Purchase of 10 properties for the purposes of flood plain restoration, and stream restoration</i>	93
	\$700,000	
16	Old Corry Outfall Property Purchase and Flood Plain Restoration <i>Pete Moore ditch- Jackson Creek flood plain and habitat restoration.</i>	107
	\$978,881	
17	Avery Street Drainage (Kupfrian Park/Hernandez and Lakeview) <i>Continued drainage for the Kupfrian Park area to include stormwater pond(s) for flood control/water quality, and conveyance system to address flooding issues on Hernandez and Lakeview between Pace and J Street.</i>	97
	\$998,563	
18	Myrtle Grove System A (remaining portion) <i>Completion of System A to included drainage improvements including acquisition for easement and pond site on 72nd and 73rd Ave, South of Jackson, and North of Harvey St</i>	105
	\$450,000	
19	Ponderosa Drive Area Drainage <i>Expand existing pond to accommodate contributing basin</i>	61
	\$2,243,000	
20	Kingfisher, Bush Street, and Interstate Circle Drainage <i>Eight Mile Creek Priority 5 Drainage to construct a regional pond to address flooding for Kingfisher, Blue Jay Way, Bush Street, and Interstate Circle</i>	61
	\$2,500,000	
21	Pin Oak Lane Drainage (Phase 1) and Flood Plain Restoration Project (Phase 2) <i>Construct a new roadway connection to Quintette Road at North end. Also purchase property to restore flood plain at South end.</i>	31
	\$725,277	
22	West Roberts Drainage Improvements and Regional Pond (Regional Pond in 11-Mile Creek Basin) <i>Regional pond and conveyance system on West Roberts Road utilizing on FDOT pit (Part of 11 Mile Creek Basin Plan to reduce flood stage in Bristol Creek/Bristol Park/Ashbury Hills)</i>	51
	\$1,500,000	
23	Bellview Avenue Branch E Drainage Chestnut-Hogan Pit expansion <i>Bellview between Rosewood Estates and Hogan Road, includes expansion of the Chestnut-Hogan Pit</i>	83
	\$1,500,000	
24	Chandler Road Drainage <i>Alleviate lot flooding by installing a conveyance system in the area connected to the main trunk line currently being installed by FDOT. This line drains to the Holsberry pond, part of the Hwy 29 lane widening project</i>	63
	\$600,000	
25	Ten Mile Road Drainage and Roadway Improvements <i>Address capacity and drainage problems from Chemstrand to Palafox to address flooding in the area of Holsberry Lane. May involve property acquisition.</i>	55
	\$5,000,000	
26	11 Mile Creek Basin Study Zone 5 <i>increase capacity of pipe under green hills rd. and construct a pond near urban drive to alleviate area flooding</i>	53
	\$3,619,643	
27	Beverly Parkway Basin Branch G- Andrew Ave and Coons Ave <i>Extend the stormwater collection system along Andrew Avenue and Coons Avenue.</i>	89
	\$1,319,873	
28	Dorothy & Lydia Avenue Area Drainage <i>Improve existing drainage system causing lot flooding. The surrounding area drains to private Rolling Hills borrow pit, causing sediment problems at Crescent Lake</i>	77
	\$400,000	
29	South Gulf Manor Private Pond Rehab <i>Upgrade to county standards a private pond that has failed to accommodate flow from South Gulf Manor Phase 1 on numerous occasions. This has resulted in flooding of around 15 homes.</i>	85
	\$200,000	

Rank	Project	Page
30	Avondale Estates - Bayou Marcus Branch E <i>Roadway/drainage improvements for Cerny Road area and area North of Cerny to provide possible pond outfall solutions for Saufley Field -Muldoon Area Ponds. Concept plans requires further study for alternate pond outfall options considering Velma Pond.</i>	83 \$3,300,000
31	Palafox Street @ Oakfield/Kenmore/Pacific/Majors/Pinestead Drainage <i>Drainage Project currently under design to address Beverly Parkway Basin Study Improvements Branches N, O, P, & Q</i>	77 \$4,900,000
32	Old Corry Field Area Drainage <i>Construct a new stormwater collection system along Old Corry Field Road from Border Street to Jackson Creek.</i>	109 \$2,000,000
33	Catholic High Basin Zone A North - North end of the basin around Mission Street <i>Expand pond storage by expanding existing pond and constructing a new pond as well as expanding and increasing existing collection to prevent home and street flooding. This improvement will not have negative impacts on downstream properties.</i>	95 \$3,330,648
34	Intersection of Hwy 29 and Hwy 97 <i>Construct a dry pond and conveyance pipes at the corner of Highway 97 and Crabtree Church Road to contain and control downstream stormwater runoff. Increase the capacity of culverts running under Highway 29 to reduce roadway flooding.</i>	21 \$558,137
35	Helms/Beulah School Road <i>Increase capacity of drainage structures crossing Helms Road to prevent roadway overtopping and decrease upstream flood stages.</i>	71 \$207,509
36	Carver Park Area Drainage Improvements West of 297A <i>Four-phase roadway and drainage improvement project for the area south of Muscogee Road, north of the Road Camp, east of Booker, and west of Ransom, requiring property pond acquisition and drainage conveyance improvements.</i>	37 \$2,250,000
37	Haley Lane and Eagle Street <i>Reconstruct the Brookhollow collection system and construct a new collection system along 10 Mile Road to reduce roadway flooding. Improvements may have a negative effect on downstream properties.</i>	53 \$584,279
38	Raise berm east of landfill (Perdido River South Basin) <i>Raise the berm east of the landfill to prevent an existing pond from overtopping.</i>	49 \$623,519
39	West Highlands (Green and Lloyd) and Lloyd up to Mallory Street <i>Address property flooding in an area North of Mobile Hwy West of Dominguez Street, and at Green St</i>	95 \$650,000
40	Carver Park/West Booker Road <i>Reduce area flooding by increasing the capacity of area conveyance structures as well as constructing a new pond.</i>	43 \$1,327,654
41	Ferry Pass Drainage Zone 5 <i>Drainage System Improvements on Boyd Ave and adjoining Beagles St, Geeker St, De Loach St, and Raines St; dependent upon Olive Rd drainage system upgrades</i>	79 \$950,000
42	Delano Area North Kelly Avenue Basin <i>Drainage System Conveyance Improvements for area between Pace Blvd, Massachusetts Av, W" St., and Truman to improve conveyance to Kelly Avenue pond, as well as provide for an improved outfall system. Project requires coordination with CRA improvements on Massachusetts Avenue for sidewalks and drainage improvements</i>	89 \$400,000
43	Nims Lane Drainage Project <i>Nims Lane receives stormwater from a basin of approximately 29 acres. This basin extends just east of Holsberry Road and just north of Holsberry Lane. This area is prone to flooding due a lack of a positive outfall or stormwater conveyance system. Discharge from this conveyance system is expected to be routed to the Holsberry Pond</i>	63 \$400,000

Rank	Project		Page
44	Lake Charlene Area Drainage (including future phases not covered by grant) <i>Increase outfall capacity of Lake Charlene by implementing some of the drainage system improvements from the 2007 Warrington Master Plan and the 2015 Lake Charlene Warrington Study.</i>	\$1,992,309	107
45	Treasure Hills Drainage <i>Install drainage upgrades, stormwater pond w/pond site purchase, and drainage rehabilitation in area of Avon, Medina, and Gulf Beach Hwy</i>	\$760,000	121
46	Beverly Parkway Basin Branch C- Twelve Oaks Area <i>Construct a new collection system for the Twelve Oaks Area with a discharge to the FDOT system. Connection to the FDOT system will limit design to the 3 year event.</i>	\$2,522,301	87
47	Beverly Parkway Basin Zone D-Brentwood <i>Expand the stormwater systems on Cary Memorial Drive and Armenia Drive to Carolyn Way, Jacquelyn Way, Virginia Way, Palm Court, Concordia Street, and Chimes Way and tie into the existing system on Hardy Place. Connection to the FDOT system will limit design to the 3 year event.</i>	\$3,596,439	89
48	Dogtrack South –Coral Creek – Mariners Village-Hampton Lakes <i>Stream and wetland restoration and construction of an attenuation pond. Two creeks merge north of Coral Creek, resulting in upstream flooding the affects Mariners Village to the northwest and a creek along Dog Track Road to the northeast.</i>	\$3,400,000	113
49	Westview Lane & Lewis St Area Drainage <i>Drainage improvements to address stormwater and groundwater from Lewis Street and Moose Lodge 557 impacting lots along Westview Lane</i>	\$200,000	67
50	Klondike Road North of Mobile Highway <i>Increase capacity of structure under Klondike Road to prevent roadway overtopping.</i>	\$22,571	73
51	Catholic High Basin Zone A South - South of Avery Street <i>Construct new collection system to prevent street flooding. This improvement will not have negative impacts on downstream improvements.</i>	\$1,440,259	95
52	N 69th Ave- Bayou Marcus/Millview Study Branch D <i>Expand the stormwater collection system along 69th Avenue to reduce flooding in the area.</i>	\$1,963,878	93
53	Well Line Rd Home Flooding <i>Increase the capacity of the culvert under Well Line Road to reduce roadway and home flooding. Connect the Well Line Road culvert to the culvert running under Forrest Street to minimize water flowing across the property (this will require permission or easements from two property owners).</i>	\$67,472	37
54	Hwy 29 (North of Bet Raines Rd) <i>Increase the capacity of culverts under Highway 29 and modify the surrounding ditch area to reduce roadway flooding.</i>	\$323,506	21
55	Willowside Drive and Westlake Subdivision Drainage <i>Address home, yard, and street flooding on 72nd Avenue and Willowside Drive through the Westlake Subdivision: Reference Warrington Basin Study-St James Branch C. May require modifications.</i>	\$750,000	105
56	Elsa Area Drainage <i>Drainage project to address flooding in the area of Elsa Avenue South of Lillian from 48th Avenue over to Feldor Avenue including 49th, 50th, 52nd, State Street, Kinear Avenue, and Martha Ave</i>	\$2,600,000	93
57	Ranch Lands - Sagebrush Trail <i>Repetitive loss flooding along Sagebrush Trail (Ranch Lands Subdivision) requires purchase of a pond site and improved drainage conveyance to address FDOT channel capacity. Refer to 8 Mile Creek basin Study Priority 3 for detailed information.</i>	\$500,000	61
58	International Paper Area <i>Increase capacity of drainage system in order to reduce roadway overtopping and upstream flood stages.</i>	\$367,980	43

Rank	Project		Page
59	Sunset/Patton/Elite/Gulf Beach Hwy Drainage Outfall		117
	<i>Realign the drainage outfall line beginning at Gulf Beach Hwy and Elite Drive to flow down Sunset St. in order to correct non-functioning sections and routing beneath homes.</i>	\$220,000	
60	Velma Pond Outfall		91
	<i>Construct outfall for the Velma Pond to prevent overtopping during a 100 year event.</i>	\$905,319	
61	Beverly Parkway Basin Branch B- South Portion- Michael Drive		87
	<i>Construct a stormwater pond on Michael Drive.</i>	\$623,567	
62	System improvements between Interstate 10 and Hwy 297A		59
	<i>Reconstruct Eleven Mile Creek in this area to incorporate more volume for flood control within the stream in lieu of constructing detention ponds to prevent flooding of homes between I-10 and Hwy 297A. Report also suggests requiring attenuation of the 100 year event upstream of this area.</i>	\$48,315,410	
63	Ten Mile Road at Stefani Dr.		53
	<i>Increase the collection system size along Stefani Drive and Ten Mile Road and increase the capacity of the culverts under Midway Drive to reduce extensive flooding in the area. Improvement may have a negative effect on downstream properties.</i>	\$393,265	
64	Ten Mile Creek from Pine Forest to Stefani Dr.		53
	<i>Reconstruct Ten Mile Creek from Pine Forest to Stefani Drive to provide additional storage capacity to reduce extensive flooding in the area. Improvement may have a negative effect on downstream properties</i>	\$8,988,914	
65	Ten Mile Creek from Stefani Drive to Roberts Rd.		53
	<i>Reconstruct Ten Mile Creek from Stefani Drive to Roberts Road to provide additional storage capacity to reduce extensive flooding in the area. Improvement may have a negative effect on downstream properties.</i>	\$10,674,335	
65	Ten Mile Creek from Stefani Drive to Roberts Rd.		53
	<i>Reconstruct Ten Mile Creek from Stefani Drive to Roberts Road to provide additional storage capacity to reduce extensive flooding in the area. Improvement may have a negative effect on downstream properties.</i>	\$10,674,335	
66	Jamison Street Branch F -Warrington Basin Study		109
	<i>Construct new stormwater system along Jamison Street and Rue Max Street with direct discharge to Bayou Chico to reduce discharges to the Barrancas Avenue System. Connect to Lexington Terrace stormwater ponds to provide water quality improvement prior to discharge to the wetlands.</i>	\$2,000,000	
67	Beach Haven Area Drainage and Sewer Northwest		115
	<i>Roadway/drainage and sewer improvements (NW of Fairfield to Gulf Beach Highway)</i>	\$4,000,000	
68	Tate Road North of Petty St		45
	<i>Increase capacity of roadway culvert crossings to prevent overtopping of Tate Road</i>	\$13,269	
69	Filley Rd		53
	<i>Increase capacity of culvert crossing to prevent overtopping of Filley Rd</i>	\$4,283	
70	Amanda Rd		51
	<i>Increase capacity of culvert at Creekwood Drive to prevent roadway overtopping</i>	\$6,896	
71	Chestnut Rd to Hwy 29		23
	<i>Remove accumulated sediment from the upstream side of the Chestnut Road bridge in order to lower downstream velocities. Replace the culverts under Molino Road and Chestnut Road with bridges to prevent roadway overtopping and increase flow capacity.</i>	\$1,027,014	
72	Ashland Park Joint ECUA funded sewer and drainage		55
	<i>Improve Box Culverts at Rodney, Joel and Childers Streets.</i>	\$100,000	
73	Yupon/Pebble Creek/Deerfield		59
	<i>Reduce area flooding by enlarging existing ponds and increasing area culvert capacities.</i>	\$663,784	

Rank	Project	Page
74	Stagecoach/Wilshire/Mobile Highway <i>Increase capacity of drainage structure at Mobile Highway and improve downstream channel to prevent roadway overtopping and residential flooding.</i>	71
75	Bayou Grande Basin K1- Gulf Beach to Winthrop SS <i>Replace the outfall trunk line from Gulf Beach Hwy through Winthrop Ave. to prevent roadway flooding.</i>	117
76	Beverly Parkway Basin Branch E- west side of Hwy 29 on Mason Lane <i>Construct a new collection system along Hwy 29 and Mason Lane along with a new pond for the system to connect to.</i>	89
77	Navy Point Drainage North <i>Construct treatment swales within Navy Point to treat stormwater as it flows to the discharge point per Bayou Grande Basin Study.</i>	117
78	Navy Point Drainage South <i>Construct treatment swales within Navy Point to treat stormwater as it flows to the discharge point per Bayou Grande Basin Study.</i>	117
79	Beverly Parkway Basin Branch I- Moss Lane tie in at Van Pelt Lane <i>Construct new stormwater system along Moss Lane.</i>	87
80	Frank Reeder Rd & Rebel Rd <i>Reconstruct the swale in the area near Rebel Road and construct a culvert under Frank Reeder Road.</i>	49
81	Emory Drive- Warrington Basin Study Branch K <i>Construct a new stormwater system along Emory Drive, Stanford Road, Stetson Road, and Vanderbilt Road with a new stormwater pond at the eastern end of Tulip Drive.</i>	93
82	Navy Point Drainage and Sanitary Sewer <i>Roadway/drainage and sewer improvements; currently under design (NE of Fairfield and Gulf Beach Highway; Fairfield Dr to Colbert)</i>	117
83	Bayou Grande Basin Study P1- Bainbridge Culvert <i>Replace existing culvert on Bainbridge with a larger pipe to prevent road overtopping.</i>	117
84	Hwy 97 (East of Hwy 29) <i>Increase the capacity of the culverts under Highway 97 to decrease likelihood of roadway flooding.</i>	21
85	Lake Charlene/Querido Heights- Warrington Basin Branch B <i>Reconstruct Lake Charlene overflow structure and outfall ditch. Reconstruction of the 69th Avenue drainage system to reduce discharges to Lake Charlene, increase the capacity of the 61st Avenue drainage system, and increase the capacity of the 61st Ave, Kittyhawk Drive, Lake Charlene Lane, and Myrtle Hill Circle drainage system. Solutions are currently under evaluation.</i>	107
86	Johnson Ave Drainage (East of Brieese Ln) <i>Remove/Replace faulty storm pipe from Pine Ridge Lane to Johnson Ave, Address pipe flow Crystal Wells pond, Address two 24" pipe feeding one 24" pipe down to outfall in Gulf Power Easement.</i>	63
87	Olive Manor & Lincoln Park Drainage <i>Drainage System Improvements with a creek restoration/preservation</i>	63
88	Shadow Ridge Drive - Meadowview Lane <i>Drainage Improvements proposed within unopened County right-of-way in coordination with adjacent property to address property damage and erosion for the accumulation of development.</i>	55
89	Hwy 29 (North of Quintette Rd.) <i>Replace the existing culverts under (divided) Highway 29 north of Quintette Road with two bridge structures to increase flow capacity and prevent roadway overtopping.</i>	29
90	Hwy 29 (Jack's Branch Q13) <i>Replace the existing culverts under (divided) Highway 29 with two bridge structures to increase flow capacity and prevent roadway overtopping.</i>	31
91	Hwy 29 (South of Omega Drive) <i>Increase the capacity of the culverts under Highway 29 south of Omega Drive to reduce roadway flooding.</i>	23

Rank	Project		Page
92	Hwy 29 (North of Hwy 97) <i>Increase the capacity of the culverts under Highway 29 near North Highway 95A to prevent flooding.</i>	\$283,017	21
92	Hwy 29 (North of Hwy 97) <i>Increase the capacity of the culverts under Highway 29 near North Highway 95A to prevent flooding.</i>	\$283,017	21
93	Hwy 97 at Elementary School <i>Increase the capacity of the two culverts under Highway 97 near the Molino School and connect them with an earthen ditch. This will prevent roadway flooding.</i>	\$297,927	21
94	Old Corry Field Rd- Warrington Basin Branch H <i>Construct a new stormwater collection system along Old Corry Field Road from Border Street to Jackson Creek.</i>	\$2,126,280	95
95	Midas- Muldoon Area including West side of Green Acres <i>Miscellaneous drainage improvements in this area to address flooding, including a small pond and conveyance improvements</i>	\$250,000	83
96	Frank Reeder Rd & Beulah Rd <i>Reconstruction of the ditch and installation of culverts where necessary to provide a defined drainage path.</i>	\$64,153	49
97	Helms Rd & Woods Lane <i>Construct a new culvert under Woods Lane and reconstruct the ditch feeding to the existing culvert.</i>	\$69,780	69
98	Lakewood/Millwood Terrace- Warrington Basin Branch F <i>Construct new stormwater collection system in the Lakewood Road area with a stormwater pond at Lakewood Road and Addison Avenue with an outfall under Lakewood Drive to Bayou Chico.</i>	\$4,510,975	109
99	Shoshone and Doug Ford Drive Drainage <i>Evaluate pipe system and obtain permits to restore flow the wetlands and alleviate home flooding along Shoshone Drive.</i>	\$240,000	121
100	Lanette Drive <i>Construct new stormwater system for the area around Lanett Drive to reduce flooding in the area.</i>	\$1,000,000	83
101	Hwy 29/Tate School Road <i>Increase capacity of culverts to prevent overtopping of Tate Road</i>	\$187,331	45
102	Bayou Grande Basin Study P7- Bay Meadows Treatment Pond <i>Provide treatment pond for existing residential development north of Bay Meadows Dr. This will not affect downstream properties.</i>	\$112,361	115
103	Ten Mile Creek from Roberts Rd North to Kingsfield Rd <i>Reconstruct the creek to provide additional storage volume and increase the culvert capacity under Roberts Road, Dolphin Street, Tate Road, and Kingsfield Road to prevent flooding to structures. Improvements may have a negative effect on downstream properties.</i>	\$4,494,457	51
104	Pine Forest/Klondike Road <i>Construct two new retention/detention ponds and increase capacity of driveway culverts along Klondike Rd to reduce peak flows downstream, and reduce scour.</i>	\$2,116,233	59
105	Bayou Grande Basin Study S2- Athens Ave Culvert <i>Enlarge the existing culvert on Athens in order to prevent road flooding. This improvement will not negatively impact downstream properties or other improvements.</i>	\$18,000	115
106	Bayou Grande Basin Study S1- Americus Ave Culvert <i>Enlarge the existing culvert on Americus in order to prevent road flooding. This improvement may impact other improvements.</i>	\$12,000	115
107	Carrington Lakes <i>Repair outfall erosion at the private subdivision pond to prevent further erosion and possible wetland impacts.</i>	\$276,893	29

Rank	Project		Page
108	Ashton Brosnahan Park <i>Construct a new stormwater pond at the end of Bet mark Lane with a ditch connecting runoff from the recreational center to the pond.</i>	\$1,568,145	55
109	Myrtle Grove System E (McNair Ln and 57th) <i>Decrease drainage impacts on Lake Charlene through drainage improvements on 72nd and 73rd Ave, South of Jackson and North of Harvey St.</i>	\$100,000	107
110	Northcreek and Valley Ridge Area Drainage Joint Sanitary Sewer Project <i>Drainage and sanitary sewer improvements in Northcreek Subdivision and in the adjacent Deer Run and Valley Ridge subdivisions, as well as on Bison Road and Motley Court</i>	\$250,000	55
111	Tributary 10-A of Eight Mile Creek Basin Study <i>Increase the capacity of the culvert under Pine Forest Road at Lake Francis to decrease roadway flooding and accommodate the improved secondary sewer system.</i>	\$58,307	75
112	Rittenberry Drive <i>Increase the capacity of the culverts under Rittenberry Drive and Madrid Road and deepen the roadside ditches to prevent home flooding.</i>	\$70,597	35
113	Well Line Rd <i>Increase the capacity of the culverts under Well Line Road to reduce roadway flooding. Clear debris and large pieces of concrete pipe from the downstream channel to facilitate stormwater flow.</i>	\$58,461	37
114	Stacey Rd (at the bridge) <i>Clear and grade the existing channel area and construct an improved concrete outfall channel to provide adequate stormwater conveyance and reduce yard and building flooding.</i>	\$45,289	31
115	Stacey Rd at Quintette Rd <i>Increase the capacity of the culverts under Stacey Road and Quinette Road and construct a ditch that connects them to prevent roadway and home flooding.</i>	\$127,811	31
116	Quintette Rd (North of Welcome Circle) <i>Increase the capacity of the culverts under West Quinette Road and replace the existing grate inlet to decrease roadway flooding. These improvements may have a negative impact on downstream properties.</i>	\$59,474	31
117	Muldoon-Cerney-Velma-Fresno Area Drainage <i>Drainage System Improvements including Velma pond expansion, outfall, and drainage conveyance to Velma Pond; better outfall for Muldoon Area Ponds</i>	\$2,200,000	91
118	St Johns North of PCC <i>Purchase property for pond site and connect to 48" pipe across PCA. Add conveyance from system to the North per Beverly Parkway Basin Study Zone F including upgrades to system from Oleander drive to Cummings Street. This will address flooding problems at Cummings Street and St. John's before tying into the PCA Campus.</i>	\$450,000	89
119	West Highlands <i>Proposed new system located on Kirk Street and extend from West Avery Street to West Gonzalez Street and the surrounding area. This new system requires the acquisition and construction of a new retention/detention pond. (see Branch I in Warrington Master Plan)</i>	\$2,700,000	95
120	Breise Lane between Jeffry and Olive Road <i>Extend existing Johnson Ave drainage system to relieve roadway and yard flooding.</i>	\$100,000	63
121	Ellyson Industrial Park Drianage <i>Miscellaneous Infrastructure drainage improvements to address roadway flooding at Grow Road, Copter Road, and East pond expansion</i>	\$1,000,000	67
122	Bayou Grande Basin Study E1 - Gulf Beach Hwy Outfall Improvement <i>Increase the culvert size along Gulf Beach Hwy culvert between Brigadier and Richmond. The downstream channel to Winthrop St will be regraded and shaped to provide positive flow to the Winthrop culvert. This improvement will not affect downstream properties.</i>	\$73,035	107

Rank	Project	Page
123	Bronson Airfield design 3 (entire) <i>Construct a pond over the entire Bronson Airfield property.</i>	99
	\$27,631,968	
124	Edgewater Drive - Warrington Basin Study Branch F <i>Extend and increase the capacity of the stormwater system on Edgewater and Chaseville Streets. Construct an outfall ditch and discharge pipe into Bayou Chico.</i>	109
	\$1,572,096	
125	Bayou Grande Basin Study CC1- Sidney Culvert <i>Enlarge existing culvert to prevent road flooding along Sidney Rd.</i>	113
	\$10,000	
126	Bayou Grande Basin Study R1- Weller Dr. Culvert <i>Replace and increase the existing culvert along Weller Dr. to prevent road overtopping. This improvement will not negatively impact downstream properties.</i>	115
	\$55,000	
127	Muldoon R. Improvements <i>Improve the drainage system along Muldoon road.</i>	83
	\$386,830	
128	Tributary 16-A of Eight Mile Creek begins at Belgium Rd south of Holly Hill Rd and enters the main channel north of Pine Forest Rd <i>Increase the capacity of the structures at Belgium Road and Lillie Lane to minimize roadway flooding.</i>	75
	\$50,273	
129	Beulah Road Ditch <i>Clean out existing culvert and construct a new ditch to convey stormwater to the culvert.</i>	39
	\$90,039	
130	Bridlewood Rd (at Mobile Hwy) <i>Construct two stormwater ponds, remove the culvert under Bridlewood and construct a new culvert under Nine Mile Road to prevent yard and road flooding.</i>	57
	\$929,651	
131	West Cervantes at Westworth <i>Correct road flooding in area with no drainage system</i>	95
	\$600,000	
132	Magaha Area/Nine Mile Road <i>Improve channel and increase capacity of the upstream structure along Nine Mile Road to prevent roadway overtopping and yard flooding.</i>	57
	\$1,240,677	
133	11 Mile Creek Basin Study Zone 6 <i>increase culvert capacity under Amanda lane and 9 1/2 mile road (seems to be partial overlap with 94 priority 19)</i>	53
	\$258,586	
134	11 Mile Creek Basin Study Zone 8 <i>Increase culvert capacity to reduce area flooding.</i>	53
	\$99,466	
135	Godwin Lane - bayou Marcus/Millview Study Branch F <i>Construct new stormwater system for the area around Godwin Lane including two stormwater ponds.</i>	85
	\$5,320,591	
136	Pensacola Heights- Branch F <i>Modify the existing collection system serving Pensacola Heights and construct a new detention pond.</i>	85
	\$4,352,877	
137	South Bronson Airfield Ditch Block <i>Construct ditch blocks in the ditch south of Bronson Airfield. (Treatment only)</i>	111
	\$142,730	
138	Citrus Street Area Drainage <i>Drainage System Improvements on Citrus per Warrington Basin Study Branch G (Study modification required to consider existing County parcel for pond site and conveyance system).</i>	95
	\$1,300,000	
139	Bayou Grande Basin Study P3- Fairfield Storm Sewer at Gulf Beach <i>Replace existing storm collection with a larger system to prevent road overtopping.</i>	115
	\$106,743	
140	Bayou Grande Basin Study BB9- Carrier Dr Channel Improvements <i>Clear and regrade channel downstream of the culvert on Carrier Dr. to alleviate road flooding.</i>	113
	\$8,427	
141	Brookshill Drive <i>Replace the existing culverts under Brookhills Drive with a bridge span to increase flow capacity under the road and decrease roadway, yard, and home flooding. Set a minimum finished floor elevation for any new homes built along the road in order to prevent structure flooding.</i>	37
	\$409,429	

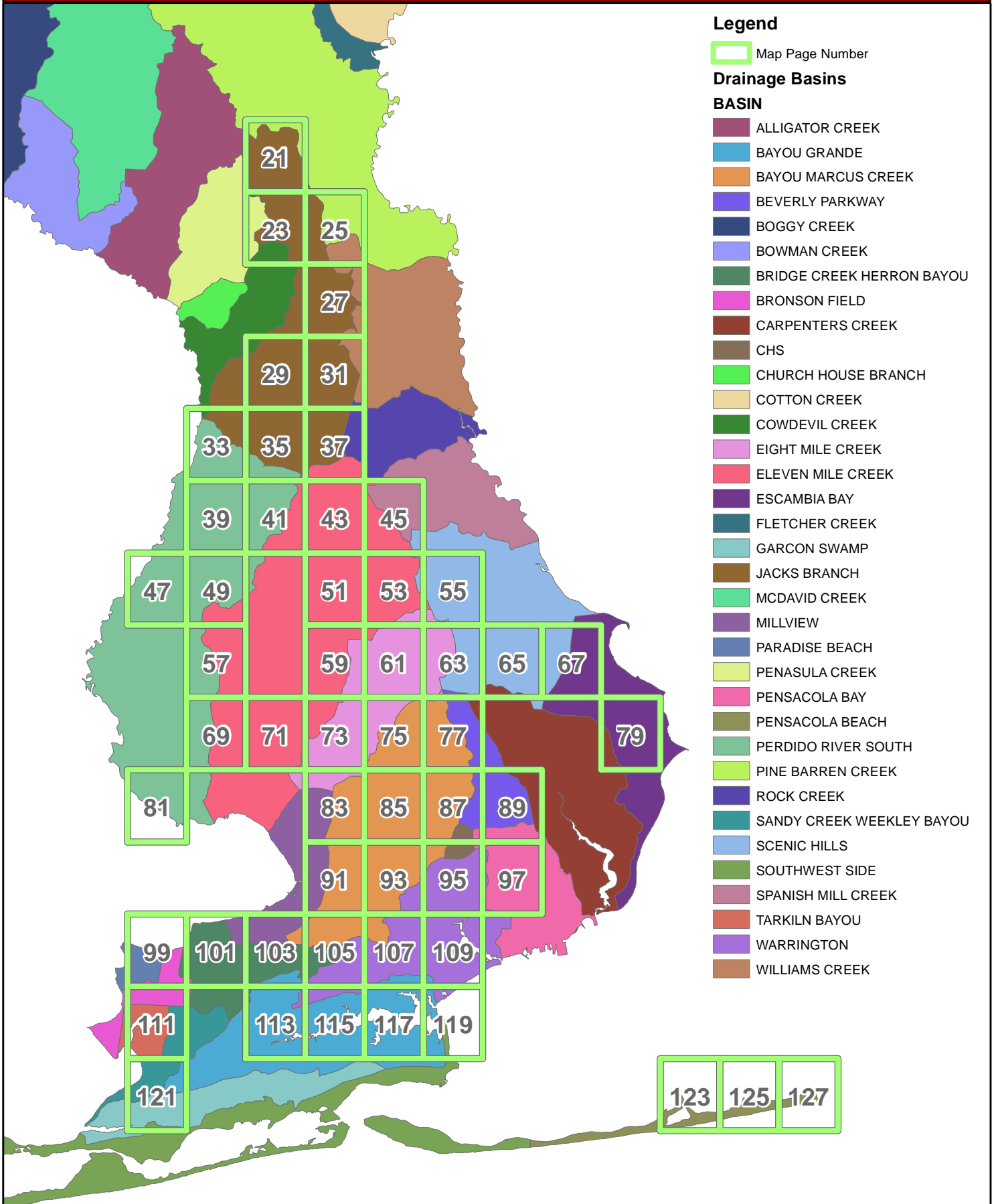
Rank	Project		Page
142	Piney Lane <i>Construct a ditch along the road and a culvert under Piney Lane.</i>	\$101,294	41
143	Frank Reeder Rd culvert and swales <i>Construct drainage swale adjacent to roadway and culvert under Frank Reeder Road.</i>	\$100,168	49
144	Shelby Lane <i>Construct a ditch along the road and a culvert under Shelby Lane.</i>	\$95,666	57
145	Bayou Grande Basin Study Y2- Kinard Drainage System <i>Increase and extend existing roadside ditch system along Kinard Ave. and Robertson Rd. to control road and yard flooding.</i>	\$179,778	113
146	Perdido Rd West of Balboa Road <i>Increase the capacity of the culverts under Perdido Road to decrease roadway and yard flooding. This will negatively effect downstream properties and should be performed in conjunction with other Balboa Road improvements.</i>	\$43,814	35
147	Daylilly Road <i>Increase the capacity of the culverts under Daylilly Road to decrease roadway overtopping. This improvement may have a negative effect on downstream homes, so the downstream ditch should be considered in construction plans.</i>	\$49,488	31
148	Stacey Rd (at the bend) <i>Regrade the right-of-way and increase the capacity of the culverts under Stacey Road to prevent roadway and yard flooding.</i>	\$93,335	31
149	Schaag Rd at Stokes Pond <i>Place riprap along the channel from Stokes Pond to the cross drain inlet to prevent channel erosion. Replace the upstream headwall to prevent headwall failure and roadway undermining.</i>	\$98,040	25
150	Crabtree Church Rd at Abbott Lane <i>Replace the existing culverts under Crabtree Church Road with a bridge to reduce roadway flooding.</i>	\$927,730	21
151	Bet Raines Rd (East of Bridge) <i>Increase the capacity of the culverts underneath Bet Raines Road and construct an earthen ditch to improve flows and reduce yard flooding.</i>	\$75,991	23
152	Bridge on Bet Raines Rd <i>Improve flow conditions through the bridge area by removing trees and brush from the flow path and ensuring a 6 foot clearance below the bottom of the bridge.</i>	\$17,001	23
153	Chestnut Rd South <i>Increase the capacity of the culverts under Chestnut Road to decrease roadway flooding and possible home flooding.</i>	\$101,837	23
154	Bronson Airfield design 2 (Eastern Side) <i>Construct a pond on the eastern side of the Bronson Airfield property.</i>	\$9,767,981	99
155	Quintette Rd (at Welcome Rd) <i>Increase the capacity of the culverts under Quinette Road and improve the downstream channel in order to reduce roadway flooding.</i>	\$51,489	31
156	Schaag Rd Bridge at Jack's Branch Tributary P <i>Replace the existing bridge with a new bridge that has sufficient hydraulic capacity to prevent roadway overtopping.</i>	\$695,188	25
157	Bayou Grande Basin Study P2- Gulf Beach Storm Sewer at Fairfield <i>Replace existing storm collection with a larger system to prevent road overtopping.</i>	\$78,653	115
158	Chestnut Rd North <i>Raise the elevation of Chestnut Road increase the flow capacity of the culverts to decrease roadway flooding.</i>	\$271,465	23
159	Via DeLuna Drainage at Pensacola Beach RV Resort <i>System should be cleaned of sediment and checked regularly. Increased system capacity should be considered.</i>	\$287,470	123

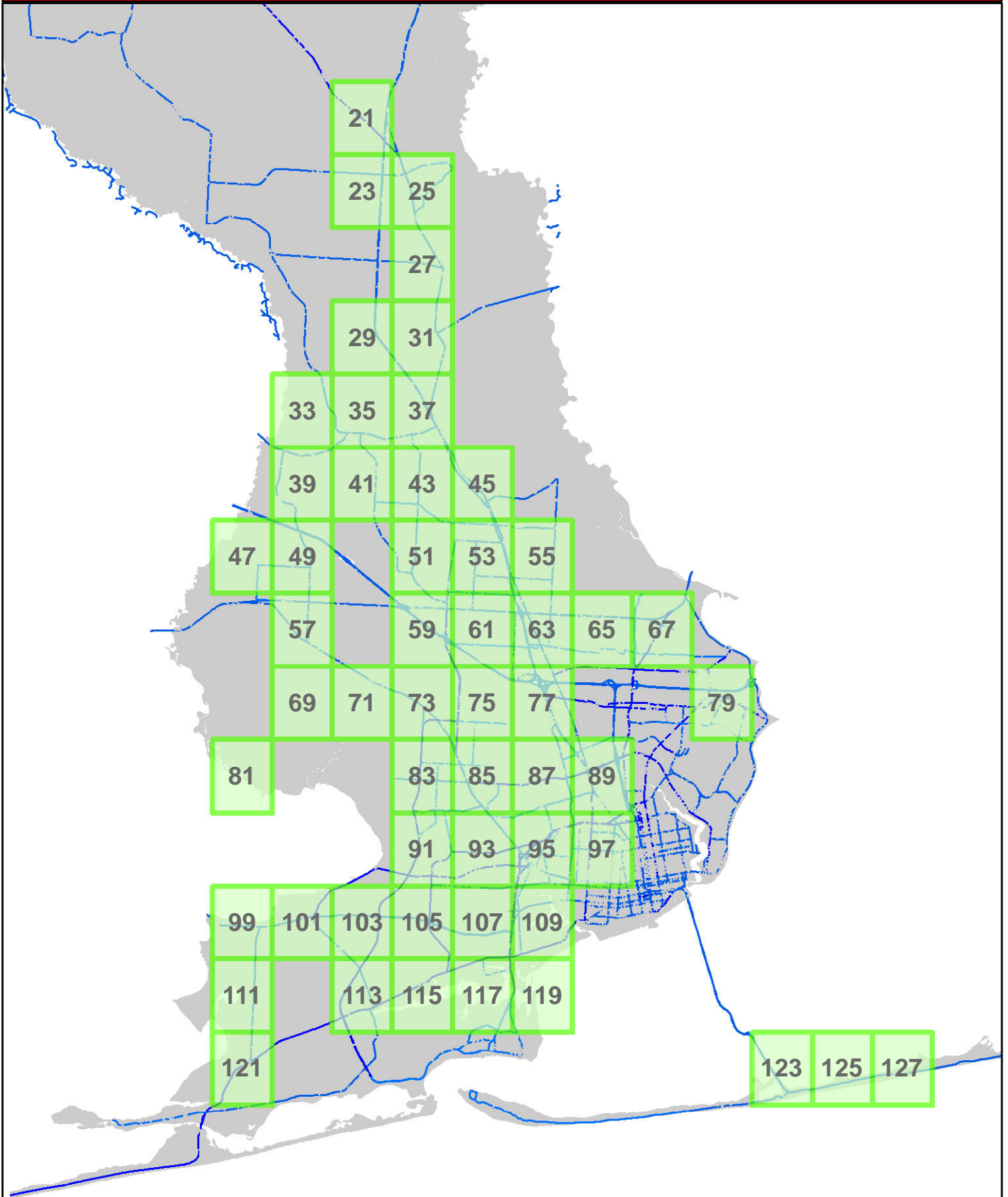
Rank	Project		Page
160	Corto, Largo, and Rio Vista Drives Drainage <i>Repaving at Corto Drive and Rio Vista Drive. Regrading at Largo Drive from Avenida 17 to the sound. Stabilizing along Rio Vista Drive south of Largo Drive.</i>	\$735,389	125
161	Isaacs Rd <i>Construct a ditch along Isaacs Road and a new culvert under Beulah Road.</i>	\$114,800	49
162	Muscogee Rd & Beulah Rd <i>Reconstruct the ditches in the area of the intersection and construction of a culvert under Beulah Road.</i>	\$59,651	39
163	Thompson Bayou - Scenic Hills Basin Study Tributary A <i>Construct a new stormwater pond between University Parkway and Shoal Creek Drive.</i>	\$1,736,479	67
164	Thompson Bayou Main Channel <i>Construct new stormwater pond at Airway Drive near the end of the Thompson Bayou main channel and increase the capacity of the existing culvert at Airway Drive.</i>	\$2,009,815	65
165	Eaton Rd - Warrington Basin Study Branch K <i>Construct a new stormwater system along Eaton Road from Feldor to Adkinson Drive with a discharge to an existing county pond per Warrington Basin Study Branch K.</i>	\$1,219,351	93
166	Coral Village Storm Drainage Replacement <i>Reduce flooding by replacing failing storm pipe within drainage easement.</i>	\$300,000	113
167	Royal Pines - Bayou Marcus/Millview Study Branch B <i>Construct new stormwater system for the Royal Pines subdivision to reduce flooding in the area.</i>	\$2,908,721	91
168	Tributary 21-A of Eight Mile Creek (south of Site 6, through the pit at Bush Street and enters the main channel south of Detroit Blvd) <i>Increase the capacity of the pond south of Bush Street. Increase the capacity of the culvert at Bush Street to prevent roadway flooding. Expand the channel in this area to increase capacity and prevent out-of-bank flooding. Relocate and increase the capacity of the structure at Nine Mile Road to line up with the improved channel.</i>	\$1,628,083	61
169	Main channel crossing at Mobile Hwy <i>Raise the elevation of the Mobile Highway Bridge 2.5 feet to prevent over-topping.</i>	\$2,539,817	73
170	Bayou Grande Basin Study BB4- Windward Ct Outfall Improvements <i>Clean and grade ditch outfall from Windward Court in Coral Creek.</i>	\$13,483	113
171	Bayou Grande Basin Study BB3- Coral Island Dr. Outfall Improvements <i>Provide stormwater collection along Coral Island Dr. in order to alleviate flooding along the roadway.</i>	\$36,517	113
172	Ridgewood Park - bayou Marcus/Millview Study Branch B <i>Construct new stormwater system for the Ridgewood Park subdivision to reduce flooding in the area.</i>	\$2,524,333	91
173	Riola Place - Bridge Creek/Heron Bayou Study Branch E <i>Lower pipe inverts and increase the capacity of the culvert under Riola Place to decrease out-</i>	\$189,379	101
174	Risen Drive and Bonanza Drive <i>Upgrade the culvert under Bonanza Drive and obtain drainage easement over downstream ditch to reduce roadway flooding at the intersection. Improvement may have a negative effect on downstream properties.</i>	\$101,125	51
175	Pensacola Beach Blvd Stormwater Outfall Upgrades <i>Installing stormwater treatment on the outfall in the vicinity of the marina within the existing stormwater easement</i>	\$401,121	123
176	River Annex Road bridge <i>Reconstruct the bridge over River Annex Road to a higher elevation.</i>	\$623,519	33
177	Roosevelt - Warrington Basin Study Branch K <i>Construct a new stormwater system along 61st, 59th, 60th, 63rd, and 65th streets with a new stormwater pond west of 61st street.</i>	\$4,512,150	93
178	SR 297-A/Meander Road <i>Increase capacity of culverts to prevent overtopping of State Road 297-A</i>	\$61,024	51

Rank	Project	Page
179	Bayou Grande Basin Study P6- Athens St. Ditch Improvements <i>Improve and regrade existing ditch along Athens and Gulf Beach Hwy to decrease road flooding.</i>	115 \$8,427
180	Bayou Grande Basin Study Y1- Robertson Channel Improvements <i>Increase and extend existing roadside ditch system along Robertson Rd to control road and yard flooding.</i>	113 \$106,743
181	Deerwood Drive - Bayou Marcus/Millview Study Branch F <i>Increase the capacity of the Deerwood Drive stormwater system and outfall pipe.</i>	85 \$1,971,838
182	Perdido Rd at Saverna Park <i>Increase the capacity of the culverts near Perdido Road to prevent roadway overtopping.</i>	35 \$166,774
183	Cedar Tree Lane (Hwy 29 Side Drain) <i>Lower and increase the capacity of the culverts under Cedar Tree Lane to prevent roadway flooding. Rebuild the downstream ditch in order to provide a positive grade away from the cross drain.</i>	31 \$137,132
184	Cedar Tree Lane (at Cedar Point Rd) <i>Increase the capacity of the culverts under Cedar Tree Lane to prevent roadway flooding. The roadway in this area should also be paved to decrease sediment buildup in the culverts.</i>	31 \$85,872
185	Welcome Rd (at the bend) <i>Increase the capacity of the culvert under Welcome Road to prevent roadway overtopping and add end treatments and riprap to prevent erosion.</i>	31 \$47,062
186	Hernandez Street pond site 3 <i>Construct a new pond on Hernandez St. to reduce flood staging in surrounding and downstream. This improvement will not negatively impact downstream properties/impacts.</i>	97 \$1,195,738
187	New 36 Inch Pipe Outlet Along Hernandez Street <i>Construct a new collection system and outfall connection to the existing system to decrease flood stages in the surrounding areas. This improvement could have impacts on all downstream properties.</i>	97 \$2,232,399
188	Serenity Circle (pond) <i>Construction of stormwater pond adjacent to Serenity Circle.</i>	99 \$113,944
189	Beverly Parkway Basin Branch B- North Portion- Lookout Drive <i>Construct a stormwater system along Lookout Drive West Michigan Avenue, and Rock Island Place with a discharge to the FDOT pit.</i>	87 \$1,128,009
190	Bayou Grande Basin Study L1- Cousineau Rd. Outfall <i>Replace the outfall from Cousineau Rd. to Bayou Grade by an outfall ditch in order to prevent street flooding.</i>	117 \$25,281
191	Bayou Grande Basin Study BB10- Liberty Church Discharge Structure <i>Provide stormwater pond at Liberty Church with a discharge structure to control the water level and time of detention.</i>	113 \$14,045
192	Bayou Grande Basin Study CC2- Sidney Culvert <i>Enlarge existing culvert to prevent road flooding along Sidney Rd.</i>	113 \$16,854
193	Bayou Grande B1- New Storm Drainage System <i>Construct a new street collection system consisting of roadside swales and culverts along 1st and 2nd streets to reduce roadway flooding. Improvement is an independent project and will not affect downstream properties.</i>	119 \$308,994
194	Calle Juella Drainage at Via DeLuna <i>Regrade to a grate inlet with outfall through an exfiltration pipe</i>	127 \$93,595
195	Calle Traviesa Drainage at Via DeLuna <i>Regrade to a grate inlet with outfall through an exfiltration pipe</i>	127 \$93,595
196	Siguenza Drive Drainage <i>Construct a small retention area at the bend adding a new inlet at the location of the flooding</i>	123 \$93,595
197	Frank Reeder Rd ditch <i>Construct a ditch along Frank Reeder Road.</i>	47 \$68,655

Rank	Project		Page
198	Hurst Hammock <i>Construct an additional culvert under Hurst Hammock and install flap valves on the downstream side of the culverts to prevent the propagation of seawater from tidal action.</i>	\$61,902	81
199	Bayou Grande Basin Study P5- Grundy Culvert <i>Enlarge the existing culvert on Grundy in order to prevent road flooding. This improvement may impact other improvements.</i>	\$25,843	115
200	Sal Tillo - Bayou Marcus/Millview Study Branch C <i>Improve the stormwater collection system serving the area around Sal Tillo Street.</i>	\$188,068	91
201	Perdido Bay Country Club Estates Unit 7 <i>Drainage and resurfacing projects to address flooding and groundwater problems</i>	\$170,000	121
202	Bayou Grande Basin Study E2-Brigadier St. Culvert <i>Increase the culvert size on Brigadier St. to prevent road flooding. This Improvement may have a negative impact on downstream roadway flooding.</i>	\$33,708	107
203	Bayou Grande Basin Study P4- Bay Meadows Dr. Culvert <i>Replace the existing culvert on Bay Meadows Dr. with larger pipes to prevent road flooding.</i>	\$56,181	115
204	Bayou Grande Basin Study BB8- Vonna Jo Discharge Structure <i>Provide stormwater pond on Vonna Jo Circle with a discharge structure to control the water level and time of detention.</i>	\$14,045	113
205	Imperial Drive - Bayou Marcus/Millview Study Branch B <i>Construct new stormwater system for the area around Imperial Drive to reduce flooding in the area.</i>	\$526,033	91
206	49th Av - Warrington Basin Study Branch K <i>Construct a new stormwater system along 49 the Ave with a discharge to the existing county pond on Lillian Highway.</i>	\$1,648,952	93
207	Carrollwood Subdivision Resurfacing & Drainage Rehabilitation <i>Replace older cross drain at Stillbrook Road and repair existing drainage system on Pickwood including grading/resurfacing on Candlewood Circle</i>	\$1,200,000	65
208	Crabtree Church Rd (East of Chestnut Rd) <i>Increase the capacity of the culverts under Crabtree Church Road to decrease roadway flooding.</i>	\$51,767	21
209	Saint James Place-Warrington Basin Study Branch C <i>Construct a new stormwater system for the St James Place/Dowdy Drive area.</i>	\$902,785	105
210	Bayou Grande Villas <i>Roadway/drainage and sewer improvements; currently under design (NE of Fairfield and Gulf Beach Highway; Fairfield Dr to Colbert)</i>	\$200,000	115
211	Aileron Ave - Bridge Creek/Heron Bayou Basin Branch B <i>Install a new storm sewer system along Aileron Avenue and increase the capacity of the existing culvert under Dog Track Road to reduce roadway flooding.</i>	\$189,379	103
212	Tatnall Street - Bridge Creek/Heron Bayou Basin Branch D <i>Extend the existing ditch northward into the bayou to reduce flooding.</i>	\$163,750	103
213	Main channel crossing at a private driveway located between Asland Rd and Interstate 10 <i>Raise the road height by constructing a bridge at the private driveway crossing of the main channel to prevent road overtopping and reduce flooding.</i>	\$92,885	61
214	Schaag Rd (North of Hwy 196) <i>Raise the surface elevation of a portion of Schaag Road and increase the capacity of the culverts underneath to prevent roadway overtopping.</i>	\$351,943	27
215	Catholic High Zone C Drainage <i>Re-evaluate previous basin study solution (a new discharge trunk line with storm sewer extensions, treatment swales, and underground vaults) to determine whether ponds or direct piping produces the greatest impact.</i>	\$9,000,000	97
216	Via DeLuna Side road Connection Drainage Improvements <i>Drainage Improvements</i>	\$334,268	125

Rank	Project	Page
217	Visitor Information Center Access Road Drainage <i>Regrading and repaved roadway to add slope and positive outfall to drainage inlets</i>	123 \$93,595
218	Beulah Rd sag near bridge <i>Regrade Beulah Road to prevent overtopping. Improvement may have a negative effect on downstream properties.</i>	39 \$248,732
219	Windham Pond Outfall <i>Construct an outfall for the Windham Pond. This improvement could cause negative effects to other properties.</i>	83 \$293,987
220	Felton Pond Outfall <i>Construct an outfall to connect the Felton Pond to the Windham Pond. This improvement could cause negative effects to other properties.</i>	83 \$342,660
221	Catholic High Basin Zone B - Intersection of "S" Street and Avery Street and consist of a large storm sewer system running up "S" Street to Leonard Street <i>Increase and expand existing storm collection system and provide stormwater treatment. Provide tie-ins to outfall proposed in "Begins at the intersection of Avery Street and run south to Gonzalez Street, west to "U" Street and south on "U" Street to its discharge point to Maggie's Ditch." This improvement can only be constructed after the completion of the proposed outfall trunk line.</i>	97 \$3,850,727
222	Pearson Rd- Bayou Marcus/Millview Basin Branch C <i>Construct new stormwater system for the area around Pearson Road to reduce flooding in the area.</i>	91 \$1,364,488
223	Improve Open Ditch Outlet Terminating at Fairfield Drive <i>Enlarge outlet orifice for open ditch flowing to Fairfield Drive. This will not negatively impact downstream properties/improvements.</i>	97 \$20,990
224	Ailanthus Drive and Bauer Drive (culverts) <i>Upgrade culvert near intersection of Ailanthus Drive and Bauer Drive.</i>	99 \$301,051
225	Monroe Avenue <i>Increase the capacity of the culverts under Monroe Avenue to decrease roadway flooding. This may have negative impacts on downstream properties.</i>	37 \$90,647
226	Bronson Airfield design 1 (northeast corner) <i>Construct a pond in the northeast corner of the Bronson Airfield property.</i>	99 \$1,017,098
227	Bellview and East Fence/Saufley Road <i>Provide conveyance system to Sauflay Field C&D Pond from Bellview</i>	83 \$1,500,000
228	61st Ave - Bayou Marcus/Millview Basin Branch D <i>Increase the capacity of the 61st Avenue stormwater system to reduce flooding in the area.</i>	93 \$374,139





34	Intersection of Hwy 29 and Hwy 97	\$558,137
Construct a dry pond and conveyance pipes at the corner of Highway 97 and Crabtree Church Road to contain and control downstream stormwater runoff. Increase the capacity of culverts running under Highway 29 to reduce roadway flooding.		
54	Hwy 29 (North of Bet Raines Rd)	\$323,506
Increase the capacity of culverts under Highway 29 and modify the surrounding ditch area to reduce roadway flooding.		
84	Hwy 97 (East of Hwy 29)	\$201,759
Increase the capacity of the culverts under Highway 97 to decrease likelihood of roadway flooding.		
92	Hwy 29 (North of Hwy 97)	\$283,017
Increase the capacity of the culverts under Highway 29 near North Highway 95A to prevent flooding.		
93	Hwy 97 at Elementary School	\$297,927
Increase the capacity of the two culverts under Highway 97 near the Molino School and connect them with an earthen ditch. This will prevent roadway flooding.		
150	Crabtree Church Rd at Abbott Lane	\$927,730
Replace the existing culverts under Crabtree Church Road with a bridge to reduce roadway flooding.		
208	Crabtree Church Rd (East of Chestnut Rd)	\$51,767
Increase the capacity of the culverts under Crabtree Church Road to decrease roadway flooding.		



BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

158	Chestnut Rd North	\$271,465
Raise the elevation of Chestnut Road increase the flow capacity of the culverts to decrease roadway flooding.		
152	Bridge on Bet Raines Rd	\$17,001
Improve flow conditions through the bridge area by removing trees and brush from the flow path and ensuring a 6 foot clearance below the bottom of the bridge.		
151	Bet Raines Rd (East of Bridge)	\$75,991
Increase the capacity of the culverts underneath Bet Raines Road and construct an earthen ditch to improve flows and reduce yard flooding.		
153	Chestnut Rd South	\$101,837
Increase the capacity of the culverts under Chestnut Road to decrease roadway flooding and possible home flooding.		
91	Hwy 29 (South of Omega Drive)	\$331,272
Increase the capacity of the culverts under Highway 29 south of Omega Drive to reduce roadway flooding.		
71	Chestnut Rd to Hwy 29	\$1,027,014
Remove accumulated sediment from the upstream side of the Chestnut Road bridge in order to lower downstream velocities. Replace the culverts under Molino Road and Chestnut Road with bridges to prevent roadway overtopping and increase flow capacity.		



BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

149

Schaag Rd at Stokes Pond

\$98,040

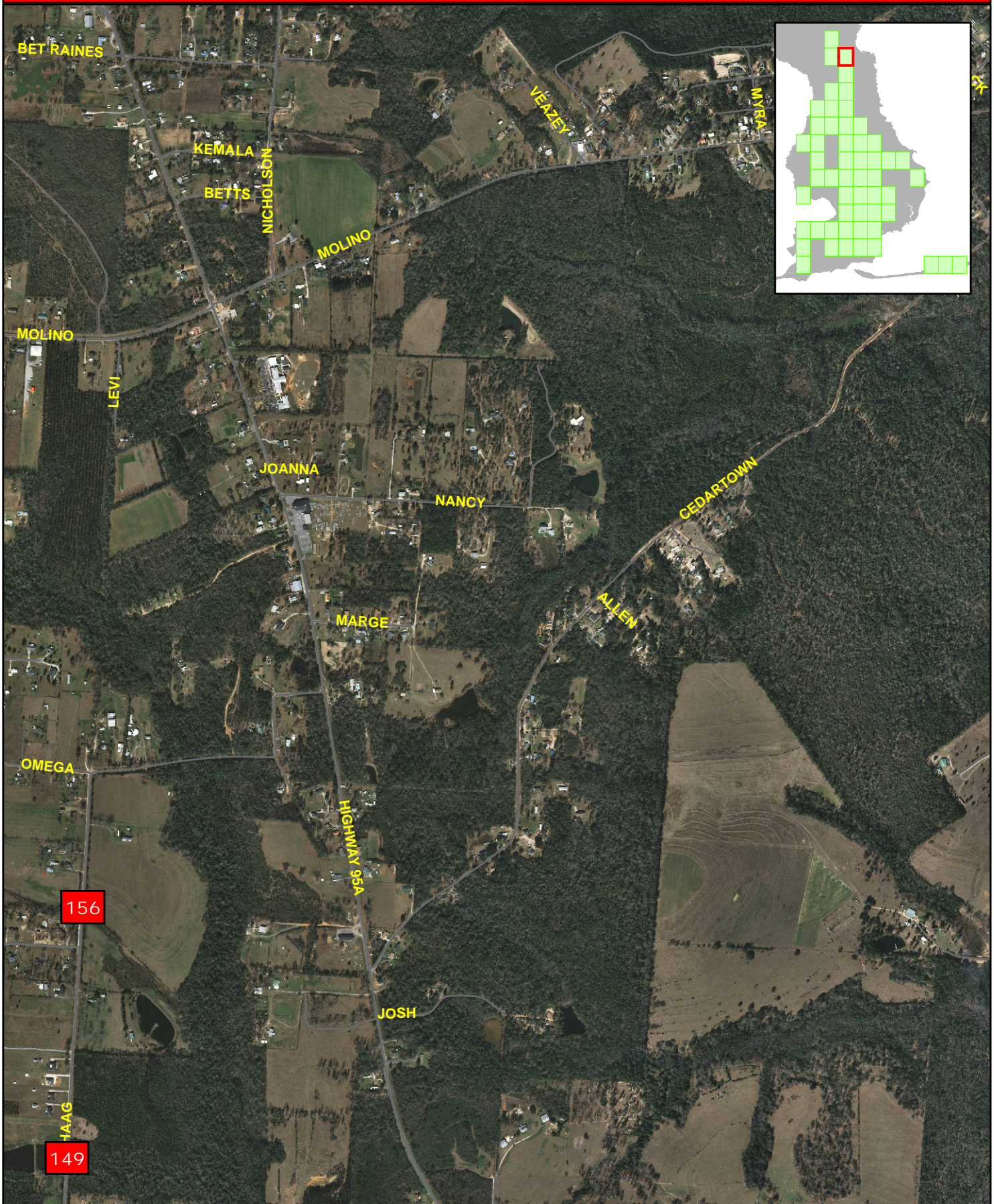
Place riprap along the channel from Stokes Pond to the cross drain inlet to prevent channel erosion. Replace the upstream headwall to prevent headwall failure and roadway undermining.

156

Schaag Rd Bridge at Jack's Branch Tributary P

\$695,188

Replace the existing bridge with a new bridge that has sufficient hydraulic capacity to prevent roadway overtopping.



BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



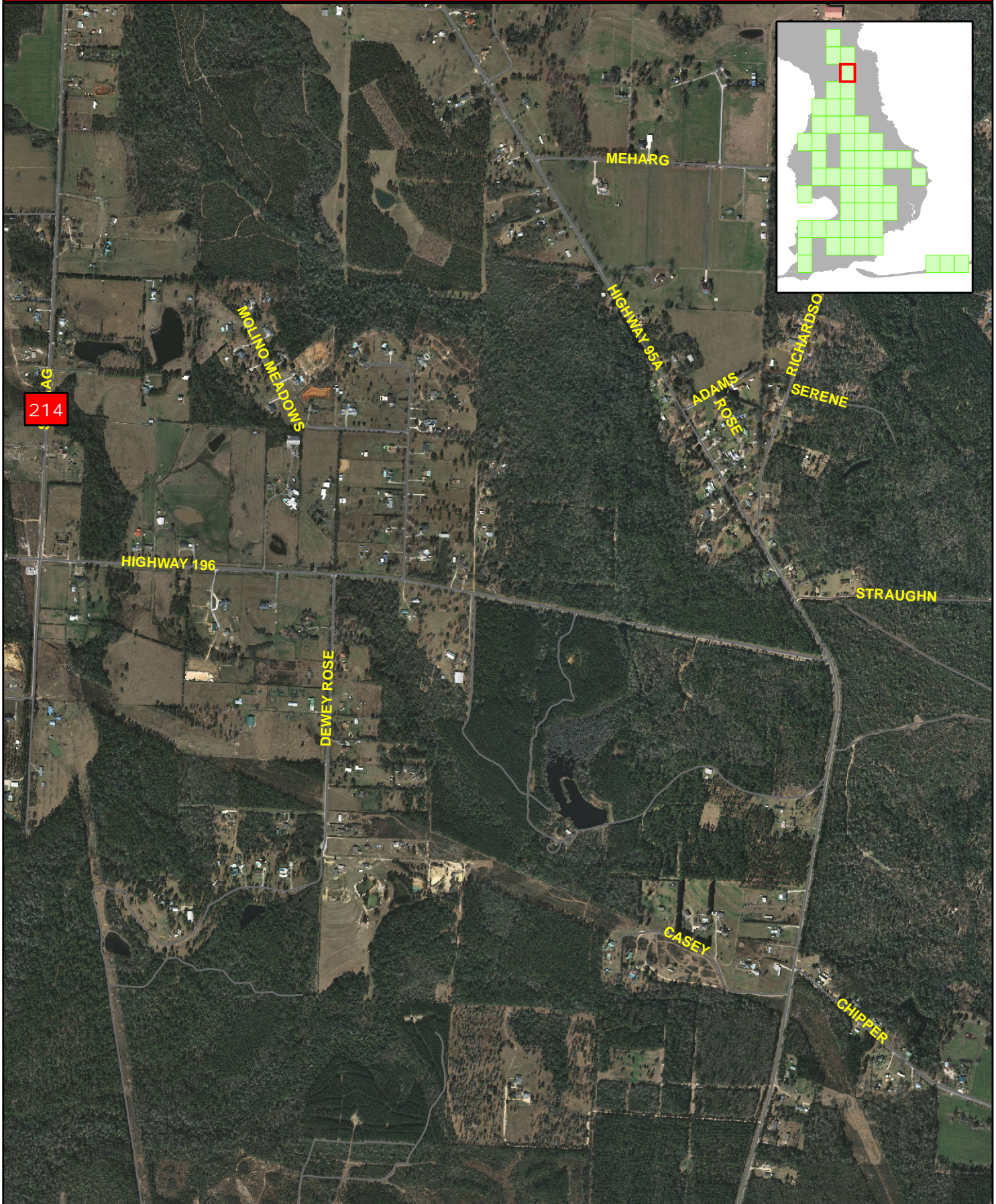
1,200
Feet

214

Schaag Rd (North of Hwy 196)

\$351,943

Raise the surface elevation of a portion of Schaag Road and increase the capacity of the culverts underneath to prevent roadway overtopping.

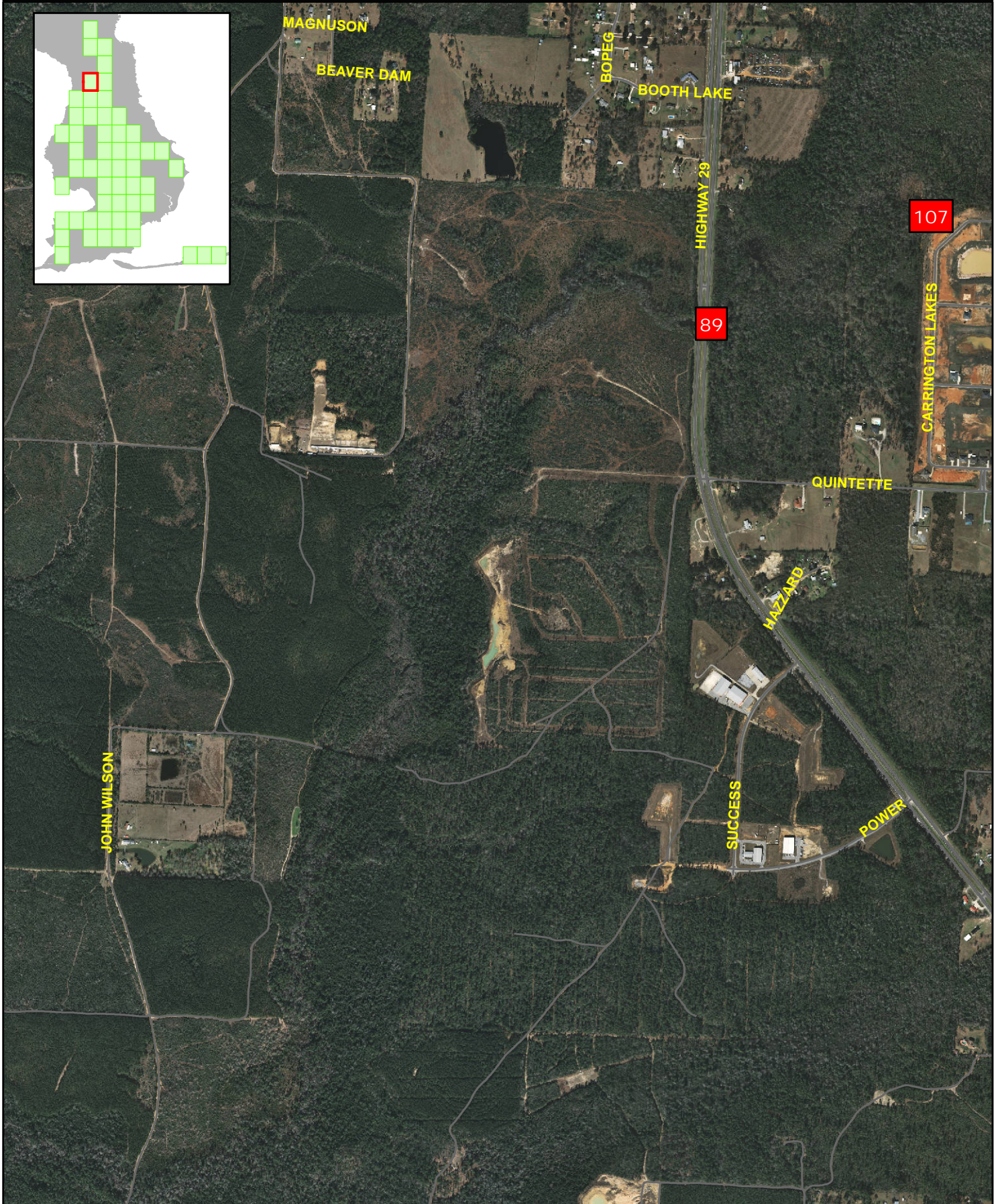
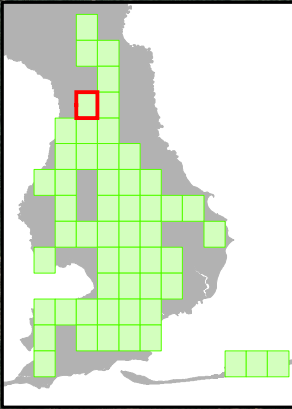


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions

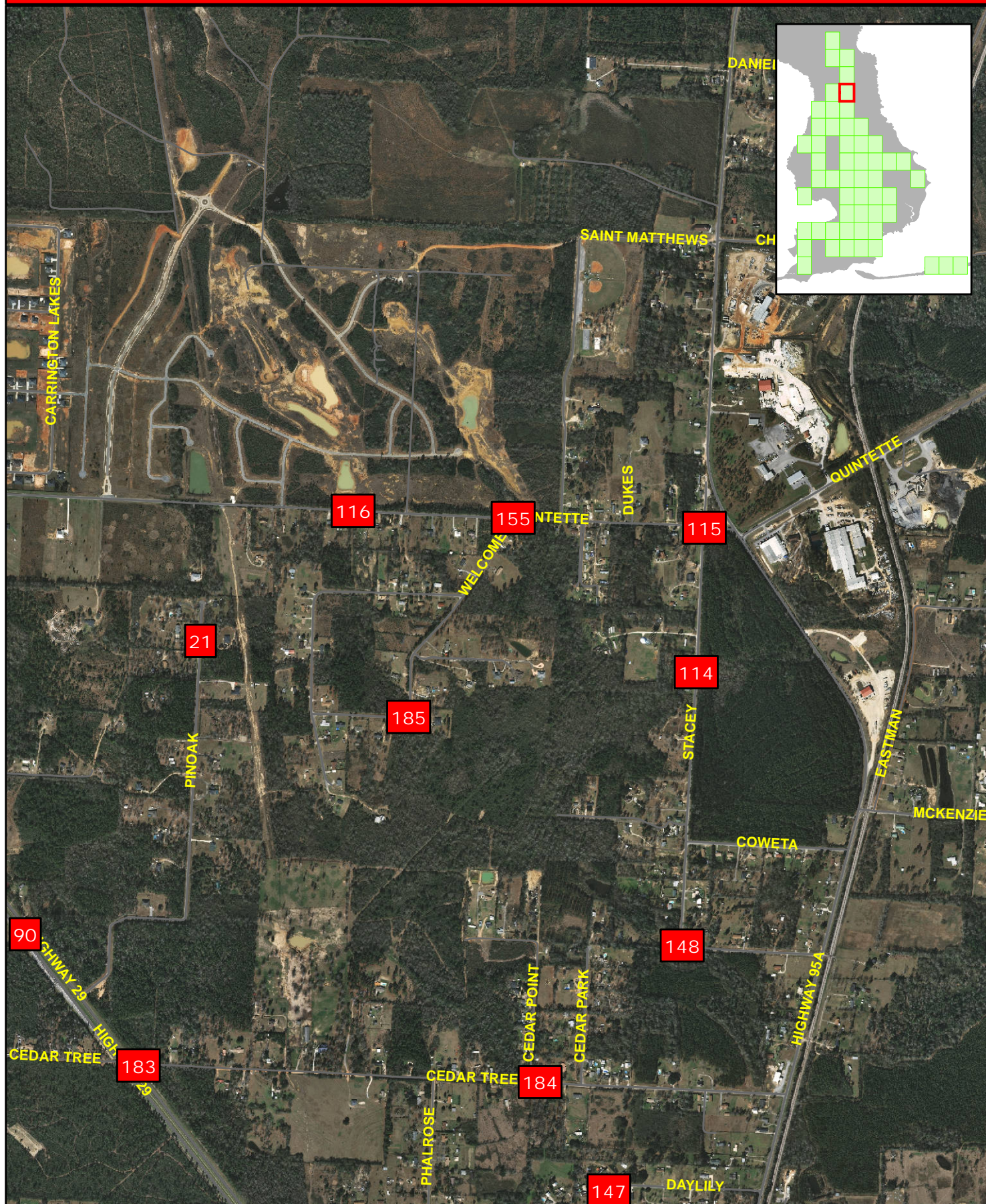


1,200
Feet

89	Hwy 29 (North of Quintette Rd.)	\$2,412,936
Replace the existing culverts under (divided) Highway 29 north of Quinette Road with two bridge structures to increase flow capacity and prevent roadway overtopping.		
107	Carrington Lakes	\$276,893
Repair outfall erosion at the private subdivision pond to prevent further erosion and possible wetland impacts.		



116	Quintette Rd (North of Welcome Circle)	\$59,474
Increase the capacity of the culverts under West Quintette Road and replace the existing grate inlet to decrease roadway flooding. These improvements may have a negative impact on downstream properties.		
155	Quintette Rd (at Welcome Rd)	\$51,489
Increase the capacity of the culverts under Quintette Road and improve the downstream channel in order to reduce roadway flooding.		
115	Stacey Rd at Quintette Rd	\$127,811
Increase the capacity of the culverts under Stacey Road and Quintette Road and construct a ditch that connects them to prevent roadway and home flooding.		
21	Pin Oak Lane Drainage (Phase 1) and Flood Plain Restoration Project (Phase 2)	\$725,277
Construct a new roadway connection to Quintette Road at North end. Also purchase property to restore flood plain at South end.		
185	Welcome Rd (at the bend)	\$47,062
Increase the capacity of the culvert under Welcome Road to prevent roadway overtopping and add end treatments and riprap to prevent erosion.		
114	Stacey Rd (at the bridge)	\$45,289
Clear and grade the existing channel area and construct an improved concrete outfall channel to provide adequate stormwater conveyance and reduce yard and building flooding.		
90	Hwy 29 (Jack's Branch Q13)	\$2,410,815
Replace the existing culverts under (divided) Highway 29 with two bridge structures to increase flow capacity and prevent roadway overtopping.		
148	Stacey Rd (at the bend)	\$93,335
Regrade the right-of-way and increase the capacity of the culverts under Stacey Road to prevent roadway and yard flooding.		
147	Daylilly Road	\$49,488
Increase the capacity of the culverts under Daylilly Road to decrease roadway overtopping. This improvement may have a negative effect on downstream homes, so the downstream ditch should be considered in construction plans.		
183	Cedar Tree Lane (Hwy 29 Side Drain)	\$137,132
Lower and increase the capacity of the culverts under Cedar Tree Lane to prevent roadway flooding. Rebuild the downstream ditch in order to provide a positive grade away from the cross drain.		
184	Cedar Tree Lane (at Cedar Point Rd)	\$85,872
Increase the capacity of the culverts under Cedar Tree Lane to prevent roadway flooding. The roadway in this area should also be paved to decrease sediment buildup in the culverts.		

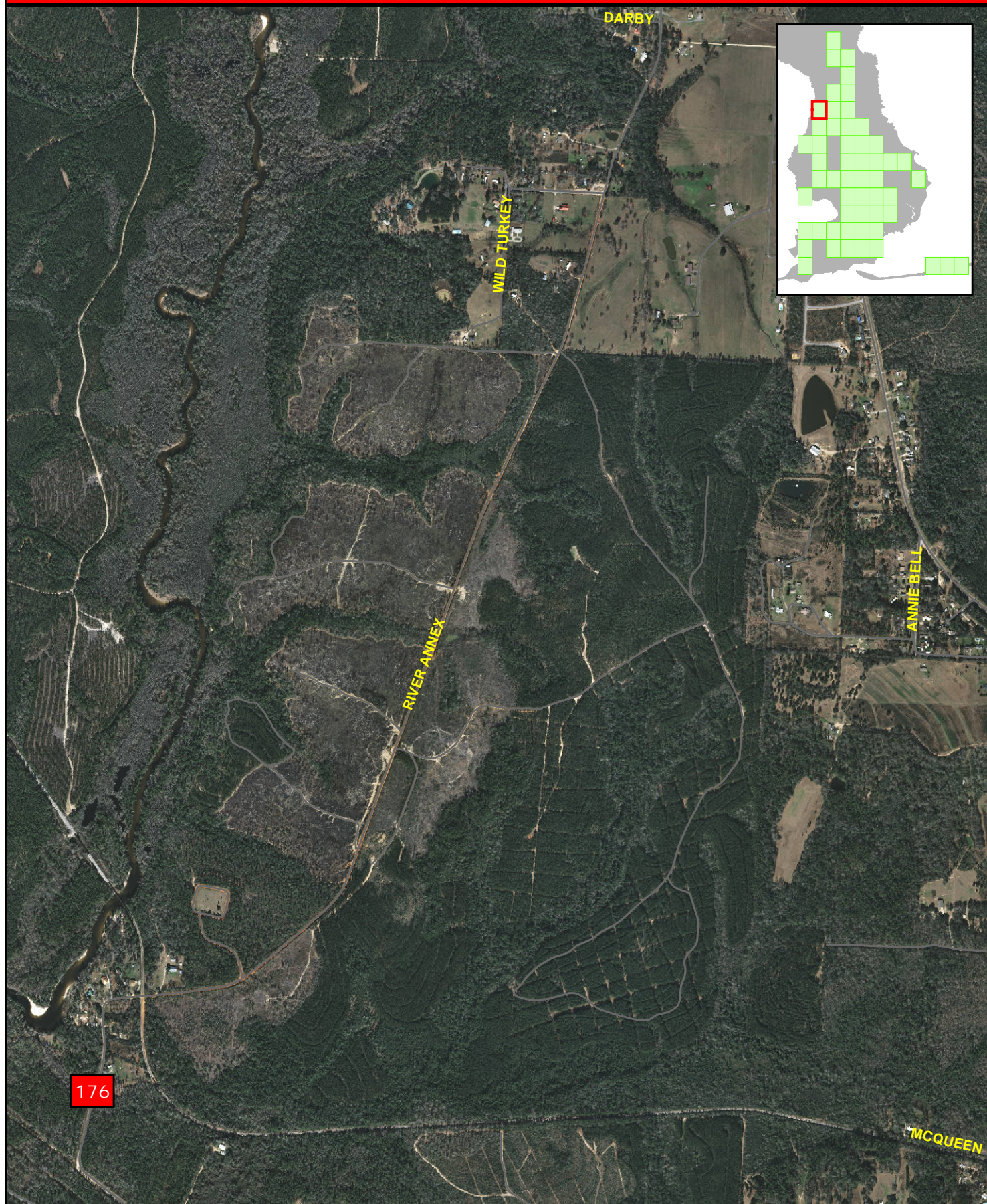


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

176	River Annex Road bridge	\$623,519
Reconstruct the bridge over River Annex Road to a higher elevation.		

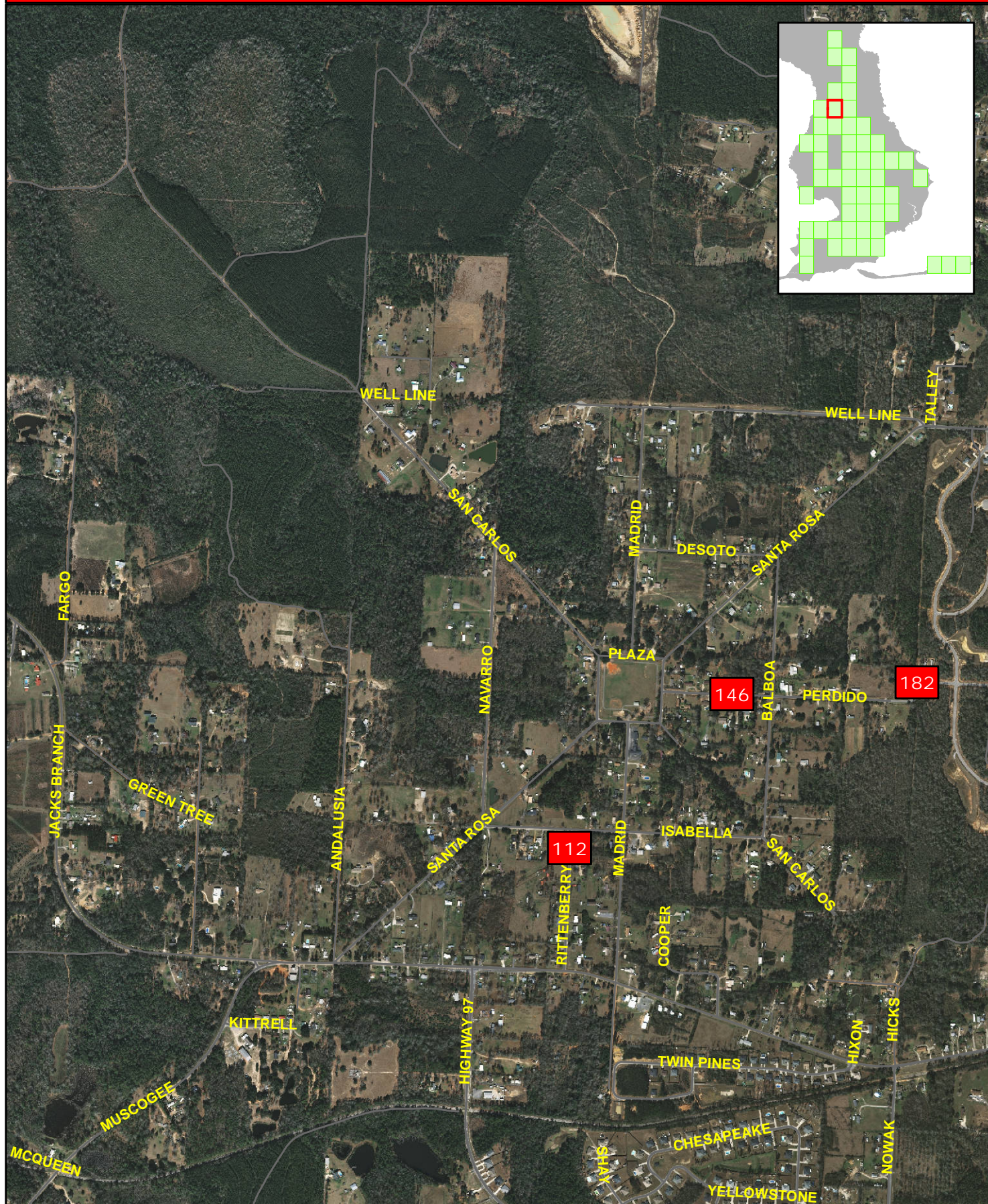


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

112	Rittenberry Drive	\$70,597
Increase the capacity of the culverts under Rittenberry Drive and Madrid Road and deepen the roadside ditches to prevent home flooding.		
146	Perdido Rd West of Balboa Road	\$43,814
Increase the capacity of the culverts under Perdido Road to decrease roadway and yard flooding. This will negatively effect downstream properties and should be performed in conjunction with other Balboa Road improvements.		
182	Perdido Rd at Saverna Park	\$166,774
Increase the capacity of the culverts near Perdido Road to prevent roadway overtopping.		



BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

113	Well Line Rd	\$58,461
Increase the capacity of the culverts under Well Line Road to reduce roadway flooding. Clear debris and large pieces of concrete pipe from the downstream channel to facilitate stormwater flow.		
141	Brookshill Drive	\$409,429
Replace the existing culverts under Brookshills Drive with a bridge span to increase flow capacity under the road and decrease roadway, yard, and home flooding. Set a minimum finished floor elevation for any new homes built along the road in order to prevent structure flooding.		
53	Well Line Rd Home Flooding	\$67,472
Increase the capacity of the culvert under Well Line Road to reduce roadway and home flooding. Connect the Well Line Road culvert to the culvert running under Forrest Street to minimize water flowing across the property (this will require permission or easements from two property owners).		
225	Monroe Avenue	\$90,647
Increase the capacity of the culverts under Monroe Avenue to decrease roadway flooding. This may have negative impacts on downstream properties.		
36	Carver Park Area Drainage Improvements West of 297A	\$2,250,000
Four-phase roadway and drainage improvement project for the area south of Muscogee Road, north of the Road Camp, east of Booker, and west of Ransom, requiring property pond acquisition and drainage conveyance improvements.		



BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

162	Muscogee Rd & Beulah Rd	\$59,651
Reconstruct the ditches in the area of the intersection and construction of a culvert under Beulah Road.		
129	Beulah Road Ditch	\$90,039
Clean out existing culvert and construct a new ditch to convey stormwater to the culvert.		
218	Beulah Rd sag near bridge	\$248,732
Regrade Beulah Road to prevent overtopping. Improvement may have a negative effect on downstream properties.		

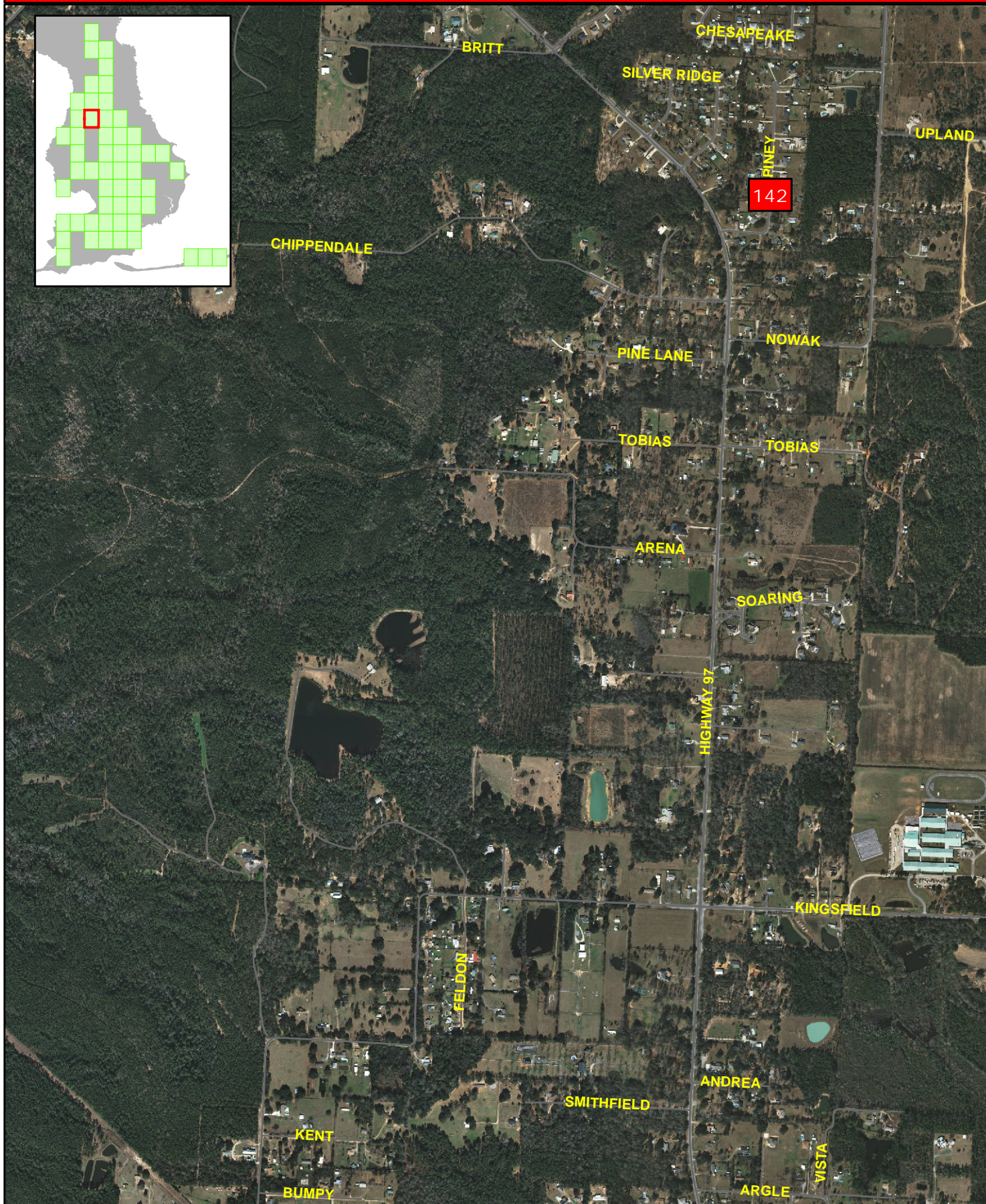


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

142	Piney Lane	\$101,294
Construct a ditch along the road and a culvert under Piney Lane.		



BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

40	Carver Park/West Booker Road	\$1,327,654
Reduce area flooding by increasing the capacity of area conveyance structures as well as constructing a new pond.		
58	International Paper Area	\$367,980
Increase capacity of drainage system in order to reduce roadway overtopping and upstream flood stages.		

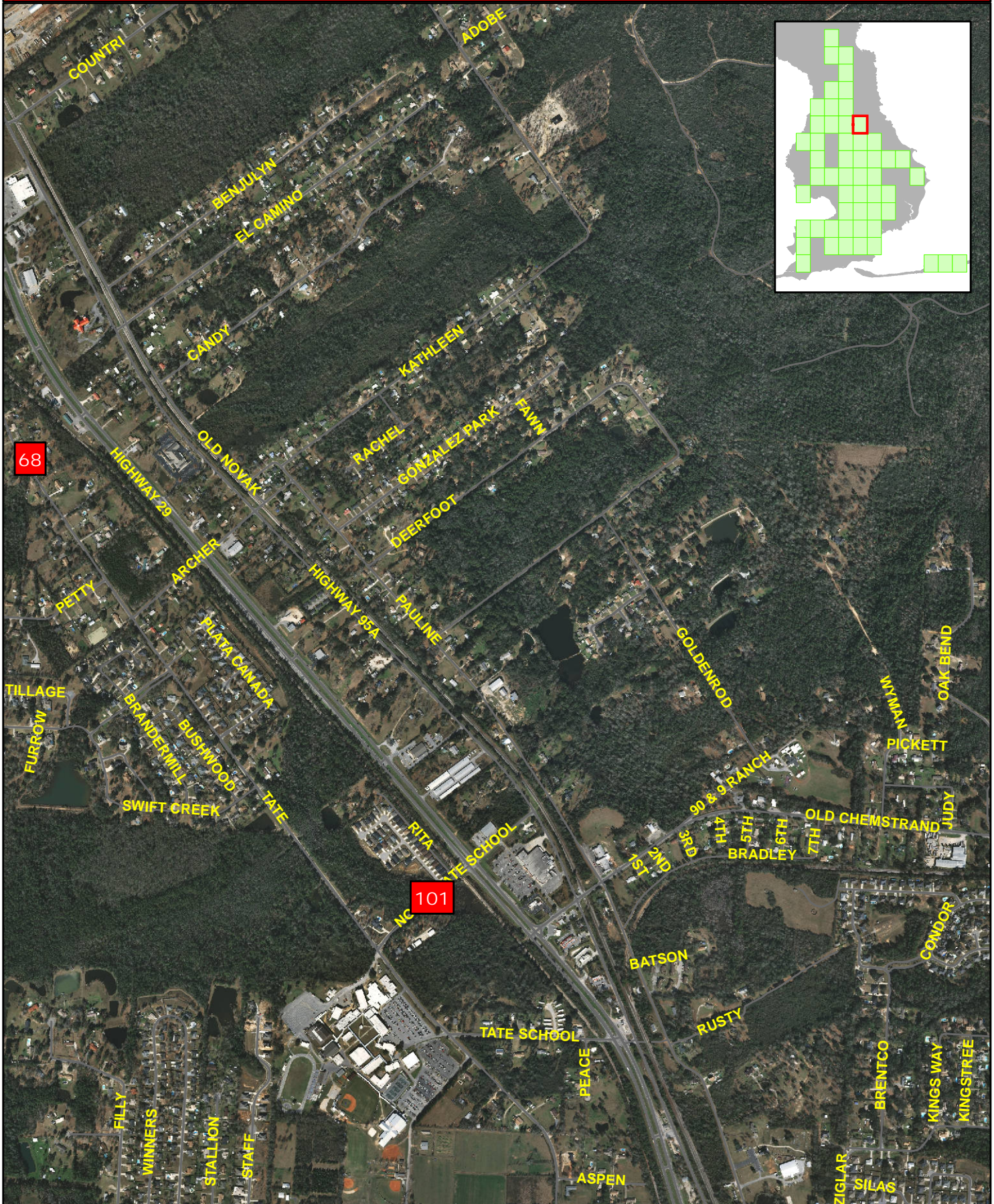


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

68	Tate Road North of Petty St	\$13,269
Increase capacity of roadway culvert crossings to prevent overtopping of Tate Road		
101	Hwy 29/Tate School Road	\$187,331
Increase capacity of culverts to prevent overtopping of Tate Road		

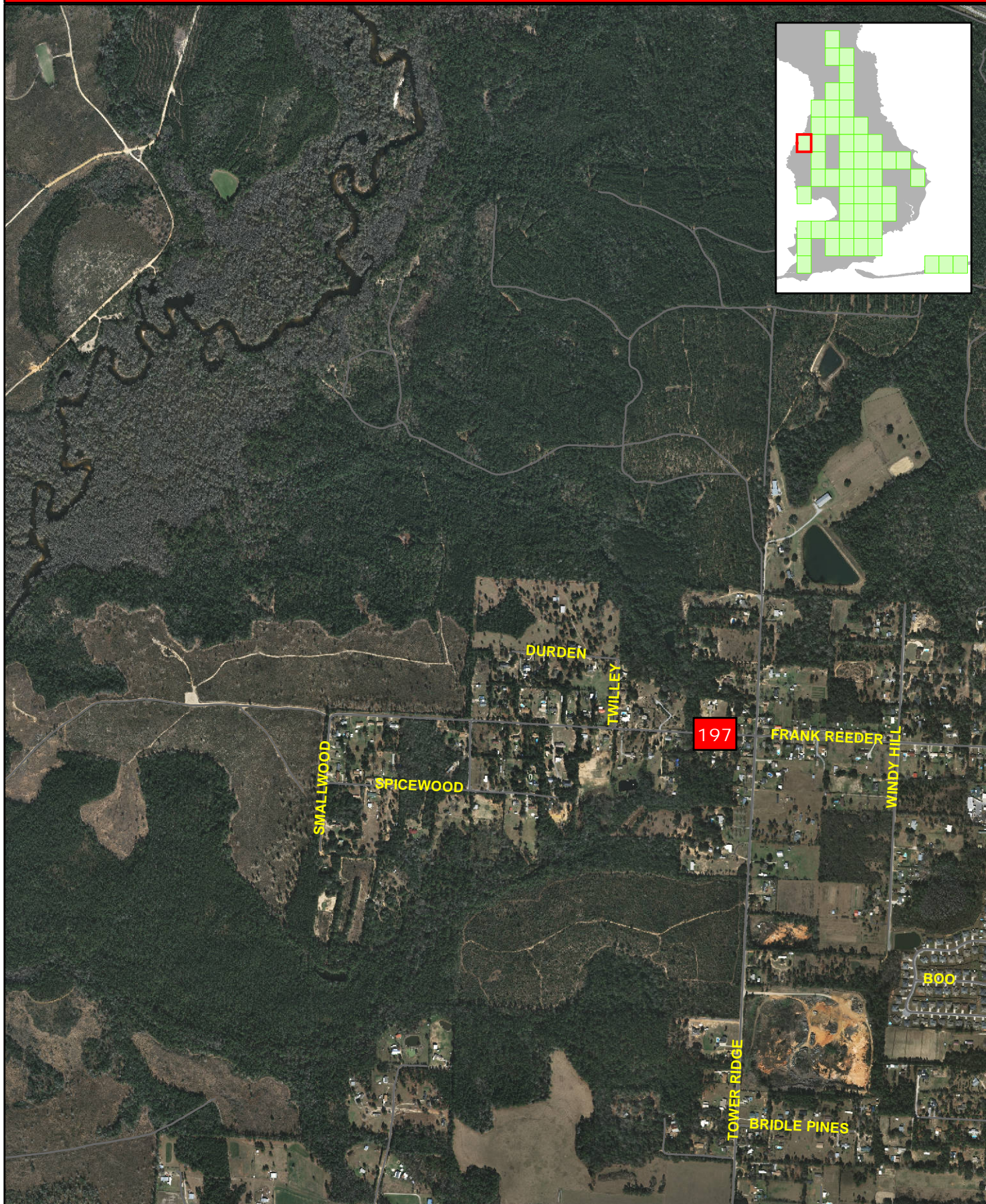


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

197	Frank Reeder Rd ditch	\$68,655
Construct a ditch along Frank Reeder Road.		

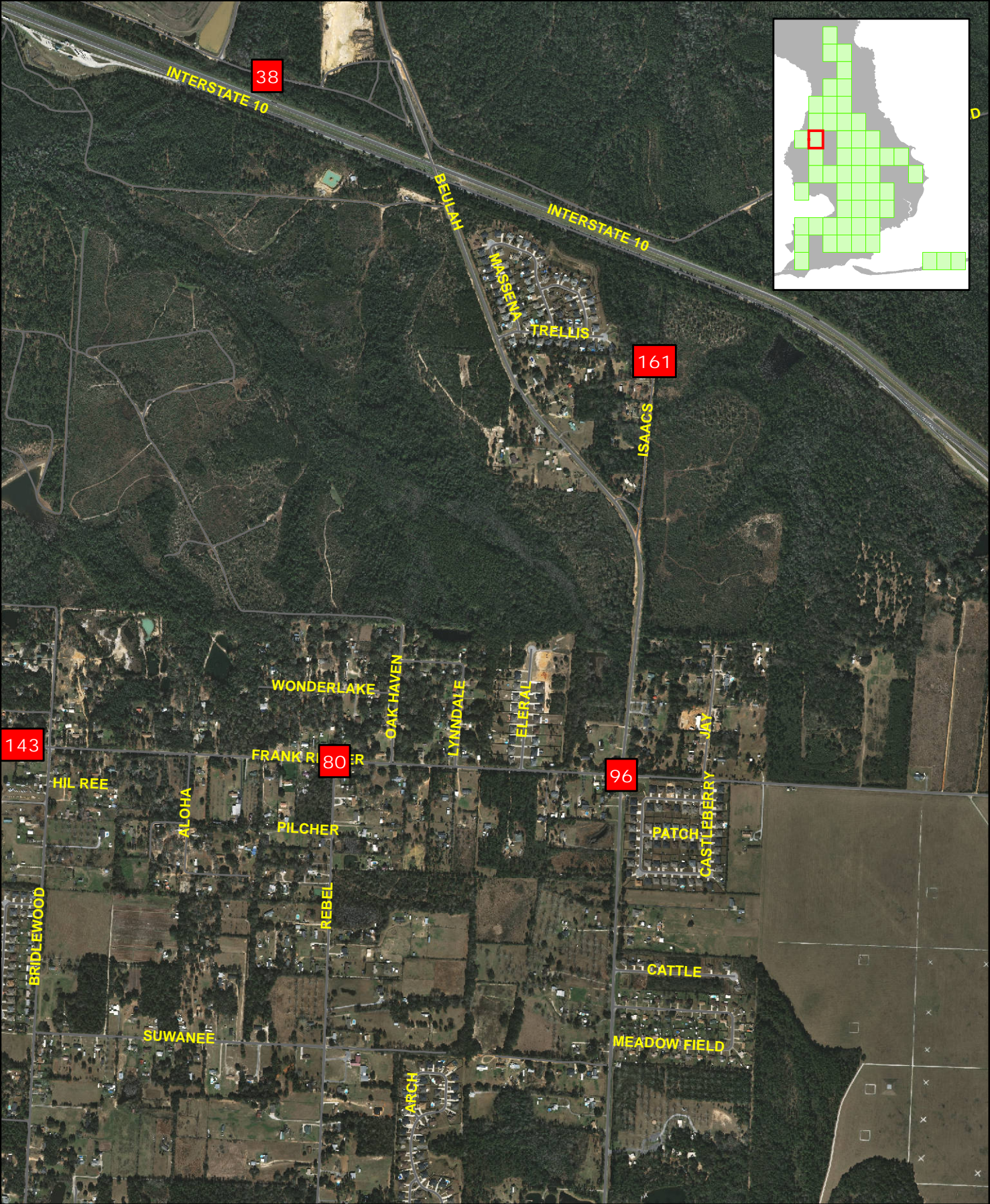


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

38	Raise berm east of landfill (Perdido River South Basin)	\$623,519
Raise the berm east of the landfill to prevent an existing pond from overtopping.		
161	Isaacs Rd	\$114,800
Construct a ditch along Isaacs Road and a new culvert under Beulah Road.		
80	Frank Reeder Rd & Rebel Rd	\$49,521
Reconstruct the swale in the area near Rebel Road and construct a culvert under Frank Reeder Road.		
173	Riola Place - Bridge Creek/Heron Bayou Study Branch E	\$189,379
Lower pipe inverts and increase the capacity of the culvert under Riola Place to decrease out-of-bank channel flooding.		
96	Frank Reeder Rd & Beulah Rd	\$64,153
Reconstruction of the ditch and installation of culverts where necessary to provide a defined drainage path.		

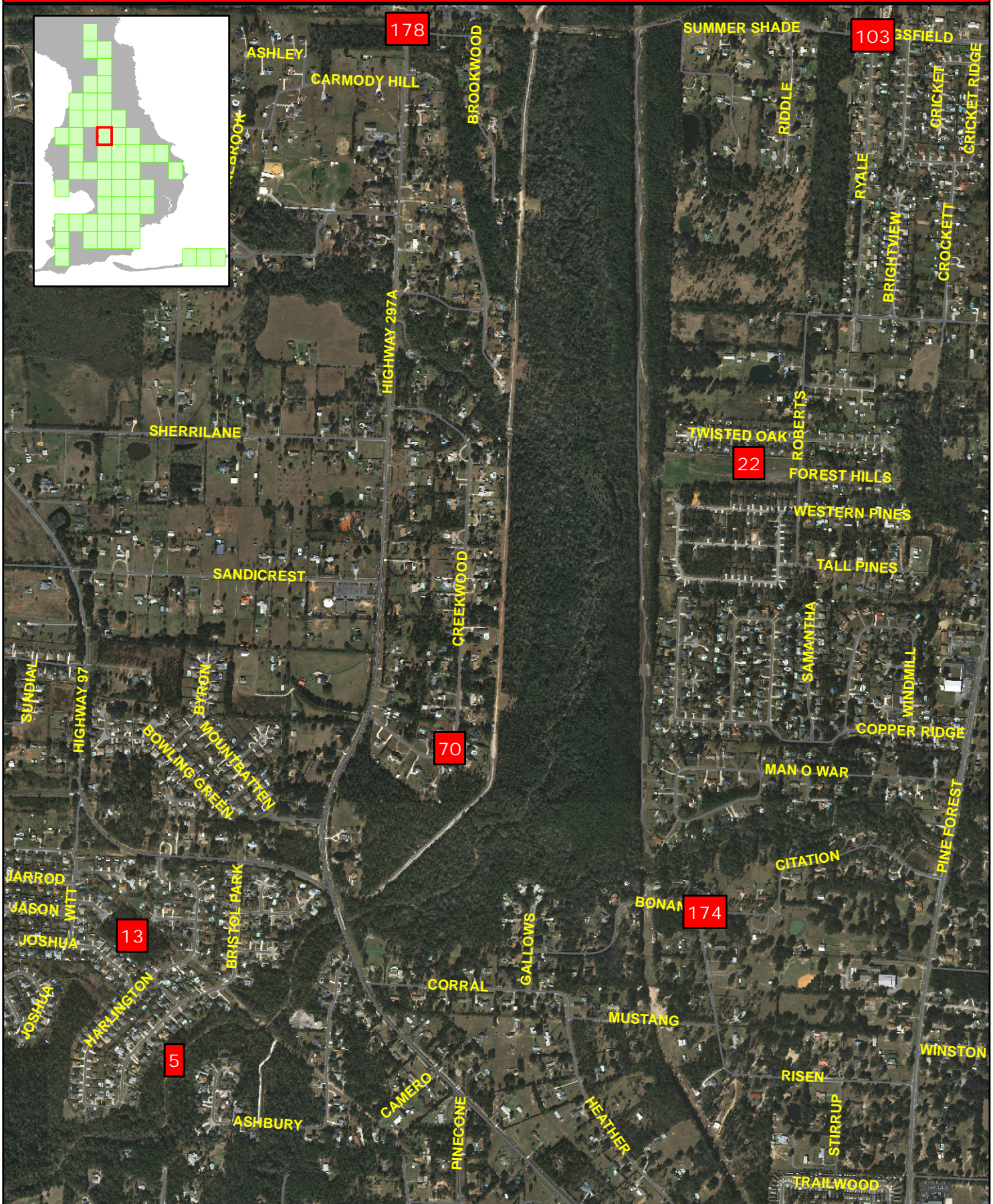


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

178	SR 297-A/Meander Road	\$61,024
Increase capacity of culverts to prevent overtopping of State Road 297-A		
103	Ten Mile Creek from Roberts Rd North to Kingsfield Rd	\$4,494,457
Reconstruct the creek to provide additional storage volume and increase the culvert capacity under Roberts Road, Dolphin Street, Tate Road, and Kingsfield Road to prevent flooding to structures. Improvements may have a negative effect on downstream properties.		
22	West Roberts Drainage Improvements and Regional Pond (Regional Pond in 11-Mile Creek Basin)	\$1,500,000
Regional pond and conveyance system on West Roberts Road utilizing on FDOT pit (Part of 11 Mile Creek Basin Plan to reduce flood stage in Bristol Creek/Bristol Park/Ashbury Hills)		
70	Amanda Rd	\$6,896
Increase capacity of culvert at Creekwood Drive to prevent roadway overtopping		
13	Bristol Creek Property Acquisition	\$6,189,380
A large scale project, with a Property Acquisition Plan for repeatedly flooded property and easement acquisition. Project will be partially funded by HMGP grant if approved. Related to project "Flood Plain Management, Wetland Restoration, and Regional Pond Construction in 11-Mile Creek Basin."		
174	Risen Drive and Bonanza Drive	\$101,125
Upgrade the culvert under Bonanza Drive and obtain drainage easement over downstream ditch to reduce roadway flooding at the intersection. Improvement may have a negative effect on downstream properties.		
5	Flood Plain Management, Wetland Restoration, and Regional Pond Construction in 11-Mile Creek Basin	\$46,538,265
A large scale project to provide channel, stream, and flood plain restoration improvements, including at minimum of 9 regional stormwater management facilities (ponds). Project completion will require multiple grants to provide a complete realization of the 11-Mile Creek Basin Study Recommendations. The total estimated project costs is over at least a 10-year period.		



BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

69	Filley Rd	\$4,283
Increase capacity of culvert crossing to prevent overtopping of Filley Rd		
134	11 Mile Creek Basin Study Zone 8	\$99,466
Increase culvert capacity to reduce area flooding.		
65	Ten Mile Creek from Stefani Drive to Roberts Rd.	\$10,674,335
Reconstruct Ten Mile Creek from Stefani Drive to Roberts Road to provide additional storage capacity to reduce extensive flooding in the area. Improvement may have a negative effect on downstream properties.		
64	Ten Mile Creek from Pine Forest to Stefani Dr.	\$8,988,914
Reconstruct Ten Mile Creek from Pine Forest to Stefani Drive to provide additional storage capacity to reduce extensive flooding in the area. Improvement may have a negative effect on downstream properties		
26	11 Mile Creek Basin Study Zone 5	\$3,619,643
increase capacity of pipe under green hills rd. and construct a pond near urban drive to alleviate area flooding		
63	Ten Mile Road at Stefani Dr.	\$393,265
Increase the collection system size along Stefani Drive and Ten Mile Road and increase the capacity of the culverts under Midway Drive to reduce extensive flooding in the area. Improvement may have a negative effect on downstream properties.		
37	Haley Lane and Eagle Street	\$584,279
Reconstruct the Brookhollow collection system and construct a new collection system along 10 Mile Road to reduce roadway flooding. Improvements may have a negative effect on downstream properties.		
133	11 Mile Creek Basin Study Zone 6	\$258,586
increase culvert capacity under Amanda lane and 9 1/2 mile road (seems to be partial overlap with 94 priority 19)		



BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

72	Ashland Park Joint ECUA funded sewer and drainage	\$100,000
Improve Box Culverts at Rodney, Joel and Childers Streets.		
6	Willowbrook Lake Dam	\$500,000
Restore dam and overflow structure at Willowbrook dam East of Chemstrand Road to provide Water Quality		
108	Ashton Brosnahan Park	\$1,568,145
Construct a new stormwater pond at the end of Bet mark Lane with a ditch connecting runoff from the recreational center to the pond.		
88	Shadow Ridge Drive - Meadowview Lane	\$30,000
Drainage Improvements proposed within unopened County right-of-way in coordination with adjacent property to address property damage and erosion for the accumulation of development.		
110	Northcreek and Valley Ridge Area Drainage Joint Sanitary Sewer Project	\$250,000
Drainage and sanitary sewer improvements in Northcreek Subdivision and in the adjacent Deer Run and Valley Ridge subdivisions, as well as on Bison Road and Motley Court		
25	Ten Mile Road Drainage and Roadway Improvements	\$5,000,000
Address capacity and drainage problems from Chemstrand to Palafox to address flooding in the area of Holsberry Lane. May involve property acquisition.		

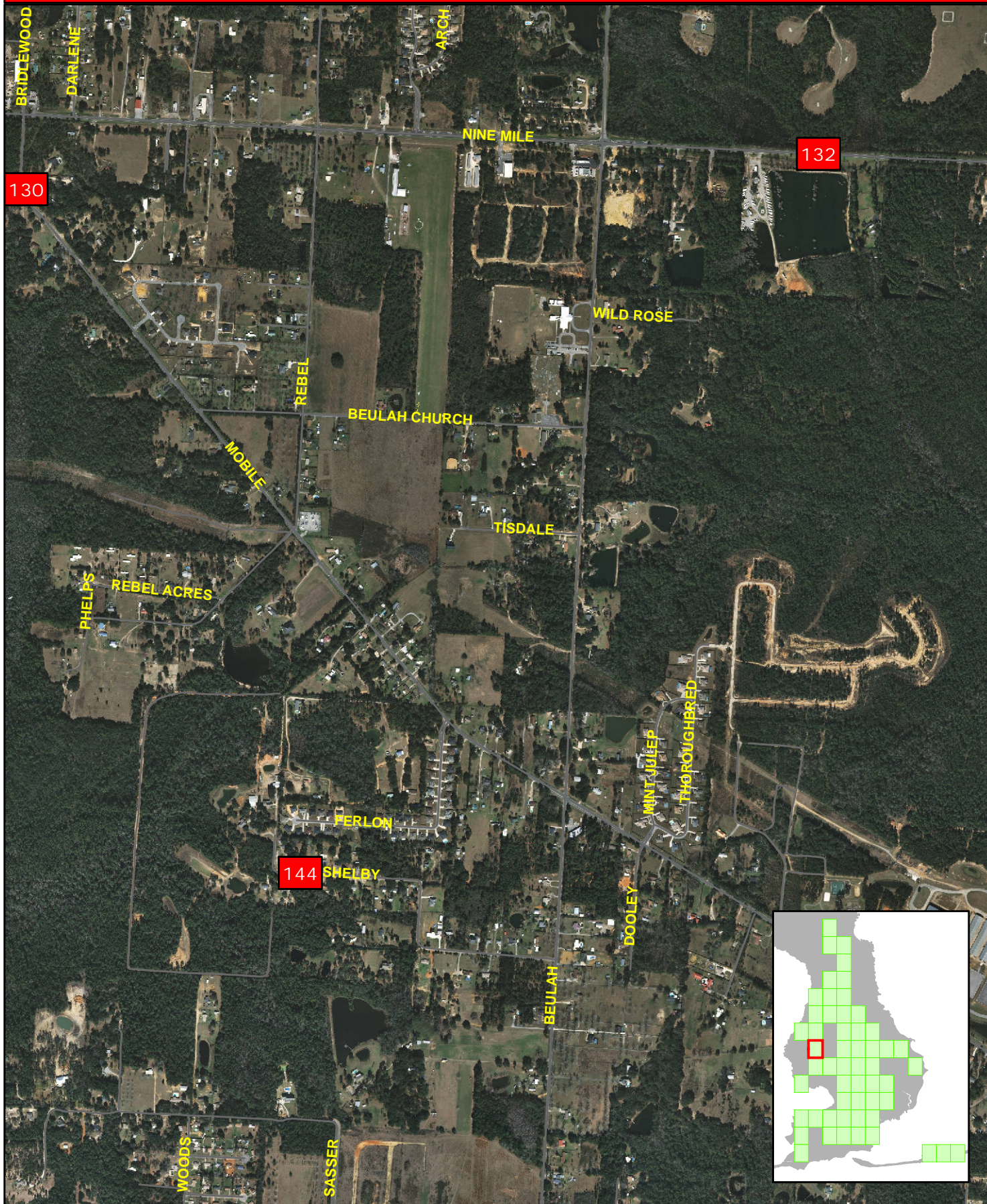


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

130	Bridlewood Rd (at Mobile Hwy)	\$929,651
Construct two stormwater ponds, remove the culvert under Bridlewood and construct a new culvert under Nine Mile Road to prevent yard and road flooding.		
132	Magaha Area/Nine Mile Road	\$1,240,677
Improve channel and increase capacity of the upstream structure along Nine Mile Road to prevent roadway overtopping and yard flooding.		
144	Shelby Lane	\$95,666
Construct a ditch along the road and a culvert under Shelby Lane.		



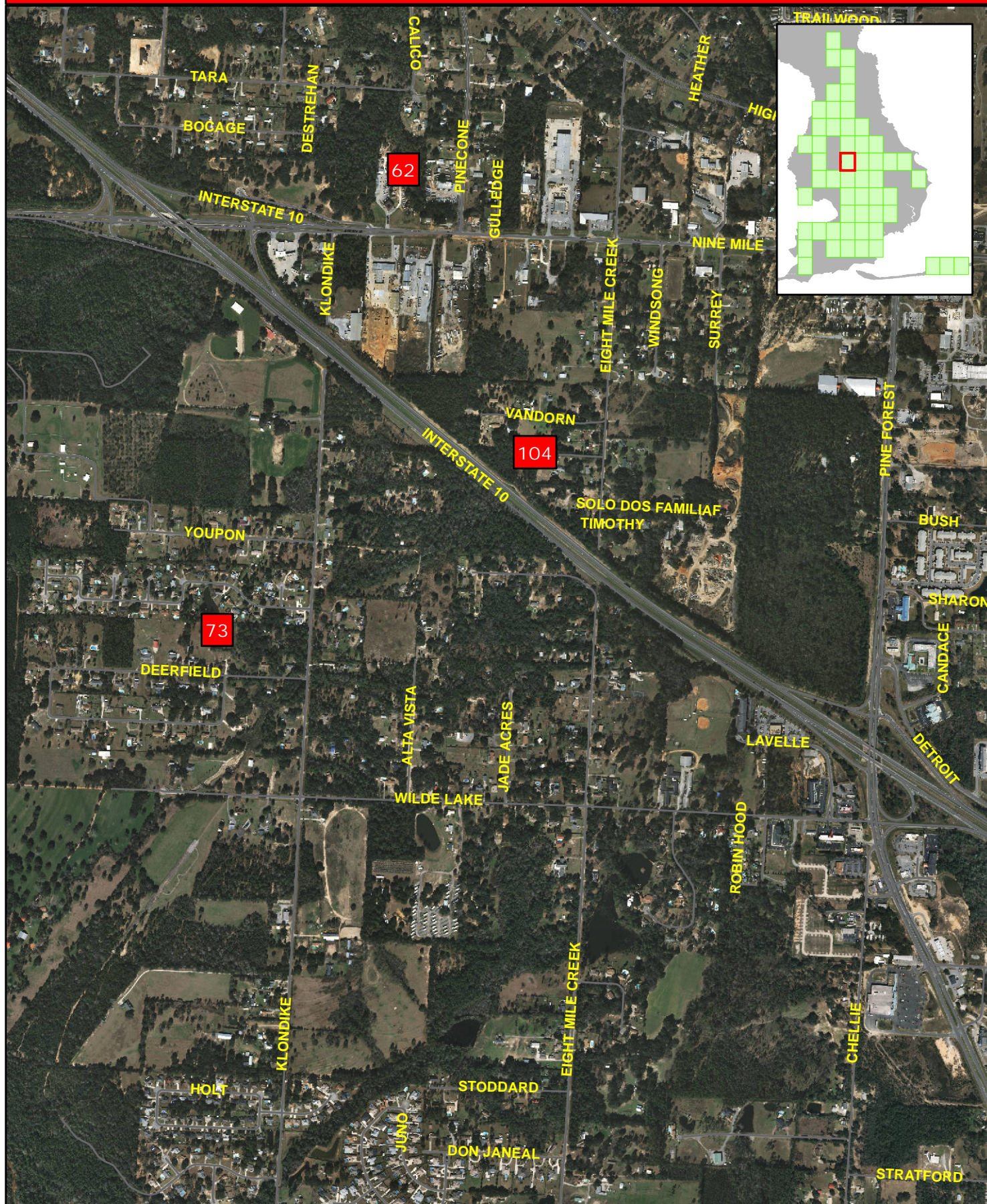
BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

A horizontal scale bar with a black outline, used to indicate the distance represented by the length of the bar.

62	System improvements between Interstate 10 and Hwy 297A	\$48,315,410
Reconstruct Eleven Mile Creek in this area to incorporate more volume for flood control within the stream in lieu of constructing detention ponds to prevent flooding of homes between I-10 and Hwy 297A. Report also suggests requiring attenuation of the 100 year event upstream of this area.		
73	Yupon/Pebble Creek/Deerfield	\$663,784
Reduce area flooding by enlarging existing ponds and increasing area culvert capacities.		
104	Pine Forest/Klondike Road	\$2,116,233
Construct two new retention/detention ponds and increase capacity of driveway culverts along Klondike Rd to reduce peak flows downstream, and reduce scour.		

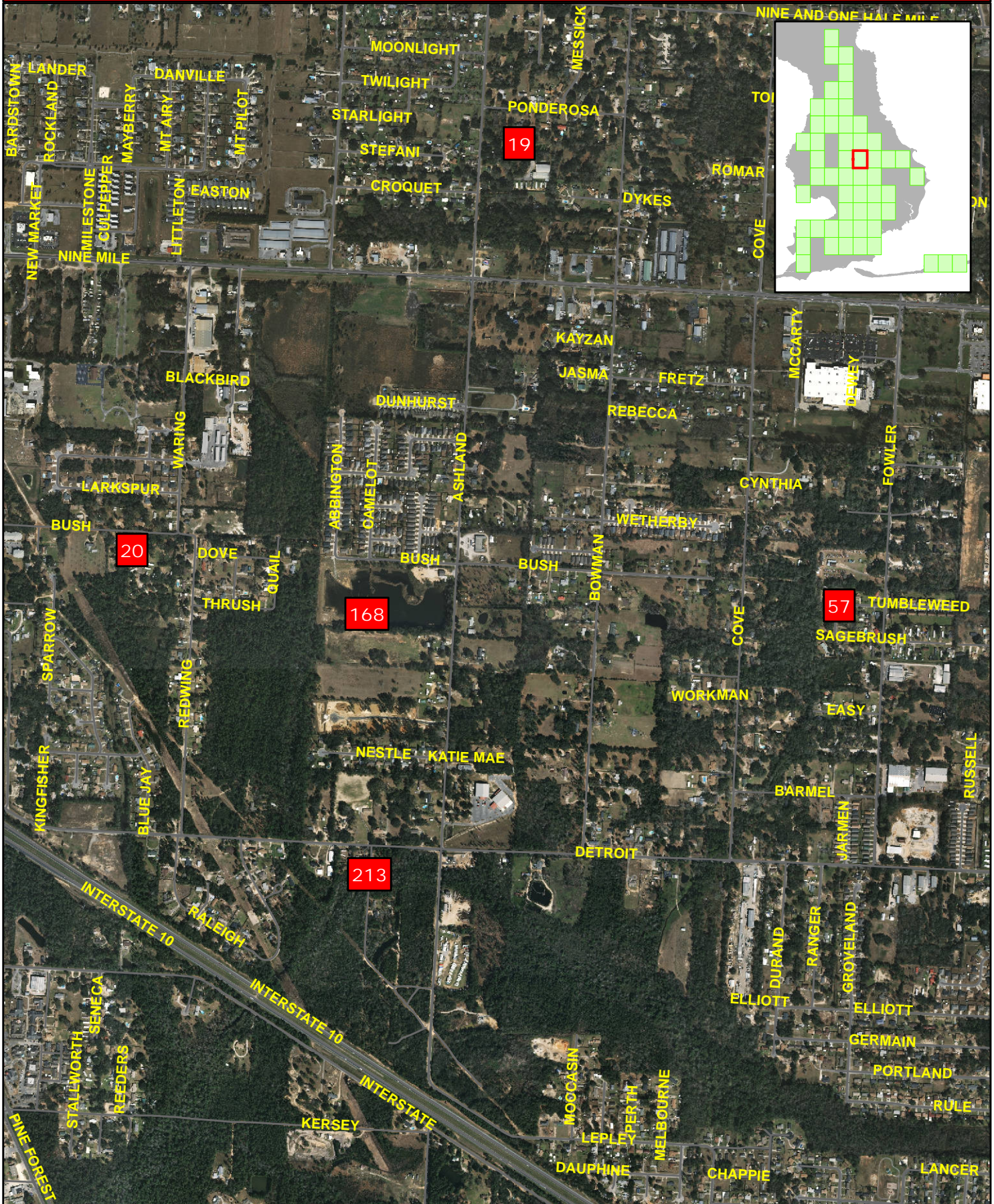


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

19	Ponderosa Drive Area Drainage	\$2,243,000
Expand existing pond to accommodate contributing basin		
20	Kingfisher, Bush Street, and Interstate Circle Drainage	\$2,500,000
Eight Mile Creek Priority 5 Drainage to construct a regional pond to address flooding for Kingfisher, Blue Jay Way, Bush Street, and Interstate Circle		
168	Tributary 21-A of Eight Mile Creek (south of Site 6, through the pit at Bush Street and enters the main channel south of Detroit Blvd)	\$1,628,083
Increase the capacity of the pond south of Bush Street. Increase the capacity of the culvert at Bush Street to prevent roadway flooding. Expand the channel in this area to increase capacity and prevent out-of-bank flooding. Relocate and increase the capacity of the structure at Nine Mile Road to line up with the improved channel.		
57	Ranch Lands - Sagebrush Trail	\$500,000
Repetitive loss flooding along Sagebrush Trail (Ranch Lands Subdivision) requires purchase of a pond site and improved drainage conveyance to address FDOT channel capacity. Refer to 8 Mile Creek basin Study Priority 3 for detailed information.		
213	Main channel crossing at a private driveway located between Asland Rd and Interstate 10	\$92,885
Raise the road height by constructing a bridge at the private driveway crossing of the main channel to prevent road overtopping and reduce flooding.		

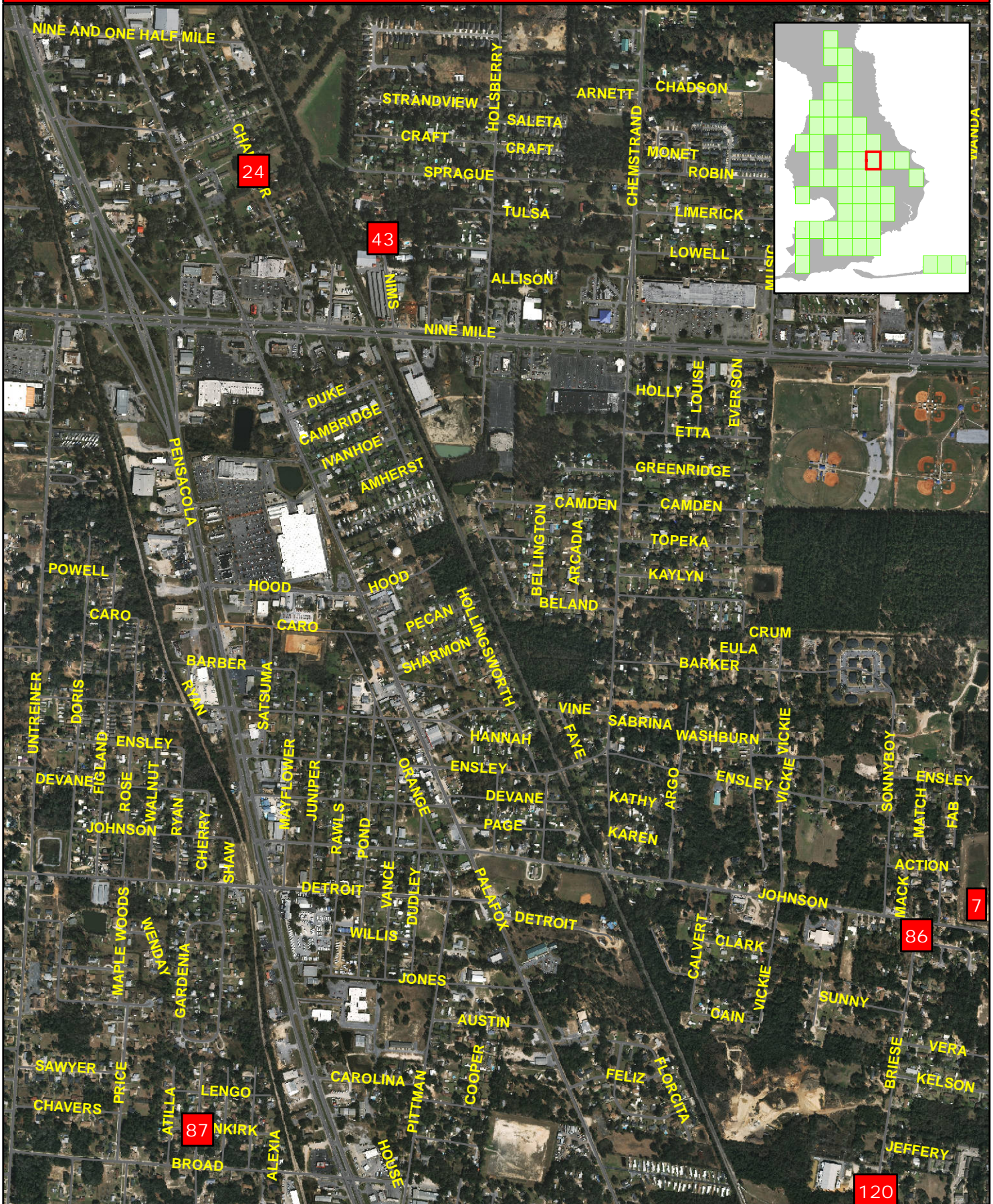


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

7	Ensley Drainage - Caro-Mayflower Pond Area	\$1,300,000
Expansion of the Caro-Mayflower pond, to address drainage issues south of Caro Street, north of Johnson Ave between Hwy 29 and Palafox Street, including repetitive flooding loss on Orange Avenue.		
24	Chandler Road Drainage	\$600,000
Alleviate lot flooding by installing a conveyance system in the area connected to the main trunk line currently being installed by FDOT. This line drains to the Holsberry pond, part of the Hwy 29 lane widening project		
43	Nims Lane Drainage Project	\$400,000
Nims Lane receives stormwater from a basin of approximately 29 acres. This basin extends just east of Holsberry Road and just north of Holsberry Lane. This area is prone to flooding due a lack of a positive outfall or stormwater conveyance system. Discharge from this conveyance system is expected to be routed to the Holsberry Pond		
86	Johnson Ave Drainage (East of Briese Ln)	\$400,000
Remove/Replace faulty storm pipe from Pine Ridge Lane to Johnson Ave, Address pipe flow Crystal Wells pond, Address two 24" pipe feeding one 24" pipe down to outfall in Gulf Power Easement.		
87	Olive Manor & Lincoln Park Drainage	\$1,200,000
Drainage System Improvements with a creek restoration/preservation		
120	Briese Lane between Jeffry and Olive Road	\$100,000
Extend existing Johnson Ave drainage system to relieve roadway and yard flooding.		



BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

3	Frinchez Heights (Sabra, Erwin, Whitmire, Ernistene Area)	\$400,000
Proposed drainage capacity improvements in the Frinchez Heights area including Sabra Dr, Erwin Dr, Whitmire Dr, Ernistene Rd (North of Olive Rd) which will likely require a ditch conversion into a pond site		
164	Thompson Bayou Main Channel	\$2,009,815
Construct new stormwater pond at Airway Drive near the end of the Thompson Bayou main channel and increase the capacity of the existing culvert at Airway Drive.		
207	Carrollwood Subdivision Resurfacing & Drainage Rehabilitation	\$1,200,000
Replace older cross drain at Stillbrook Road and repair existing drainage system on Pickwood including grading/resurfacing on Candlewood Circle		

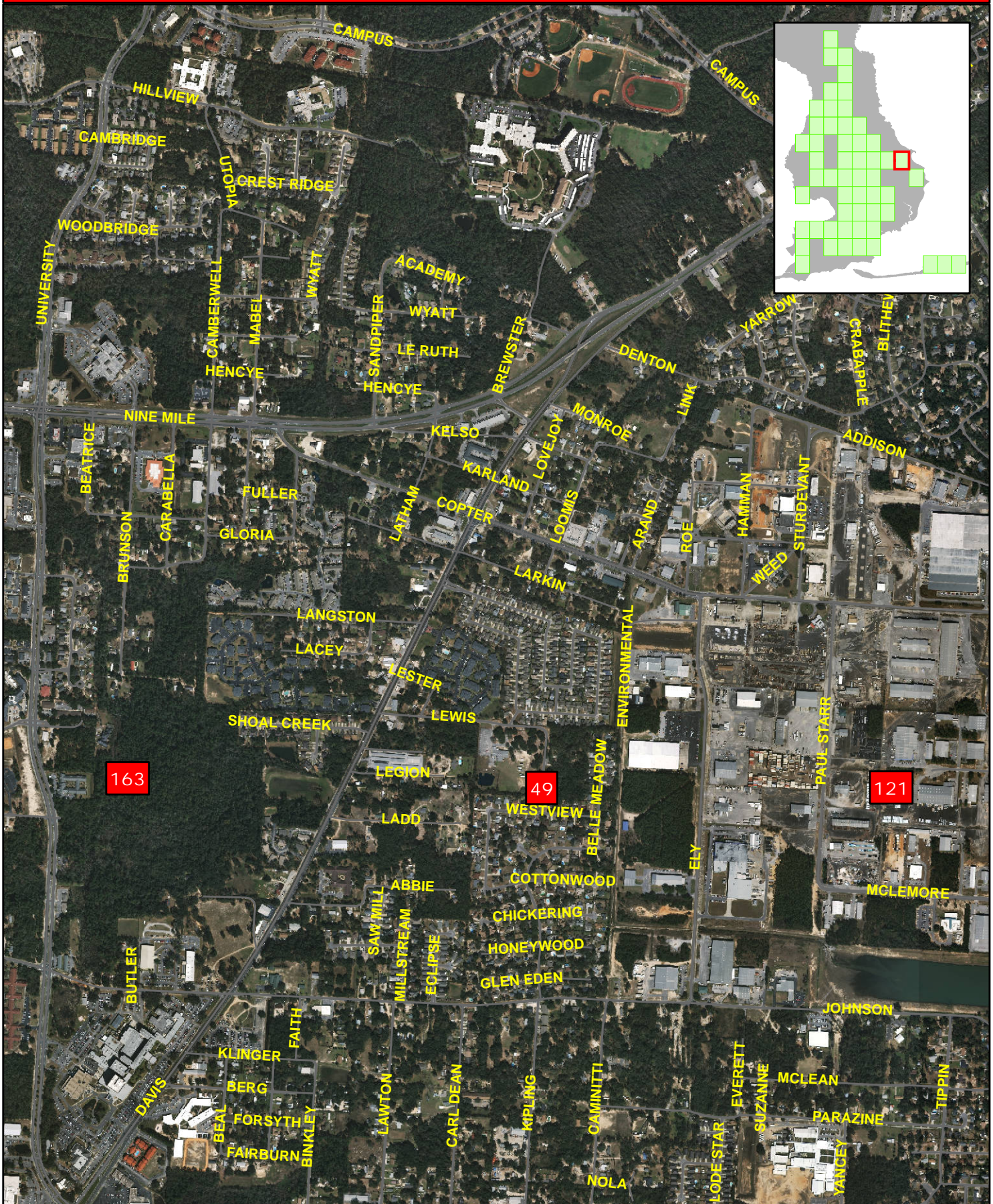


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

49	Westview Lane & Lewis St Area Drainage	\$200,000
Drainage improvements to address stormwater and groundwater from Lewis Street and Moose Lodge 557 impacting lots along Westview Lane		
121	Ellyson Industrial Park Drianage	\$1,000,000
Miscellaneous Infrastructure drainage improvements to address roadway flooding at Grow Road, Copter Road, and East pond expansion		
163	Thompson Bayou - Scenic Hills Basin Study Tributary A	\$1,736,479
Construct a new stormwater pond between University Parkway and Shoal Creek Drive.		

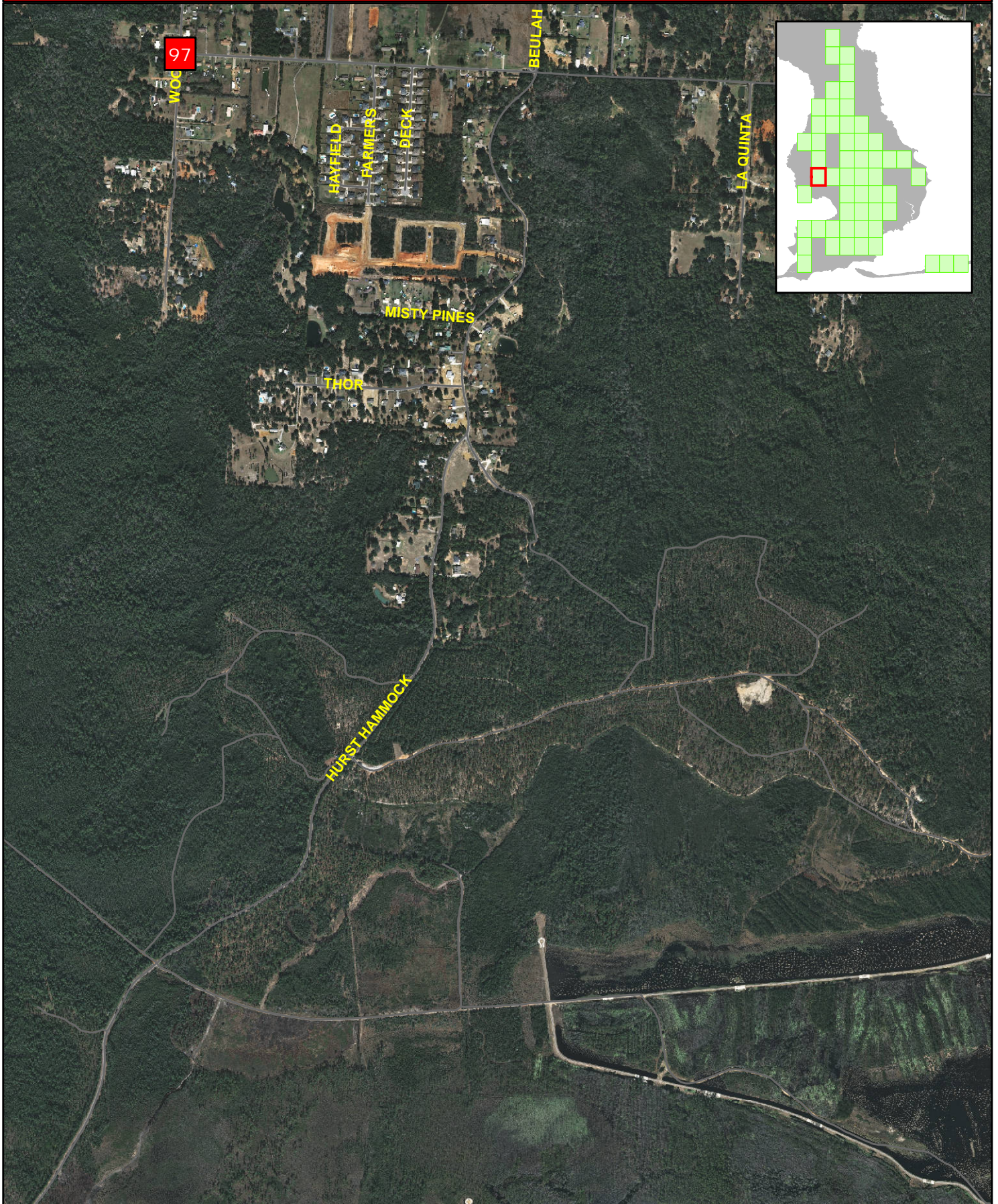


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

97	Helms Rd & Woods Lane	<i>\$69,780</i>
Construct a new culvert under Woods Lane and reconstruct the ditch feeding to the existing culvert.		

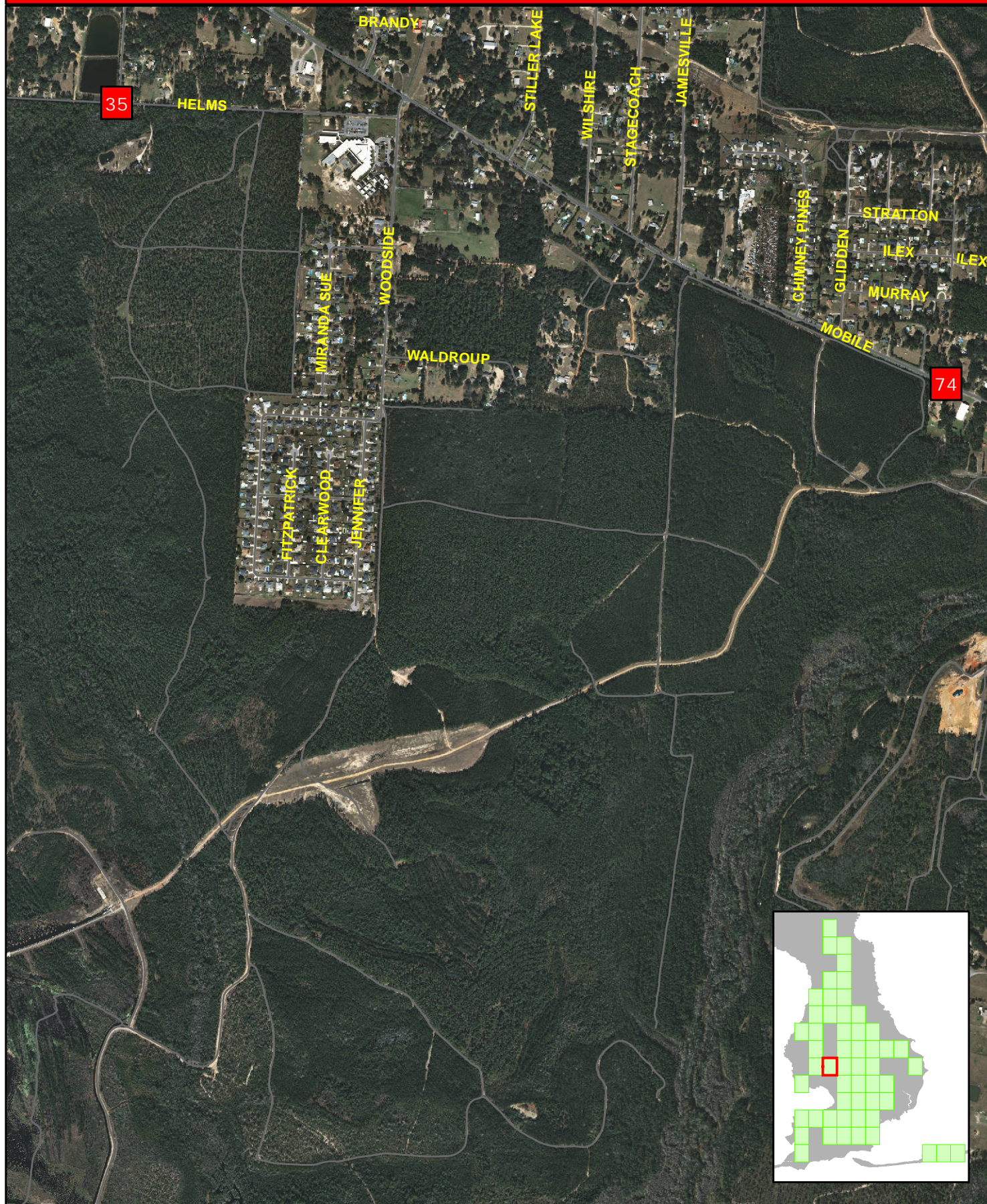


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

35	Helms/Beulah School Road	\$207,509
Increase capacity of drainage structures crossing Helms Road to prevent roadway overtopping and decrease upstream flood stages.		
74	Stagecoach/Wilshire/Mobile Highway	\$70,698
Increase capacity of drainage structure at Mobile Highway and improve downstream channel to prevent roadway overtopping and residential flooding.		

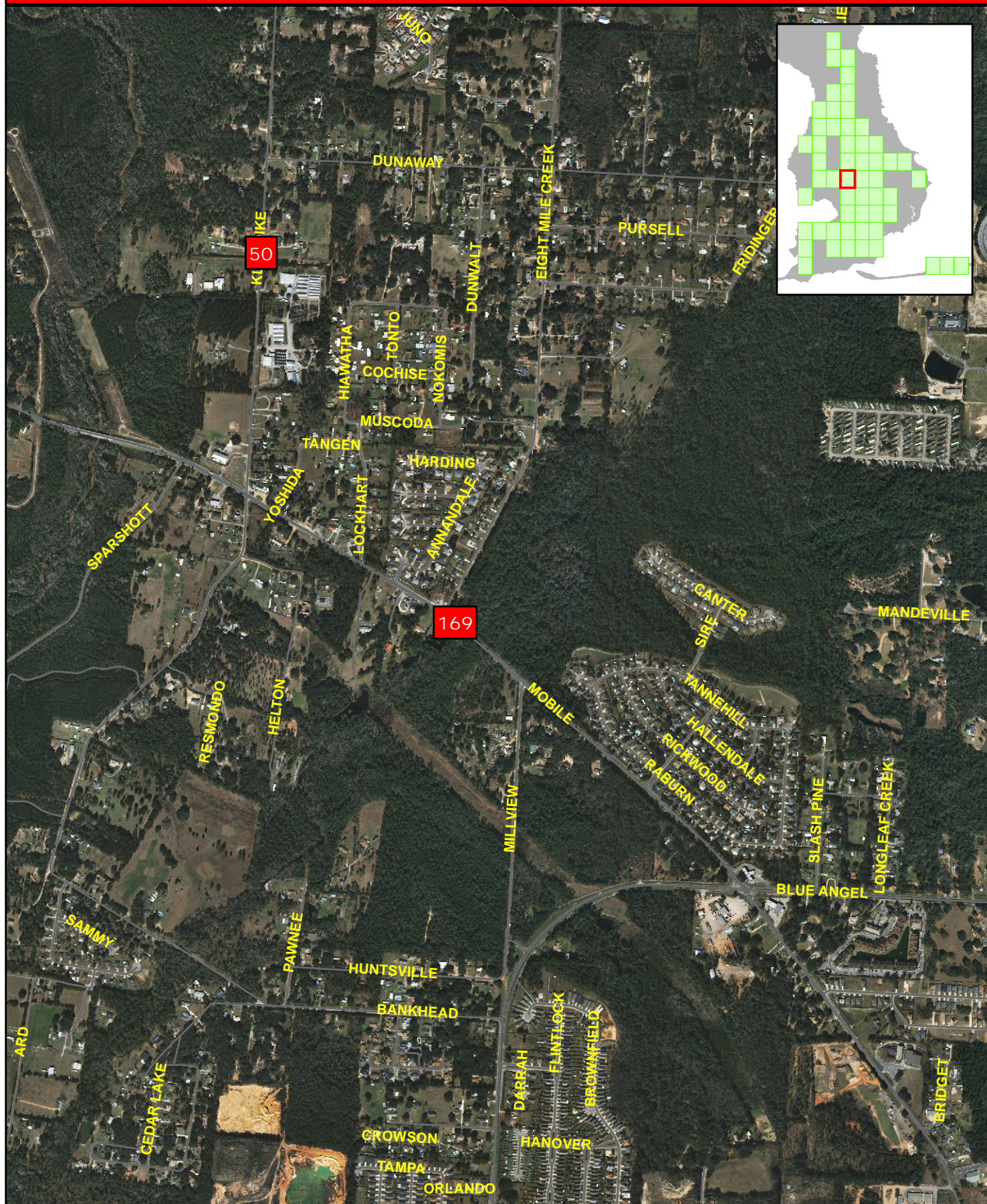


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

50	Klondike Road North of Mobile Highway	\$22,571
Increase capacity of structure under Klondike Road to prevent roadway overtopping.		
169	Main channel crossing at Mobile Hwy	\$2,539,817
Raise the elevation of the Mobile Highway Bridge 2.5 feet to prevent over-topping.		



BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

111	Tributary 10-A of Eight Mile Creek Basin Study	\$58,307
Increase the capacity of the culvert under Pine Forest Road at Lake Francis to decrease roadway flooding and accommodate the improved secondary sewer system.		
128	Tributary 16-A of Eight Mile Creek begins at Belgium Rd south of Holly Hill Rd and enters the main channel north of Pine Forest Rd	\$50,273
Increase the capacity of the structures at Belgium Road and Lillie Lane to minimize roadway flooding.		



BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

28	Dorothy & Lydia Avenue Area Drainage	<i>\$400,000</i>
Improve existing drainage system causing lot flooding. The surrounding area drains to private Rolling Hills borrow pit, causing sediment problems at Crescent Lake		
31	Palafox Street @ Oakfield/Kenmore/Pacific/Majors/Pinestead Drainage	<i>\$4,900,000</i>
Drainage Project currently under design to address Beverly Parkway Basin Study Improvements Branches N, O, P, & Q		

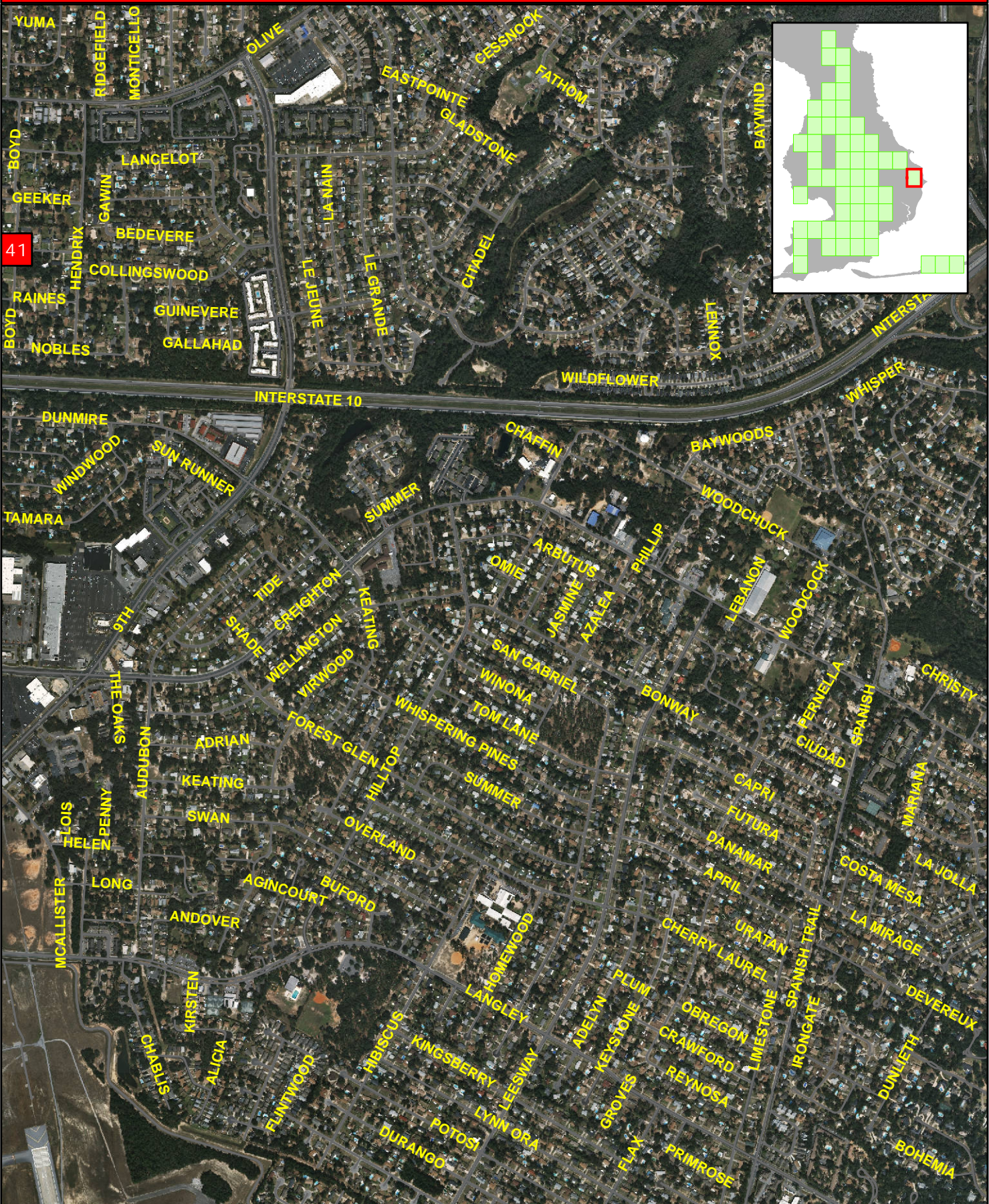


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

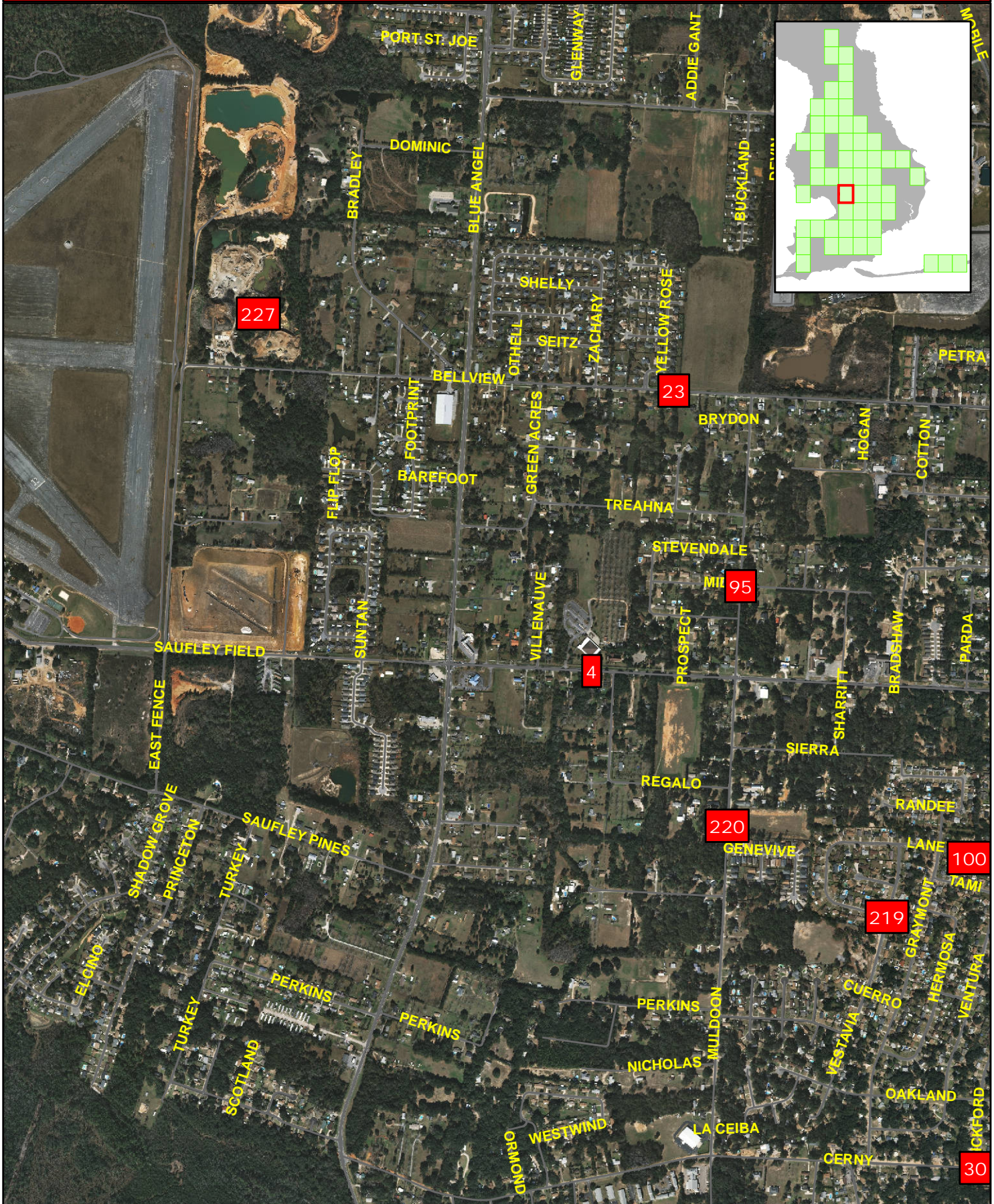
41	Ferry Pass Drainage Zone 5	<i>\$950,000</i>
Drainage System Improvements on Boyd Ave and adjoining Beagles St, Geeker St, De Loach St, and Raines St; dependent upon Olive Rd drainage system upgrades		



198	Hurst Hammock	\$61,902
Construct an additional culvert under Hurst Hammock and install flap valves on the downstream side of the culverts to prevent the propagation of seawater from tidal action.		



4	Muldoon Road and Saufley Field Rd Area	\$3,000,000
Drainage improvements are needed to address existing drainage capacity from Blue Angel to Muldoon Road. FDOT is currently (2015) reviewing partial drainage with sidewalk projects.		
23	Bellview Avenue Branch E Drainage Chestnut-Hogan Pit expansion	\$1,500,000
Bellview between Rosewood Estates and Hogan Road, includes expansion of the Chestnut-Hogan Pit		
227	Bellview and East Fence/Saufley Road	\$1,500,000
Provide conveyance system to Saufley Field C&D Pond from Bellview		
95	Midas- Muldoon Area including West side of Green Acres	\$250,000
Miscellaneous drainage improvements in this area to address flooding, including a small pond and conveyance improvements		
220	Felton Pond Outfall	\$342,660
Construct an outfall to connect the Felton Pond to the Windham Pond. This improvement could cause negative effects to other properties.		
100	Lanette Drive	\$1,000,000
Construct new stormwater system for the area around Lanett Drive to reduce flooding in the area.		
219	Windham Pond Outfall	\$293,987
Construct an outfall for the Windham Pond. This improvement could cause negative effects to other properties.		
30	Avondale Estates - Bayou Marcus Branch E	\$3,300,000
Roadway/drainage improvements for Cerny Road area and area North of Cerny to provide possible pond outfall solutions for Saufley Field -Muldoon Area Ponds. Concept plans requires further study for alternate pond outfall options considering Velma Pond.		



BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

135	Godwin Lane - bayou Marcus/Millview Study Branch F	\$5,320,591
Construct new stormwater system for the area around Godwin Lane including two stormwater ponds.		
136	Pensacola Heights- Branch F	\$4,352,877
Modify the existing collection system serving Pensacola Heights and construct a new detention pond.		
181	Deerwood Drive - Bayou Marcus/Millview Study Branch F	\$1,971,838
Increase the capacity of the Deerwood Drive stormwater system and outfall pipe.		
29	South Gulf Manor Private Pond Rehab	\$200,000
Upgrade to county standards a private pond that has failed to accommodate flow from South Gulf Manor Phase 1 on numerous occasions. This has resulted in flooding of around 15 homes.		



BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

1	Crescent Lake	\$4,000,000
Construct drainage system and new ponds on east side of Crescent Lake through the Blue Springs Drive drainage system up to Glass Street and Sun valley Drive		
46	Beverly Parkway Basin Branch C- Twelve Oaks Area	\$2,522,301
Construct a new collection system for the Twelve Oaks Area with a discharge to the FDOT system. Connection to the FDOT system will limit design to the 3 year event.		
79	Beverly Parkway Basin Branch I- Moss Lane tie in at Van Pelt Lane	\$237,810
Construct new stormwater system along Moss Lane.		
189	Beverly Parkway Basin Branch B- North Portion- Lookout Drive	\$1,128,009
Construct a stormwater system along Lookout Drive West Michigan Avenue, and Rock Island Place with a discharge to the FDOT pit.		
61	Beverly Parkway Basin Branch B- South Portion- Michael Drive	\$623,567
Construct a stormwater pond on Michael Drive.		



BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions

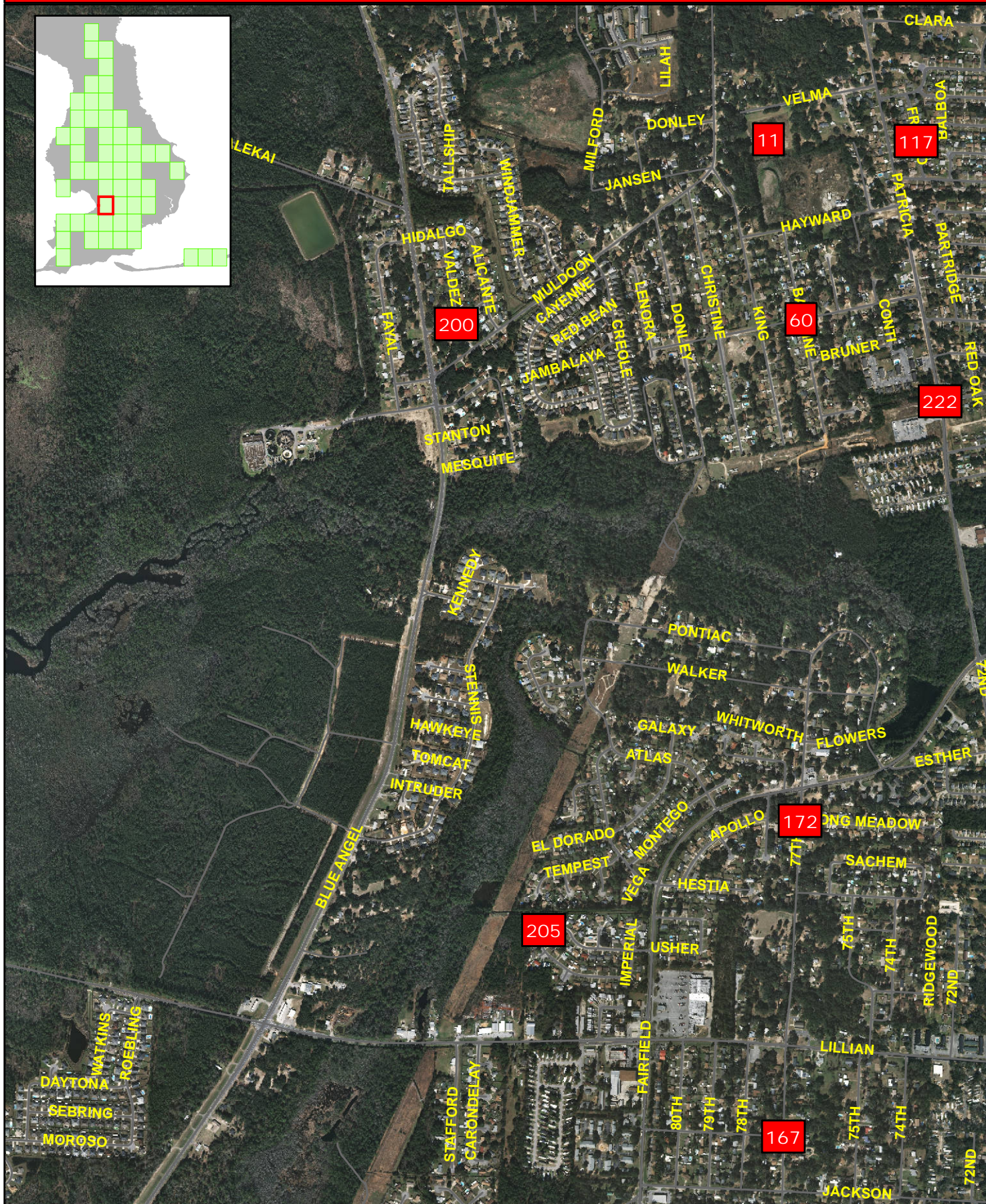
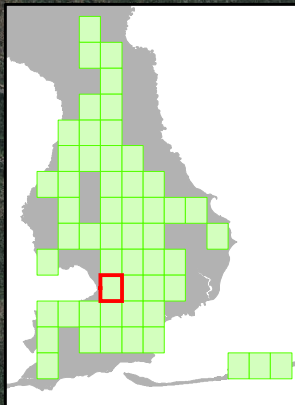


1,200
Feet

118	St Johns North of PCC	\$450,000
Purchase property for pond site and connect to 48" pipe across PCA. Add conveyance from system to the North per Beverly Parkway Basin Study Zone F including upgrades to system from Oleander drive to Cummings Street. This will address flooding problems at Cummings Street and St. John's before tying into the PCA Campus.		
47	Beverly Parkway Basin Zone D-Brentwood	\$3,596,439
Expand the stormwater systems on Cary Memorial Drive and Armenia Drive to Carolyn Way, Jacquelyn Way, Virginia Way, Palm Court, Concordia Street, and Chimes Way and tie into the existing system on Hardy Place. Connection to the FDOT system will limit design to the 3 year event.		
76	Beverly Parkway Basin Branch E- west side of Hwy 29 on Mason Lane	\$1,077,800
Construct a new collection system along Hwy 29 and Mason Lane along with a new pond for the system to connect to.		
27	Beverly Parkway Basin Branch G- Andrew Ave and Coons Ave	\$1,319,873
Extend the stormwater collection system along Andrew Avenue and Coons Avenue.		
42	Delano Area North Kelly Avenue Basin	\$400,000
Drainage System Conveyance Improvements for area between Pace Blvd, Massachusetts Av, W" St., and Truman to improve conveyance to Kelly Avenue pond, as well as provide for an improved outfall system. Project requires coordination with CRA improvements on Massachusetts Avenue for sidewalks and drainage improvements		
14	Beverly Parkway Basin Zone H- Loretta Street, between Kelly Ave and North "P" Street	\$6,499,810
Construct new ponds and expand the stormwater collection system in the area around Loretta Street.		



11	Muldoon-Saufley Field-Velma (Pond Expansion)	\$3,450,000
Property purchase and drainage improvement design to provide positive outfall for two County ponds, expand the Velma St Pond, and provide outfall to Bayou Marcus Creek. Refer to Bayou Marcus Basin Study -Velma Dr Pond Outfall Branch C to be modified by property acquisition and Velma pond expansion.		
117	Muldoon-Cerney-Velma-Fresno Area Drainage	\$2,200,000
Drainage System Improvements including Velma pond expansion, outfall, and drainage conveyance to Velma Pond; better outfall for Muldoon Area Ponds		
200	Sal Tillo - Bayou Marcus/Millview Study Branch C	\$188,068
Improve the stormwater collection system serving the area around Sal Tillo Street.		
60	Velma Pond Outfall	\$905,319
Construct outfall for the Velma Pond to prevent overtopping during a 100 year event.		
222	Pearson Rd- Bayou Marcus/Millview Basin Branch C	\$1,364,488
Construct new stormwater system for the area around Pearson Road to reduce flooding in the area.		
172	Ridgewood Park - bayou Marcus/Millview Study Branch B	\$2,524,333
Construct new stormwater system for the Ridgewood Park subdivision to reduce flooding in the area.		
205	Imperial Drive - Bayou Marcus/Millview Study Branch B	\$526,033
Construct new stormwater system for the area around Imperial Drive to reduce flooding in the area.		
167	Royal Pines - Bayou Marcus/Millview Study Branch B	\$2,908,721
Construct new stormwater system for the Royal Pines subdivision to reduce flooding in the area.		

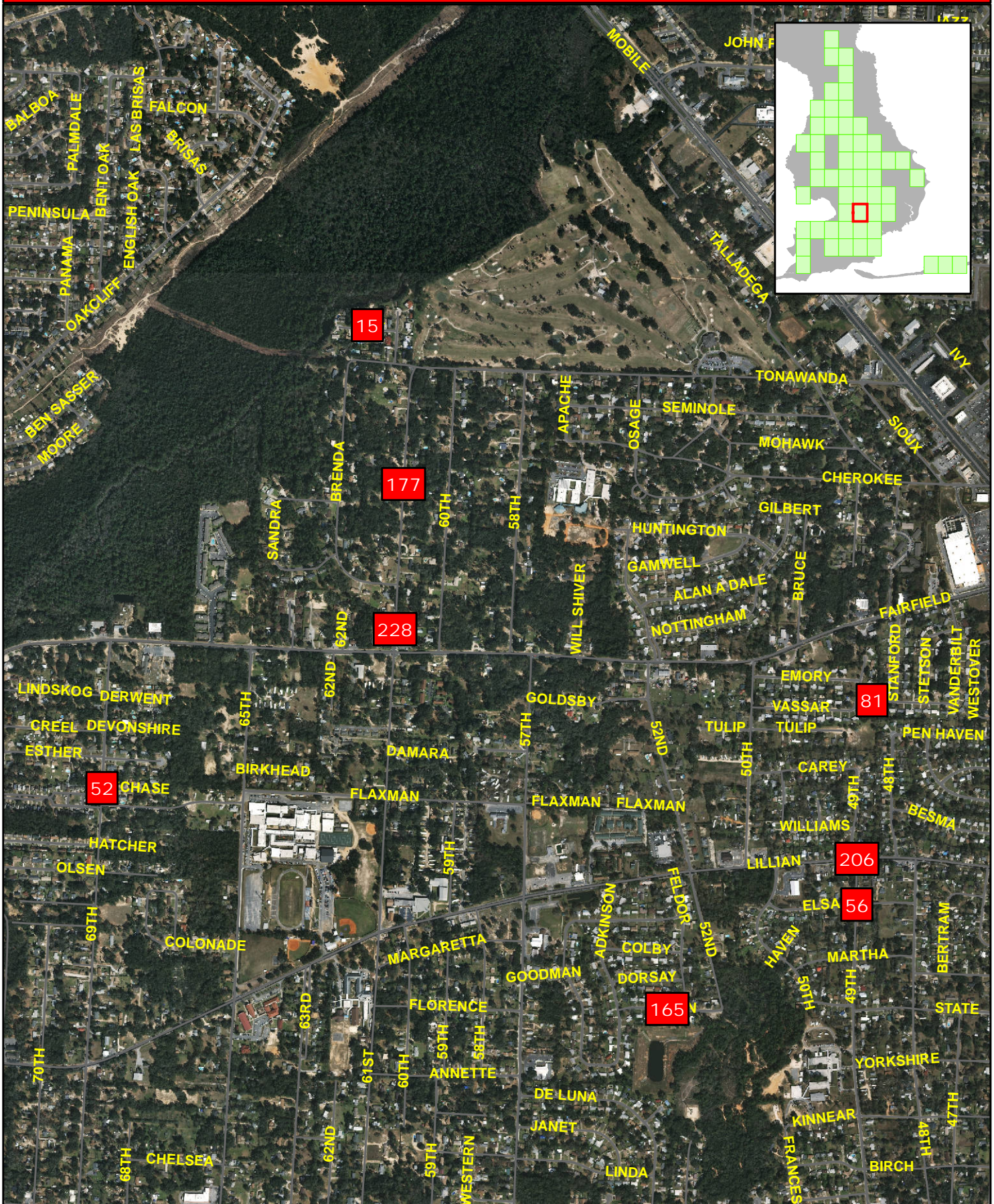


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

15	North 61st Property Purchase and flood plain restoration	\$700,000
Purchase of 10 properties for the purposes of flood plain restoration, and stream restoration		
177	Roosevelt - Warrington Basin Study Branch K	\$4,512,150
Construct a new stormwater system along 61st, 59th, 60th, 63rd, and 65th streets with a new stormwater pond west of 61st street.		
228	61st Ave - Bayou Marcus/Millview Basin Branch D	\$374,139
Increase the capacity of the 61st Avenue stormwater system to reduce flooding in the area.		
81	Emory Drive- Warrington Basin Study Branch K	\$637,509
Construct a new stormwater system along Emory Drive, Stanford Road, Stetson Road, and Vanderbilt Road with a new stormwater pond at the eastern end of Tulip Drive.		
52	N 69th Ave- Bayou Marcus/Millview Study Branch D	\$1,963,878
Expand the stormwater collection system along 69th Avenue to reduce flooding in the area.		
56	Elsa Area Drainage	\$2,600,000
Drainage project to address flooding in the area of Elsa Avenue South of Lillian from 48th Avenue over to Feldor Avenue including 49th, 50th, 52nd, State Street, Kinear Avenue, and Martha Ave		
206	49th Av - Warrington Basin Study Branch K	\$1,648,952
Construct a new stormwater system along 49 the Ave with a discharge to the existing county pond on Lillian Highway.		
165	Eaton Rd - Warrington Basin Study Branch K	\$1,219,351
Construct a new stormwater system along Eaton Road from Feldor to Adkinson Drive with a discharge to an existing county pond per Warrington Basin Study Branch K.		

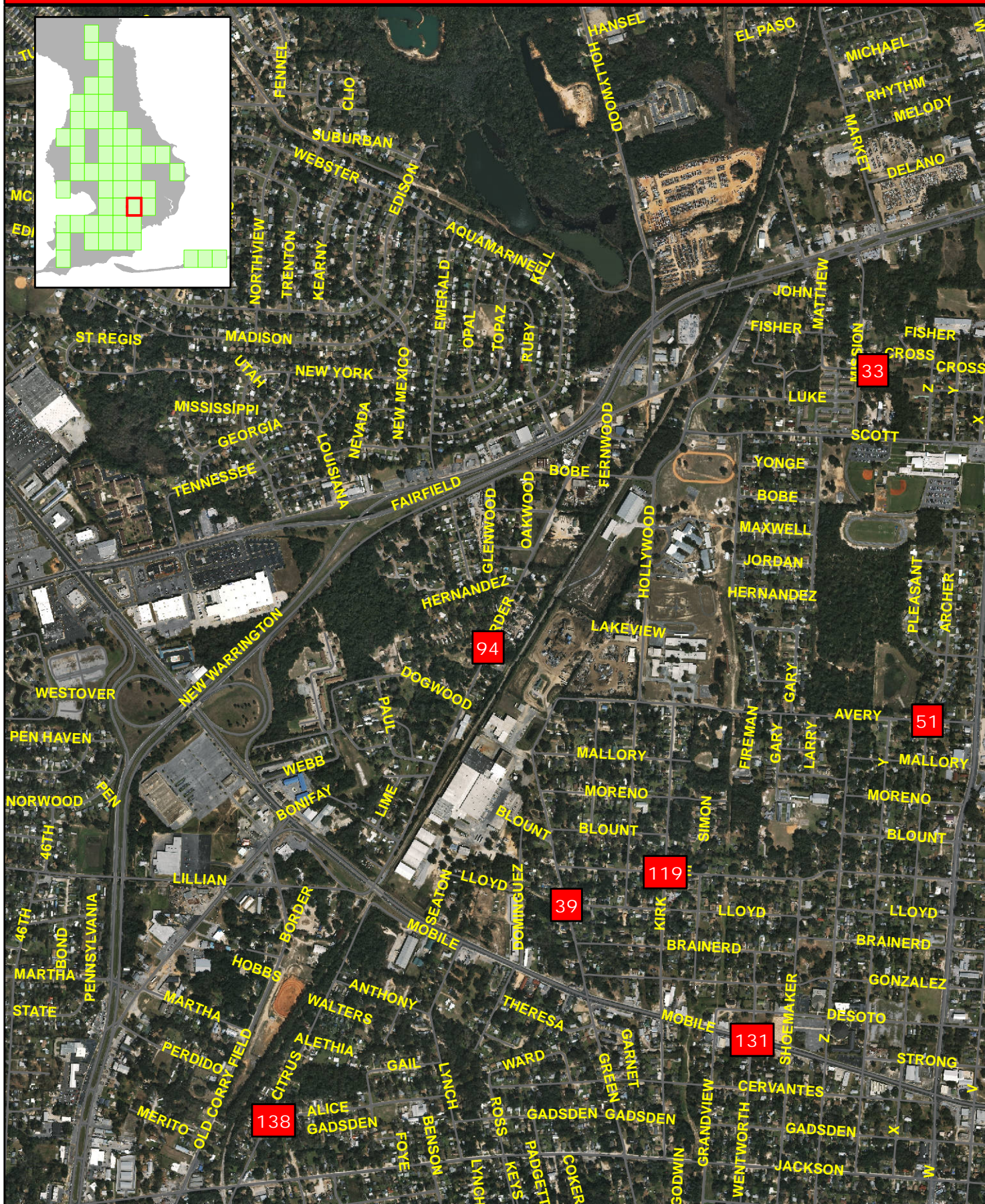


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions

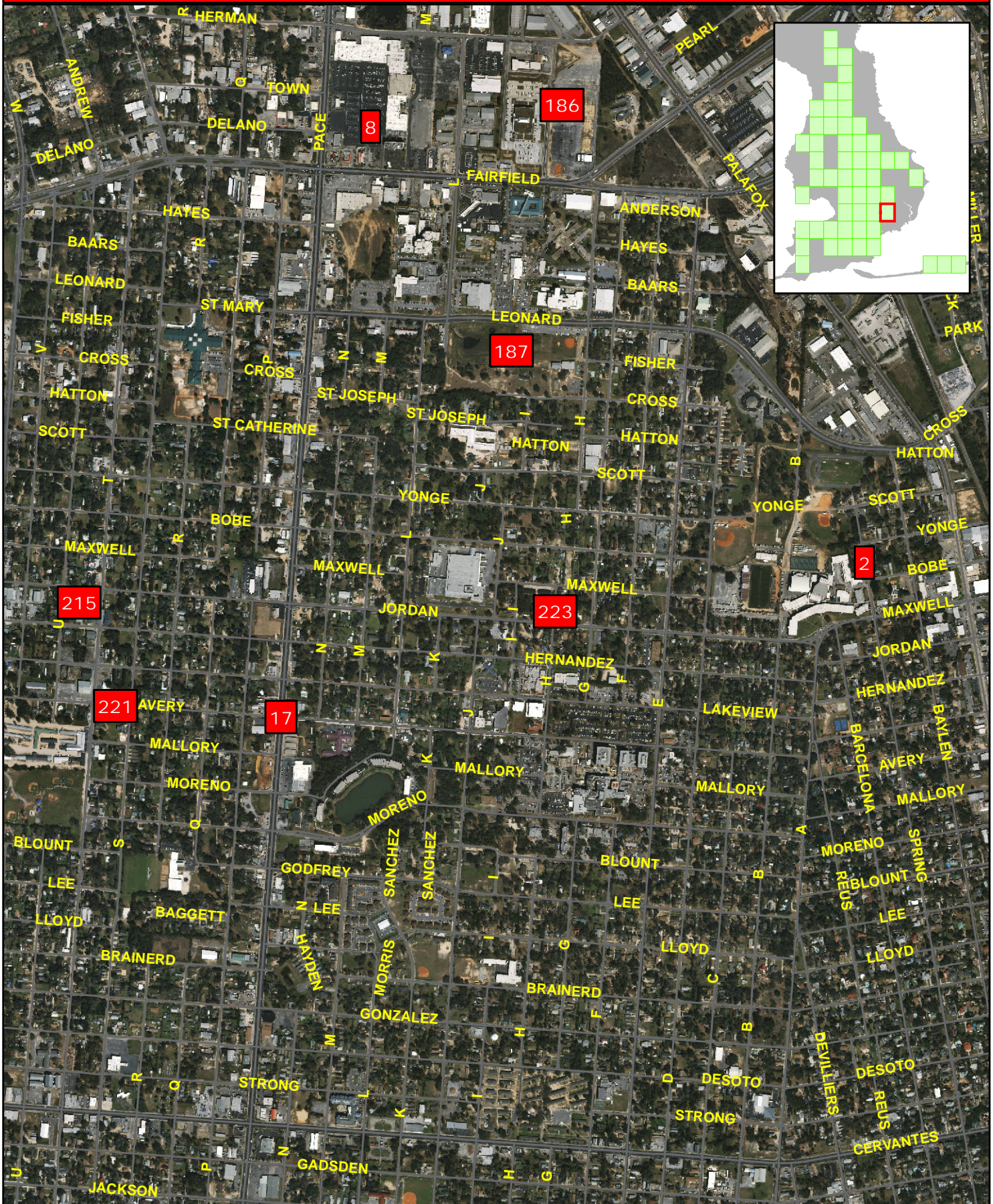


1,200
Feet

33	Catholic High Basin Zone A North - North end of the basin around Mission Street	\$3,330,648
Expand pond storage by expanding existing pond and constructing a new pond as well as expanding and increasing existing collection to prevent home and street flooding. This improvement will not have negative impacts on downstream properties.		
94	Old Corry Field Rd- Warrington Basin Branch H	\$2,126,280
Construct a new stormwater collection system along Old Corry Field Road from Border Street to Jackson Creek.		
51	Catholic High Basin Zone A South - South of Avery Street	\$1,440,259
Construct new collection system to prevent street flooding. This improvement will not have negative impacts on downstream improvements.		
39	West Highlands (Green and Lloyd) and Lloyd up to Mallory Street	\$650,000
Address property flooding in an area North of Mobile Hwy West of Dominguez Street, and at Green St		
119	West Highlands	\$2,700,000
Proposed new system located on Kirk Street and extend from West Avery Street to West Gonzalez Street and the surrounding area. This new system requires the acquisition and construction of a new retention/detention pond. (see Branch I in Warrington Master Plan)		
131	West Cervantes at Westworth	\$600,000
Correct road flooding in area with no drainage system		
138	Citrus Street Area Drainage	\$1,300,000
Drainage System Improvements on Citrus per Warrington Basin Study Branch G (Study modification required to consider existing County parcel for pond site and conveyance system).		



8	Delano Drainage Area (L Street, Leonard, Fairfield, Herman, and Fairfield Area)	\$6,488,476
Drainage System Improvements to include new regional pond(s) and rehab of existing ponds for water quality and flood control		
2	Spring Street - Leonard Street - PHS Drainage	\$500,000
Joint Drainage project between the City and School Board to address flooding on Spring Street and School Area.		
186	Hernandez Street pond site 3	\$1,195,738
Construct a new pond on Hernandez St. to reduce flood staging in surrounding and downstream. This improvement will not negatively impact downstream properties/impacts.		
187	New 36 Inch Pipe Outlet Along Hernandez Street	\$2,232,399
Construct a new collection system and outfall connection to the existing system to decrease flood stages in the surrounding areas. This improvement could have impacts on all downstream properties.		
215	Catholic High Zone C Drainage	\$9,000,000
Re-evaluate previous basin study solution (a new discharge trunk line with storm sewer extensions, treatment swales, and underground vaults) to determine whether ponds or direct piping produces the greatest impact.		
223	Improve Open Ditch Outlet Terminating at Fairfield Drive	\$20,990
Enlarge outlet orifice for open ditch flowing to Fairfield Drive. This will not negatively impact downstream properties/improvements.		
221	Catholic High Basin Zone B - Intersection of "S" Street and Avery Street and consist of a large storm sewer system running up "S" Street to Leonard Street	\$3,850,727
Increase and expand existing storm collection system and provide stormwater treatment. Provide tie-ins to outfall proposed in "Begins at the intersection of Avery Street and run south to Gonzalez Street, west to "U" Street and south on "U" Street to its discharge point to Maggie's Ditch." This improvement can only be constructed after the completion of the proposed outfall trunk line.		
17	Avery Street Drainage (Kupfrian Park/Hernandez and Lakeview)	\$998,563
Continued drainage for the Kupfrian Park area to include stormwater pond(s) for flood control/water quality, and conveyance system to address flooding issues on Hernandez and Lakeview between Pace and J Street.		

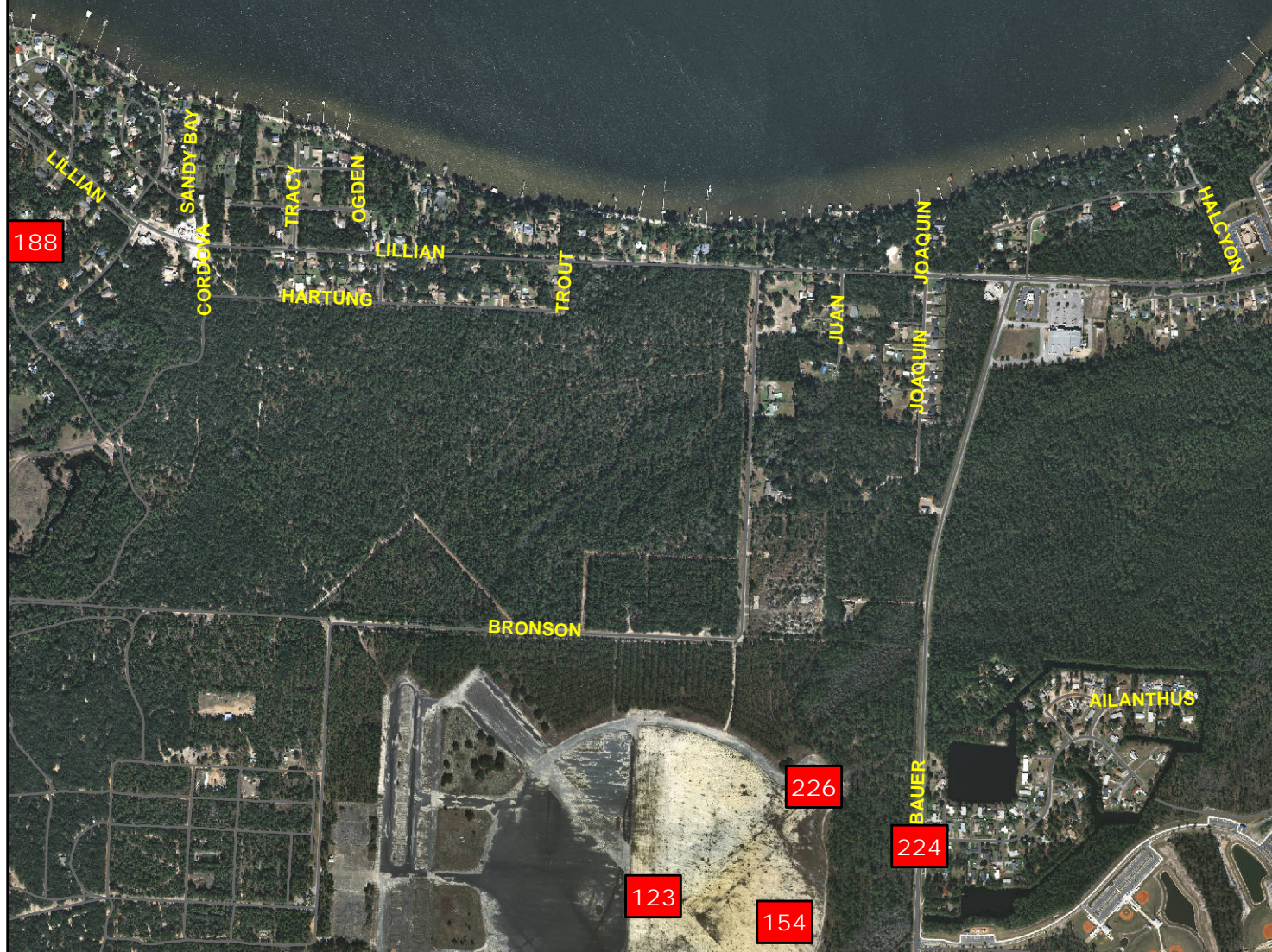
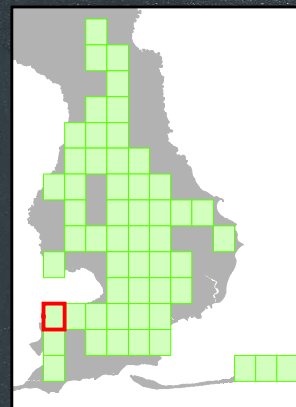


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

123	Bronson Airfield design 3 (entire)	\$27,631,968
Construct a pond over the entire Bronson Airfield property.		
154	Bronson Airfield design 2 (Eastern Side)	\$9,767,981
Construct a pond on the eastern side of the Bronson Airfield property.		
224	Ailanthus Drive and Bauer Drive (culverts)	\$301,051
Upgrade culvert near intersection of Ailanthus Drive and Bauer Drive.		
226	Bronson Airfield design 1 (northeast corner)	\$1,017,098
Construct a pond in the northeast corner of the Bronson Airfield property.		

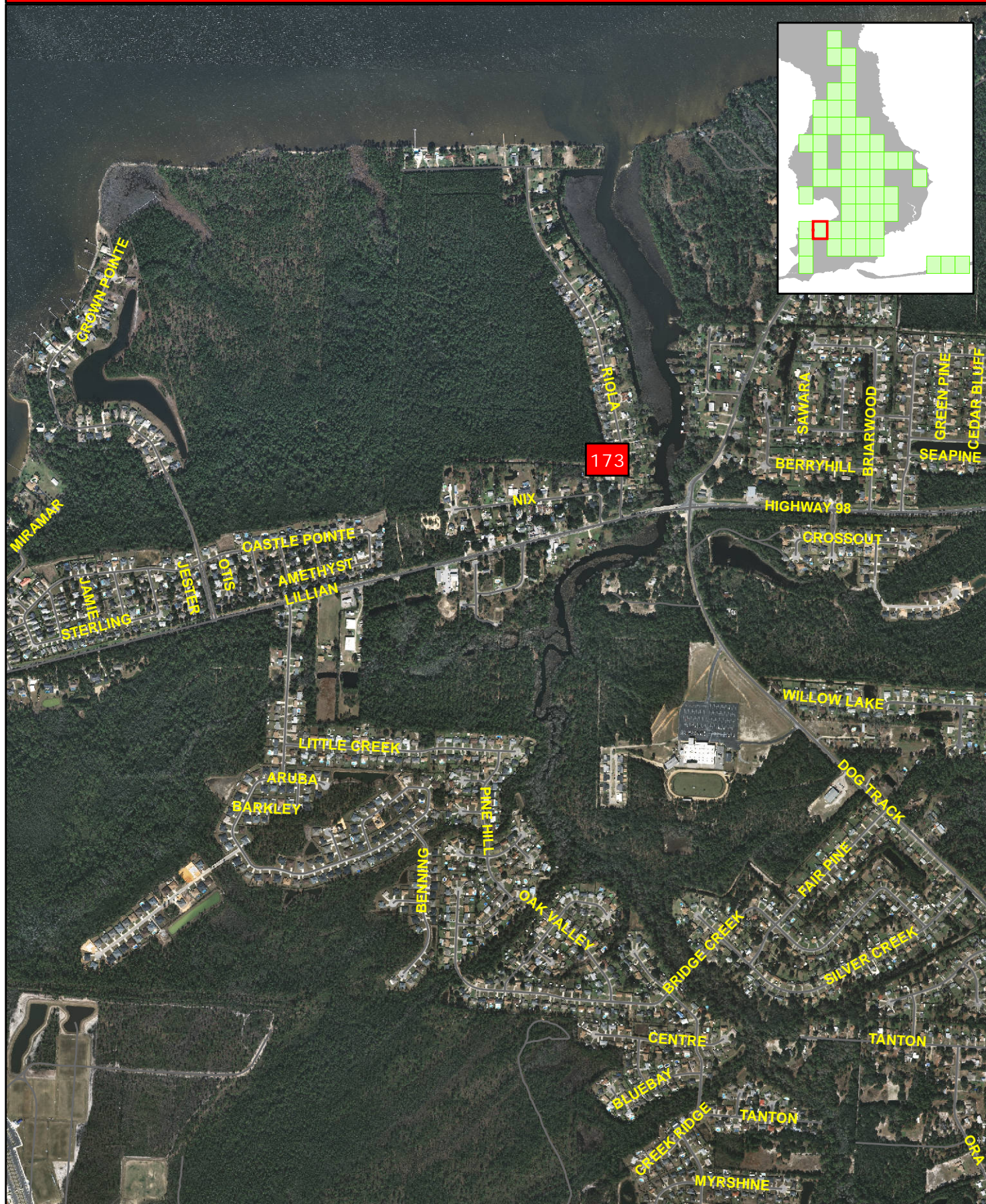


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

173	Riola Place - Bridge Creek/Heron Bayou Study Branch E	\$189,379
Lower pipe inverts and increase the capacity of the culvert under Riola Place to decrease out-of-bank channel flooding.		

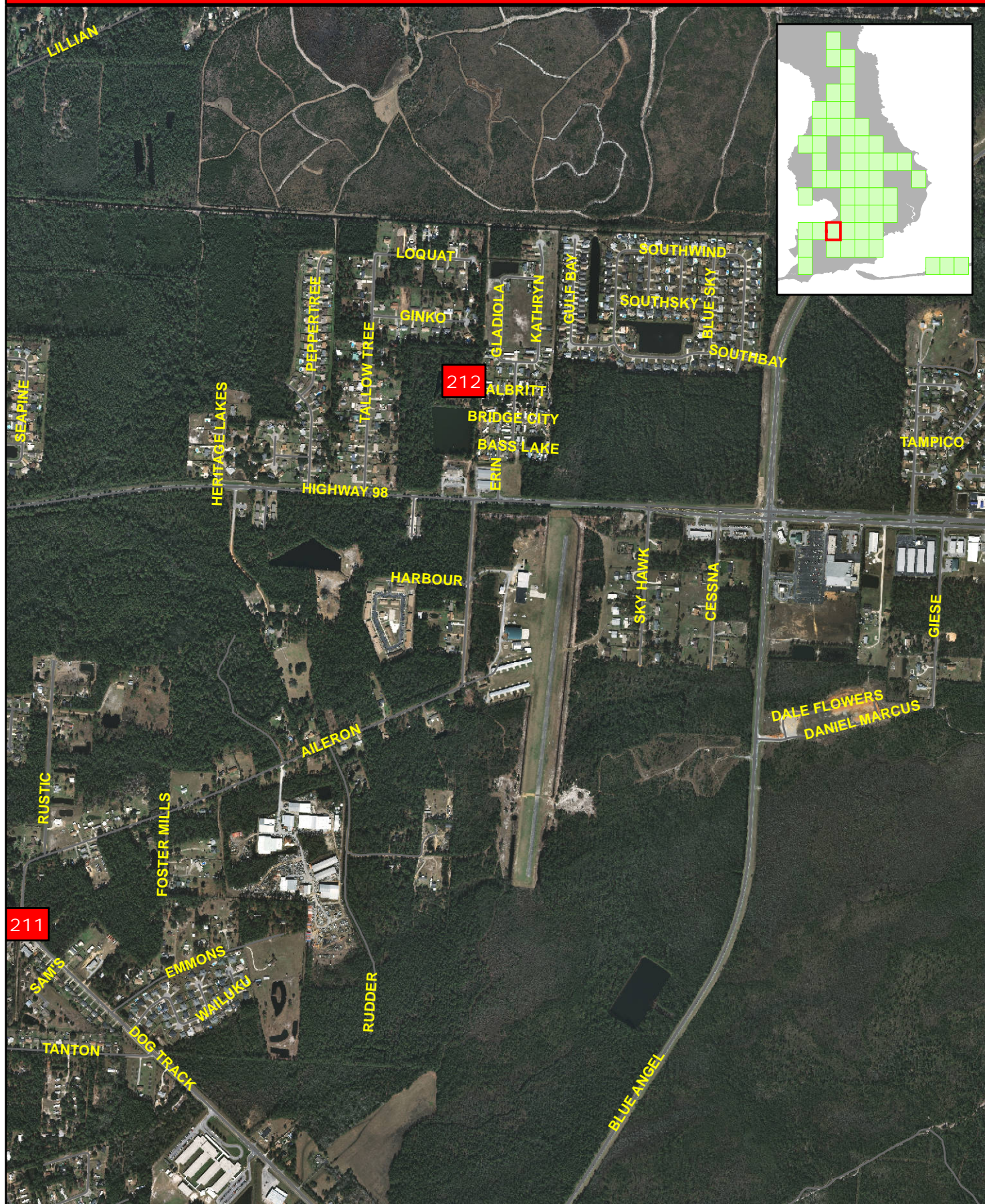


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

211	Aileron Ave - Bridge Creek/Heron Bayou Basin Branch B	\$189,379
Install a new storm sewer system along Aileron Avenue and increase the capacity of the existing culvert under Dog Track Road to reduce roadway flooding.		
212	Tatnall Street - Bridge Creek/Heron Bayou Basin Branch D	\$163,750
Extend the existing ditch northward into the bayou to reduce flooding.		

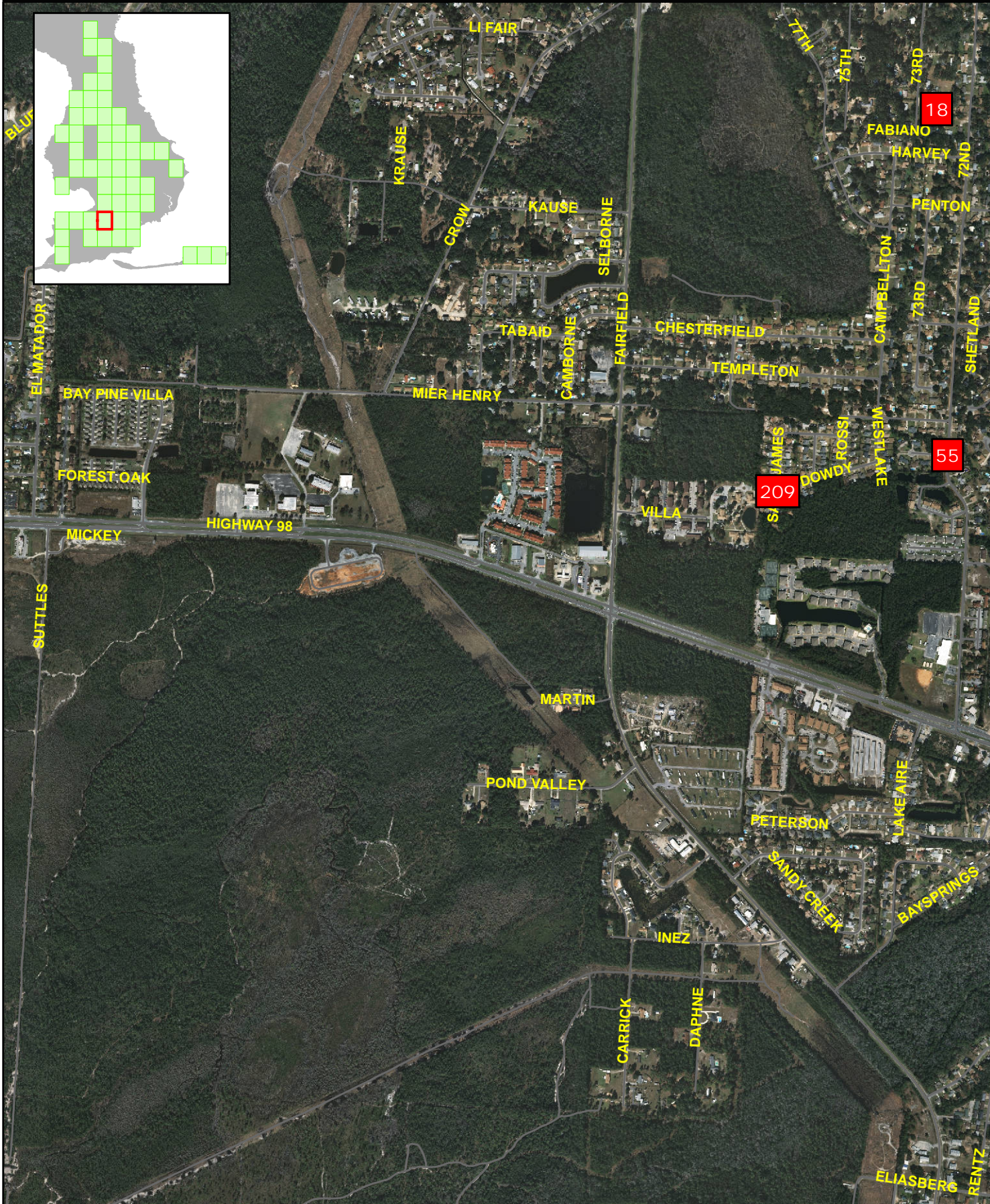


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

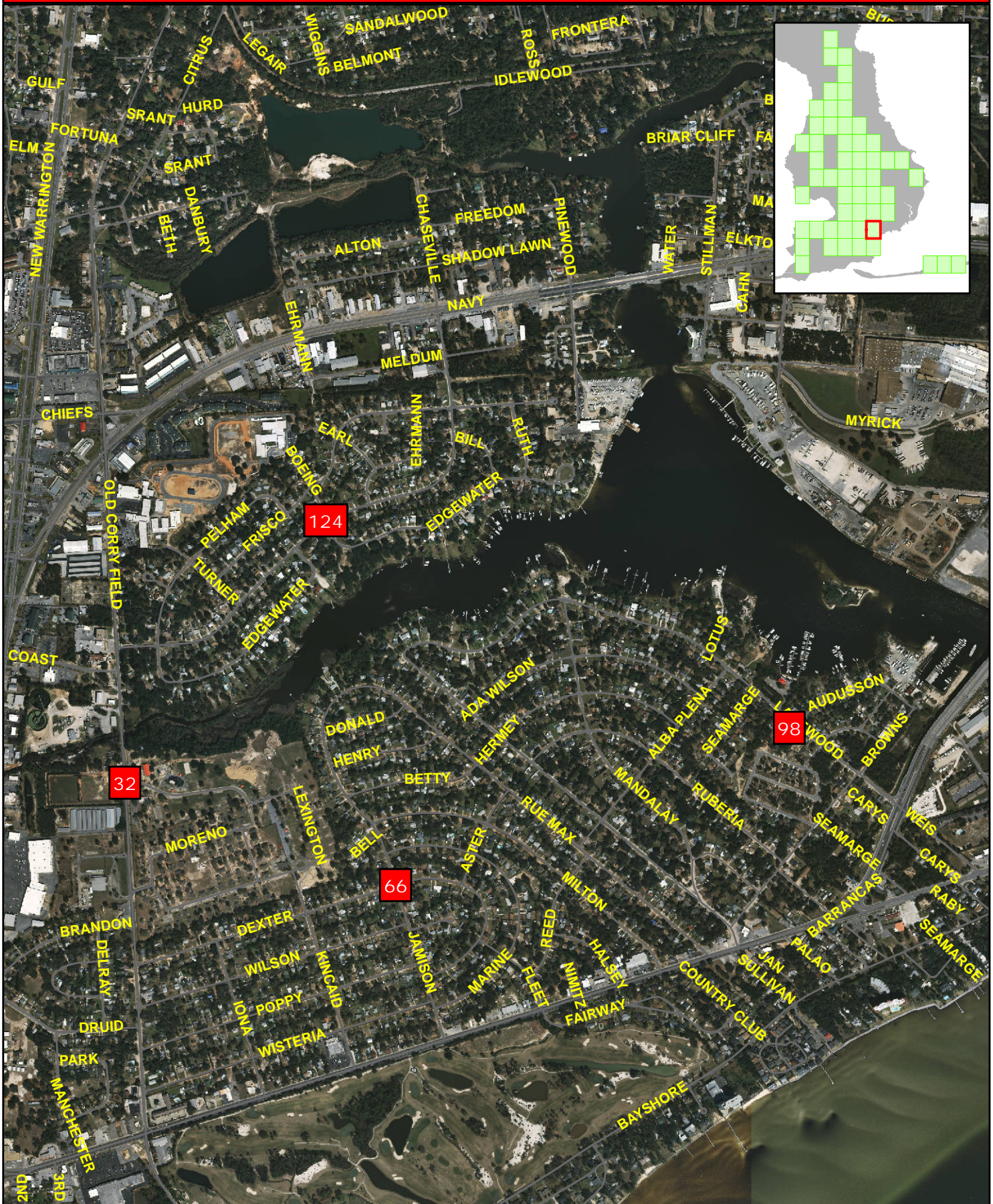
18	Myrtle Grove System A (remaining portion)	\$450,000
Completion of System A to included drainage improvements including acquisition for easement and pond site on 72nd and 73rd Ave, South of Jackson, and North of Harvey St		
55	Willowside Drive and Westlake Subdvision Drainage	\$750,000
Address home, yard, and street flooding on 72nd Avenue and Willowside Drive through the Westlake Subdivision: Reference Warrington Basin Study-St James Branch C. May require modifications.		
209	Saint James Place-Warrington Basin Study Branch C	\$902,785
Construct a new stormwater system for the St James Place/Dowdy Drive area.		



109	Myrtle Grove System E (McNair Ln and 57th)	\$100,000
Decrease drainage impacts on Lake Charlene through drainage improvements on 72nd and 73rd Ave, South of Jackson and North of Harvey St.		
16	Old Corry Outfall Property Purchase and Flood Plain Restoration	\$978,881
Pete Moore ditch- Jackson Creek flood plain and habitat restoration.		
85	Lake Charlene/Querido Heights- Warrington Basin Branch B	\$6,765,919
Reconstruct Lake Charlene overflow structure and outfall ditch. Reconstruction of the 69th Avenue drainage system to reduce discharges to Lake Charlene, increase the capacity of the 61st Avenue drainage system, and increase the capacity of the 61st Ave, Kittyhawk Drive, Lake Charlene Lane, and Myrtle Hill Circle drainage system. Solutions are currently under evaluation.		
44	Lake Charlene Area Drainage (including future phases not covered by grant)	\$1,992,309
Increase outfall capacity of Lake Charlene by implementing some of the drainage system improvements from the 2007 Warrington Master Plan and the 2015 Lake Charlene Warrington Study.		
9	Beach Haven Area Drainage and Sewer Northeast Phase 1	\$10,887,839
Roadway/drainage and sewer improvements; currently under design (NE of Decatur Ave to Gulf Beach Highway; from Mills Ave to Decatur Ave including ponds for Phase 1 & 2)		
122	Bayou Grande Basin Study E1 - Gulf Beach Hwy Outfall Improvement	\$73,035
Increase the culvert size along Gulf Beach Hwy culvert between Brigadier and Richmond. The downstream channel to Winthrop St will be regraded and shaped to provide positive flow to the Winthrop culvert. This improvement will not affect downstream properties.		
202	Bayou Grande Basin Study E2-Brigadier St. Culvert	\$33,708
Increase the culvert size on Brigadier St. to prevent road flooding. This Improvement may have a negative impact on downstream roadway flooding.		



32	Old Corry Field Area Drainage	\$2,000,000
Construct a new stormwater collection system along Old Corry Field Road from Border Street to Jackson Creek.		
66	Jamison Street Branch F -Warrington Basin Study	\$2,000,000
Construct new stormwater system along Jamison Street and Rue Max Street with direct discharge to Bayou Chico to reduce discharges to the Barrancas Avenue System. Connect to Lexington Terrace stormwater ponds to provide water quality improvement prior to discharge to the wetlands.		
98	Lakewood/Millwood Terrace- Warrington Basin Branch F	\$4,510,975
Construct new stormwater collection system in the Lakewood Road area with a stormwater pond at Lakewood Road and Addison Avenue with an outfall under Lakewood Drive to Bayou Chico.		
124	Edgewater Drive - Warrington Basin Study Branch F	\$1,572,096
Extend and increase the capacity of the stormwater system on Edgewater and Chaseville Streets. Construct an outfall ditch and discharge pipe into Bayou Chico.		

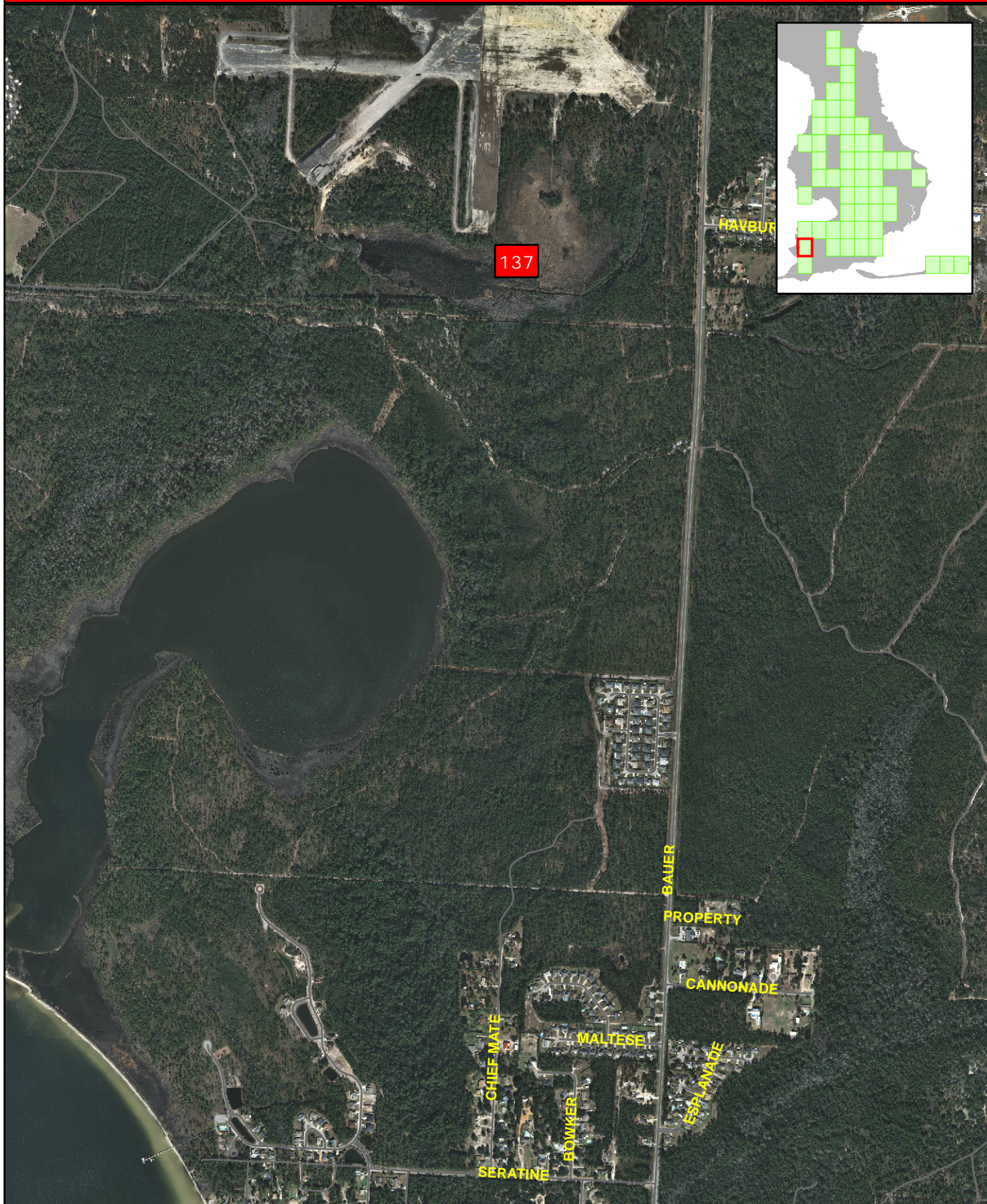


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

137	South Bronson Airfield Ditch Block	\$142,730
Construct ditch blocks in the ditch south of Bronson Airfield. (Treatment only)		

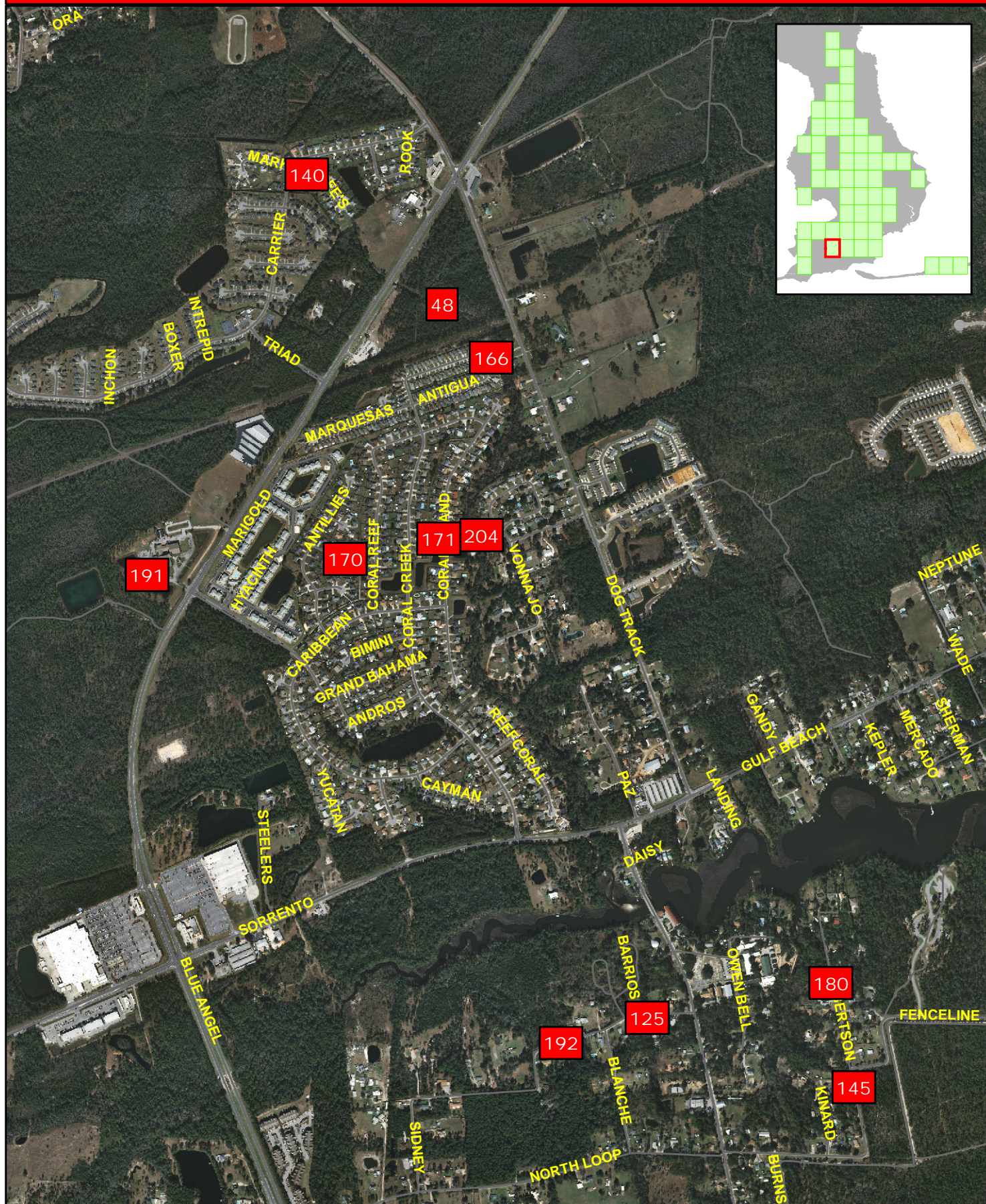


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

140	Bayou Grande Basin Study BB9- Carrier Dr Channel Improvements	\$8,427
Clear and regrade channel downstream of the culvert on Carrier Dr. to alleviate road flooding.		
48	Dogtrack South –Coral Creek – Mariners Village-Hampton Lakes	\$3,400,000
Stream and wetland restoration and construction of an attenuation pond. Two creeks merge north of Coral Creek, resulting in upstream flooding the affects Mariners Village to the northwest and a creek along Dog Track Road to the northeast.		
166	Coral Village Storm Drainage Replacement	\$300,000
Reduce flooding by replacing failing storm pipe within drainage easement.		
191	Bayou Grande Basin Study BB10- Liberty Church Discharge Structure	\$14,045
Provide stormwater pond at Liberty Church with a discharge structure to control the water level and time of detention.		
170	Bayou Grande Basin Study BB4- Windward Ct Outfall Improvements	\$13,483
Clean and grade ditch outfall from Windward Court in Coral Creek.		
171	Bayou Grande Basin Study BB3- Coral Island Dr. Outfall Improvements	\$36,517
Provide stormwater collection along Coral Island Dr. in order to alleviate flooding along the roadway.		
204	Bayou Grande Basin Study BB8- Vonna Jo Discharge Structure	\$14,045
Provide stormwater pond on Vonna Jo Circle with a discharge structure to control the water level and time of detention.		
192	Bayou Grande Basin Study CC2- Sidney Culvert	\$16,854
Enlarge existing culvert to prevent road flooding along Sidney Rd.		
125	Bayou Grande Basin Study CC1- Sidney Culvert	\$10,000
Enlarge existing culvert to prevent road flooding along Sidney Rd.		
180	Bayou Grande Basin Study Y1- Robertson Channel Improvements	\$106,743
Increase and extend existing roadside ditch system along Robertson Rd to control road and yard flooding.		
145	Bayou Grande Basin Study Y2- Kinard Drainage System	\$179,778
Increase and extend existing roadside ditch system along Kinard Ave. and Robertson Rd. to control road and yard flooding.		

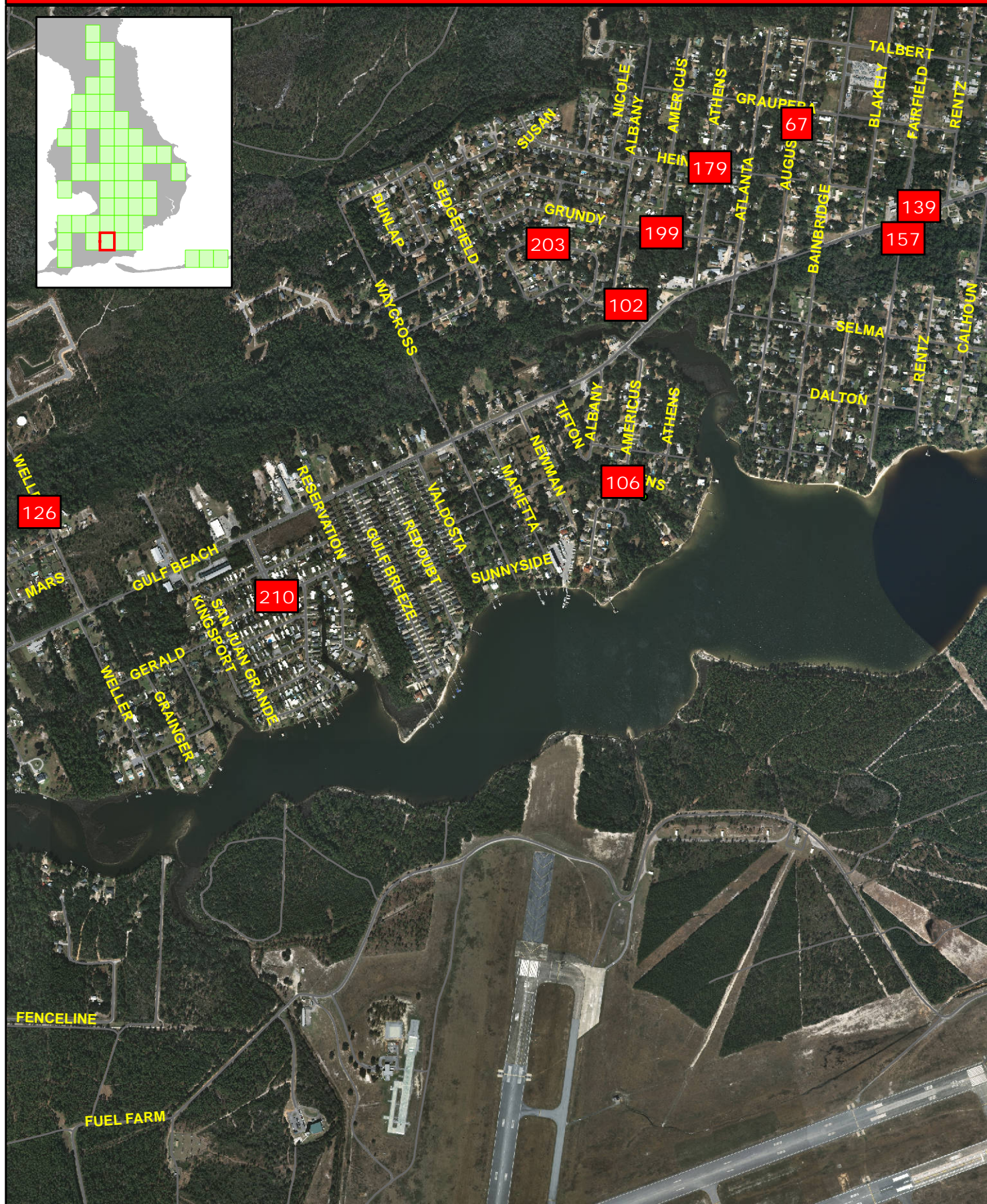


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

67	Beach Haven Area Drainage and Sewer Northwest	\$4,000,000
Roadway/drainage and sewer improvements (NW of Fairfield to Gulf Beach Highway)		
179	Bayou Grande Basin Study P6- Athens St. Ditch Improvements	\$8,427
Improve and regrade existing ditch along Athens and Gulf Beach Hwy to decrease road flooding.		
203	Bayou Grande Basin Study P4- Bay Meadows Dr. Culvert	\$56,181
Replace the existing culvert on Bay Meadows Dr. with larger pipes to prevent road flooding.		
199	Bayou Grande Basin Study P5- Grundy Culvert	\$25,843
Enlarge the existing culvert on Grundy in order to prevent road flooding. This improvement may impact other improvements.		
139	Bayou Grande Basin Study P3- Fairfield Storm Sewer at Gulf Beach	\$106,743
Replace existing storm collection with a larger system to prevent road overtopping.		
157	Bayou Grande Basin Study P2- Gulf Beach Storm Sewer at Fairfield	\$78,653
Replace existing storm collection with a larger system to prevent road overtopping.		
102	Bayou Grande Basin Study P7- Bay Meadows Treatment Pond	\$112,361
Provide treatment pond for existing residential development north of Bay Meadows Dr. This will not affect downstream properties.		
106	Bayou Grande Basin Study S1- Americus Ave Culvert	\$12,000
Enlarge the existing culvert on Americus in order to prevent road flooding. This improvement may impact other improvements.		
126	Bayou Grande Basin Study R1- Weller Dr. Culvert	\$55,000
Replace and increase the existing culvert along Weller Dr. to prevent road overtopping. This improvement will not negatively impact downstream properties.		
210	Bayou Grande Villas	\$200,000
Roadway/drainage and sewer improvements; currently under design (NE of Fairfield and Gulf Beach Highway; Fairfield Dr to Colbert)		



BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions

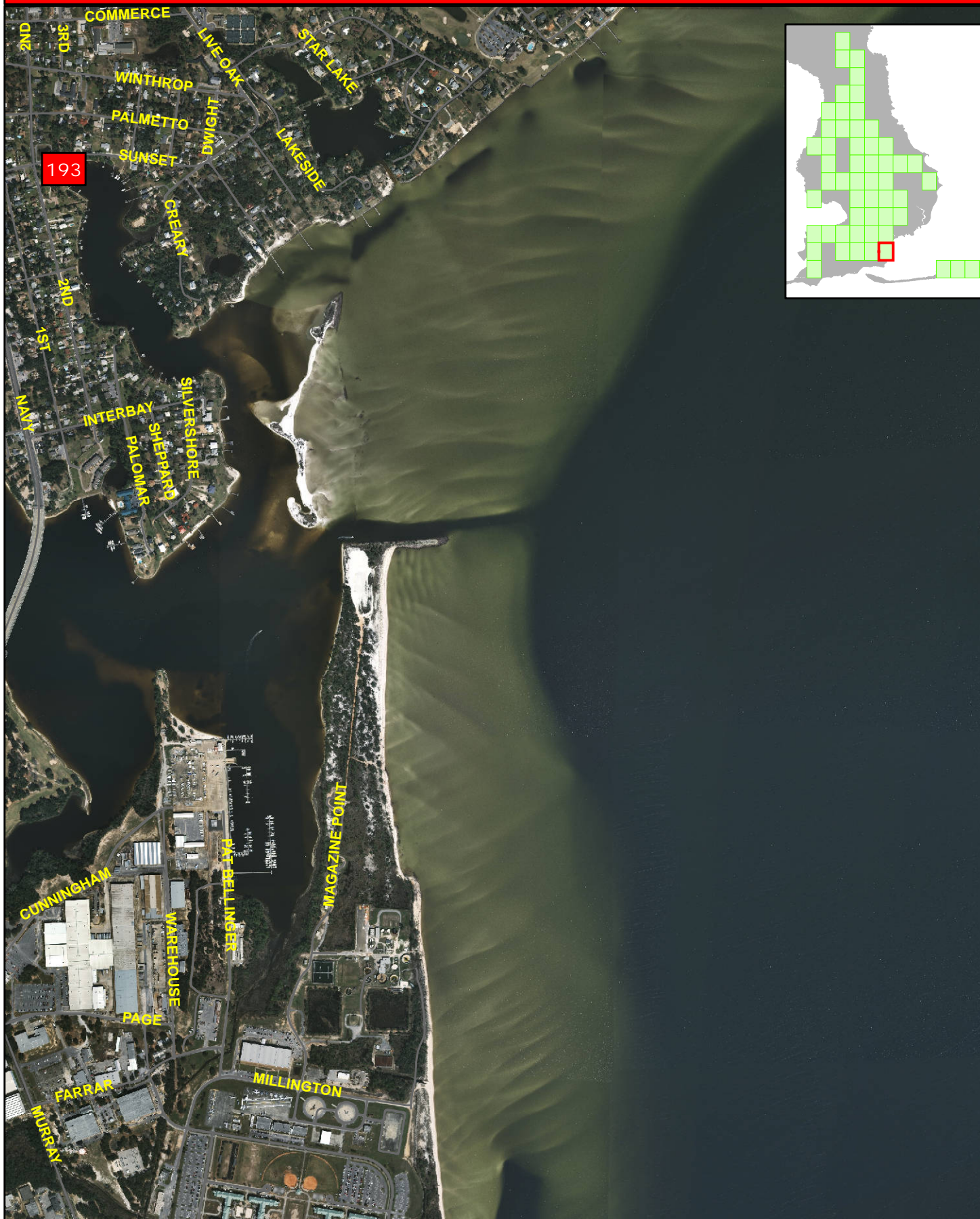


1,200
Feet

10	Beach Haven Area Drainage and Sewer Northeast Phase 2	\$7,823,000
Roadway/drainage and sewer improvements; currently under design (NE of Fairfield and Gulf Beach Highway; Fairfield Dr to Colbert)		
12	Beach Haven Area Drainage and Sewer (South)	\$12,000,000
Roadway/drainage and sewer improvements; currently under design (NE of Fairfield and Gulf Beach Highway; Fairfield Dr to Colbert)		
78	Navy Point Drainage South	\$25,000
Construct treatment swales within Navy Point to treat stormwater as it flows to the discharge point per Bayou Grande Basin Study.		
59	Sunset/Patton/Elite/Gulf Beach Hwy Drainage Outfall	\$220,000
Realign the drainage outfall line beginning at Gulf Beach Hwy and Elite Drive to flow down Sunset St. in order to correct non-functioning sections and routing beneath homes.		
75	Bayou Grande Basin K1- Gulf Beach to Winthrop SS	\$174,160
Replace the outfall trunk line from Gulf Beach Hwy through Winthrop Ave. to prevent roadway flooding.		
83	Bayou Grande Basin Study P1- Bainbridge Culvert	\$44,945
Replace existing culvert on Bainbridge with a larger pipe to prevent road overtopping.		
77	Navy Point Drainage North	\$20,000
Construct treatment swales within Navy Point to treat stormwater as it flows to the discharge point per Bayou Grande Basin Study.		
190	Bayou Grande Basin Study L1- Cousineau Rd. Outfall	\$25,281
Replace the outfall from Cousineau Rd. to Bayou Grade by an outfall ditch in order to prevent street flooding.		
82	Navy Point Drainage and Sanitary Sewer	\$300,000
Roadway/drainage and sewer improvements; currently under design (NE of Fairfield and Gulf Beach Highway; Fairfield Dr to Colbert)		

193**Bayou Grande B1- New Storm Drainage System*****\$308,994***

Construct a new street collection system consisting of roadside swales and culverts along 1st and 2nd streets to reduce roadway flooding. Improvement is an independent project and will not affect downstream properties.

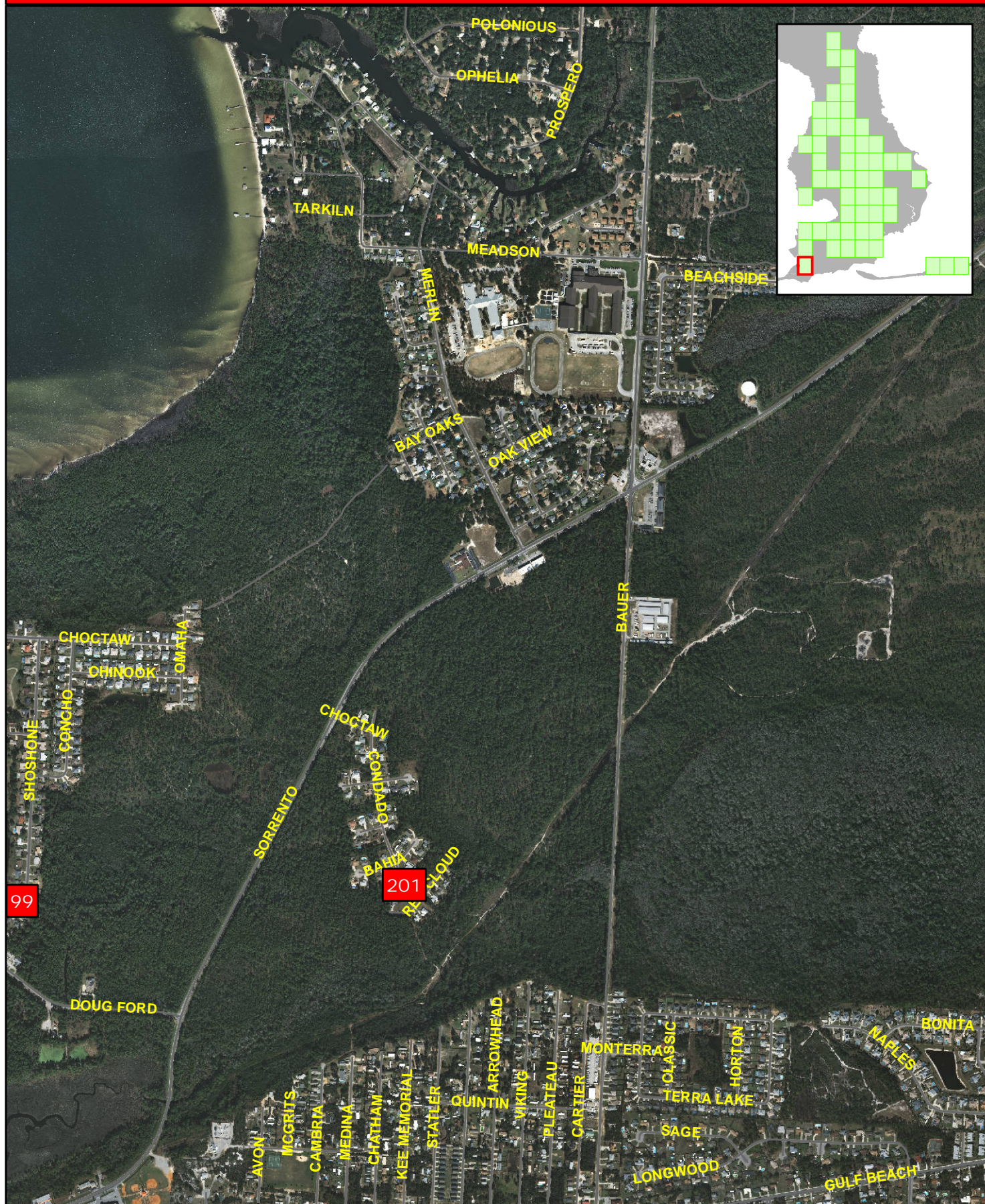


BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

99	Shoshone and Doug Ford Drive Drainage	<i>\$240,000</i>
Evaluate pipe system and obtain permits to restore flow the wetlands and alleviate home flooding along Shoshone Drive.		
201	Perdido Bay Country Club Estates Unit 7	<i>\$170,000</i>
Drainage and resurfacing projects to address flooding and groundwater problems		



BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions



1,200
Feet

159	Via DeLuna Drainage at Pensacola Beach RV Resort	\$287,470
System should be cleaned of sediment and checked regularly. Increased system capacity should be considered.		
175	Pensacola Beach Blvd Stormwater Outfall Upgrades	\$401,121
Installing stormwater treatment on the outfall in the vicinity of the marina within the existing stormwater easement		
196	Siguenza Drive Drainage	\$93,595
Construct a small retention area at the bend adding a new inlet at the location of the flooding		
217	Visitor Information Center Access Road Drainage	\$93,595
Regrading and repaved roadway to add slope and positive outfall to drainage inlets		



BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions

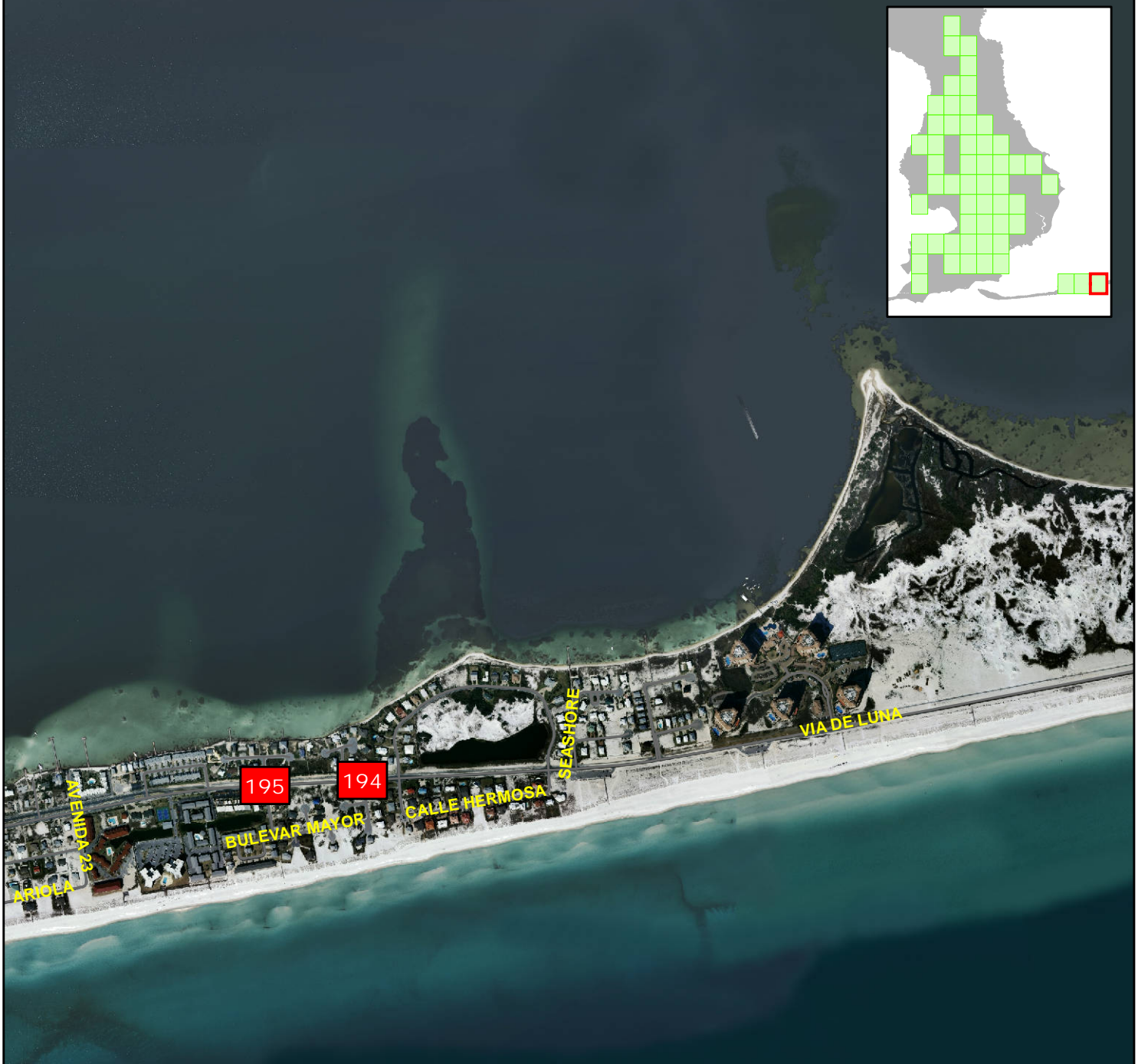


1,200
Feet

160	Corto, Largo, and Rio Vista Drives Drainage	\$735,389
Repaving at Corto Drive and Rio Vista Drive. Regrading at Largo Drive from Avenida 17 to the sound. Stabilizing along Rio Vista Drive south of Largo Drive.		
216	Via DeLuna Side road Connection Drainage Improvements	\$334,268
Drainage Improvements		



194	Calle Juela Drainage at Via DeLuna	\$93,595
Regrade to a grate inlet with outfall through an exfiltration pipe		
195	Calle Traviesa Drainage at Via DeLuna	\$93,595
Regrade to a grate inlet with outfall through an exfiltration pipe		





449 W. Garden Street, Pensacola, FL 32502

www.baskervilledonovan.com