

Appendix E

Preliminary Estimates of Project Costs

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Preliminary Estimates of Project Costs

Preliminary engineering cost estimates associated with proposed airport improvement development through the year 2015 as discussed in **Chapter 7, *Implementation Plan***, are provided to assist JAA in implementing these projects. FAA, FDOT, local and private funding were identified based upon maximum funding eligibility. JACIP-Airport Project Detail Reports are provided for only those projects in the short and intermediate term that will receive Federal, State or local funding. Airport Project Detail Reports are not provided for projects that are anticipated to be privately funded.

Estimated project costs presented in this report were based upon past and on-going project costs for similar types of improvements. These calculations are to be used for budgeting purposes only since actual costs at the time of construction may vary. The estimated implementation costs include estimated construction costs as well as allowances for professional services, such as engineering, survey, inspection and testing. In addition, a 20 percent contingency was added to each capital improvement project budget in order to address possible variations in the project costs.

A detailed cost estimate should be performed for each individual project as proposed in this report prior to appropriating funds for implementation. **Tables E-1, *Short-Term Capital Improvement Program***, and **E-2, *Mid-Term Capital Improvement Program***, outline maximum eligible federal and state funding based upon FAA and local project priorities. Preliminary cost estimates for proposed airport development are provided in 2006 dollars.

TABLE E-1
SHORT-TERM PROPOSED CAPITAL IMPROVEMENT PLAN
MAXIMUM FUNDING

Phasing Identifier	Year	UPIN #	FDOT WP #	Sponsor Priority Ranking	FAA Feasibility	Development Item Description	Development Costs & Contingencies (2006)	Federal Funding		State	Local/Other Sources	Private	Total
								GA Entitlements	Discretionary				
S-01	2006	23J609		0	58	Comprehensive Planning	\$12,500	\$0	\$0	\$0	\$12,500	\$0	\$12,500
S-02	2006	PFL0001571	217015 1	1	20	Design and Construct New Fuel Farm (2 Tanks) ¹	\$486,422	\$50,000	\$0	\$250,000	\$186,422	\$0	\$486,422
S-03	2006	PFL0001575	409970 1	3	19	Expand Terminal Vehicular Parking	\$100,000	\$0	\$0	\$50,000	\$50,000	\$0	\$100,000
S-04	2006	23J277	409968 1	4	23	West and South Access Road Improvements ¹	\$200,000	\$100,000	\$0	\$100,000	\$0	\$0	\$200,000
S-05	2006	FL0000083	409966 1	5	68	Airport Master Plan Update	\$20,000	\$0	\$0	\$0	\$20,000	\$0	\$20,000
						Total 2006	\$818,922	\$150,000	\$0	\$400,000	\$268,922	\$0	\$818,922
S-06	2007	23J275/23J609	-	0	61/58	Environmental & Comprehensive Planning	\$25,000	\$0	\$0	\$0	\$25,000	\$0	\$25,000
S-07	2007	PFL0000991	2169901-94-01	1	0	Construct 14-unit T-hangar ³	\$1,202,062	\$0	\$0	\$400,000	\$802,062	\$0	\$1,202,062
S-08	2007	-	-	2	68	Conduct Cost-Benefit Feasibility Study for Runway 7-25 Extension ²	\$35,000	\$0	\$0	\$0	\$35,000	\$0	\$35,000
S-09	2007	-	-	7	92	Signage Plan/Design ²	\$29,000	\$0	\$27,550	\$0	\$1,450	\$0	\$29,000
S-10	2007	-	-	8	0	Expand Royal Atlantic Facilities ²	\$728,865	\$0	\$0	\$0	\$0	\$728,865	\$728,865
						Total 2007	\$2,019,927	\$0	\$27,550	\$400,000	\$863,512	\$728,865	\$2,019,927
S-11	2008	23J275/23J609	-	0	61/58	Environmental & Comprehensive Planning	\$25,000	\$0	\$0	\$0	\$25,000	\$0	\$25,000
S-12	2008	PFL0001568	2170132-94-01	1	72	Rehabilitate Runway 7-25 & Signage (Phase I) - Design ¹	\$311,611	\$150,000	\$0	\$25,000	\$136,611	\$0	\$311,611
S-13	2008	PFL0001574	-	1	70	Runway 7 Extension Design ^(1 & 2)	\$147,434	\$56,511	\$76,180	\$0	\$14,743	\$0	\$147,434
S-14	2008	PFL0000079	-	2	68	EA for Turf Runway & Runway 7/25 Extension	\$350,800	\$0	\$315,720	\$0	\$35,080	\$0	\$350,800
S-15	2008	PFL0001574	-	2	70	Runway 7 Extension - Construction including 20% contingency ¹	\$572,093	\$43,489	\$0	\$500,000	\$28,604	\$0	\$572,093
S-16	2008	-	-	2	50	Runway 7-25 Stopways and Markings Design ²	\$127,238	\$0	\$0	\$63,619	\$63,619	\$0	\$127,238
S-17	2008	PFL0001619	-	5	48	Replace AWOS ¹	\$189,000	\$50,000	\$0	\$0	\$139,000	\$0	\$189,000
S-18	2008	-	-	6	58	Pavement Condition Report ²	\$30,000	\$0	\$0	\$15,000	\$15,000	\$0	\$30,000
						Total 2008	\$1,753,176	\$300,000	\$391,900	\$603,619	\$457,658	\$0	\$1,753,176
S-19	2009	23J275/23J609	-	0	61/58	Environmental & Comprehensive Planning	\$25,000	\$0	\$0	\$0	\$25,000	\$0	\$25,000
S-20	2009	PFL0001568	2170132-94-01	1	72	Rehab Runway 7/25 & Signage ³	\$1,076,500	\$0	\$968,850	\$0	\$107,650	\$0	\$1,076,500
S-21	2009	23J280	-	1	34	Construct Open Bay/Maintenance Hangar North GA Area	\$1,848,057	\$0	\$0	\$0	\$1,848,057	\$0	\$1,848,057
S-22	2009	-	-	1	50	Construct 3,700 SY Apron adjacent to Maintenance Hangar ²	\$467,718	\$0	\$0	\$0	\$467,718	\$0	\$467,718
S-23	2009	PFL0000091	4099692-94-01	3	72	Construct/Relocate Electrical Vault & Design/Construct T-Hangars (14 Unit) ³	\$1,532,302	\$0	\$0	\$500,000	\$1,032,302	\$0	\$1,532,302
S-24	2009	-	-	5	22	Extend access road to T-Hangars 1, 2 & 3 ²	\$115,204	\$0	\$0	\$0	\$115,204	\$0	\$115,204

TABLE E-1
SHORT-TERM PROPOSED CAPITAL IMPROVEMENT PLAN
MAXIMUM FUNDING

Phasing Identifier	Year	UPIN #	FDOT WP #	Sponsor Priority Ranking	FAA Feasibility	Development Item Description	Development Costs & Contingencies (2006)	Federal Funding		State	Local/Other Sources	Private	Total
								GA Entitlements	Discretionary				
S-25	2009	-	-	6	86	Relocate Fence Line associated with T-Hangar Development ²	\$87,756	\$0	\$83,368	\$0	\$4,388	\$0	\$87,756
S-26	2009	PFL0001574	-	3	50	Design/Construct Runway Extension (Stopways and Markings)	\$491,115	\$0	\$0	\$0	\$491,115	\$0	\$491,115
S-27	2009	-	-	4	53	Taxiway A Extension with Markings and Lighting ^{1 & 2}	\$535,395	\$150,000	\$0	\$0	\$385,395	\$0	\$535,395
S-28	2009	-	-	6	43	Runway 7 PAPI Relocation ²	\$32,211	\$0	\$0	\$0	\$32,211	\$0	\$32,211
S-29	2009	23J276	-	7	50	REILs Runway 7/25	\$89,604	\$0	\$0	\$0	\$89,604	\$0	\$89,604
Total 2009							\$6,300,862	\$150,000	\$1,052,218	\$500,000	\$4,598,644	\$0	\$6,300,862
S-30	2010	23J275/23J609	-	0	61/58	Environmental & Comprehensive Planning	\$25,000	\$0	\$0	\$0	\$25,000	\$0	\$25,000
S-31	2010	PFL0001568	2170132-94-01		72	Rehabilitate Runway 7/25 ³	\$1,076,500	\$0	\$0	\$475,000	\$601,500	\$0	\$1,076,500
S-32	2010	PFL0002304	2170133-94-01	1	72	Rehabilitate Runway 11/29 ^{1 & 3}	\$2,215,388	\$150,000	\$0	\$500,000	\$1,565,388	\$0	\$2,215,388
S-33	2010	PFL0004048	-	2	50	West Apron Expansion Phase 2	\$1,357,208	\$0	\$0	\$678,604	\$678,604	\$0	\$1,357,208
S-34	2010	-	-	3	50	Airfield Sign System Upgrades including new Signage ²	\$463,904	\$0	\$0	\$231,952	\$231,952	\$0	\$463,904
S-35	2010	-	-	6	19	Construct 1,069 SY of Automobile Parking ²	\$134,704	\$0	\$0	\$67,352	\$67,352	\$0	\$134,704
S-36	2010	-	-	7	0	Construct 150' x 100' Corporate Hangar in North GA Area ²	\$2,275,064	\$0	\$0	\$0	\$0	\$2,275,064	\$2,275,064
S-37	2010	-	-	8	46	Construct Blimp Hangar and Apron ²	\$3,300,976	\$0	\$0	\$0	\$0	\$3,300,976	\$3,300,976
Total 2010							\$10,848,744	\$150,000	\$0	\$1,952,908	\$3,169,796	\$5,576,040	\$10,848,744
Short-Term Project Total (2006-2010)							\$21,741,631	\$750,000	\$1,471,668	\$3,856,527	\$9,358,531	\$6,304,905	\$21,741,631

Sources: JAA FDOT Work Program, JACIP (March 2007), Historical Funding, FAA Project Priority Funding and The LPA Group, 2007

TABLE E-2
MID-TERM PROPOSED CAPITAL IMPROVEMENT PROGRAM (2011-2015)
MAXIMUM FEASIBLE FUNDING

Notes													
¹ GA Entitlement Funding													
² Not in JAA Work Program													
³ Included FDOT Work Program													
Phasing Identifier	Year	UPIN #	FDOT WP #	Sponsor Priority Ranking	FAA Feasibility	Development Item Description	Development Costs & Contingencies (2006)	Federal Funding			Local/Other Sources	Private	Total
								GA Entitlements	Discretionary	State			
I-26	2013	PFL0002306	-	5	50	Design/Construct REILs on Runway 7/25	\$89,604	\$0	\$0	\$44,802	\$44,802	\$0	\$89,604
I-27	2013	-	-	6	43	Install MALSR on Runway 25 ²	\$444,290	\$0	\$0	\$222,145	\$222,145	\$0	\$444,290
I-28	2013	PFL0001572	-	7	45	Acquire Runway 7 Avigation Easement (9.7 Acres)	\$270,000	\$0	\$0	\$135,000	\$135,000	\$0	\$270,000
I-29	2013	PFL0002031	-	62	62	Overlay West Apron (Transient)	\$998,613	\$0	\$0	\$499,307	\$499,307	\$0	\$998,613
I-30	2013	PFL0003129	-	8	20	South Airfield Electrical Utilities	\$600,000	\$0	\$0	\$300,000	\$300,000	\$0	\$600,000
Total 2013							\$5,075,144	\$150,000	\$333,434	\$2,283,355	\$2,308,356	\$0	\$5,075,144
I-31	2014	PFL0002026	-	1	68	Rehabilitate Taxiways A and B ¹	\$1,779,347	\$150,000	\$0	\$814,673	\$814,673	\$0	\$1,779,347
I-32	2014	-	-	2	0	Construct 100' x 170' Corporate Hangar on East Side of North GA Area, includes auto parking ²	\$2,559,735	\$0	\$0	\$0	\$0	\$2,559,735	\$2,559,735
I-34	2014	-	-	3	0	Construct 100' x 100' Corporate Hangar in North GA Area, includes auto parking ²	\$1,563,386	\$0	\$0	\$0	\$0	\$1,563,386	\$1,563,386
I-35	2014	PFL0002038	-	4	48	Implement Precision Approach - Runway 25	\$942,000	\$0	\$0	\$471,000	\$471,000	\$0	\$942,000
I-36	2014	-	-	5	0	Construct 100' x 100' Corporate Hangar in North GA Area ²	\$1,563,386	\$0	\$0	\$0	\$0	\$1,563,386	\$1,563,386
I-37	2014	-	-	6	46	Construct 3,729 SY Apron on West Side of North GA Area ¹	\$471,050	\$0	\$0	\$235,525	\$235,525	\$0	\$471,050
I-38	2014	-	-	7	19	Construct 1,069 SY Automobile Parking Area on West Side of North GA Area ²	\$134,704	\$0	\$0	\$0	\$0	\$134,704	\$134,704
I-39	2014	-	-	8	19	Construct 1,739 SY Automobile Parking Area on West Side of North GA Area ²	\$186,204	\$0	\$0	\$0	\$0	\$186,204	\$186,204
I-40	2014	-	-	9	58	West Industrial Park - Preliminary Site Development ²	\$200,000	\$0	\$0	\$100,000	\$100,000	\$0	\$200,000
I-41	2014	-	-	10	58	East Commerce Park - Preliminary Site Development ²	\$300,000	\$0	\$0	\$150,000	\$150,000	\$0	\$300,000
I-42	2014	-	-	11	86	West Industrial Park - Fenceline Relocation ²	\$15,000	\$0	\$13,500	\$750	\$750	\$0	\$15,000
I-43	2014	-	-	12	45	West Industrial Park - Drainage Improvements ²	\$123,500	\$0	\$0	\$61,750	\$61,750	\$0	\$123,500
Total 2014							\$9,838,312	\$150,000	\$13,500	\$1,833,698	\$1,833,698	\$6,007,415	\$9,838,312
I-44	2015	-	-	1	0	Closed Runways Pavement Removal (Taxiways L & M) ^{1&2}	\$181,457	\$150,000	\$0	\$15,729	\$15,729	\$0	\$181,457
I-45	2015	-	-	2	68	Closed Runways Taxilane Overlay/Repaving (Taxiways L & M) ²	\$1,151,009	\$0	\$0	\$575,505	\$575,505	\$0	\$1,151,009
I-46	2015	-	-	3	47	Install Markings and Lighting on Southern Taxiways (L	\$368,522	\$0	\$0	\$184,261	\$184,261	\$0	\$368,522

TABLE E-2
MID-TERM PROPOSED CAPITAL IMPROVEMENT PROGRAM (2011-2015)
MAXIMUM FEASIBLE FUNDING

Notes													
¹ GA Entitlement Funding													
² Not in JAA Work Program													
³ Included FDOT Work Program													
Phasing Identifier	Year	UPIN #	FDOT WP #	Sponsor Priority Ranking	FAA Feasibility	Development Item Description	Development Costs & Contingencies (2006)	Federal Funding			Local/Other Sources	Private	Total
								GA Entitlements	Discretionary	State			
						& M) ²							
I-47	2015	-	-	4	0	Construct 100' x 170' Corporate Hangar on East Side of North GA Area ²	\$2,559,735	\$0	\$0	\$0	\$0	\$2,559,735	\$2,559,735
I-48	2015	-	-	5	48	Midfield Access Roadway Improvements ²	\$3,014,482	\$0	\$0	\$1,507,241	\$1,507,241	\$0	\$3,014,482
I-49	2015	-	-	7	48	East Commerce Park Access Roadway and Auto Parking ²	\$4,032,360	\$0	\$0	\$2,016,180	\$2,016,180	\$0	\$4,032,360
Total 2015							\$11,307,565	\$150,000	\$0	\$4,298,915	\$4,298,915	\$2,559,735	\$11,307,565
Total 2011-2015							\$35,878,426	\$750,000	\$464,039	\$11,916,948	\$11,979,449	\$10,767,991	\$35,878,427

Sources: JAA FDOT Work Program, JACIP (March 2007), Historical Funding, FAA Project Priority Funding and The LPA Group, 2007

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:
Sponsor:	Jacksonville Aviation Authority	Airport ID: HEG
Sponsor ID:	1204	Site No.: 03250.*A

UPIN:	PFL0001571	Candidate:
Airport Project ID:	H2006-1	FDOT Description 2:
WPI No.:	217015 1	FDOT Description 3:
Sponsor Priority:	2006	National Priority:
Common Description:	Design & Construct New Fuel Farm (S-2)	Project Type: Construction/Installation

Project Narrative:

This project involves the relocation and reconstruction of the fuel farm facility behind the FBO terminal building from its current, underground location near the transient apron and FBO. The underground tanks will be replaced with new tanks and stored above ground. There will be 1 tank for AVGAS fuel and 1 tank for Jet-A fuel.

Project Justification:

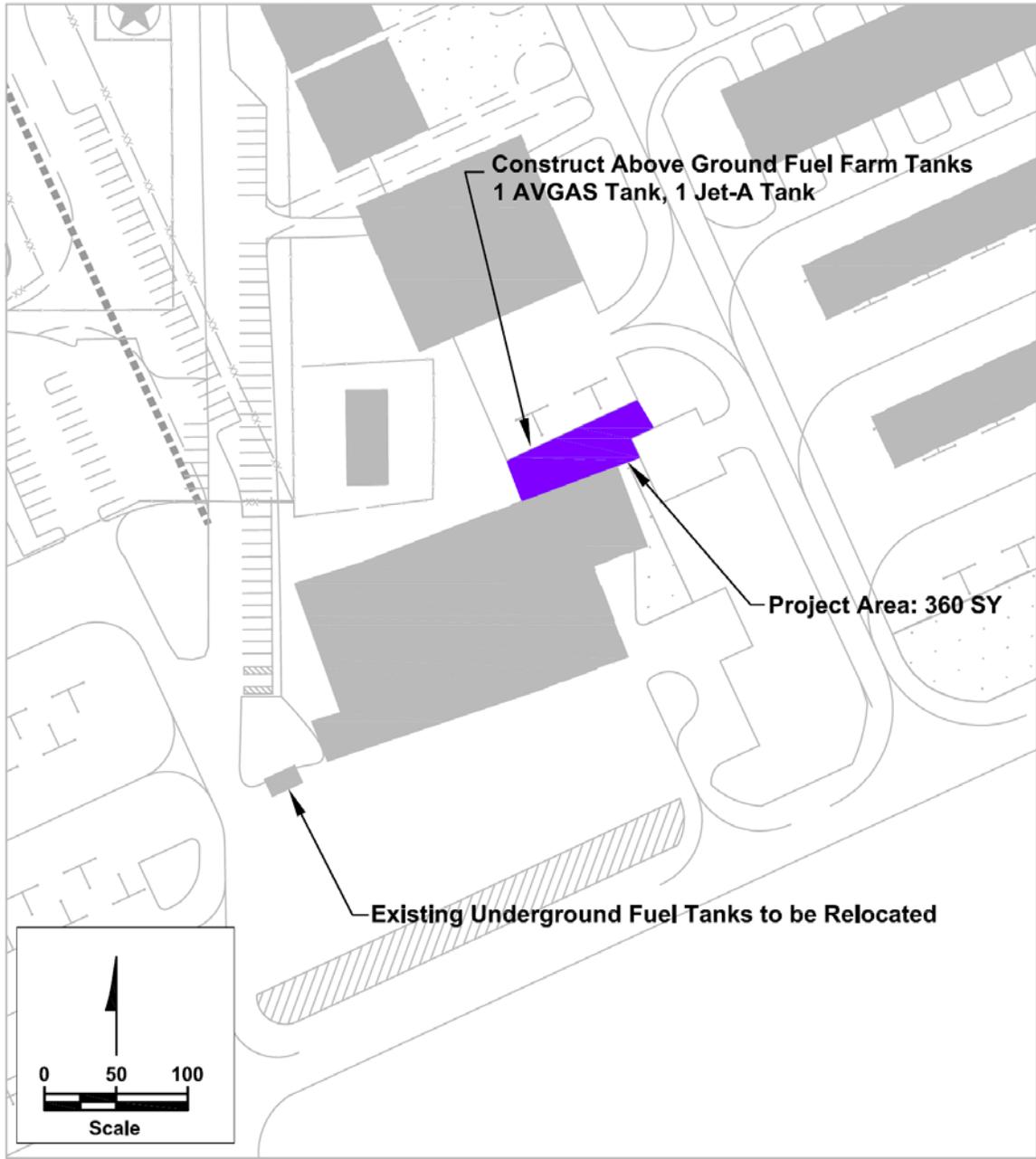
This project is necessary for the safe and environmentally conscious containment of fuel and the need for larger fuel storage at the airport.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2006	Federal Match - Entitlement	\$50,000
2006	FDOT Match	\$250,000
2006	Local Match	\$186,422
<u>Year Total</u>		<u>\$486,422</u>
Project Total – Federal		\$50,000
Project Total – State		\$250,000
Project Total – Local		\$186,422
Overall Project Total		<u>\$486,422</u>



PRELIMINARY ESTIMATE OF PROJECT COSTS
Herlong Airport - Capital Improvement Program

S-2 Design and Construct Fuel Farm Approximate Pavement/Bldg Area: 360 SY
 CIP Year: 2006

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1	LS	\$1,510	\$1,510	
C-2	Erosion and Sediment Control	1	LS	\$3,028	\$100	
C-3	Allowance for Drainage Improvements	1	LS	\$2,000	\$2,000	
C-4	Embankment and Excavation	120	CY	\$7	\$840	
C-5	12,000 Gallon Fuel Tank	2	ea	\$150,000	\$300,000	

Approximate Total Construction Cost: \$304,450.00

S-1	Surveying & Design Testing	6.0%			\$18,267	
S-2	Allowance for Permitting Fees				\$5,000	
S-3	Engineering	14.0%			\$42,623	
S-4	Inspection & Testing	10.0%			\$30,445	
S-5	Airport Administration	1.5%			\$4,567	

Approximate Total Services Cost: \$100,901.75

Preliminary Estimate of Project Cost \$405,351.75

Contingency 20.0% \$81,070.35

PRESENT COST: \$486,422.10

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:	PFL0000991	Candidate:	
Airport Project ID:	H2005-2	FDOT Description 2:	
WPI No.:	2169901-94-01	FDOT Description 3:	
Sponsor Priority:	2007	National Priority:	
Common Description:	Construct 14-Unit T-Hangar, North of Terminal Building (S-07)	Project Type:	Building Construction

Project Narrative:

This project involves the construction of a 14-unit t-hangar on the east side of the North GA area and includes associated drainage and lighting.

Project Justification:

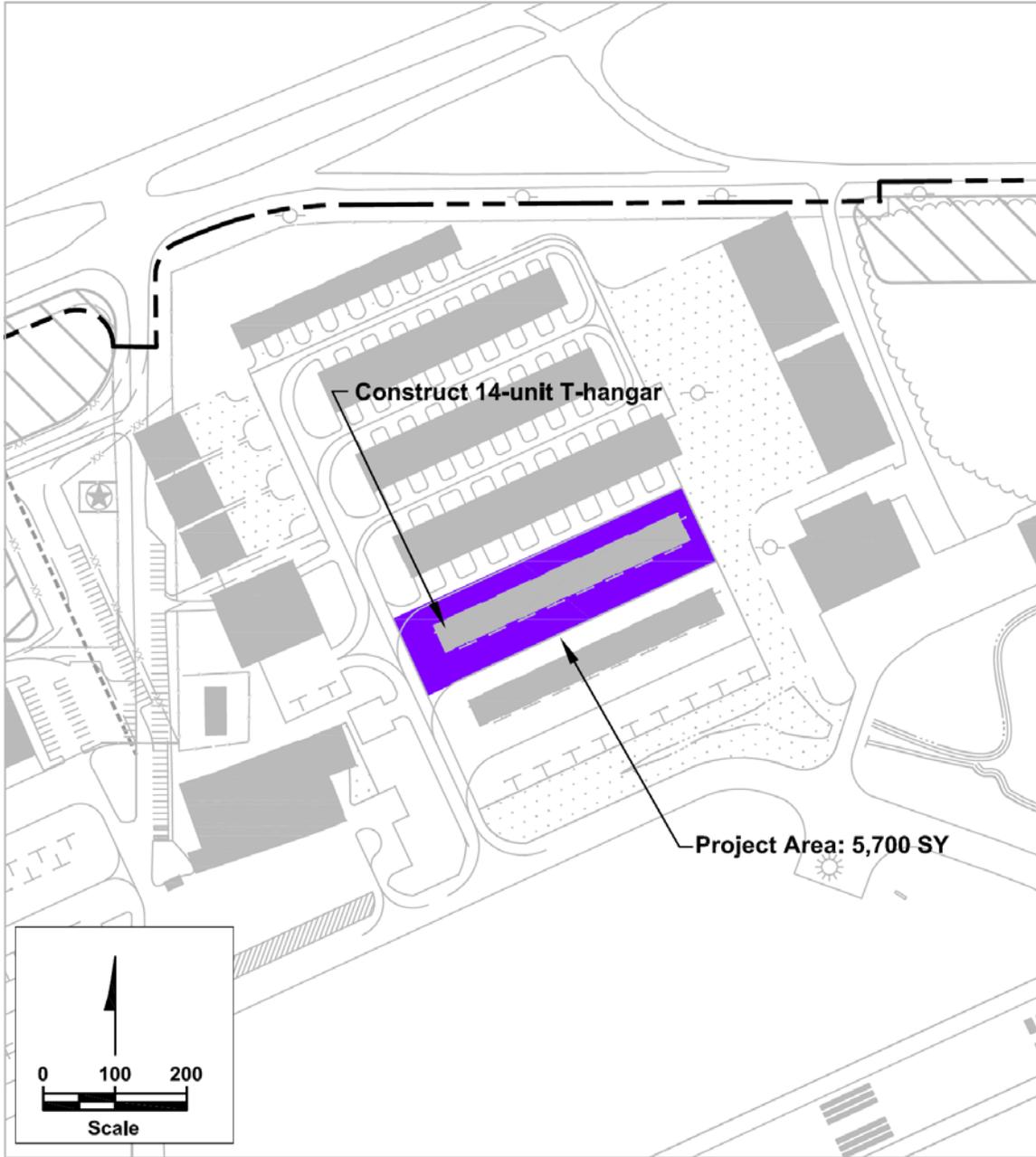
This project is necessary to accommodate future aircraft hangar storage requirements.

Airport Notes: 10/25/05 FDOT Reprogrammed the additional funds

FDOT Notes: \$400,000 programmed for FY 2007

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2007	FAA	\$0.00
2007	FDOT	\$400,000
2007	Local Match	\$802,062
<u>Year Total</u>		<u>\$1,202,062.00</u>
Project Total – Federal		\$0.00
Project Total – State		\$400,000
Project Total – Local		\$802,062
Overall Project Total		<u>\$1,202,062.00</u>



PRELIMINARY ESTIMATE OF PROJECT COSTS
Herlong Airport - Capital Improvement Program

S-07 Construct 14-Unit T-Hangar Approximate Pavement/Bldg Area: 14 Units
 CIP Year: 2007

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$68,905.50	\$68,906	
C-2	Erosion and Sediment Control	1.0	LS	\$555.00	\$555	
C-3	Construct 14-Unit T-Hangar	14.0	ea	\$45,000.00	\$630,000	
C-4	Maintenance of Traffic	1.0	LS	\$1,000.00	\$1,000	
C-5	Embankment/Excavation	500.0	CY	\$7.00	\$3,500	
C-6	Allowance for Drainage Improvements	1.0	LS	\$5,000.00	\$5,000	
C-7	Allowance for Utility/Hydrant Modifications	1.0	LS	\$25,000.00	\$25,000	
C-8	Allowance for Area Lighting	1.0	LS	\$5,000.00	\$5,000	
C-9	Vehicular Signage	1.0	LS	\$1,000.00	\$1,000	
C-10	Allowance for Curb/Gutter Improvements	1.0	LS	\$0.00	\$0	
C-11	Landscaping allowance	1.0	LS	\$15,000.00	\$15,000	
C-12	Allowance for Sidewalk Improvements	1.0	LS	\$3,000.00	\$3,000	
<i>Approximate Total Construction Cost:</i>						\$757,961
S-1	Surveying & Design Testing	6%			\$45,477.63	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$106,114.47	
S-4	Inspection & Testing	10%			\$75,796.05	
S-5	Airport Administration	1.5%			\$11,369.41	
<i>Approximate Total Services Cost:</i>						\$243,758
Preliminary Estimate of Project Cost						\$1,001,718
Contingency		20.0%				\$200,344
PRESENT COST:						\$1,202,062

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:	PFL0001619	Candidate:	
Airport Project ID:	H2008-5	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2008	National Priority:	
Common Description:	Replace AWOS (S-20)	Project Type:	Upgrade AWOS

Project Narrative:

This project involves the replacement of the AWOS facility with more advanced AWOS-3 equipment. The AWOS site will remain in place.

Project Justification:

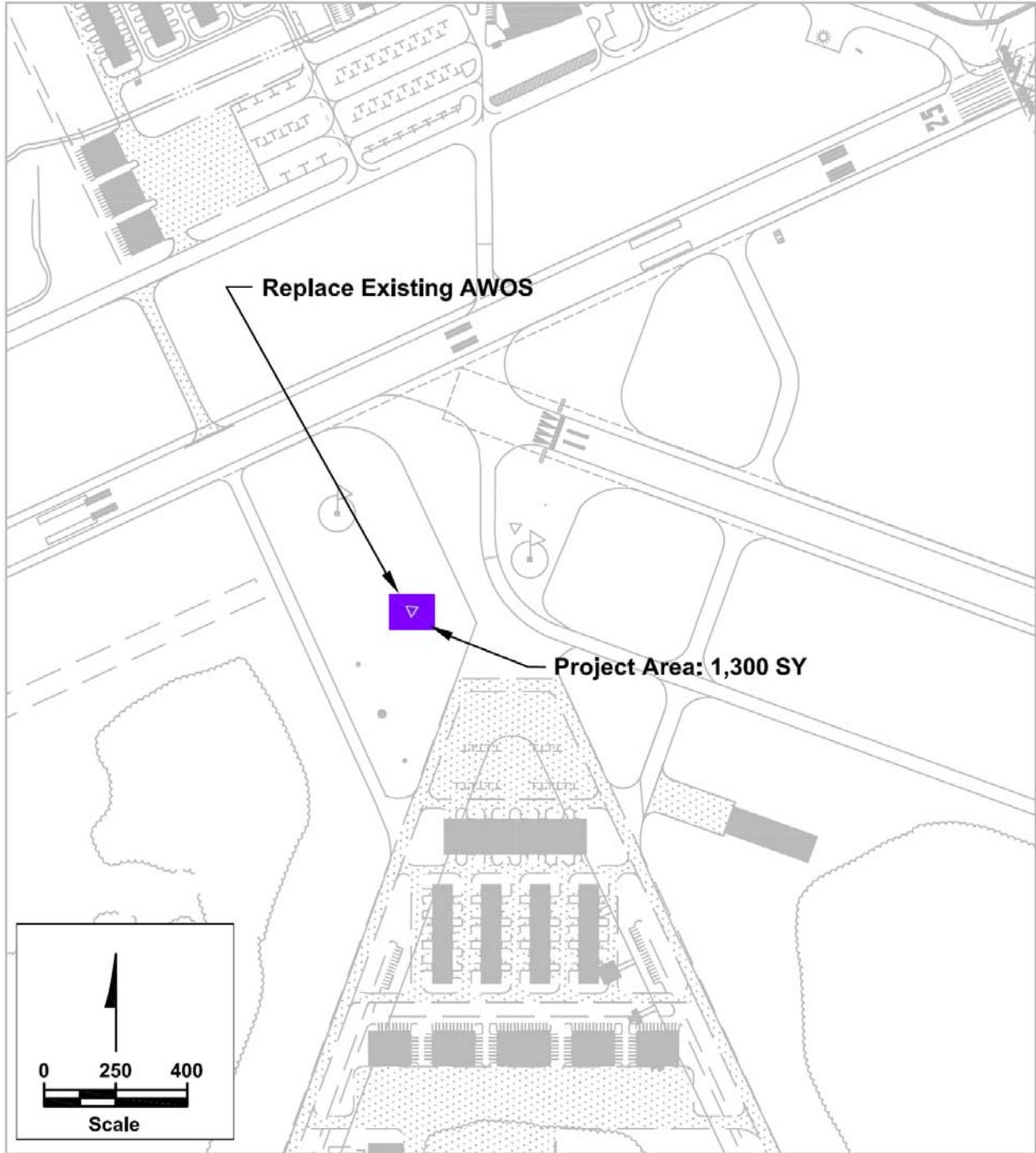
This project is necessary in order to maintain the safe and accurate broadcast of weather information to pilots.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2008	Federal Match - Entitlement	\$50,000
2008	Federal Match - Discretionary	\$0.00
2008	FDOT Match	\$0.00
2008	Local Match	\$139,000
<u>Year Total</u>		<u>\$189,000</u>
Project Total – Federal		\$50,000
Project Total – State		\$0.00
Project Total – Local		\$139,000
Overall Project Total		<u>\$189,000</u>



JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A
UPIN:	PFL0001574	Candidate:	
Airport Project ID:		FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2008-2009	National Priority:	
Common Description:	Design and Construct Runway 7-25 Overruns (S-16 & S-26)	Project Type:	Runway Construction

Project Narrative:

This project consists of the design and construction of 120 x 250 foot overruns on Runways 7 and 25.

Project Justification:

As part of the 500 foot runway extension, the construction of 120 x 250 foot overruns beyond each runway end is recommended in an effort to safeguard aircraft from possible runway overshoots as well as engine out procedures, especially during wet conditions.

Airport Notes:

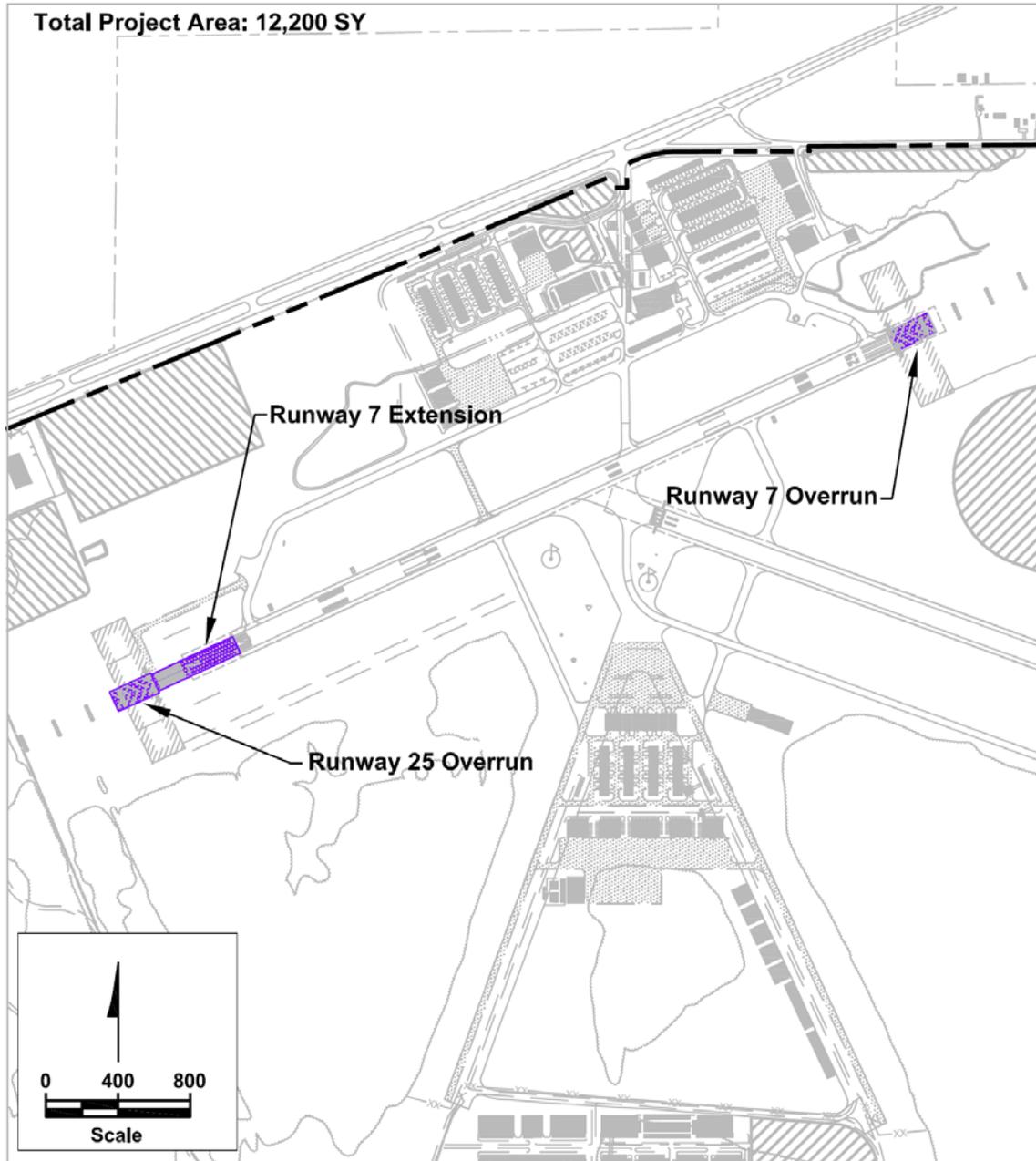
FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
Runway 7-25 Overruns Marking and Design		
2008	FDOT Match	\$63,619
2008	Local Match	\$63,619
<u>Year Total</u>		<u>\$127,238</u>
Construction of Overruns with Markings		
2009	Local Match	\$491,115
<u>Year Total</u>		<u>\$491,115</u>
Project Total – Federal		\$0.00
Project Total – State		\$63,619
Project Total – Local		\$554,734
Overall Project Total		<u>\$618,352</u>

Project Summary:

As a result of a changing operational fleet mix that includes more jet activity, an extension to Runway 7 and parallel Taxiway A is necessary. This project also includes the construction of overruns beyond each runway end in an effort to safeguard aircraft from possible runway overshoots, especially during wet conditions. The total area associated with this project is approximately 16,000 square yards.



PRELIMINARY ESTIMATE OF PROJECT COSTS

Herlong Airport - Capital Improvement Program

S-16 & 26 Runway 7-25 Overruns and Markings Approximate Pavement/Bldg Area: 6,667 SY
 CIP Year: 2008-2009

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$35,277.82	\$35,278	
C-2	Erosion and Sediment Control	1.0	LS	\$3,492.85	\$3,493	
C-3	Maintenance of Traffic	1.0	LS	\$3,000.00	\$3,000	
C-4	Embankment/Excavation	2,200.0	CY	\$8.16	\$17,952	
C-5	Subgrade Stabilization	6,666.7	SY	\$8.00	\$53,333	
C-6	Base Course (6")	6,666.7	SY	\$16.00	\$106,667	
C-7	Bituminous Surface Course (2")	6,666.7	SY	\$17.00	\$113,333	
C-8	Bituminous Prime Coat	6,666.7	SY	\$1.75	\$11,667	
C-9	Pavement Markings	1.0	LS	\$5,000.00	\$5,000	
C-10	Ditch/Shoulder Grading	1.0	LS	\$10,000.00	\$10,000	
C-11	Sodding	3,333.3	SY	\$2.50	\$8,333	
C-12	Allowance for Drainage Improvements	1.0	LS	\$20,000.00	\$20,000	
<i>Approximate Total Construction Cost:</i>						\$388,056
S-1	Surveying & Design Testing	6%			\$23,283.36	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$54,327.84	
S-4	Inspection & Testing	10%			\$38,805.60	
S-5	Airport Administration	1.5%			\$5,820.84	
<i>Approximate Total Services Cost:</i>						\$127,238
Preliminary Estimate of Project Cost						\$515,294
Contingency		20.0%				\$103,059
PRESENT COST:						\$618,352

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A
UPIN:	PFL0001568	Candidate:	
Airport Project ID:		FDOT Description 2:	
WPI No.:	2170132-94-01	FDOT Description 3:	
Sponsor Priority:	2007-2009	National Priority:	
Common Description:	Rehab Runway 7/25 and Signage (S-12,20 & 23)	Project Type:	Pavement Overlay and Markings; Signage

Project Narrative:

This project consists of the surveying and re-pavement of approximately 50,000 SY of Runway 7/25 including the rehabilitation of accompanying signage.

Project Justification:

The project is required in order to rehabilitate and patch areas of cracking and spalling on the pavement and ensure the safety of aircraft using the runway.

Airport Notes:

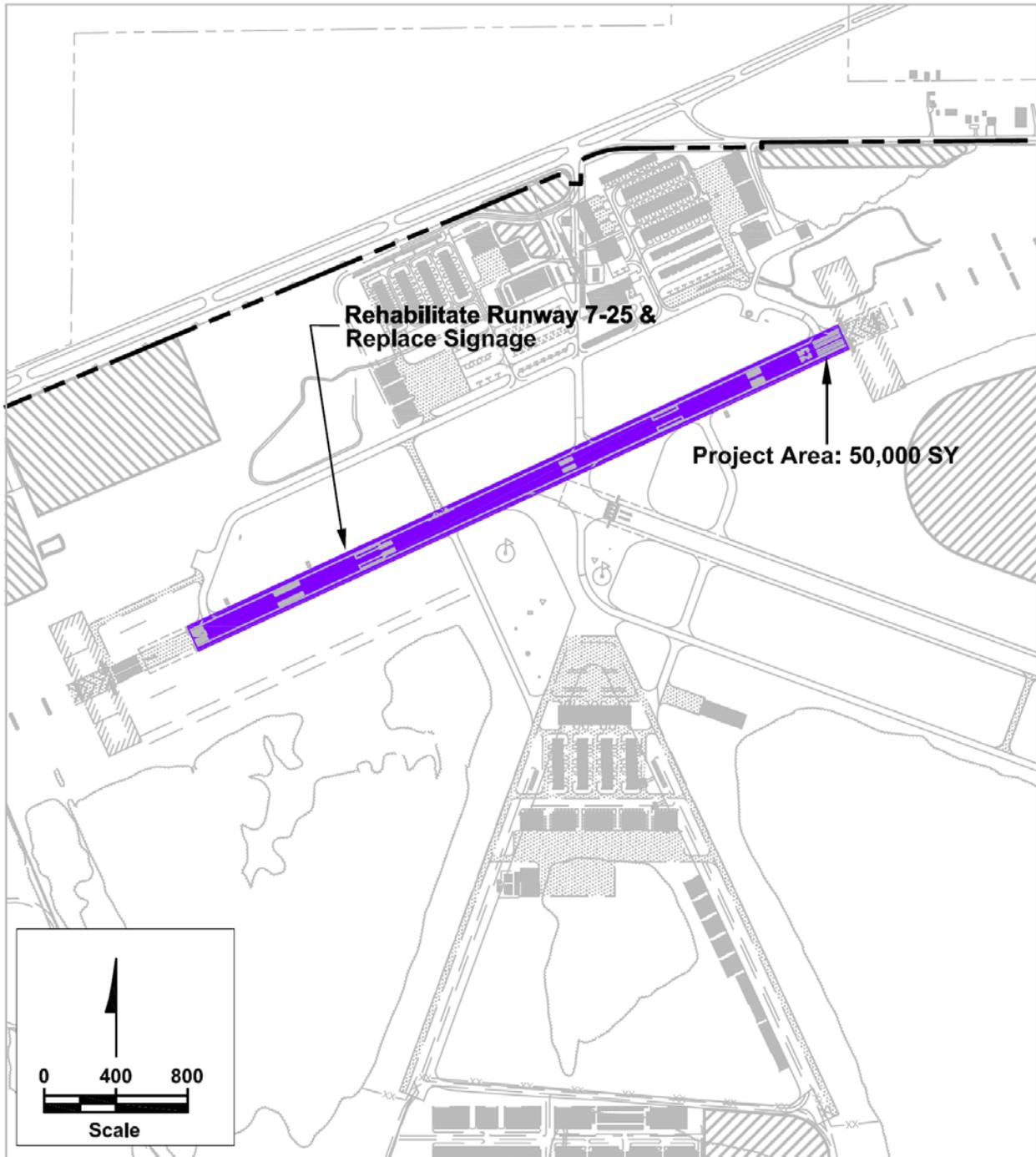
FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2008	Federal Match - Entitlement	\$150,000
2008	FDOT Match - Design	\$25,000
2008	Local Match - Design	\$136,611
Year Total		\$311,611
2009	FAA Match - Discretionary	\$968,850
2009	Local Match - Construction	\$107,650
Year Total		\$1,076,500
2010	FDOT Match - Construction	\$475,000
2010	Local Match - Construction	\$601,500
Year Total		\$1,076,500
Project – Federal		\$1,118,850
Project Total – State		\$500,000
Project Total – Local		\$845,761
Overall Project Total		\$2,464,611

Project Summary

Runway 7/25 was overlaid and remarked in 1980-81 and resealed in 1997. A pavement overlay is typically required every 10 years to maintain safe movement of aircraft and accommodate a changing fleet mix at HEG. Also associated with this project is a signage rehabilitation scheme that includes upgrading existing runway signage with LED lighting. The approximate total project area will encompass 50,000 square yards.



PRELIMINARY ESTIMATE OF PROJECT COSTS

Herlong Airport - Capital Improvement Program

S-12,20 & 23	Runway 7-25 Pavement Overlay and Rehabilitation	Approximate Pavement/Bldg Area:	50,000	SY
CIP Year:	2009-2010			

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$141,641.39	\$141,641	
C-2	Erosion and Sediment Control	1.0	LS	\$14,023.90	\$14,024	
C-3	Maintenance of Traffic	1.0	LS	\$3,000.00	\$3,000	
C-4	Embankment/Excavation	16,500.0	CY	\$8.16	\$134,640	
C-5	Miscellaneous Repairs/Patching	1,800.0	SY	\$50.00	\$90,000	
C-6	Pavement Milling (1/2")	50,000.0	SY	\$1.00	\$50,000	
C-7	Bituminous Surface Course (2")	50,000.0	SY	\$17.00	\$850,000	
C-8	Bituminous Prime Coat	50,000.0	SY	\$1.65	\$82,500	
C-9	Pavement Markings	75,000.0	SF	\$1.53	\$114,750	
C-10	Ditch/Shoulder Grading	1.0	LS	\$10,000.00	\$10,000	
C-11	Sodding	25,000.0	SY	\$2.50	\$62,500	
C-12	Upgrade Signage with LED Lighting	1.0	LS	\$5,000	\$5,000	

Approximate Total Construction Cost: \$1,558,055

S-1	Surveying & Design Testing	6%		\$93,483.32
S-2	Allowance for Permitting Fees			\$5,000.00
S-3	Engineering	14%		\$218,127.74
S-4	Inspection & Testing	10%		\$155,805.53
S-5	Airport Administration	1.5%		\$23,370.83

Approximate Total Services Cost: \$495,787

Preliminary Estimate of Project Cost \$2,053,843

Contingency 20.0% \$410,769

PRESENT COST: \$2,464,611

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:	PFL0001574	Candidate:	
Airport Project ID:	H2008-1 & 2	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2008-2009	National Priority:	
Common Description:	Runway 7 Extension - Design (S-13) Runway 7 Construction including contingency (S- 15)	Project Type:	Runway Design and Construction

Project Narrative:

This project consists of the design and construction of a 500 foot extension to Runway 7 to accommodate changes in fleet mix over the twenty-year planning period.

Project Justification:

The project is required in order to accommodate current and projected general aviation jet aircraft runway length requirements.

Airport Notes:

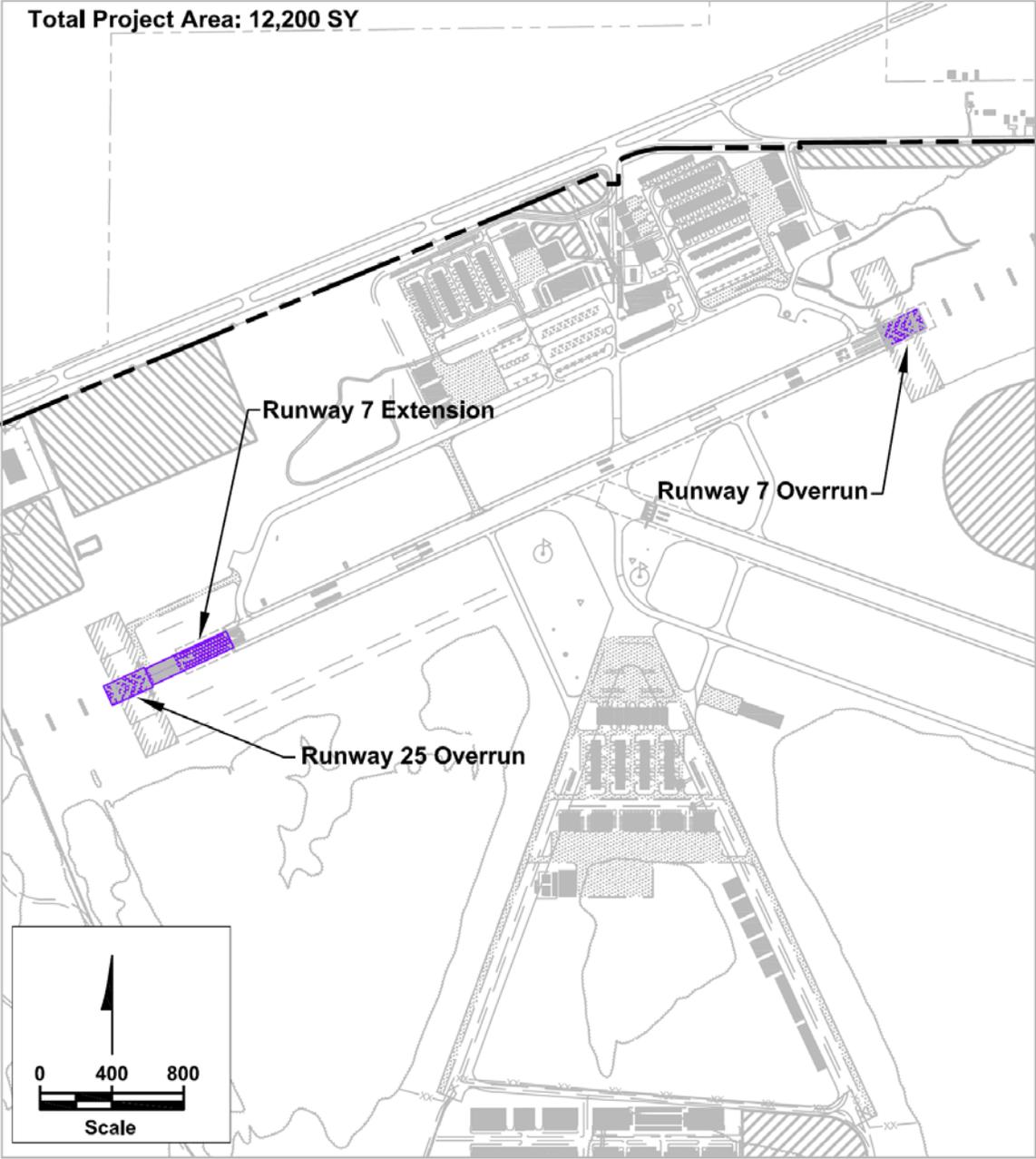
FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
Runway 7 Extension Design		
2008 - Design	FAA Funding - Entitlements	\$56,511
	FAA Funding - Discretionary	\$76,180
	FDOT Funding	\$0.00
	Local Funding	\$14,743
	Total	\$147,434
Runway 7 Extension including Contingency		
2008 - Construction	FAA Match - Entitlements	\$43,489
2008	FAA Match- Discretionary	\$0.00
2008	FDOT Match	\$500,000
2008	Local Match	\$28,604
<u>Year Total</u>		<u>\$572,093</u>
Project Total – Federal		\$176,180
Project Total – State		\$500,000
Project Total – Local		\$43,347
Overall Project Total		\$719,528

Project Summary:

As a result of a changing operational fleet mix that includes more jet activity, an extension to Runway 7 and parallel Taxiway A is necessary. This project also includes the construction of overruns beyond each runway end in an effort to safeguard aircraft from possible runway overruns, especially during wet conditions. The total area associated with this project is approximately 16,000 square yards.



PRELIMINARY ESTIMATE OF PROJECT COSTS
Herlong Airport - Capital Improvement Program

S-13 & 15	Runway 7 Extension	Approximate Pavement/Bldg Area:	5,556	SY
CIP Year:	2008			

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$41,106.56	\$41,107	
C-2	Erosion and Sediment Control	1.0	LS	\$4,069.96	\$4,070	
C-3	Maintenance of Traffic	1.0	LS	\$3,000.00	\$3,000	
C-4	Embankment/Excavation	1,832.0	CY	\$8.16	\$14,949	
C-5	Subgrade Stabilization	5,551.6	SY	\$8.00	\$44,412	
C-6	Base Course (6")	5,551.6	SY	\$16.00	\$88,825	
C-7	Bituminous Surface Course (4")	5,551.6	SY	\$35.00	\$194,304	
C-8	Bituminous Prime Coat	5,551.6	SY	\$1.75	\$9,715	
C-9	Pavement Markings	1.0	LS	\$5,000.00	\$5,000	
C-10	Ditch/Shoulder Grading	1.0	LS	\$10,000.00	\$10,000	
C-11	Lights	4.0	ea	\$650.00	\$2,600	
C-12	Cable	1,500.0	lf	\$1.00	\$1,500	
C-13	Trench and Conduit	1,500.0	lf	\$2.50	\$3,750	
C-14	Signage	2.0	ea	\$3,000.00	\$6,000	
C-15	Regulator and Vault Work	1.0	ls	\$1,000.00	\$1,000	
C-16	Sodding	2,775.8	SY	\$2.50	\$6,939	
C-17	Allowance for Drainage Improvements	1.0	LS	\$15,000.00	\$15,000	
					<i>Approximate Total Construction Cost:</i>	\$452,172
S-1	Surveying & Design Testing	6%			\$27,130.33	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$63,304.11	
S-4	Inspection & Testing	10%			\$45,217.22	
S-5	Airport Administration	1.5%			\$6,782.58	
					<i>Approximate Total Services Cost:</i>	\$147,434
Preliminary Estimate of Project Cost						\$599,606
Contingency		20.0%				\$119,921
PRESENT COST:						\$719,528

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:		Candidate:	
Airport Project ID:		FDOT Description 2:	
WPI No.:	H2009-3	FDOT Description 3:	
Sponsor Priority:	2009	National Priority:	
Common Description:	Extend Access Road, to T-hangars 1,2 & 3 (S-10)	Project Type:	Road Construction

Project Narrative:

This project involves the extension of the access road to T-hangars 1, 2, and 3 and includes associated grading, drainage, parking and marking.

Project Justification:

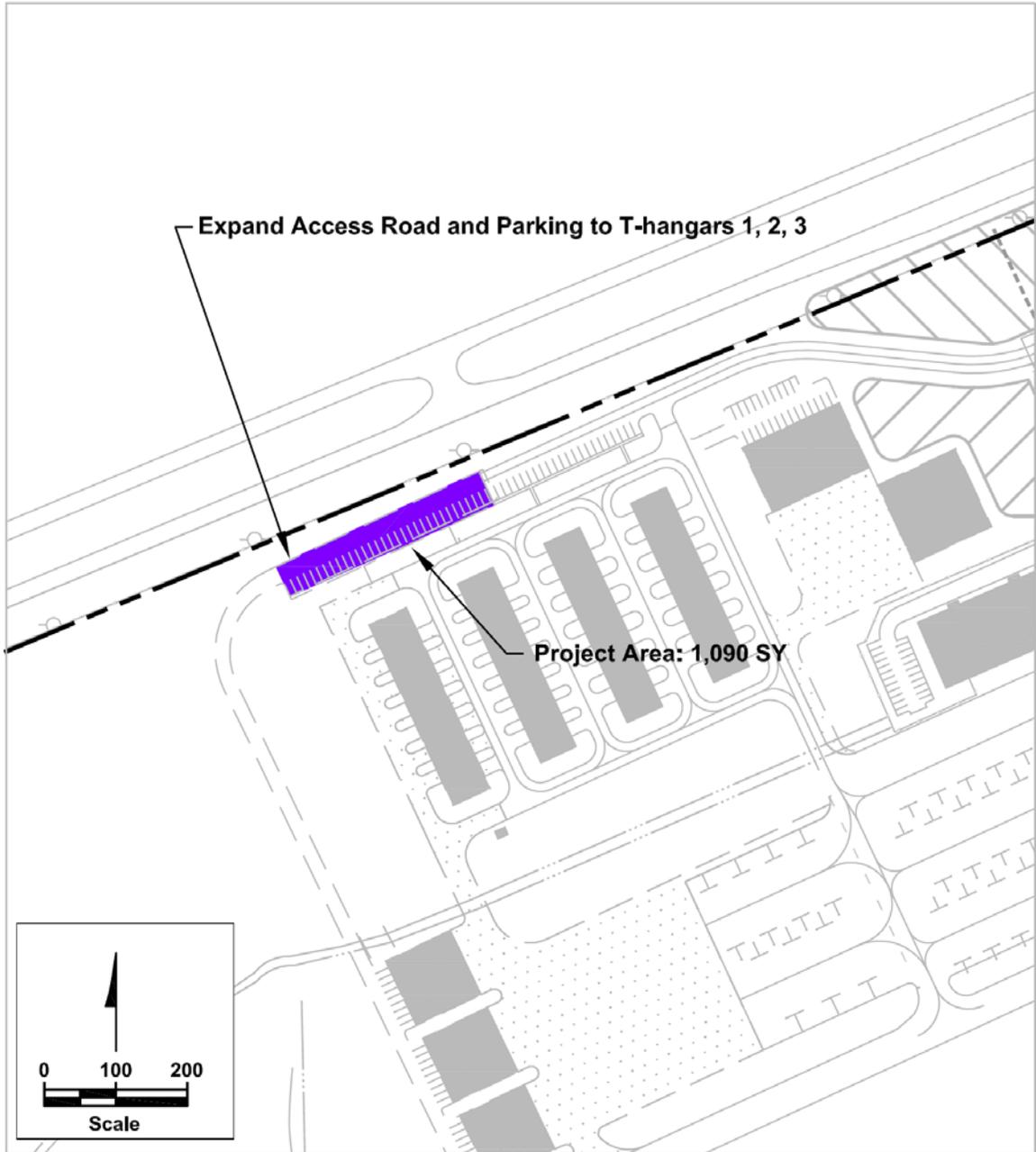
This project is necessary in order to gain access to the expanded portion of the general aviation development area on the west side.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2009	FDOT Funding	\$57,602
2009	JAA Funding	\$57,602
<u>Year Total</u>		<u>\$115,204</u>
Project Total – Federal		\$0.00
Project Total – State		\$57,602
Project Total – Local		\$57,602
Overall Project Total		\$115,204



PRELIMINARY ESTIMATE OF PROJECT COSTS**Herlong Airport - Capital Improvement Program**

S-10 Extend Access Road to T-Hangars 1, 2 & 3
CIP Year: 2009

Approximate Pavement/Bldg Area:

1,090 SY

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1	LS	\$6,643.27	\$6,643.27	
C-2	Erosion and Sediment Control	1	LS	\$784.85	\$784.85	
C-3	Maintenance of Traffic	1	LS	\$2,000.00	\$2,000.00	
C-4	Embankment/Excavation	100	CY	\$8.16	\$816.00	
C-5	Subgrade Stabilization	1090	SY	\$8.00	\$8,720.00	
C-6	Base Course (6")	1090	SY	\$16.00	\$17,440.00	
C-7	Bituminous Surface Course (2")	1090	SY	\$17.00	\$18,530.00	
C-8	Bituminous Prime Coat	1090	SY	\$1.75	\$1,907.50	
C-9	Pavement Markings	1	LS	\$1,000.00	\$1,000.00	
C-10	Ditch/Shoulder Grading	1	LS	\$5,000.00	\$5,000.00	
C-11	Sodding	545	SY	\$2.50	\$1,362.50	
C-12	Allowance for Drainage Improvements	1	LS	\$5,000.00	\$5,000.00	
						Approximate Total Construction Cost: \$69,204.12
S-1	Surveying & Design Testing	6%			\$4,152.25	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$9,688.58	
S-4	Inspection & Testing	10%			\$6,920.41	
S-5	Airport Administration	2%			\$1,038.06	
						Approximate Total Services Cost: \$26,799.30
	Preliminary Estimate of Project Cost					\$96,003.42
	Contingency	20%				<u>\$19,200.68</u>
						PRESENT COST: \$115,204.10

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A
UPIN:	23J280	Candidate:	
Airport Project ID:	H2009-1	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2009	National Priority:	
Common Description:	Open Bay/Maintenance Hangar Construction (S-24)	Project Type:	Construction

Project Narrative:

This project involves the construction of a 120' x 120' Open Bay/Maintenance Hangar on the west side of the North GA development area. Associated lighting and drainage are included in this project.

Project Justification:

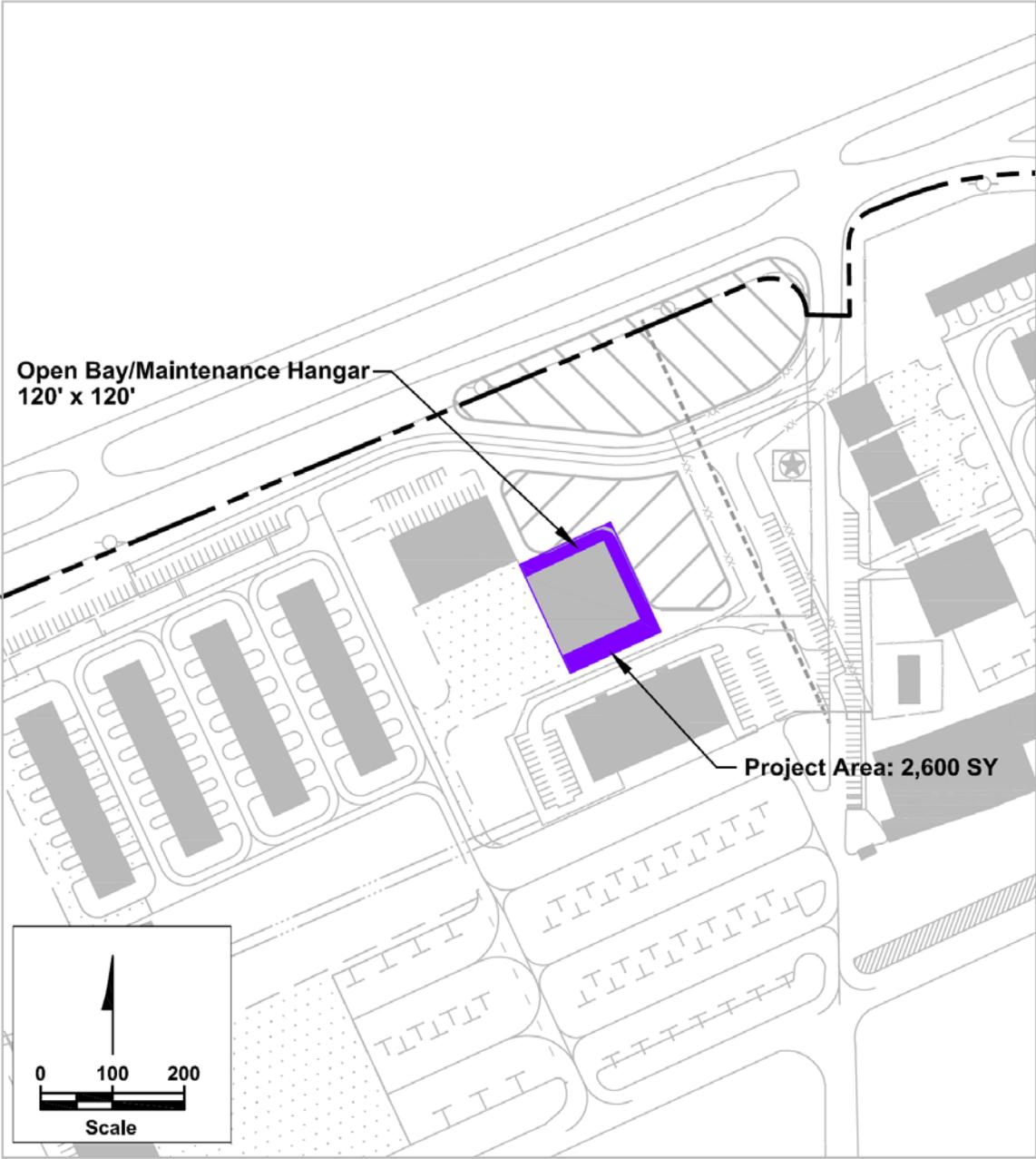
This project has interest from third party investors and is needed to support the maintenance capacities of the airport.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2009	FDOT Funding	\$924,028
2009	Local Funding	\$924,028
<u>Year Total</u>		<u>1,848,057</u>
Project Total – Federal		\$0.00
Project Total – State		\$924,028
Project Total – Local		\$924,028
Overall Project Total		<u>1,848,057</u>



PRELIMINARY ESTIMATE OF PROJECT COSTS
Herlong Airport - Capital Improvement Program

S-24	Open Bay/Maintenance Hangar Construction	Approximate Pavement/Bldg Area:	2,600	SY
CIP Year:	2009			

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1	LS	\$125,802	\$125,802	
C-2	Erosion and Sediment Control	1	LS	\$715	\$715	
C-3	Construct 120' x 120' maintenance Hangar	14400	SF	\$82	\$1,180,800	
C-4	Maintenance of Traffic	1	LS	\$1,000	\$1,000	
C-5	Embankment/Excavation	500	CY	\$7	\$3,500	
C-6	Allowance for Drainage Improvements	1	LS	\$5,000	\$5,000	
C-7	Allowance for Utility/Hydrant Modifications	1	LS	\$30,000	\$30,000	
C-8	Allowance for Area Lighting	1	LS	\$5,000	\$5,000	
C-9	Vehicular Signage	1	LS	\$2,000	\$2,000	
C-10	Allowance for Curb/Gutter Improvements	1	LS	\$5,000	\$5,000	
C-11	Landscaping allowance	1	LS	\$20,000	\$20,000	
C-12	Allowance for Sidewalk Improvements	1	LS	\$5,000	\$5,000	
Approximate Total Construction Cost:						\$1,383,817
S-1	Surveying & Design Testing	6.0%			\$83,029	
S-2	Allowance for Permitting Fees				\$5,000	
S-3	Engineering	14.0%			\$193,734	
S-4	Inspection & Testing	10.0%			\$138,382	
S-5	Airport Administration	1.5%			\$20,757	
Approximate Total Services Cost:						\$440,902
Preliminary Estimate of Project Cost						\$1,824,719
Contingency		20.0%				\$364,944
PRESENT COST:						\$1,848,057

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:		Candidate:	
Airport Project ID:		FDOT Description 2:	
WPI No.:	H2009-6	FDOT Description 3:	
Sponsor Priority:	2009	National Priority:	
Common Description:	T-Hangar Fenceline Extension and Gate Relocation (S-11)	Project Type:	Fenceline Extension & Relocation

Project Narrative:

This project includes the relocation of the access gate and fenceline on the west side of the North GA development area to allow the construction and access of new t-hangar development.

Project Justification:

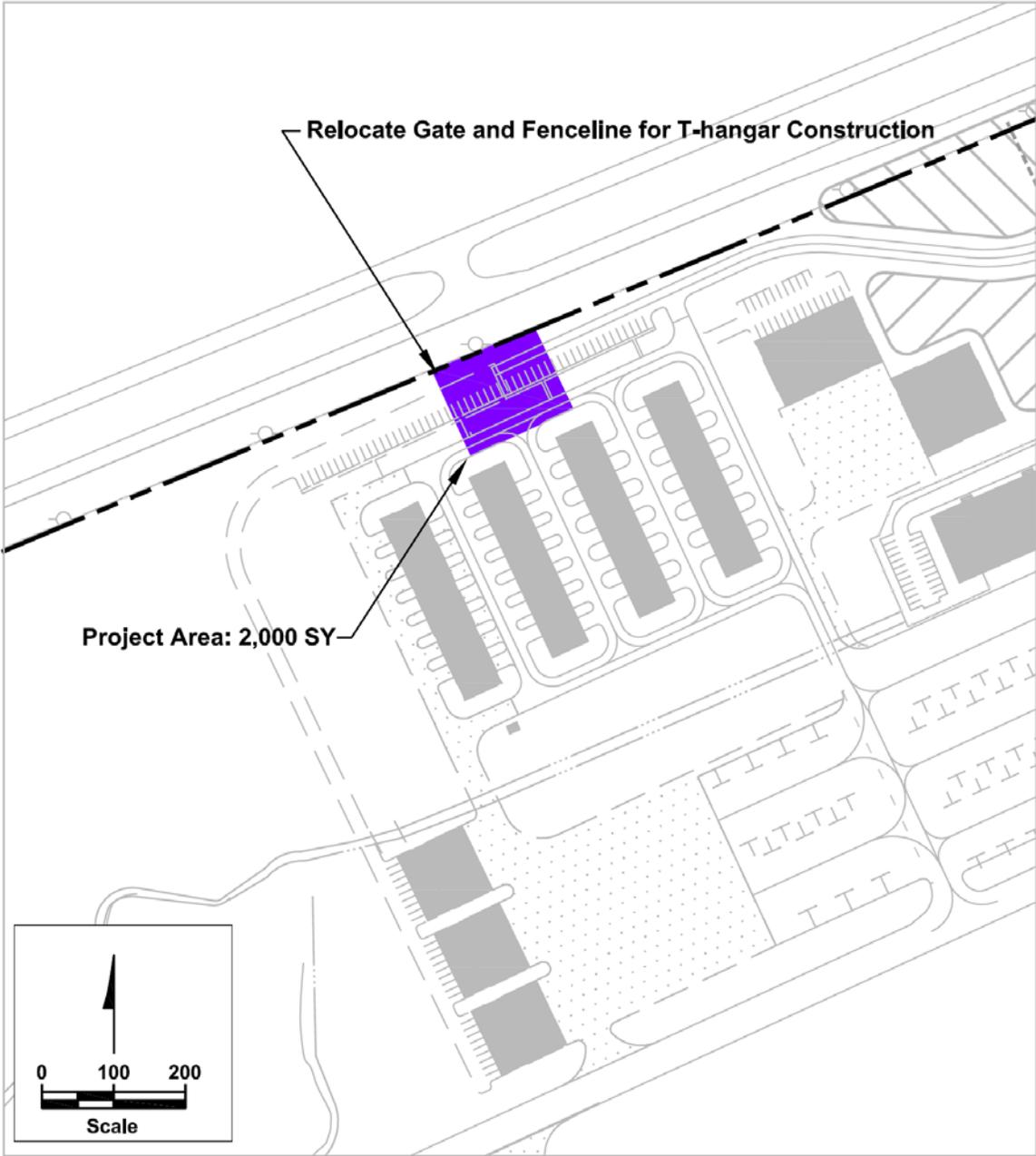
This project is necessary to allow for the construction of t-hangars and to ensure proper enclosure of the secured area of the airfield from unauthorized persons.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2009	Federal Funding - Discretionary	\$83,368
2009	FDOT Funding	\$2,194
2009	JAA Funding	\$2,194
<u>Year Total</u>		<u>\$87,756</u>
Project Total – Federal		\$83,368
Project Total – State		\$2,194
Project Total – Local		\$2,194
Overall Project Total		\$87,756



PRELIMINARY ESTIMATE OF PROJECT COSTS
Herlong Airport - Capital Improvement Program

S-11 T-Hangar Fenceline Extension and Gate Relocation
 CIP Year: 2009

Approximate Pavement/Bldg Area: 800 LF

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1	LS	4,710.00	4,710.00	
C-3	Clearing and Grubbing	0.5	AC	3,000.00	1,500.00	
C-4	Maintenance of Traffic	1	LS	1,000.00	1,000.00	
C-5	Chain Link Fence (8')	800	LF	12.00	9,600.00	
C-6	Gate Improvements	1	EA	10,000.00	10,000.00	
C-7	Allowance for Utility/Hydrant Modifications	1	LS	15,000.00	15,000.00	
C-8	Landscaping allowance	1	LS	10,000.00	10,000.00	
					Approximate Total Construction Costs	\$51,810.00
S-1	Surveying & Design Testing	6%			\$3,108.60	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$7,253.40	
S-4	Inspection & Testing	10%			\$5,181.00	
S-5	Airport Administration	1.5%			\$777.15	
					Approximate Total Services Cost:	\$21,320.15
Preliminary Estimate of Project Cost						\$73,130.15
Contingency					20%	\$14,626.03
					PRESENT COST:	\$87,756.18

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:		Candidate:	
Airport Project ID:	H2009-6	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2009	National Priority:	
Common Description:	Runway 7 PAPI Relocation (S-28)	Project Type:	NAVAID Relocation

Project Narrative:

This project consists of the relocation of Runway 7 PAPIs to align with the Runway 7 Extension.

Project Justification:

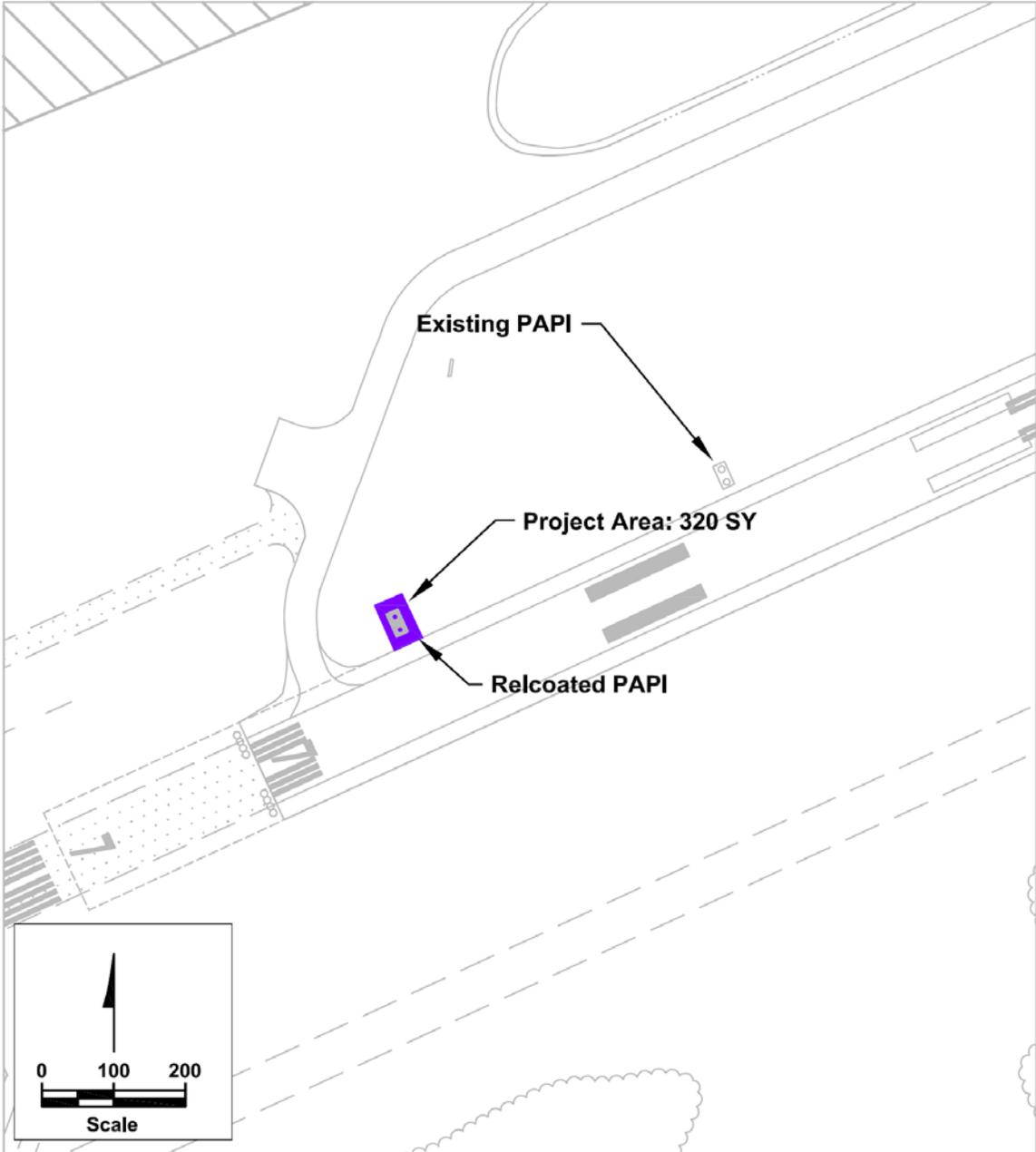
The project is required in order maintain visual glideslope indication on Runway 7.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2009	FDOT Match	\$0.00
2009	Local Match	\$32,211
<u>Year Total</u>		<u>\$32,211</u>
Project Total – Federal		\$0.00
Project Total – State		\$0.00
Project Total – Local		\$32,211
Overall Project Total		<u>\$32,211</u>



PRELIMINARY ESTIMATE OF PROJECT COSTS
Herlong Airport - Capital Improvement Program

S-28 Runway 7 PAPI Relocation Approximate Pavement/Bldg Area: 1 LS
 CIP Year: 2009

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$1,510.00	\$1,510	
C-2	Erosion and Sediment Control	1.0	LS	\$100.00	\$100	
C-3	Maintenance of Traffic	1.0	LS	\$5,000.00	\$5,000	
C-4	Relocate PAPI	2.0	ea	\$5,000.00	\$10,000	
<i>Approximate Total Construction Cost:</i>						\$16,610
S-1	Surveying & Design Testing	6%			\$996.60	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$2,325.40	
S-4	Inspection & Testing	10%			\$1,661.00	
S-5	Airport Administration	1.5%			\$249.15	
<i>Approximate Total Services Cost:</i>						\$10,232
Preliminary Estimate of Project Cost						\$26,842
Contingency		20.0%				\$5,368
PRESENT COST:						\$32,211

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A
UPIN:	23J276	Candidate:	
Airport Project ID:	H2009-7	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2013	National Priority:	
Common Description:	Install REILs on Runway 7 (S-29)	Project Type:	NAVAID Installation

Project Narrative:

This project involves the installation of Runway End Identifier Lights (REILs) at the approach end of Runway 7. This project is temporary until the MALSR is installed on Runway 7 in the long-term future.

Project Justification:

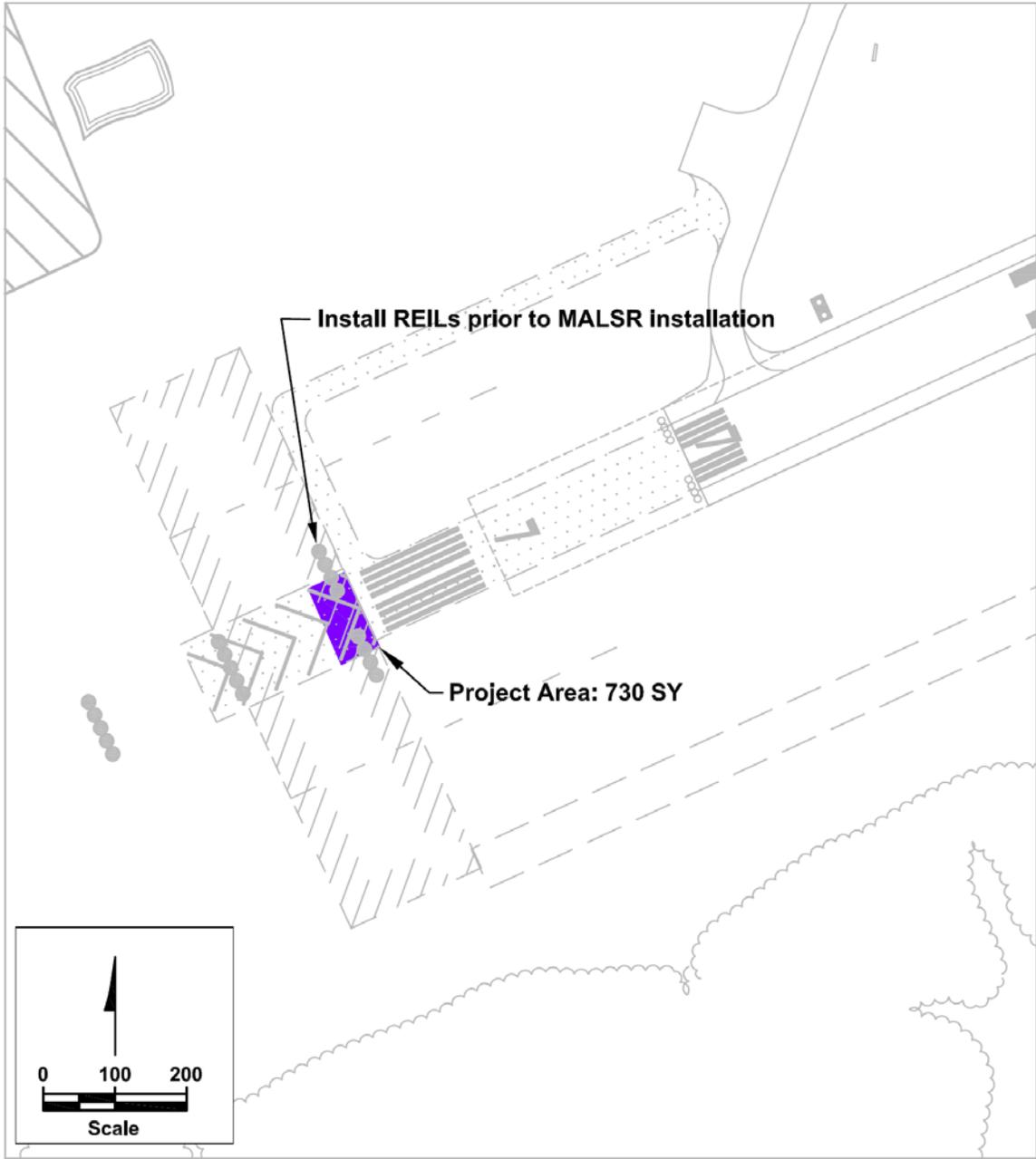
This project is necessary to support runway visual confirmation during reduced visibility.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2009	FAA Funding - Entitlements	\$0.00
2009	Local Match	\$89,604
<u>Year Total</u>		\$89,604
Project Total – Federal		\$0.00
Project Total – State		\$0.00
Project Total – Local		\$89,604
Overall Project Total		\$89,604



PRELIMINARY ESTIMATE OF PROJECT COSTS
Herlong Airport - Capital Improvement Program

S-29 Design and Install REILs on Runway 7 Approximate Pavement/Bldg Area: 1 LS
 CIP Year: 2009

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$5,045.00	\$5,045	
C-2	Erosion and Sediment Control	1.0	LS	\$450.00	\$450	
C-3	Maintenance of Traffic	1.0	LS	\$5,000.00	\$5,000	
C-4	Install REILs	1.0	ea	\$45,000.00	\$45,000	
<i>Approximate Total Construction Cost:</i>						\$55,495
S-1	Surveying & Design Testing	6%			\$2,700.00	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$6,300.00	
S-4	Inspection & Testing	10%			\$4,500.00	
S-5	Airport Administration	1.5%			\$675.00	
<i>Approximate Total Services Cost:</i>						\$19,175
Preliminary Estimate of Project Cost						\$74,670
Contingency		20.0%				\$14,934
PRESENT COST:						\$89,604

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:		Candidate:	
Airport Project ID:	H2009-4	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2009	National Priority:	
Common Description:	Taxiway A Extension, including Lighting and Markings (S-27)	Project Type:	Construction

Project Narrative:

This project involves the extension of Taxiway A to the extended end of Runway 7. The extension includes marking and associated taxiway edge lighting. The project area is approximately 12,000 SY.

Project Justification:

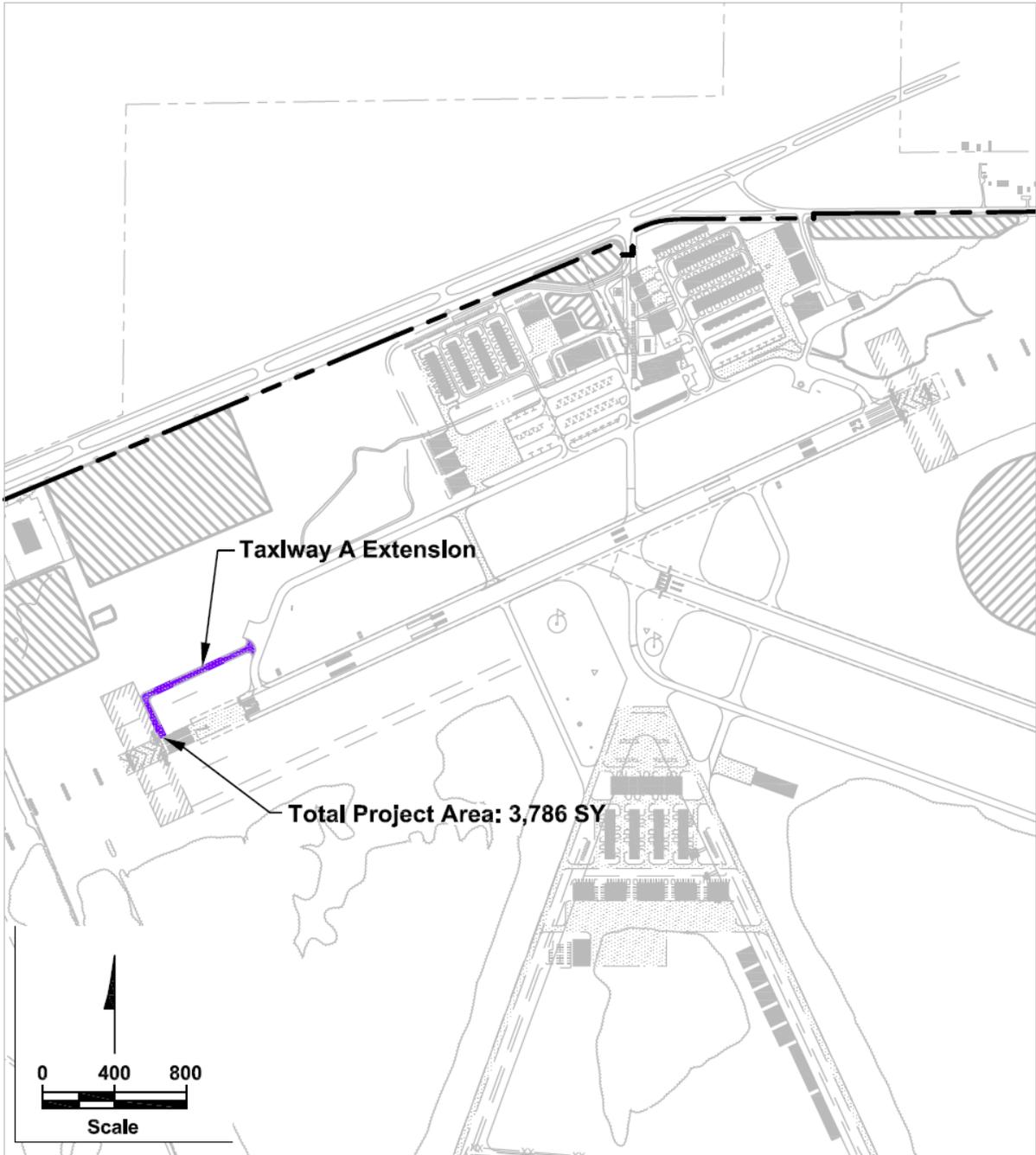
This project is necessary to access the extended portion of Runway 7.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2009	FAA Funding - Entitlement	\$150,000
2009	FDOT Funding	\$0.00
2009	Local Match	\$385,395
<u>Year Total</u>		\$535,395
Project Total – Federal		\$150,000
Project Total – State		\$0.00
Project Total – Local		\$385,395
Overall Project Total		\$535,395



PRELIMINARY ESTIMATE OF PROJECT COSTS
Herlong Airport - Capital Improvement Program

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
S-28	Taxiway Extension, including Lighting and Markings			Approximate Pavement/Bldg Area:	3,786	SY
CIP Year:	2009					
C-1	Mobilization	1.0	LS	\$30,498.65	\$30,499	
C-2	Erosion and Sediment Control	1.0	LS	\$2,779.20	\$2,779	
C-3	Maintenance of Traffic	1.0	LS	\$3,000.00	\$3,000	
C-4	Embankment/Excavation	1,249.3	CY	\$8.16	\$10,195	
C-5	Subgrade Stabilization	3,785.9	SY	\$8.00	\$30,287	
C-6	Base Course (6")	3,785.9	SY	\$16.00	\$60,574	
C-7	Bituminous Surface Course (4")	3,785.9	SY	\$35.00	\$132,506	
C-8	Bituminous Prime Coat	3,785.9	SY	\$1.75	\$6,625	
C-9	Pavement Markings	1.0	LS	\$5,000.00	\$5,000	
C-10	Ditch/Shoulder Grading	1.0	LS	\$10,000.00	\$10,000	
C-11	Sodding	1,892.9	SY	\$2.50	\$4,732	
C-12	Allowance for Drainage Improvements	1.0	LS	\$15,000.00	\$15,000	
C-13	Lights	16.0	EA	\$450.00	\$7,200	
C-14	Cable	2,025.0	LF	\$1.00	\$2,025	
C-15	Trench and Conduit	2,025.0	LF	\$2.50	\$5,063	
C-16	Signage	3.0	EA	\$3,000.00	\$9,000	
C-17	Regulator and Vault Work	1.0	LS	\$1,000.00	\$1,000	
					<i>Approximate Total Construction Cost:</i>	\$335,485
S-1	Surveying & Design Testing	6%			\$20,129.11	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$46,967.91	
S-4	Inspection & Testing	10%			\$33,548.51	
S-5	Airport Administration	1.5%			\$5,032.28	
					<i>Approximate Total Services Cost:</i>	\$110,678
Preliminary Estimate of Project Cost						\$446,163
Contingency		20.0%				\$89,233
PRESENT COST:						\$535,395

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:	PFL0000091	Candidate:	
Airport Project ID:	H2009-03	FDOT Description 2:	
WPI No.:	4099692-94-01	FDOT Description 3:	
Sponsor Priority:	2009	National Priority:	
Common Description:	Construct 14-Unit T- Hangar & Construct/Relocate Electrical Vault (S-25)	Project Type:	Construction

Project Narrative:

This project consists of the design, permitting, and construction of one (1) 14-unit T-hangar including approximately 328 SY of associated taxilanes and relocation/construction of new electrical vault. Associated grading, paving, signage, and lighting are anticipated to be included in this development.

Project Justification:

The project is required in order to accommodate current and projected general aviation aircraft hangar storage demand. Herlong has a waiting list for T-Hangars.

Airport Notes: Identified in existing JACIP and FDOT Work Program

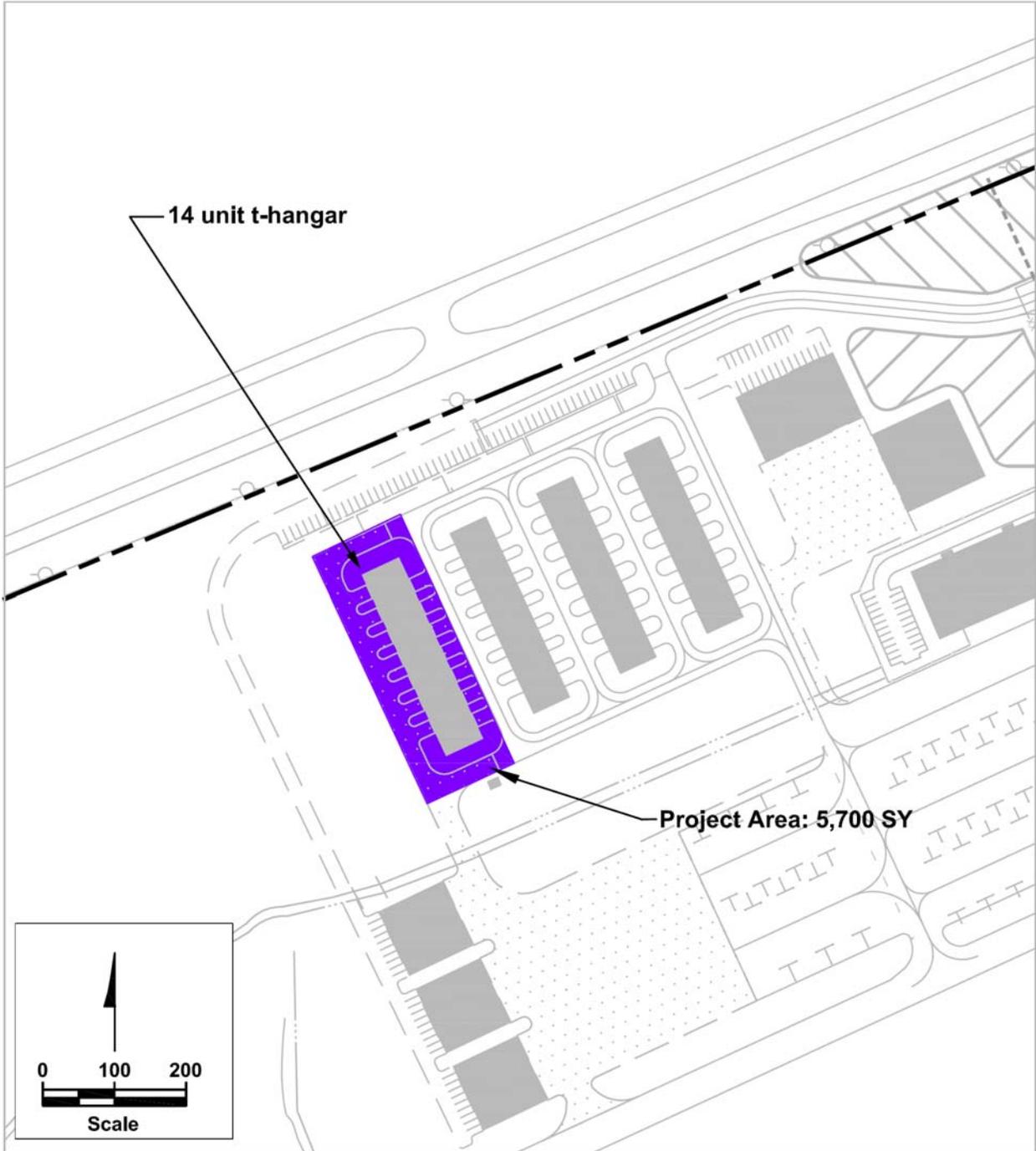
FDOT Notes: Currently \$500,000 in state funding is programmed for FY 2009.

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2009	FAA	\$0.00
2009	FDOT	\$500,000
2009	Local Match	\$1,032,302
<u>Year Total</u>		\$1,532,302
Project Total - Federal		\$0.00
Project Total – State		\$500,000
Project Total – Local		\$1,032,302
Overall Project Total		\$1,532,302

Project Summary:

This project includes the construction of a 14-unit t-hangar facility and associated taxilanes. This project is necessary to accommodate future aircraft storage demand.



PRELIMINARY ESTIMATE OF PROJECT COSTS

Herlong Airport - Capital Improvement Program

S-25	Construct 14-unit T-hangar - NW Airfield	Approximate Pavement/Bldg Area:	14	Units
CIP Year: 2009				

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$68,905.50	\$68,906	
C-2	Erosion and Sediment Control	1.0	LS	\$555.00	\$555	
C-3	Construct 14-Unit T-Hangar	14.0	ea	\$45,000.00	\$630,000	
C-4	Maintenance of Traffic	1.0	LS	\$1,000.00	\$1,000	
C-5	Embankment/Excavation	500.0	CY	\$7.00	\$3,500	
C-6	Allowance for Drainage Improvements	1.0	LS	\$5,000.00	\$5,000	
C-7	Allowance for Utility/Hydrant Modifications	1.0	LS	\$25,000.00	\$25,000	
C-8	Allowance for Area Lighting	1.0	LS	\$5,000.00	\$5,000	
C-9	Vehicular Signage	1.0	LS	\$1,000.00	\$1,000	
C-10	Allowance for Curb/Gutter Improvements	1.0	LS	\$0.00	\$0	
C-11	Landscaping allowance	1.0	LS	\$15,000.00	\$15,000	
C-12	Allowance for Sidewalk Improvements	1.0	LS	\$3,000.00	\$3,000	

Approximate Total Construction Cost: \$757,961

S-1	Surveying & Design Testing	6%			\$45,477.63	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$106,114.47	
S-4	Inspection & Testing	10%			\$75,796.05	
S-5	Airport Administration	1.5%			\$11,369.41	

Approximate Total Services Cost: \$243,758

Preliminary Estimate of Project Cost \$1,001,718

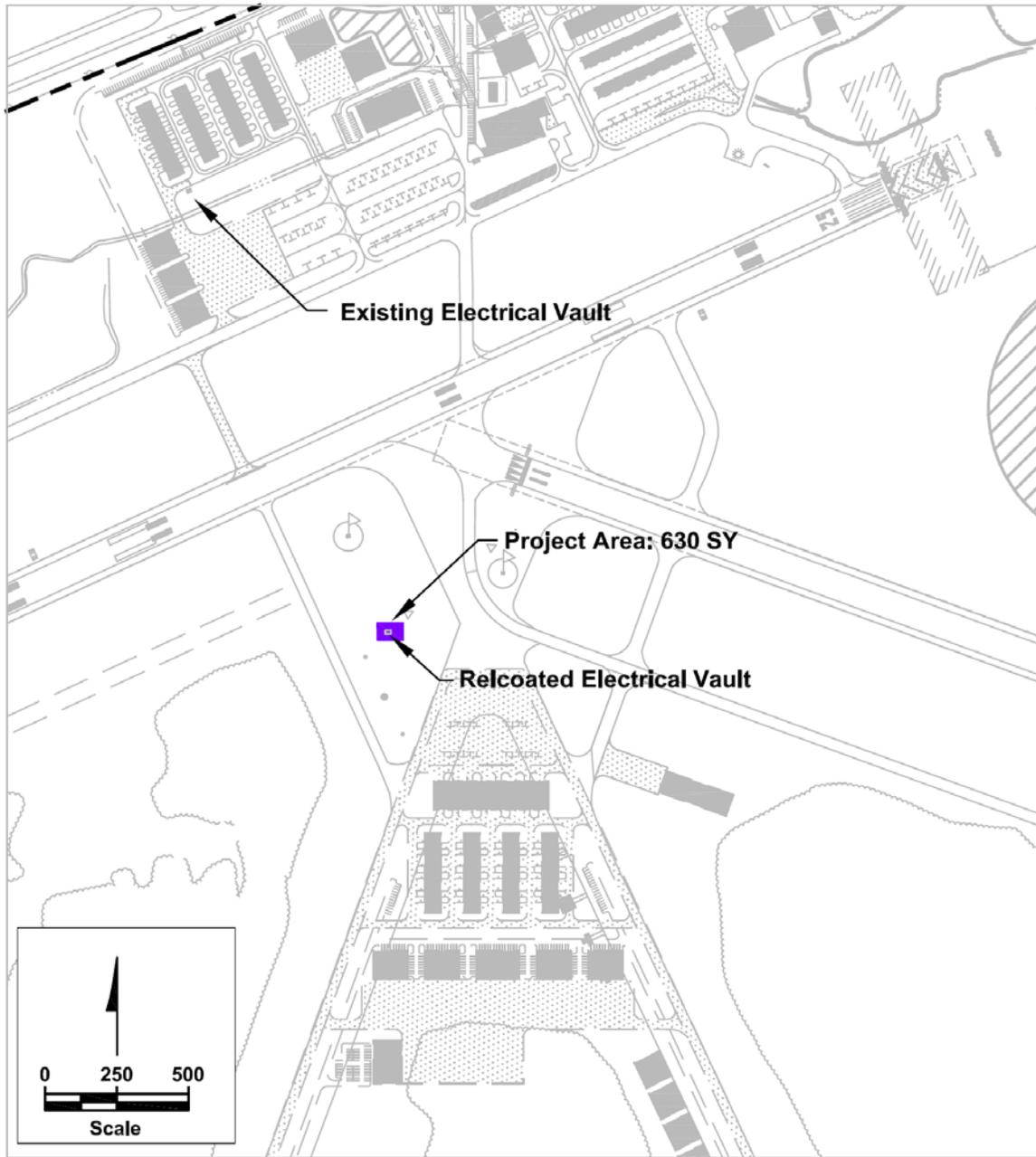
Contingency 20.0% \$200,344

PRESENT COST: \$1,202,062

Source: The LPA Group, Inc. 2006

Project Summary:

Relocation of the electrical vault is required to accommodate hangar and airfield development.



PRELIMINARY ESTIMATE OF PROJECT COSTS
Herlong Airport - Capital Improvement Program

S-25 Relocate Electrical Vault Approximate Pavement/Bldg Area: 1 LS
 CIP Year: 2009

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$11,150.00	\$11,150	
C-2	Existing Demolition	2.0	LS	\$16,100.00	\$32,200	
C-2	Erosion and Sediment Control	1.0	LS	\$500.00	\$500	
C-3	Maintenance of Traffic	1.0	LS	\$25,000.00	\$25,000	
C-4	Pre-Cast Vault Building	600.0	SF	\$60.00	\$36,000	
C-10	Regulator and Vault Work	1.0	LS	\$50,000.00	\$50,000	
C-10	Transformers and Power Pedestal(s)	1.0	LS	\$50,000.00	\$50,000	
C-12	Sodding	250.0	SY	\$2.50	\$625	
<i>Approximate Total Construction Cost:</i>						\$205,475
S-1	Surveying & Design Testing	6%			\$12,328.50	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$28,766.50	
S-4	Inspection & Testing	10%			\$20,547.50	
S-5	Airport Administration	1.5%			\$3,082.13	
<i>Approximate Total Services Cost:</i>						\$69,725
Preliminary Estimate of Project Cost						\$275,200
Contingency		20.0%				\$55,040
PRESENT COST:						\$330,240

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:		Candidate:	
Airport Project ID:	H2009-1	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2009	National Priority:	
Common Description:	Construct 3,700 SY Apron & Taxilane adjacent to maintenance hangar (S-22)	Project Type:	Construction

Project Narrative:

This project includes the construction of a 3,700 SY corporate apron on the west side of the North GA development area, adjacent to the open bay/maintenance hangar and the 100' x 150' corporate hangar. Associated grading, drainage, lighting, and markings are included.

Project Justification:

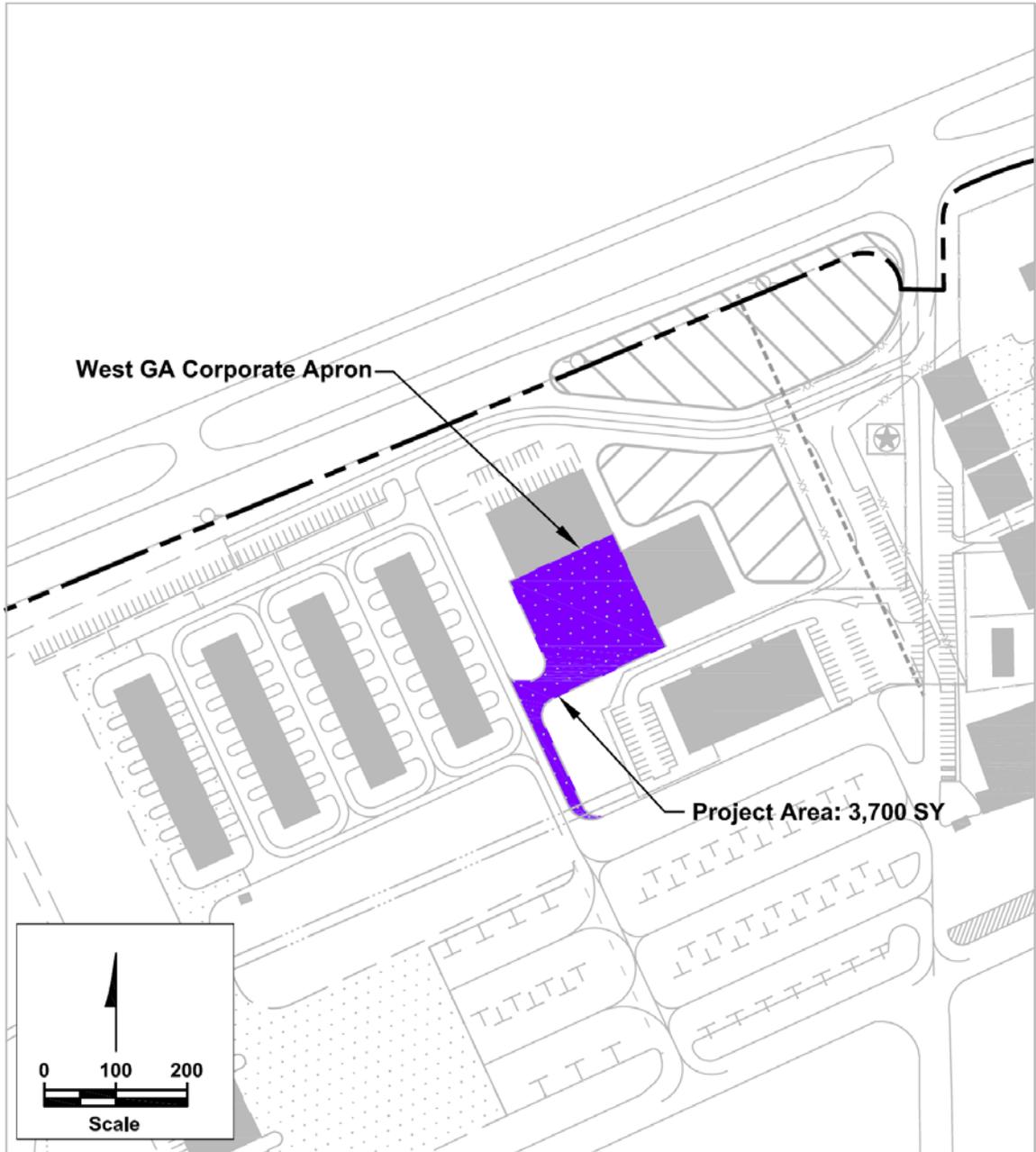
This project is necessary to accommodate an expected increase in the level of jet activity at the airport.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2009	FDOT Match	\$0.00
2009	Local Match	\$467,718
<u>Year Total</u>		\$467,718
Project Total – Federal		\$0.00
Project Total – State		\$0.00
Project Total – Local		\$467,718
Overall Project Total		\$467,718



PRELIMINARY ESTIMATE OF PROJECT COSTS
Herlong Airport - Capital Improvement Program

S-22 West GA Apron and taxilane Approximate Pavement/Bldg Area: 3,700 SY
 CIP Year: 2009

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$26,599.70	\$26,600	
C-2	Erosion and Sediment Control	1.0	LS	\$2,633.63	\$2,634	
C-3	Maintenance of Traffic	1.0	LS	\$3,000.00	\$3,000	
C-4	Embankment/Excavation	1,221.0	CY	\$8.16	\$9,963	
C-5	Subgrade Stabilization	3,700.0	SY	\$8.00	\$29,600	
C-6	Base Course (6")	3,700.0	SY	\$16.00	\$59,200	
C-7	Bituminous Surface Course (4")	3,700.0	SY	\$35.00	\$129,500	
C-8	Bituminous Prime Coat	3,700.0	SY	\$1.75	\$6,475	
C-9	Pavement Markings	1.0	LS	\$1,000.00	\$1,000	
C-10	Ditch/Shoulder Grading	1.0	LS	\$5,000.00	\$5,000	
C-11	Sodding	1,850.0	SY	\$2.50	\$4,625	
C-12	Allowance for Drainage Improvements	1.0	LS	\$15,000.00	\$15,000	
<i>Approximate Total Construction Cost:</i>						\$292,597
S-1	Surveying & Design Testing	6%			\$17,555.80	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$40,963.54	
S-4	Inspection & Testing	10%			\$29,259.67	
S-5	Airport Administration	1.5%			\$4,388.95	
<i>Approximate Total Services Cost:</i>						\$97,168
Preliminary Estimate of Project Cost						\$389,765
Contingency		20.0%				\$77,953
PRESENT COST:						\$467,718

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:		Candidate:	
Airport Project ID:	H2010-6	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2010	National Priority:	
Common Description:	Construct 1,069 SY Automobile Parking (S-35)	Project Type:	Automobile Parking

Project Narrative:

This project consists of the design and construction of approximately 1,070 SY of automobile parking adjacent to the 100 ft x 150 ft corporate hangar on the west side of the North GA development area.

Project Justification:

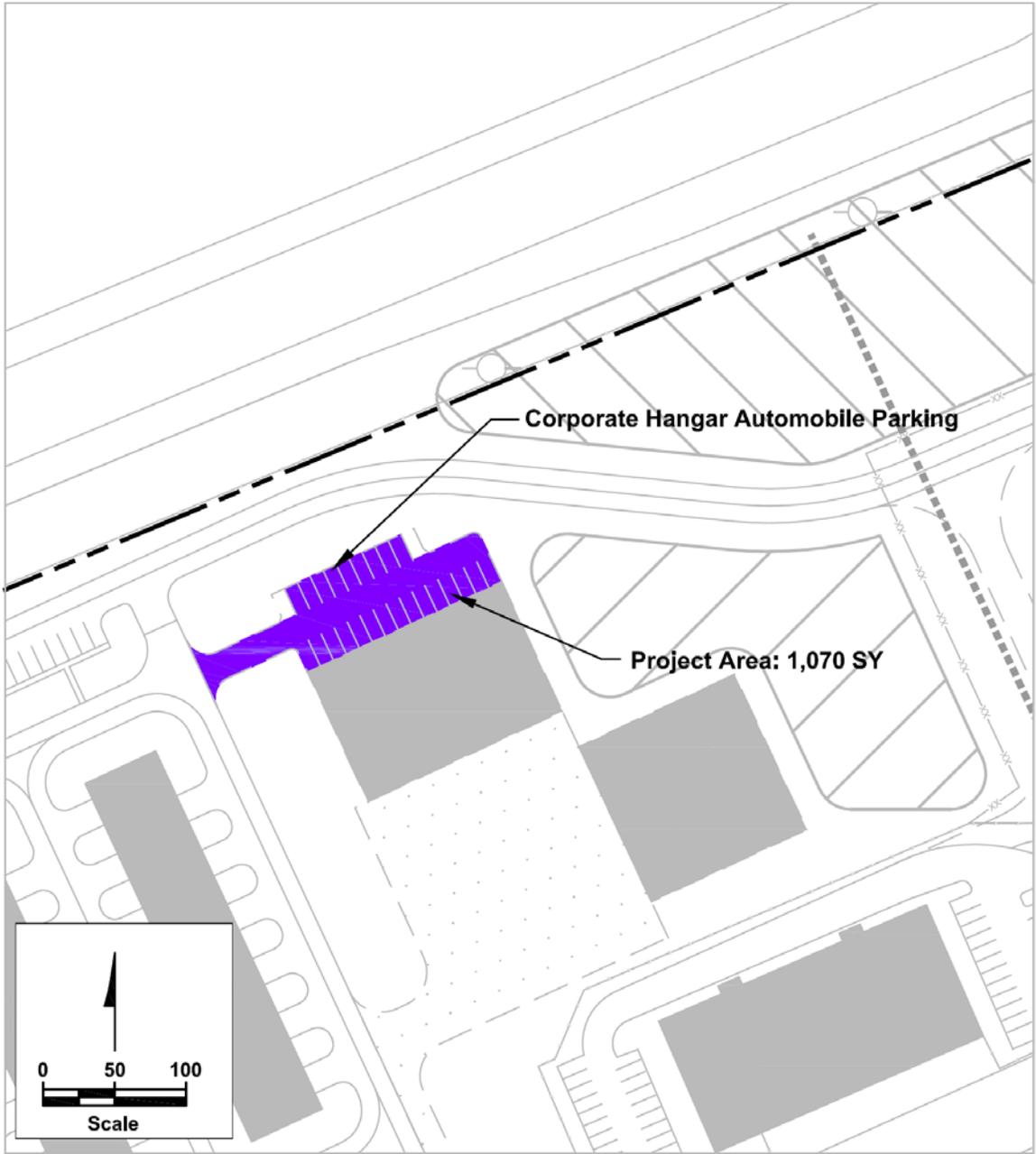
The project is required in order to accommodate vehicular parking demand adjacent to the proposed hangar facilities in the North GA development area.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2010	Federal Funding	\$0.00
2010	FDOT Funding	\$67,352
2010	Local Match	\$67,352
<u>Year Total</u>		\$134,704
Project Total – Federal		\$0.00
Project Total – State		\$67,352
Project Total – Local		\$67,352
Overall Project Total		\$134,704



PRELIMINARY ESTIMATE OF PROJECT COSTS

Herlong Airport - Capital Improvement Program

S-35 Construct 1,070 SY Automobile Parking Area Approximate Pavement/Bldg Area: 1,070 SY
 CIP Year: 2010

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$4,929.52	\$4,930	
C-2	Erosion and Sediment Control	1.0	LS	\$758.73	\$759	
C-3	Maintenance of Traffic	1.0	LS	\$2,000.00	\$2,000	
C-4	Embankment/Excavation	100.0	CY	\$8.16	\$816	
C-5	Subgrade Stabilization	1,070	SY	\$8.00	\$8,556	
C-6	Base Course (6")	1,070	SY	\$16.00	\$17,112	
C-7	Bituminous Surface Course (2")	1,070	SY	\$17.00	\$18,181	
C-8	Bituminous Prime Coat	1,070	SY	\$1.75	\$1,872	
C-9	Pavement Markings	1.0	LS	\$1,000.00	\$1,000	
C-10	Ditch/Shoulder Grading	1.0	LS	\$5,000.00	\$5,000	
C-11	Sodding	534.7	SY	\$2.50	\$1,337	
C-12	Allowance for Drainage Improvements	1.0	LS	\$20,000.00	\$20,000	
<i>Approximate Total Construction Cost:</i>						\$81,562
S-1	Surveying & Design Testing	6%			\$4,893.70	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$11,418.62	
S-4	Inspection & Testing	10%			\$8,156.16	
S-5	Airport Administration	1.5%			\$1,223.42	
<i>Approximate Total Services Cost:</i>						\$30,692
Preliminary Estimate of Project Cost						\$112,253
Contingency		20.0%				\$22,451
PRESENT COST:						\$134,704

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:	PFL0002304	Candidate:	
Airport Project ID:	H2010-1	FDOT Description 2:	
WPI No.:	2170133-94-01	FDOT Description 3:	
Sponsor Priority:	2010	National Priority:	
Common Description:	Runway 11/29 Rehabilitation (S-32)	Project Type:	Pavement Overlay and Markings

Project Narrative:

This project consists of the surveying and re-pavement of approximately 44,000 SY of Runway 11/29.

Project Justification:

The project is required in order to rehabilitate and patch areas of cracking and spalling on the pavement and ensure the safety of aircraft using the runway.

Airport Notes: FAA may participate in rehabilitation of Runway 11/29 even though Runway 7/25 provides greater than 96% wind coverage.

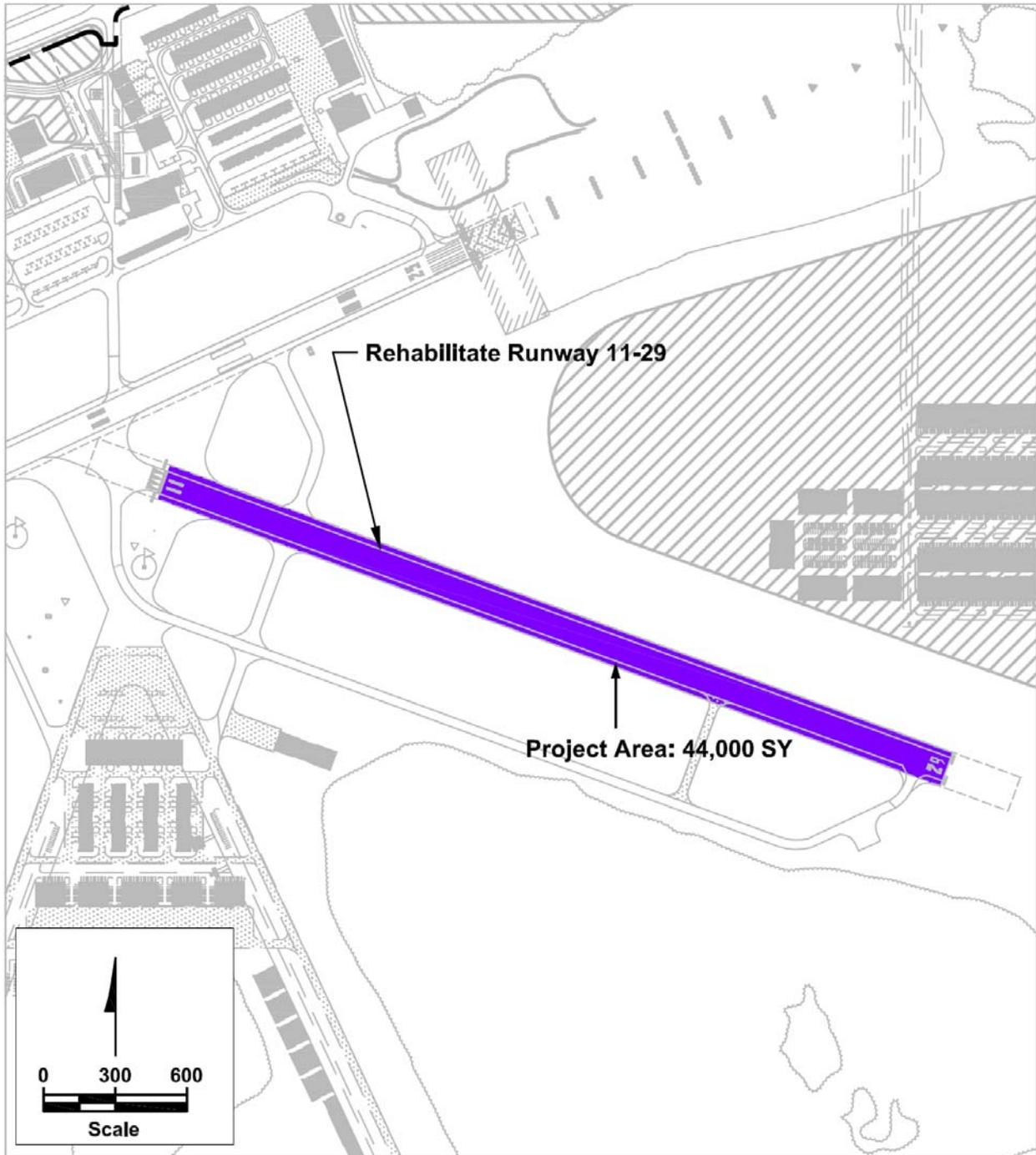
FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2010	FAA Entitlement*	\$150,00
2010	FDOT Match	\$500,000
2010	Local Match	\$1,565,388
<u>Year Total</u>		<u>\$2,215,388</u>
Project Total – Federal		\$150,00
Project Total – State		\$500,000
Project Total – Local		\$1,565,388
Overall Project Total		\$2,215,388

Project Summary

Runway 11/29 was overlaid and remarked in 1980-81 and resealed in 1997. A pavement overlay is typically required every 10 years to maintain safe movement of aircraft and accommodate a changing fleet mix at HEG. The approximate total project area will encompass 44,000 square yards.



PRELIMINARY ESTIMATE OF PROJECT COSTS
Herlong Airport - Capital Improvement Program

S-32	Runway 11-29 Pavement Overlay and Markings	Approximate Pavement/Bldg Area:	44,000	SY
CIP Year: 2010				

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$127,283.55	\$127,284	
C-2	Erosion and Sediment Control	1.0	LS	\$12,602.33	\$12,602	
C-3	Maintenance of Traffic	1.0	LS	\$3,000.00	\$3,000	
C-4	Embankment/Excavation	14,520.0	CY	\$8.16	\$118,483	
C-5	Miscellaneous Repairs/Patching	1,800.0	SY	\$50.00	\$90,000	
C-6	Pavement Milling (1/2")	44,000.0	SY	\$1.00	\$44,000	
C-7	Bituminous Surface Course (2")	44,000.0	SY	\$17.00	\$748,000	
C-8	Bituminous Prime Coat	44,000.0	SY	\$1.75	\$77,000	
C-9	Pavement Markings	75,000.0	SF	\$1.53	\$114,750	
C-10	Ditch/Shoulder Grading	1.0	LS	\$10,000.00	\$10,000	
C-11	Sodding	22,000.0	SY	\$2.50	\$55,000	

Approximate Total Construction Cost: \$1,400,119

S-1	Surveying & Design Testing	6%			\$84,007.15	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$196,016.67	
S-4	Inspection & Testing	10%			\$140,011.91	
S-5	Airport Administration	1.5%			\$21,001.79	

Approximate Total Services Cost: \$446,038

Preliminary Estimate of Project Cost \$1,846,157

Contingency 20.0% \$369,231

PRESENT COST: \$2,215,388

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:		Candidate:	
Airport Project ID:	H2010-3	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2010	National Priority:	
Common Description:	Runway and Taxiway Signage Improvements (S-34)	Project Type:	Airfield Signage

Project Narrative:

This project consists of upgrading the airfield signage system in and around Runway 7-25 and Taxiway A to include LED lighting.

Project Justification:

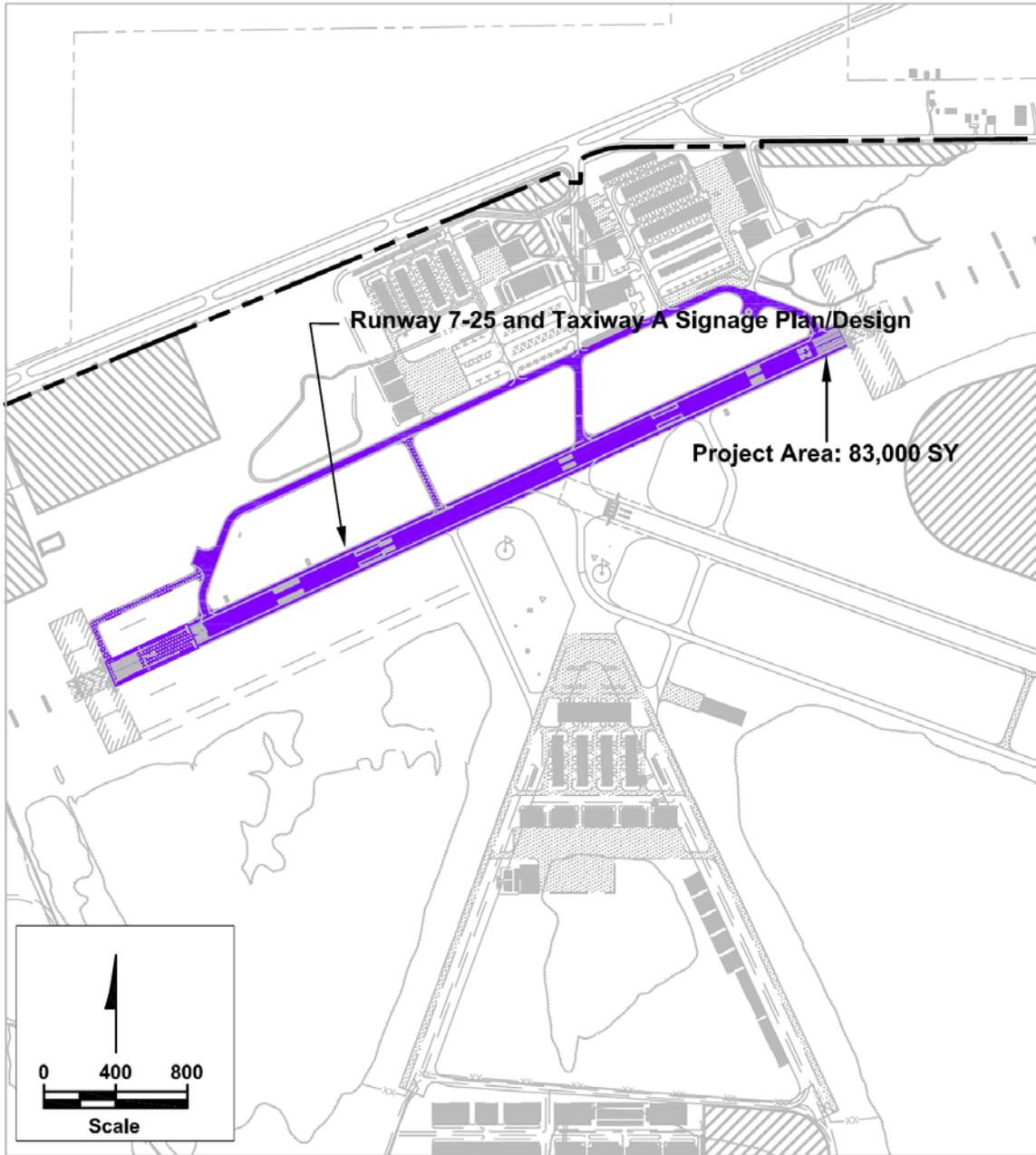
This project is necessary to ensure that pilots have positive identification of airfield signage and that the signage is clearly lighted during inclement weather conditions.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2010	FDOT Match	\$231,952
2010	Local Match	\$231,952
<u>Year Total</u>		\$463,904
Project Total – Federal		\$0.00
Project Total – State		\$231,952
Project Total – Local		\$231,952
Overall Project Total		\$463,904



PRELIMINARY ESTIMATE OF PROJECT COSTS

Herlong Airport - Capital Improvement Program

S-34	Runway and Taxiway Signage Improvements	Approximate Pavement/Bldg Area:	83,000	SY
CIP Year:	2010			

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$26,380.00	\$26,380	
C-2	5kV Cable in conduit or duct	3,000.0	LF	\$0.85	\$2,550	
C-3	600V Cable in conduit or duct	1,000.0	LF	\$0.65	\$650	
C-4	Counterpoise wire including ground rounds and Connections	1,000.0	LF	\$0.85	\$850	
C-5	Improvements Airport Lighting Vault	1.0	LS	\$20,000.00	\$20,000	
C-6	Electric Conduit	3,000.0	LF	\$4.00	\$12,000	
C-7	Directional Bore Conduit	250.0	LF	\$15.00	\$3,750	
C-8	L-858 Sign, Size 1, Style 5, 3-4 Characters, Concrete Base	2.0	Ea	\$24,000.00	\$48,000	
C-9	L-858 Sign, Size 1, Style 5, 5-6 Characters, Concrete Base	4.0	Ea	\$28,000.00	\$112,000	
C-10	L-858 Sign, Size 1, Style 5, 7-8 Characters, Concrete Base	2.0	Ea	\$32,000.00	\$64,000	
<i>Approximate Total Construction Cost:</i>						\$290,180
S-1	Surveying & Design Testing	6%			\$17,410.80	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$40,625.20	
S-4	Inspection & Testing	10%			\$29,018.00	
S-5	Airport Administration	1.5%			\$4,352.70	
<i>Approximate Total Services Cost:</i>						\$96,407
Preliminary Estimate of Project Cost						\$386,587
Contingency		20.0%				\$77,317
PRESENT COST:						\$463,904

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:	PFL0004048	Candidate:	
Airport Project ID:	H2010-2	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2010	National Priority:	
Common Description:	Expand West GA Apron, Phase 2 (S-33)	Project Type:	Apron Expansion

Project Narrative:

This project consists of the design and construction of approximately 11,600 SY of aircraft apron space in the North GA Development Area. This apron will serve the proposed three 100' x 100' corporate hangars to be developed just north of Taxiway A on the west side of the North GA Development Area.

Project Justification:

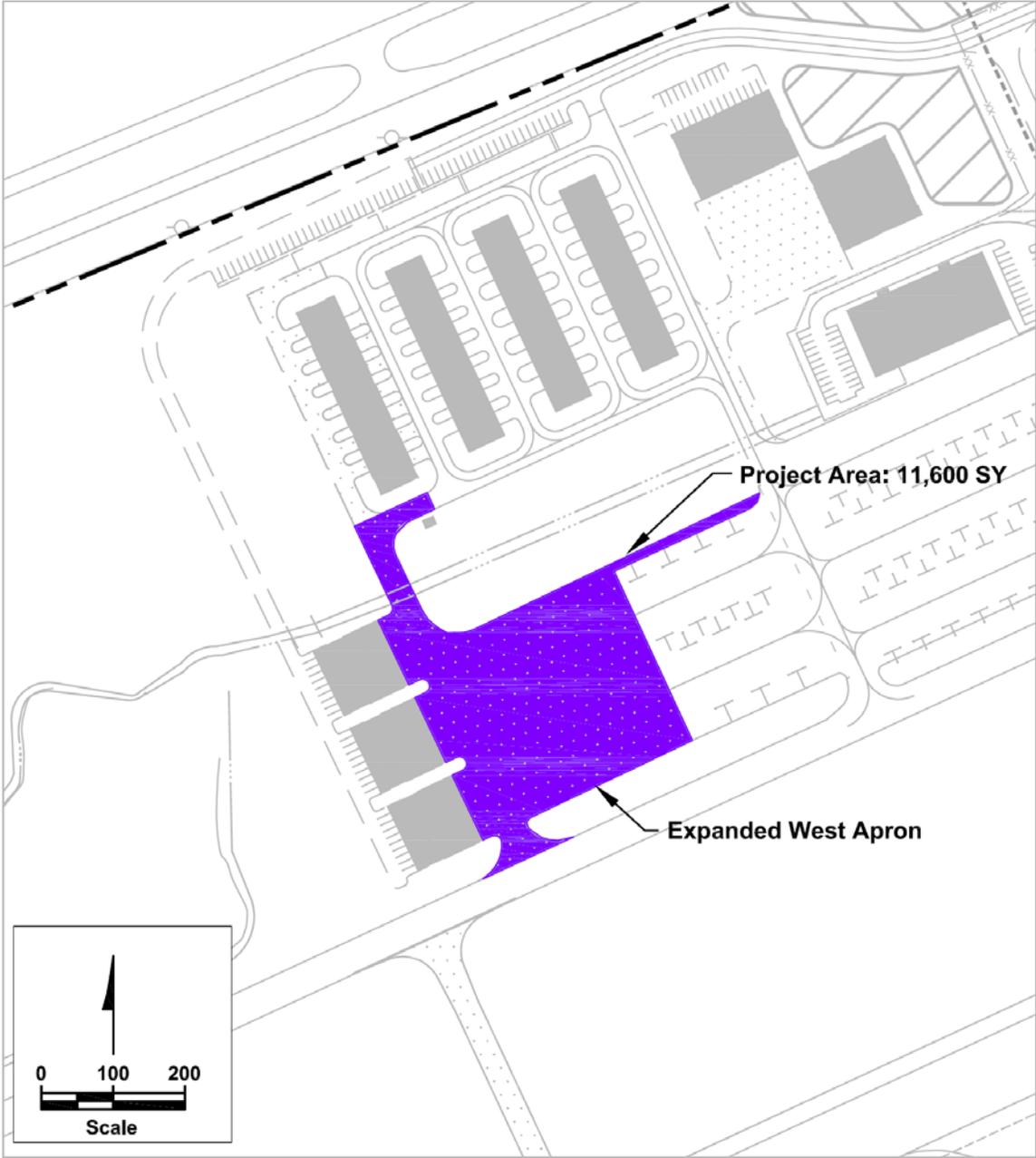
The project is recommended in order to accommodate current and projected general aviation aircraft apron space demand anticipated at HEG. The apron will primarily serve larger corporate jet aircraft.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2010	FDOT Match	\$678,604
2010	Local Funding	\$678,604
<u>Year Total</u>		\$1,357,208
Project Total – Federal		\$0.00
Project Total – State		\$678,604
Project Total – Local		\$678,604
Overall Project Total		\$1,357,208



PRELIMINARY ESTIMATE OF PROJECT COSTS
Herlong Airport - Capital Improvement Program

S-33 Expand West GA Apron Approximate Pavement/Bldg Area: 11,600 SY
 CIP Year: 2010

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$77,843.54	\$77,844	
C-2	Erosion and Sediment Control	1.0	LS	\$7,707.28	\$7,707	
C-3	Maintenance of Traffic	1.0	LS	\$3,000.00	\$3,000	
C-4	Embankment/Excavation	2,760.8	CY	\$8.16	\$22,528	
C-5	Subgrade Stabilization	11,600.0	SY	\$8.00	\$92,800	
C-6	Base Course (6")	11,600.0	SY	\$16.00	\$185,600	
C-7	Bituminous Surface Course (2")	11,600.0	SY	\$35.00	\$406,000	
C-8	Bituminous Prime Coat	11,600.0	SY	\$1.75	\$20,300	
C-9	Pavement Markings	1.0	LS	\$1,000.00	\$1,000	
C-10	Ditch/Shoulder Grading	1.0	LS	\$10,000.00	\$10,000	
C-11	Sodding	5,800.0	SY	\$2.50	\$14,500	
C-12	Allowance for Drainage Improvements	1.0	LS	\$15,000.00	\$15,000	

Approximate Total Construction Cost: \$856,279

S-1	Surveying & Design Testing	6%			\$51,376.74	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$119,879.06	
S-4	Inspection & Testing	10%			\$85,627.90	
S-5	Airport Administration	1.5%			\$12,844.18	

Approximate Total Services Cost: \$274,728

Preliminary Estimate of Project Cost \$1,131,007

Contingency 20.0% \$226,201

PRESENT COST: \$1,357,208

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A
UPIN:	PFL0000084	Candidate:	
Airport Project ID:	H2011-7	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2011	National Priority:	
Common Description:	Drainage Improvements (I-07)	Project Type:	Drainage

Project Narrative:

This project includes the construction of drainage canals and ditches in the midfield.

Project Justification:

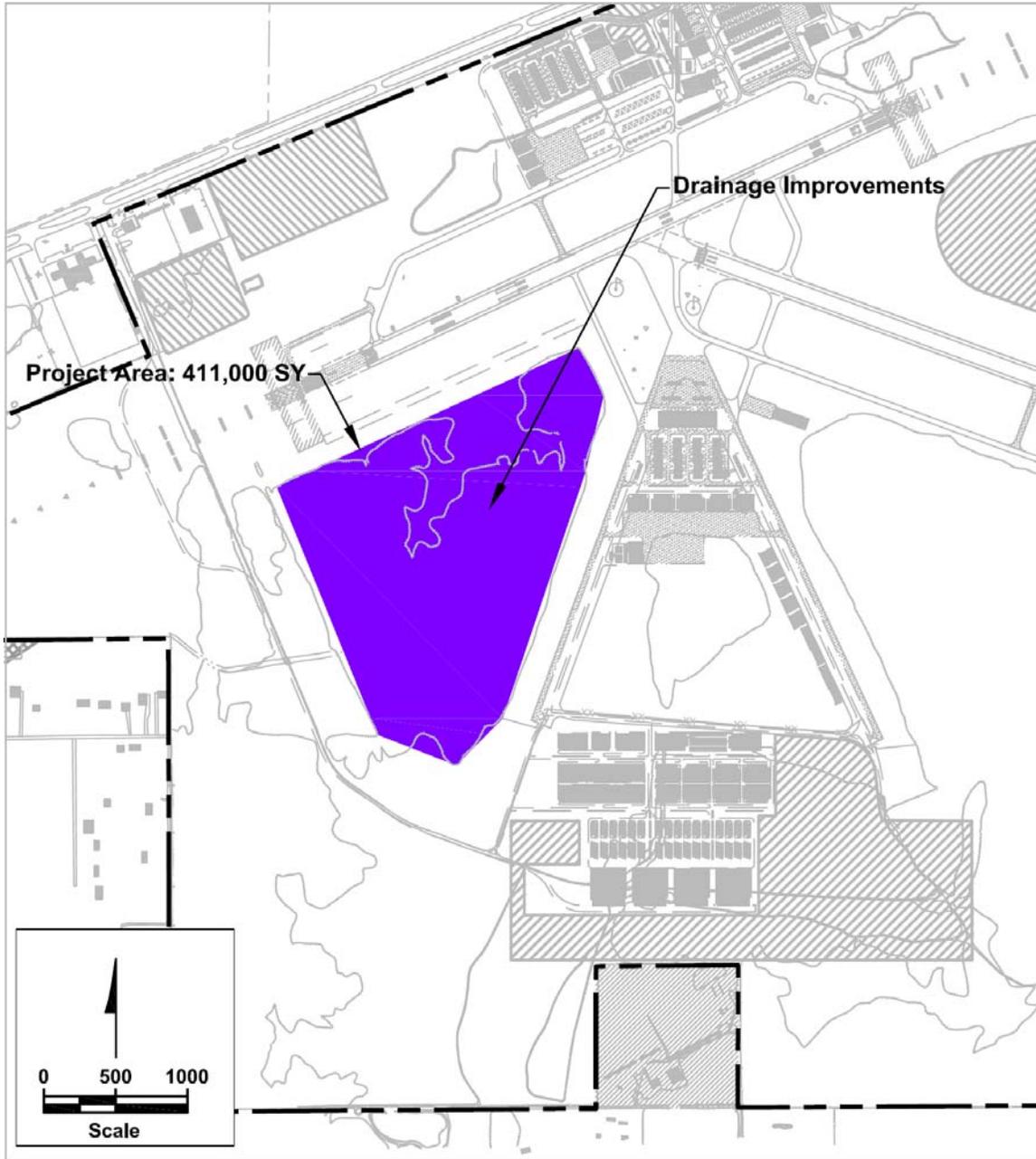
This project is necessary to prevent the improper ponding of stormwater.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2011	FDOT Funding Match	\$98,985
2011	Local Match	\$98,986
<u>Year Total</u>		<u>\$197,971</u>
Project Total – Federal		\$0.00
Project Total – State		\$98,985
Project Total – Local		\$98,986
Overall Project Total		<u>\$197,971</u>



PRELIMINARY ESTIMATE OF PROJECT COSTS
Herlong Airport - Capital Improvement Program

I-07 Drainage Improvements Approximate Pavement/Bldg Area: 10,500 SY
 CIP Year: 2011

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1	LS	\$11,059.50	\$11,059.50	
C-2	Erosion and Sediment Control	1	LS	\$1,095.00	\$1,095.00	
C-3	Embankment/Excavation	3500	CY	\$7.00	\$24,500.00	
C-4	Allowance for Drainage Improvements	1	LS	\$50,000.00	\$50,000.00	
C-5	Landscaping allowance	1	LS	\$35,000.00	\$35,000.00	

Approximate Total Construction Cost: \$121,654.50

S-1	Surveying & Design Testing	6.0%			\$7,299.27	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14.0%			\$17,031.63	
S-4	Inspection & Testing	10.0%			\$12,165.45	
S-5	Airport Administration	1.5%			\$1,824.82	

Preliminary Estimate of Project Cost \$164,975.67

Contingency 20% \$32,995.13

PRESENT COST: \$197,970.80

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A
UPIN:	PFL0002031	Candidate:	
Airport Project ID:	H2011-8	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2011	National Priority:	
Common Description:	Rehabilitate FBO Transient Apron (I-08)	Project Type:	Construction

Project Narrative:

This project includes the pavement overlay of approximately 4,800 SY of existing apron located in front of the Terminal Building used for transient aircraft parking.

Project Justification:

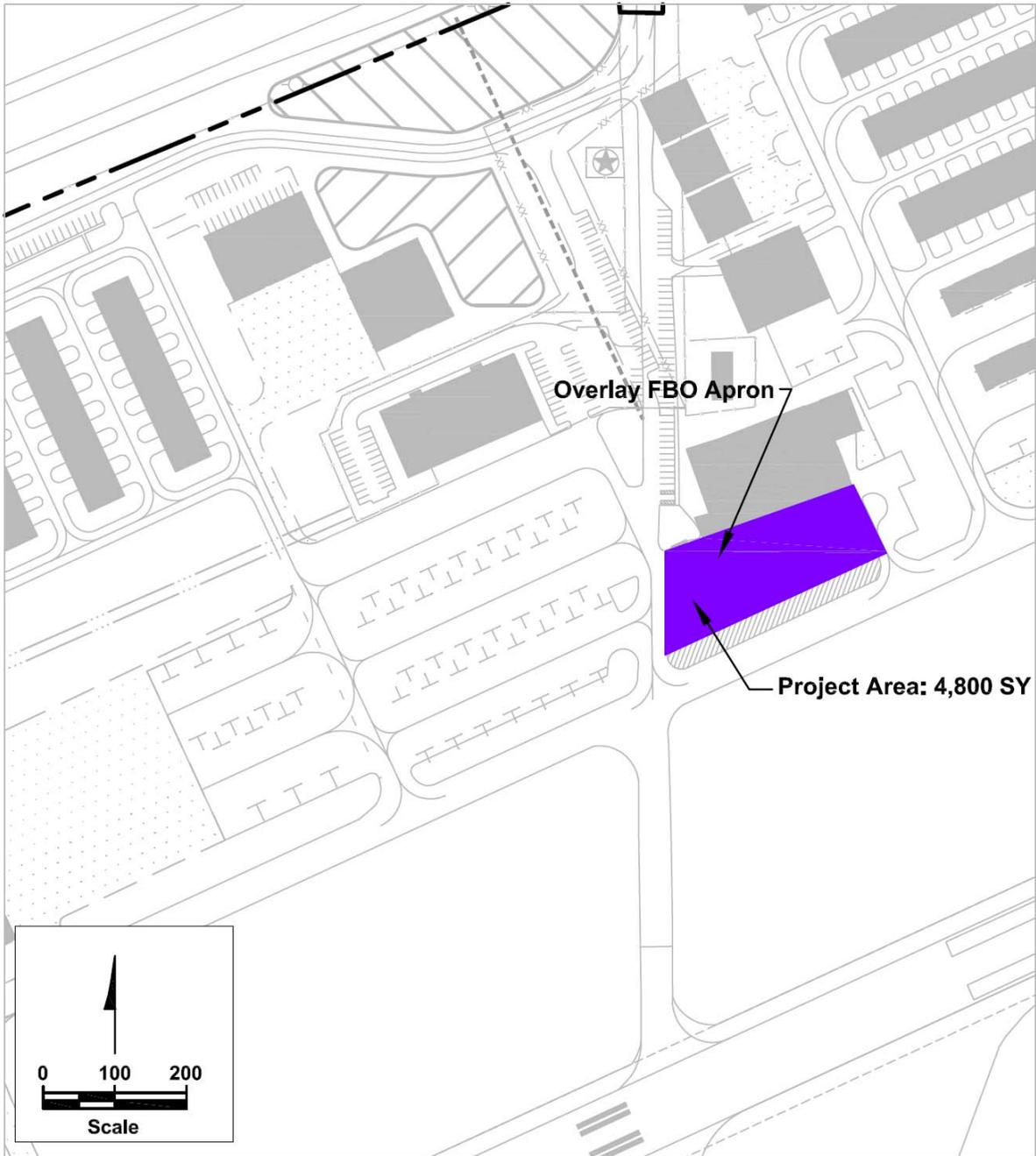
This project is necessary to prevent cracks in and spalling of the pavement and to ensure the safe and expeditious movement of aircraft.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2011	FAA Funding Match-Entitlement	\$150,000
2011	FDOT Match	\$78,703
2011	Local Match	\$78,702
<u>Year Total</u>		\$307,405
Project Total – Federal		\$150,000
Project Total – State		\$78,703
Project Total – Local		\$78,702
Overall Project Total		\$307,405



PRELIMINARY ESTIMATE OF PROJECT COSTS
Herlong Airport - Capital Improvement Program

I-08 Rehabilitate FBO Transient Apron Approximate Pavement/Bldg Area: 4800 SY
 CIP Year: 2011

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$22,661.92	\$22,662	
C-2	Erosion and Sediment Control	1.0	LS	\$2,243.75	\$2,244	
C-3	Maintenance of Traffic	1.0	LS	\$3,000.00	\$3,000	
C-4	Embankment/Excavation	1,584.0	CY	\$8.16	\$12,925	
C-5	Miscellaneous Repairs/Patching	1,800.0	SY	\$50.00	\$90,000	
C-6	Pavement Milling (1/2")	4,800.0	SY	\$1.00	\$4,800	
C-7	Bituminous Surface Course (2")	4,800.0	SY	\$17.00	\$81,600	
C-8	Bituminous Prime Coat	4,800.0	SY	\$1.75	\$8,400	
C-9	Pavement Markings	5,000.0	SF	\$1.53	\$7,650	
C-10	Ditch/Shoulder Grading	1.0	LS	\$10,000.00	\$10,000	
C-11	Sodding	2,400.0	SY	\$2.50	\$6,000	
<i>Approximate Total Construction Cost:</i>						\$249,281
S-1	Surveying & Design Testing	6%			\$360.00	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$840.00	
S-4	Inspection & Testing	10%			\$600.00	
S-5	Airport Administration	1.5%			\$90.00	
<i>Approximate Total Services Cost:</i>						\$6,890
Preliminary Estimate of Project Cost						\$256,171
Contingency		20.0%				\$51,234
PRESENT COST:						\$307,405

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:		Candidate:	12-0034
Airport Project ID:	H2011-1	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2011	National Priority:	
Common Description:	Relocate Airport Entrance Road (I-02)	Project Type:	Construction

Project Narrative:

This project includes the relocation and realignment of the airport and terminal entrance road. Associated grading, drainage and markings are included.

Project Justification:

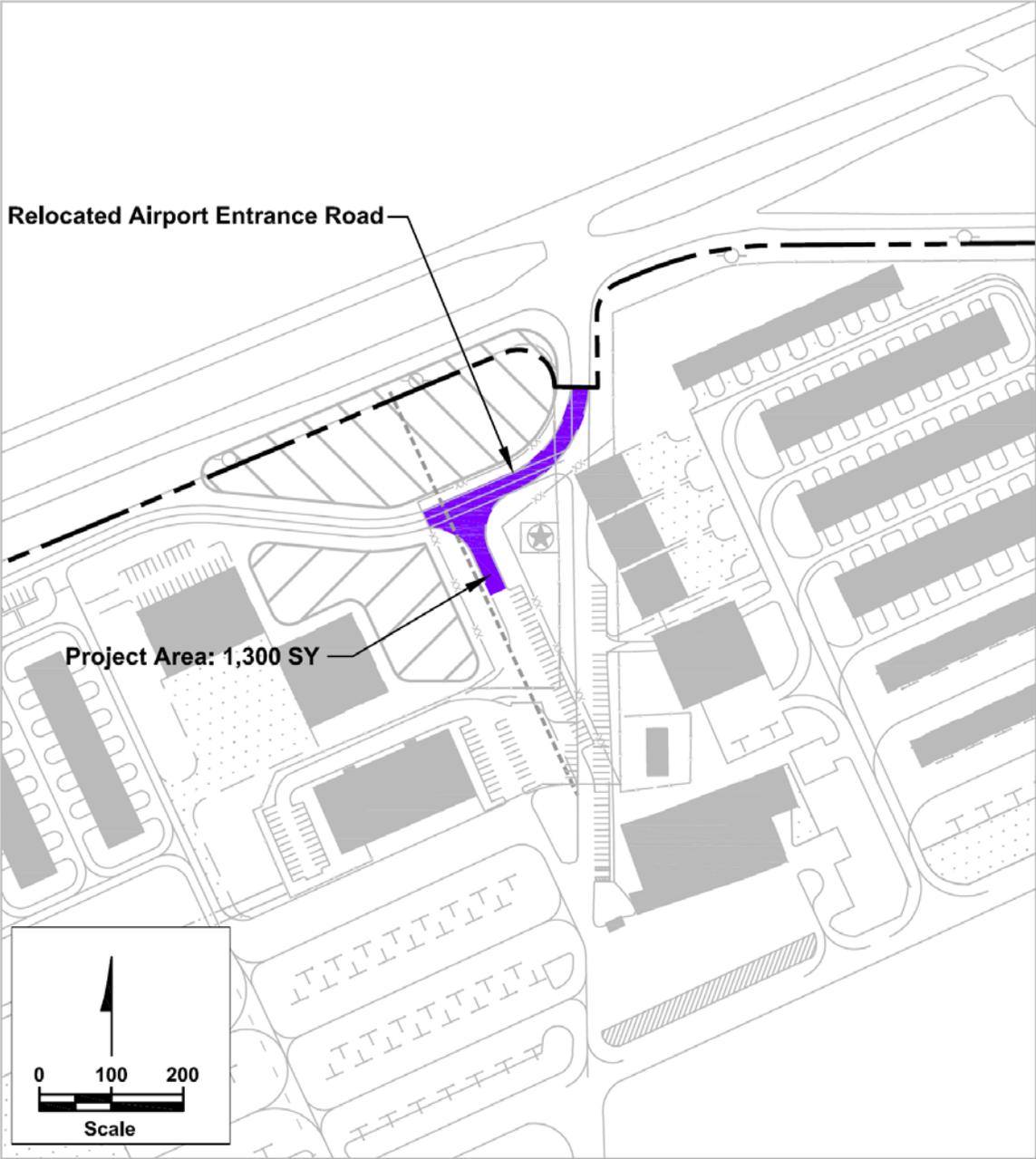
This project is necessary to accommodate additional hangar construction on the east side.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2011	FDOT Funding	\$183,821
2011	Local Match	\$183,820
<u>Year Total</u>		\$367,641
Project Total – Federal		\$0.00
Project Total – State		\$183,821
Project Total – Local		\$183,820
Overall Project Total		\$367,641



PRELIMINARY ESTIMATE OF PROJECT COSTS
Herlong Airport - Capital Improvement Program

I-02 Reconfigure/Construct Entrance Road Approximate Pavement/Bldg Area: 1,300 SY
 CIP Year: 2011

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$20,834.28	\$20,834	
C-2	Erosion and Sediment Control	1.0	LS	\$2,062.80	\$2,063	
C-3	Maintenance of Traffic	1.0	LS	\$2,000.00	\$2,000	
C-4	Embankment/Excavation	100.0	CY	\$8.16	\$816	
C-5	Subgrade Stabilization	1,300.0	SY	\$8.00	\$10,400	
C-6	Base Course (6")	1,300.0	SY	\$16.00	\$20,800	
C-7	Bituminous Surface Course (2")	1,300.0	SY	\$17.00	\$22,100	
C-8	Bituminous Prime Coat	1,300.0	SY	\$1.75	\$2,275	
C-9	Pavement Markings	1.0	LS	\$1,000.00	\$1,000	
C-10	Ditch/Shoulder Grading	1.0	LS	\$45,000.00	\$45,000	
C-11	Allowance for Water	488	LF	\$45.00	\$21,960	
C-12	Allowance for Sewer	488	LF	\$40.00	\$19,520	
C-13	Power/Communications Conduits/Misc	488	LF	\$18.00	\$8,784	
C-14	Sodding	650.0	SY	\$2.50	\$1,625	
C-16	Allowance for Drainage Improvements	1.0	LS	\$50,000.00	\$50,000	
Approximate Total Construction Cost						\$229,177
S-1	Surveying & Design Testing	6%			\$13,750.62	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$32,084.79	
S-4	Inspection & Testing	10%			\$22,917.71	
S-5	Airport Administration	1.5%			\$3,437.66	
Approximate Total Services Cost:						\$77,191
Preliminary Estimate of Project Cost						\$306,368
Contingency		20.0%				\$61,274
PRESENT COST:						\$367,641

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:		Candidate:	
Airport Project ID:	H2011-3	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2011	National Priority:	
Common Description:	Reconfigure Airport Parking	Project Type:	Construction

Project Narrative:

This project includes the realignment/reconfiguration of the public vehicle parking lot. The project area is approximately 1,750 SY and includes grading, drainage, and markings.

Project Justification:

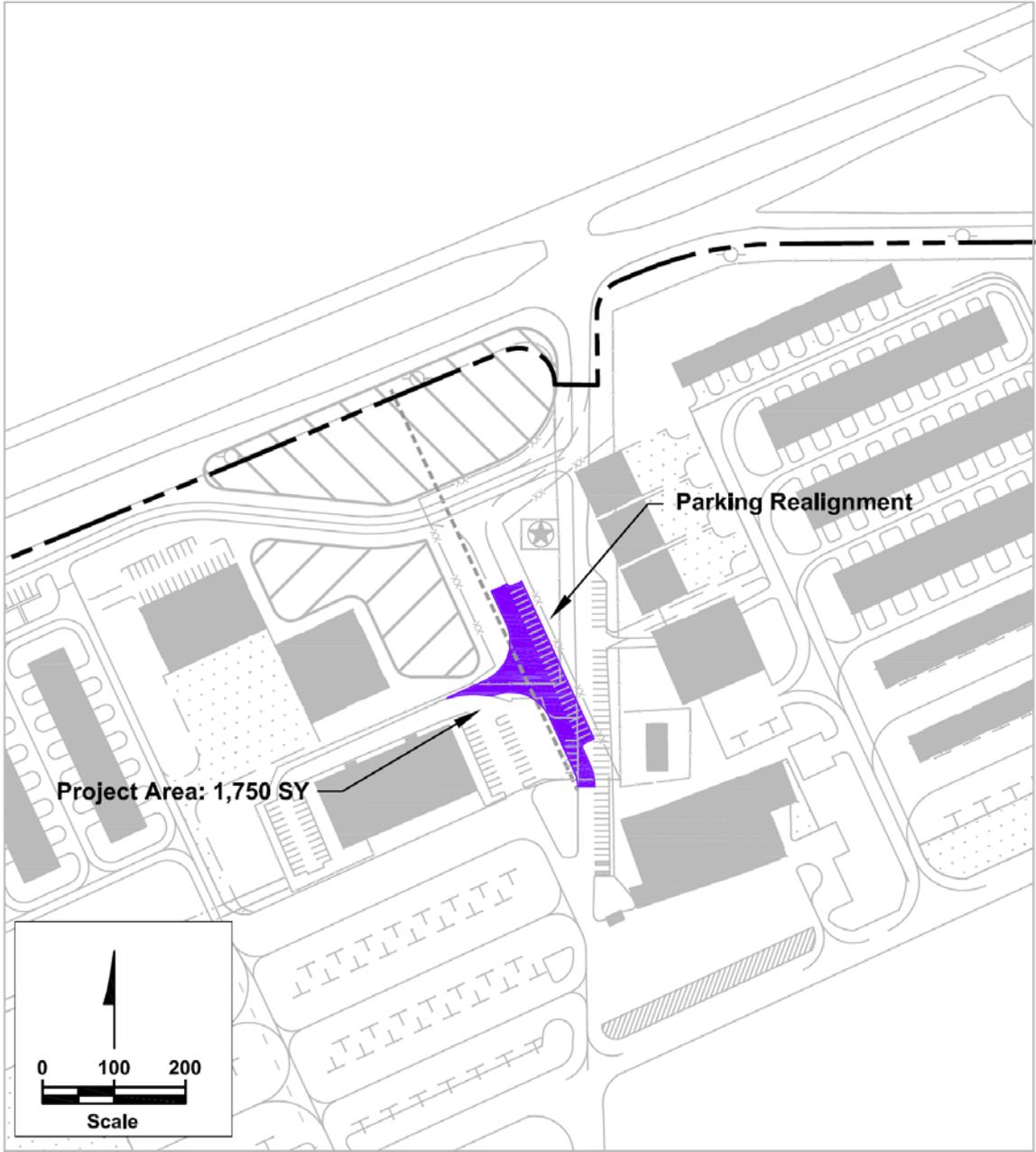
This project is necessary to accommodate additional hangar space on the west side of the North GA development area.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2011	FDOT Funding	\$86,547
2011	Local Match	\$346,189
<u>Year Total</u>		\$432,736
Project Total – Federal		\$0.00
Project Total – State		\$86,547
Project Total – Local		\$346,189
Overall Project Total		\$432,736



PRELIMINARY ESTIMATE OF PROJECT COSTS

Herlong Airport - Capital Improvement Program

I-03 Relocate Airport Parking
 associated with Entrance Road Realignment
 CIP Year: 2011

Approximate Pavement/Bldg Area:

1,750 SY

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$24,584.38	\$24,584	
C-2	Erosion and Sediment Control	1.0	LS	\$2,434.10	\$2,434	
C-3	Maintenance of Traffic	1.0	LS	\$2,000.00	\$2,000	
C-4	Embankment/Excavation	100.0	CY	\$8.16	\$816	
C-5	Subgrade Stabilization	1,750.0	SY	\$8.00	\$14,000	
C-6	Base Course (6")	1,750.0	SY	\$16.00	\$28,000	
C-7	Bituminous Surface Course (2")	1,750.0	SY	\$17.00	\$29,750	
C-8	Bituminous Prime Coat	1,750.0	SY	\$1.75	\$3,063	
C-9	Pavement Markings	1.0	LS	\$1,000.00	\$1,000	
C-10	Ditch/Shoulder Grading	1.0	LS	\$45,000.00	\$45,000	
C-11	Allowance for Water	656.3	LF	\$45.00	\$29,531	
C-12	Allowance for Sewer	656.3	LF	\$40.00	\$26,250	
C-13	Power/Communications Conduits/Misc	656.3	LF	\$18.00	\$11,813	
C-14	Sodding	875.0	SY	\$2.50	\$2,188	
C-15	Allowance for Drainage Improvements	1.0	LS	\$50,000.00	\$50,000	

Approximate Total Construction Cost: \$270,428

S-1	Surveying & Design Testing	6%			\$16,225.69	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$37,859.95	
S-4	Inspection & Testing	10%			\$27,042.82	
S-5	Airport Administration	1.5%			\$4,056.42	

Approximate Total Services Cost: \$90,185

Preliminary Estimate of Project Cost \$360,613

Contingency 20.0% \$72,123

PRESENT COST: \$432,736

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:		Candidate:	
Airport Project ID:	H2011-4	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2011	National Priority:	
Common Description:	Relocate Airport Entrance Road Fenceline (I-04)	Project Type:	Relocation

Project Narrative:

This project includes the relocation of the existing entrance road fenceline in coordination with the relocation/realignment of the entrance road into the airport.

Project Justification:

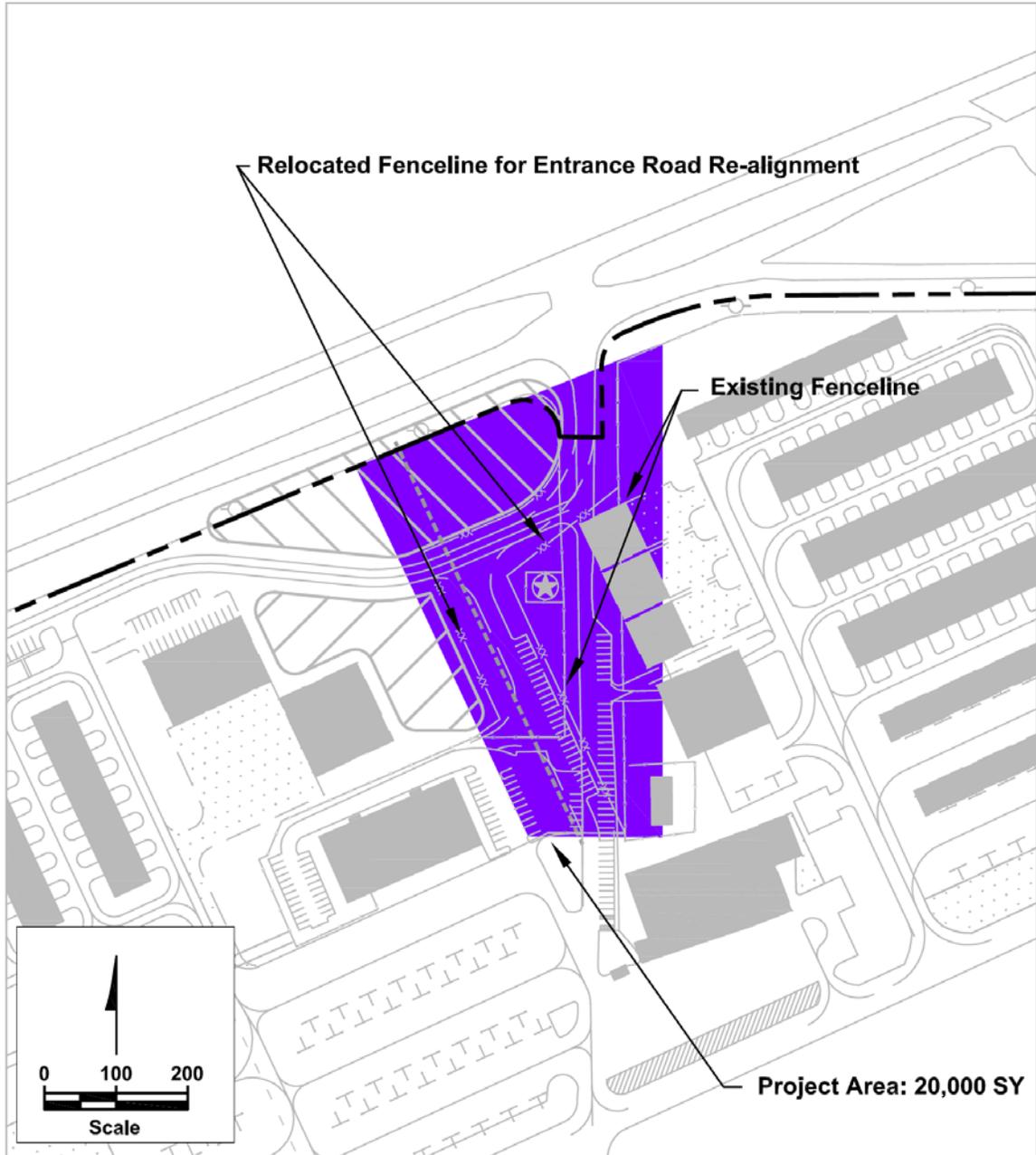
This project is necessary to maintain the safety and security of the airside areas to prevent unauthorized persons from entering. The relocation will also allow for the development of additional hangar and apron space.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2011	FAA Funding - Discretionary	\$117,105
2011	FDOT Funding	\$6,506
2011	Local Match	\$6,506
<u>Year Total</u>		\$130,117
Project Total – Federal		\$117,105
Project Total – State		\$6,506
Project Total – Local		\$6,506
Overall Project Total		\$130,117



PRELIMINARY ESTIMATE OF PROJECT COSTS
Herlong Airport - Capital Improvement Program

I-04 Relocate Airport Entrance Road Fenceline Approximate Pavement/Bldg Area: 1130 LF
 CIP Year: 2011

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1	LS	7,150.40	7,150.40	
C-2	Fence Removal	986	LF	4.00	3,944.00	
C-3	Clearing and Grubbing	1	AC	3,000.00	3,000.00	
C-4	Maintenance of Traffic	1	LS	1,000.00	1,000.00	
C-5	Chain Link Fence (8')	1130	LF	12.00	13,560.00	
C-6	Gate Improvements	1	EA	10,000.00	10,000.00	
C-7	Allowance for Utility/Hydrant Modifications	1	LS	30,000.00	30,000.00	
C-8	Landscaping allowance	1	LS	10,000.00	10,000.00	
<i>Approximate Total Construction Cost:</i>						\$78,654.40
S-1	Surveying & Design Testing	6%			\$4,719.26	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$11,011.62	
S-4	Inspection & Testing	10%			\$7,865.44	
S-5	Airport Administration	1.5%			\$1,179.82	
<i>Approximate Total Services Cost:</i>						\$29,776.14
Preliminary Estimate of Project Cost						\$108,430.54
Contingency		20.0%				\$21,686.11
PRESENT COST:						\$130,116.64

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:	PFL0000080	Candidate:	
Airport Project ID:	H2011-4	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2011	National Priority:	
Common Description:	Design/Construct 2,000 x 60 ft Turf Runway (I-05)	Project Type:	Turf Runway

Project Narrative:

This project consists of the design, permitting, and construction of a new 2,000 ft x 60 ft turf runway to be located at a 700 centerline separation from the primary runway, Runway 7-25.

Project Justification:

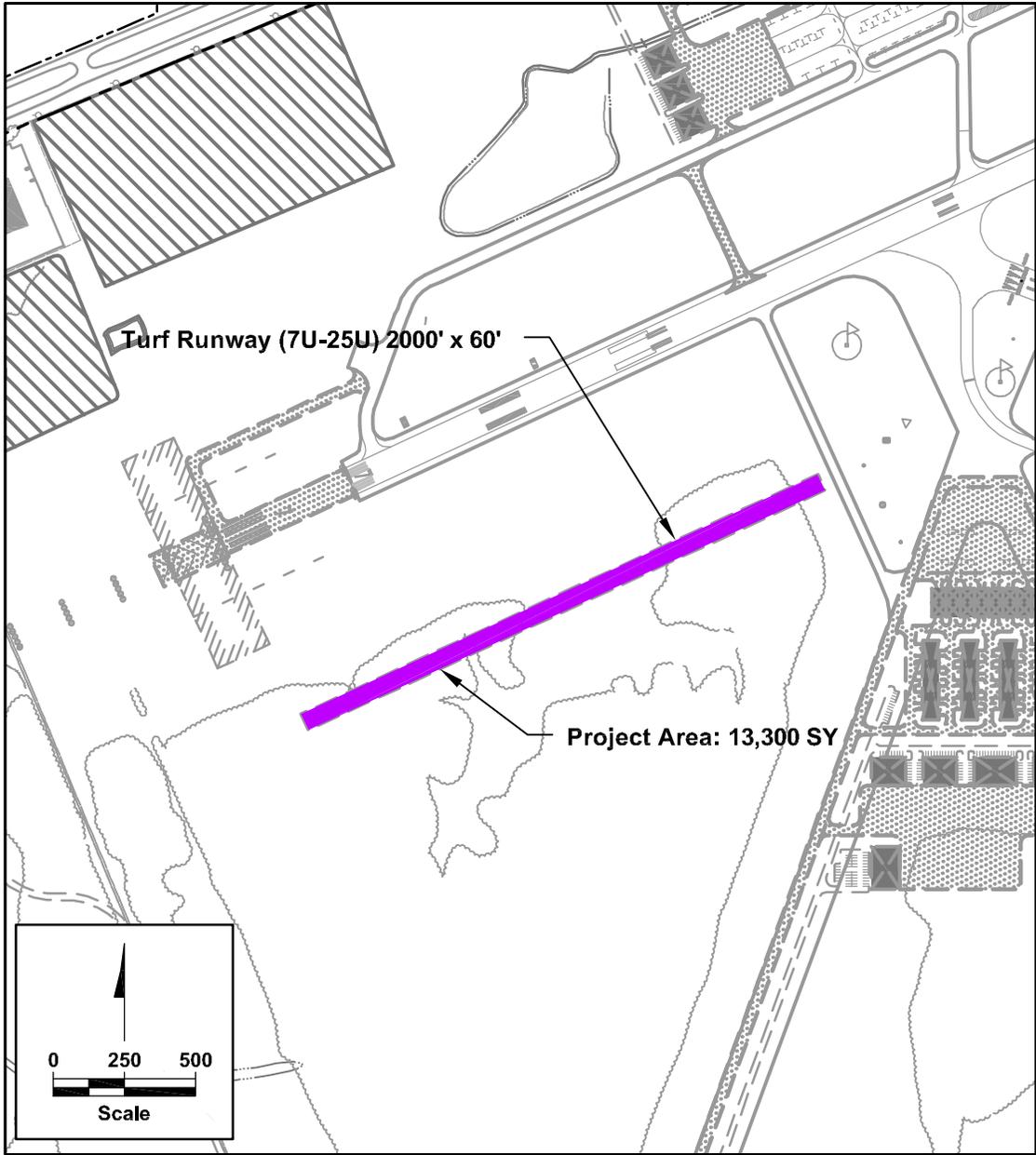
The project is recommended in order to provide a runway for the dedicated use of light and sport aircraft and gliders. These aircraft currently use the turf situated between Taxiway A and Runway 7-25, which is considered a significant safety hazard to all aircraft operating in the vicinity.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2011	FDOT Match	\$211,471
2011	Local Match	\$834,918
<u>Year Total</u>		\$1,046,389
Project Total - Federal		\$0
Project Total – State		\$211,471
Project Total – Local		\$834,918
Overall Project Total		\$1,046,389



PRELIMINARY ESTIMATE OF PROJECT COSTS

Herlong Airport - Capital Improvement Program

I-05 Construct 2,000' x 60' Turf Runway Approximate Pavement/Bldg Area: 13,333 SY
 CIP Year: 2011

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
PRELIMINARY CONSTRUCTION COSTS						
C-1	Mobilization	1.0	LS	\$23,805.56	\$23,806	
C-2	Erosion and Sediment Control	1.0	LS	\$2,380.56	\$2,381	
C-3	UNCLASSIFIED EXCAVATION, 1' Average	4,444.4	CY	\$11.00	\$48,889	
C-4	12" SUBGRADE STABILIZATION	13,333.3	SY	\$6.50	\$86,667	
C-5	PERMANENT PAVEMENT MARKINGS	0.0	SF	\$2.05	\$0	
C-6	GRASSING	2.0	AC	\$3,500.00	\$7,000	
C-7	SODDING	5,000.0	SY	\$3.10	\$15,500	
C-8	Ditch/Shoulder Grading	1.0	LS	\$10,000.00	\$10,000	
C-9	Sodding	12,000.0	SY	\$2.50	\$30,000	
C-10	Allowance for Drainage Improvements	1.0	LS	\$40,000.00	\$40,000	
					<i>Approximate Total Construction Cost:</i>	\$264,242
S-1	Surveying & Design Testing	6%			\$15,854.50	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$36,993.83	
S-4	Inspection & Testing	10%			\$26,424.17	
S-5	Airport Administration	1.5%			\$3,963.63	
					<i>Approximate Total Services Cost:</i>	\$88,236
Preliminary Estimate of Construction Cost						\$352,478
Construction Contingency 20.0%						\$70,496
					Construction Cost:	\$422,973
PRELIMINARY ENVIRONMENTAL COSTS*						
E-2	Permitting	1	LS	100,000.00	\$100,000.00	
E-3	Mitigation	6.54	Acres	80,033.00	\$523,416.00	
						\$773,416
					Total Design, Construction and Environmental Cost	\$1,046,389.35

Note: *Environmental Assessment for Turf Runway combined with Runway Extension. Estimated cost was approximately \$350,800.
 Source: The LPA Group, Inc. 2008

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:		Candidate:	
Airport Project ID:	H2012-3	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2012	National Priority:	
Common Description:	Construct 3, 70' x 70' Corporate Hangars (I-11)	Project Type:	Corporate Hangar

Project Narrative:

This project consists of the design, permitting, and construction of three (3) 70 ft x 70 ft corporate hangars. Associated grading, paving, and lighting are to be included in this development.

Project Justification:

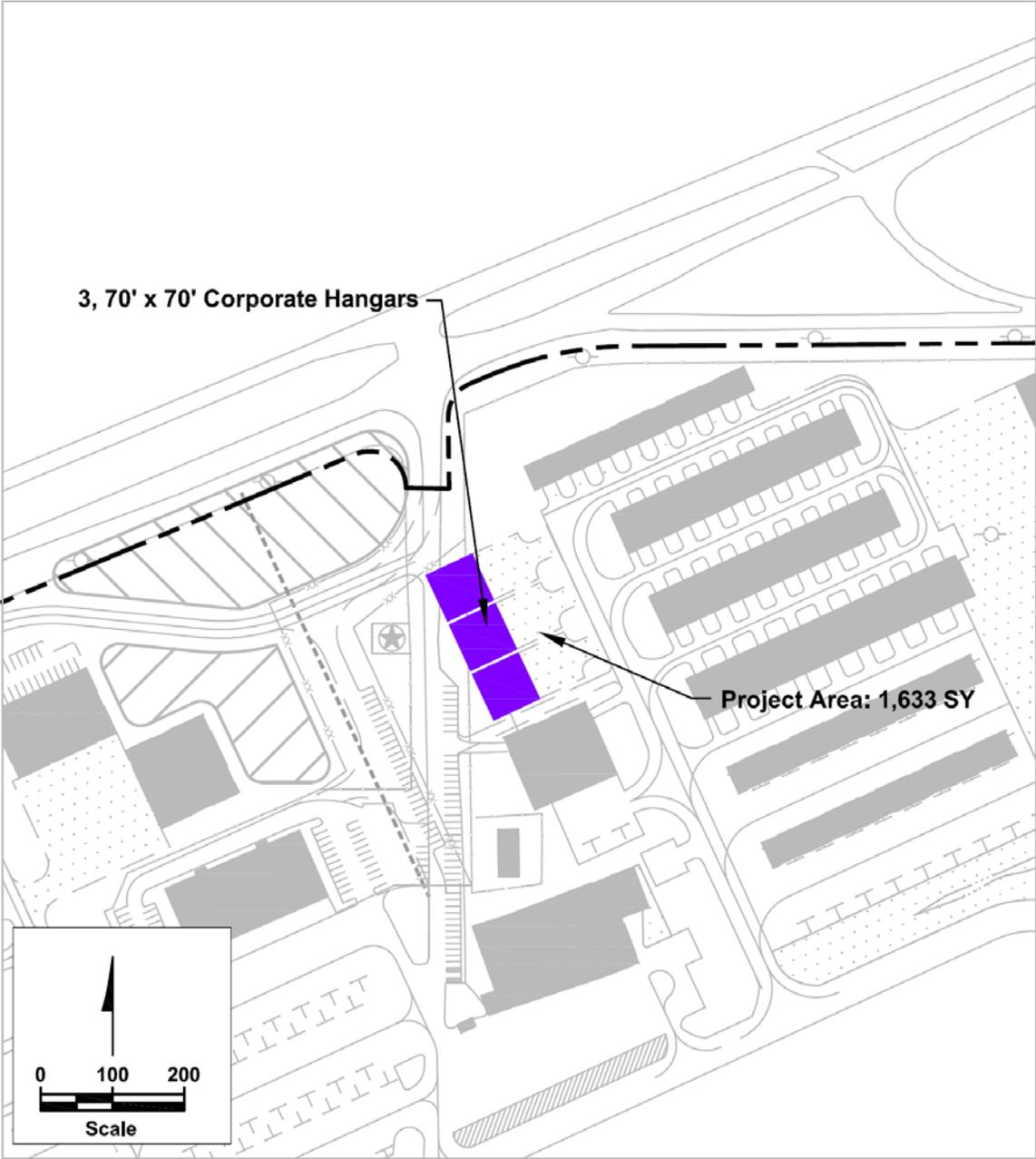
The project is required in order to accommodate current and projected corporate aircraft hangar storage demand capable of handling larger jet aircraft. Development is based upon demand and available funding.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2012	FAA Funding	\$0.00
2012	FDOT Funding	\$1,100,421
2012	JAA Local Match	\$1,100,421
<u>Year Total</u>		<u>\$2,200,841.00</u>
Project Total – Federal		\$0.00
Project Total – State		\$1,100,421
Project Total – Local		\$1,100,421
Overall Project Total		<u>\$2,200,841.00</u>



PRELIMINARY ESTIMATE OF PROJECT COSTS
Herlong Airport - Capital Improvement Program

I-11 Construct 3 70' x 70' Corporate Hangars Approximate Pavement/Bldg Area: 4,900 SF
 CIP Year: 2012

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$126,445.50	\$126,446	
C-2	Erosion and Sediment Control	1.0	LS	\$555.00	\$555	
C-3	Construct 70' x 70' Corporate Hangar	14,700.0	ea	\$82.00	\$1,205,400	
C-4	Maintenance of Traffic	1.0	LS	\$1,000.00	\$1,000	
C-5	Embankment/Excavation	500.0	CY	\$7.00	\$3,500	
C-6	Allowance for Drainage Improvements	1.0	LS	\$5,000.00	\$5,000	
C-7	Allowance for Utility/Hydrant Modifications	1.0	LS	\$25,000.00	\$25,000	
C-8	Allowance for Area Lighting	1.0	LS	\$5,000.00	\$5,000	
C-9	Vehicular Signage	1.0	LS	\$1,000.00	\$1,000	
C-10	Allowance for Curb/Gutter Improvements	1.0	LS	\$0.00	\$0	
C-11	Landscaping allowance	1.0	LS	\$15,000.00	\$15,000	
C-12	Allowance for Sidewalk Improvements	1.0	LS	\$3,000.00	\$3,000	

Approximate Total Construction Cost: \$1,390,901

S-1	Surveying & Design Testing	6%			\$83,454.03	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$194,726.07	
S-4	Inspection & Testing	10%			\$139,090.05	
S-5	Airport Administration	1.5%			\$20,863.51	

Approximate Total Services Cost: \$443,134

Preliminary Estimate of Project Cost \$1,834,034

Contingency 20.0% \$366,807

PRESENT COST: \$2,200,841

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:		Candidate:	
Airport Project ID:	H2012-6	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2012	National Priority:	
Common Description:	Construct 2,106 SY Apron adjacent to 70' x 70' Hangars in North GA Area (I-14)	Project Type:	Apron Development

Project Narrative:

This project consists of the design and construction of three 702 SY (2,106 SY) of aircraft apron space in the North GA Development Area adjacent to the 70' x 70' box hangars.

Project Justification:

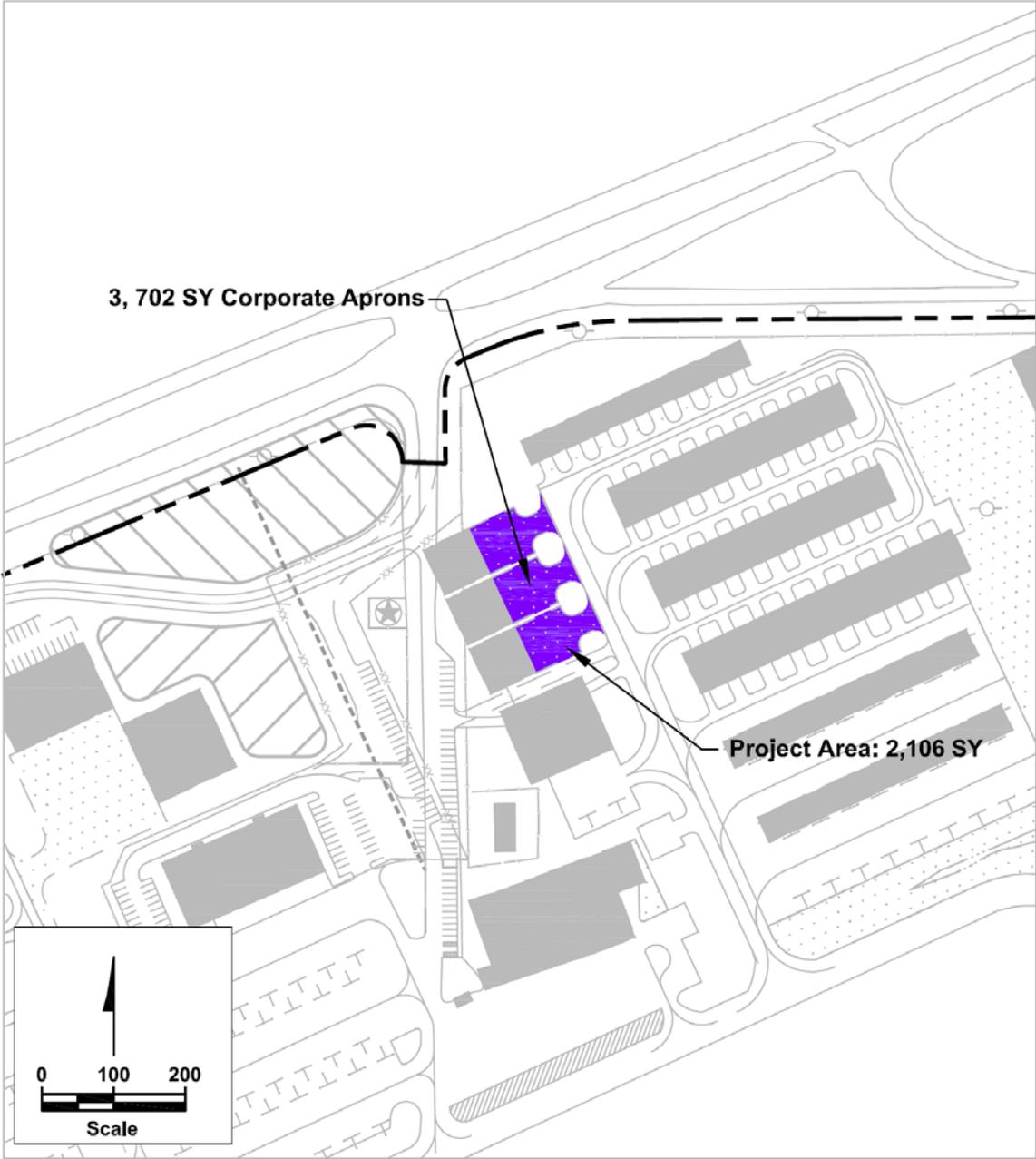
The project is recommended in order to accommodate current and projected general aviation aircraft apron space demand anticipated at HEG.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2012	FAA Funding	\$0.00
2012	FDOT Funding	\$143,466
2012	Local Match	\$143,466
<u>Year Total</u>		<u>\$286,931</u>
Project Total – Federal		\$0.00
Project Total – State		\$143,466
Project Total – Local		\$143,466
Overall Project Total		<u>\$286,931</u>



PRELIMINARY ESTIMATE OF PROJECT COSTS**Herlong Airport - Capital Improvement Program**

I-14 Construct 2,106 SY Apron Adjacent to 70' x 70' Hangars Approximate Pavement/Bldg Area: 2,106 SY
CIP Year: 2012

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>	
C-1	Mobilization	1.0	LS	\$16,184.55	\$16,185		
C-2	Erosion and Sediment Control	1.0	LS	\$1,602.43	\$1,602		
C-3	Maintenance of Traffic	1.0	LS	\$3,000.00	\$3,000		
C-4	Embankment/Excavation	695.0	CY	\$8.16	\$5,671		
C-5	Subgrade Stabilization	2,106.0	SY	\$8.00	\$16,848		
C-6	Base Course (6")	2,106.0	SY	\$16.00	\$33,696		
C-7	Bituminous Surface Course (4")	2,106.0	SY	\$35.00	\$73,710		
C-8	Bituminous Prime Coat	2,106.0	SY	\$1.75	\$3,686		
C-9	Pavement Markings	1.0	LS	\$1,000.00	\$1,000		
C-10	Ditch/Shoulder Grading	1.0	LS	\$5,000.00	\$5,000		
C-11	Sodding	1,053.0	SY	\$2.50	\$2,633		
C-12	Allowance for Drainage Improvements	1.0	LS	\$15,000.00	\$15,000		
						<i>Approximate Total Construction Cost:</i>	\$178,030
S-1	Surveying & Design Testing	6%			\$10,681.80		
S-2	Allowance for Permitting Fees				\$5,000.00		
S-3	Engineering	14%			\$24,924.20		
S-4	Inspection & Testing	10%			\$17,803.00		
S-5	Airport Administration	1.5%			\$2,670.45		
						<i>Approximate Total Services Cost:</i>	\$61,079
Preliminary Estimate of Project Cost							\$239,109
Contingency						20.0%	\$47,822
						PRESENT COST:	\$286,931

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:	23J278	Candidate:	
Airport Project ID:	H2012-5	FDOT Description 2:	
WPI No.:	217013	FDOT Description 3:	
Sponsor Priority:	2012	National Priority:	
Common Description:	Construct 13,424 SY Apron in North GA Area (I-13)	Project Type:	Apron Development

Project Narrative:

This project consists of the design and construction of approximately 13,424 SY of aircraft apron space in the North GA Development Area adjacent to the proposed large corporate hangars.

Project Justification:

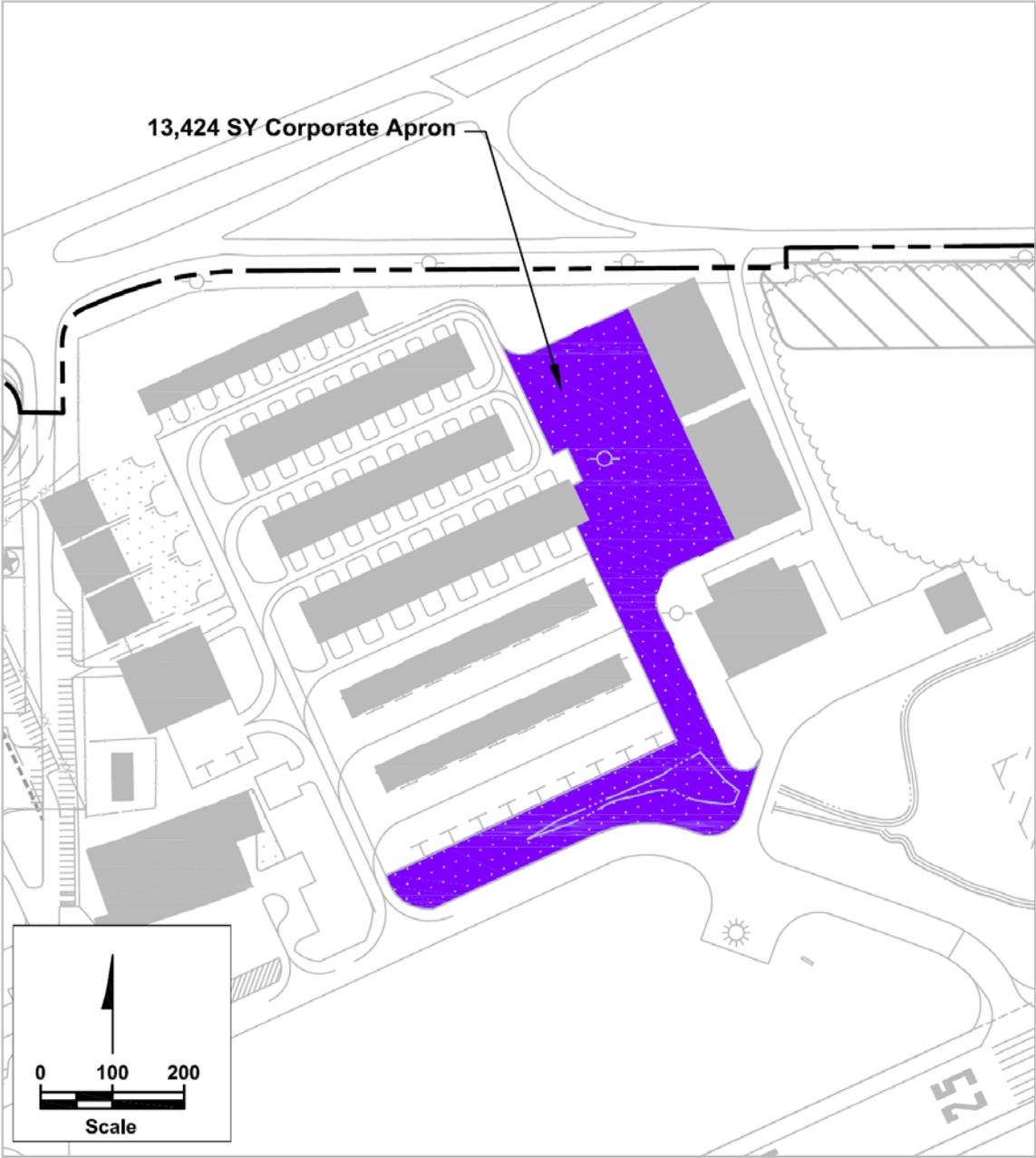
The project is recommended in order to accommodate current and projected general aviation and corporate aircraft apron space demand anticipated at HEG.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2012	FAA Funding	\$0.00
2012	FDOT Funding	\$785,291
<u>2012</u>	Local Match	\$785,291
<u>Year Total</u>		<u>\$1,570,582.00</u>
Project Total – Federal		\$0.00
Project Total – State		\$785,291
Project Total – Local		\$785,291
Overall Project Total		<u>\$1,570,582.00</u>



PRELIMINARY ESTIMATE OF PROJECT COSTS

Herlong Airport - Capital Improvement Program

I-13 Construct 13,424 SY Apron in North GA Area Approximate Pavement/Bldg Area: 13,424 SY
 CIP Year: 2012

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$90,136.05	\$90,136	
C-2	Erosion and Sediment Control	1.0	LS	\$8,924.36	\$8,924	
C-3	Maintenance of Traffic	1.0	LS	\$3,000.00	\$3,000	
C-4	Embankment/Excavation	4,429.9	CY	\$8.16	\$36,148	
C-5	Subgrade Stabilization	13,424.0	SY	\$8.00	\$107,392	
C-6	Base Course (6")	13,424.0	SY	\$16.00	\$214,784	
C-7	Bituminous Surface Course (4")	13,424.0	SY	\$35.00	\$469,840	
C-8	Bituminous Prime Coat	13,424.0	SY	\$1.75	\$23,492	
C-9	Pavement Markings	1.0	LS	\$1,000.00	\$1,000	
C-10	Ditch/Shoulder Grading	1.0	LS	\$5,000.00	\$5,000	
C-11	Sodding	6,712.0	SY	\$2.50	\$16,780	
C-12	Allowance for Drainage Improvements	1.0	LS	\$15,000.00	\$15,000	
<i>Approximate Total Construction Cost:</i>						\$991,497
S-1	Surveying & Design Testing	6%			\$59,489.79	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$138,809.52	
S-4	Inspection & Testing	10%			\$99,149.66	
S-5	Airport Administration	1.5%			\$14,872.45	
<i>Approximate Total Services Cost:</i>						\$317,321
Preliminary Estimate of Project Cost						\$1,308,818
Contingency		20.0%				\$261,764
PRESENT COST:						\$1,570,582

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:		Candidate:	
Airport Project ID:	H2012-11	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2012	National Priority:	
Common Description:	Modify/Rehabilitate Existing T-Hangar (I-18)	Project Type:	T-Hangar Rehab/Modification

Project Narrative:

This project consists of rehabilitating the existing building and removing approximately 4,900 SF from an existing 16-unit T-hangar on the east side of the North GA development area. This modification will provide 14 available units.

Project Justification:

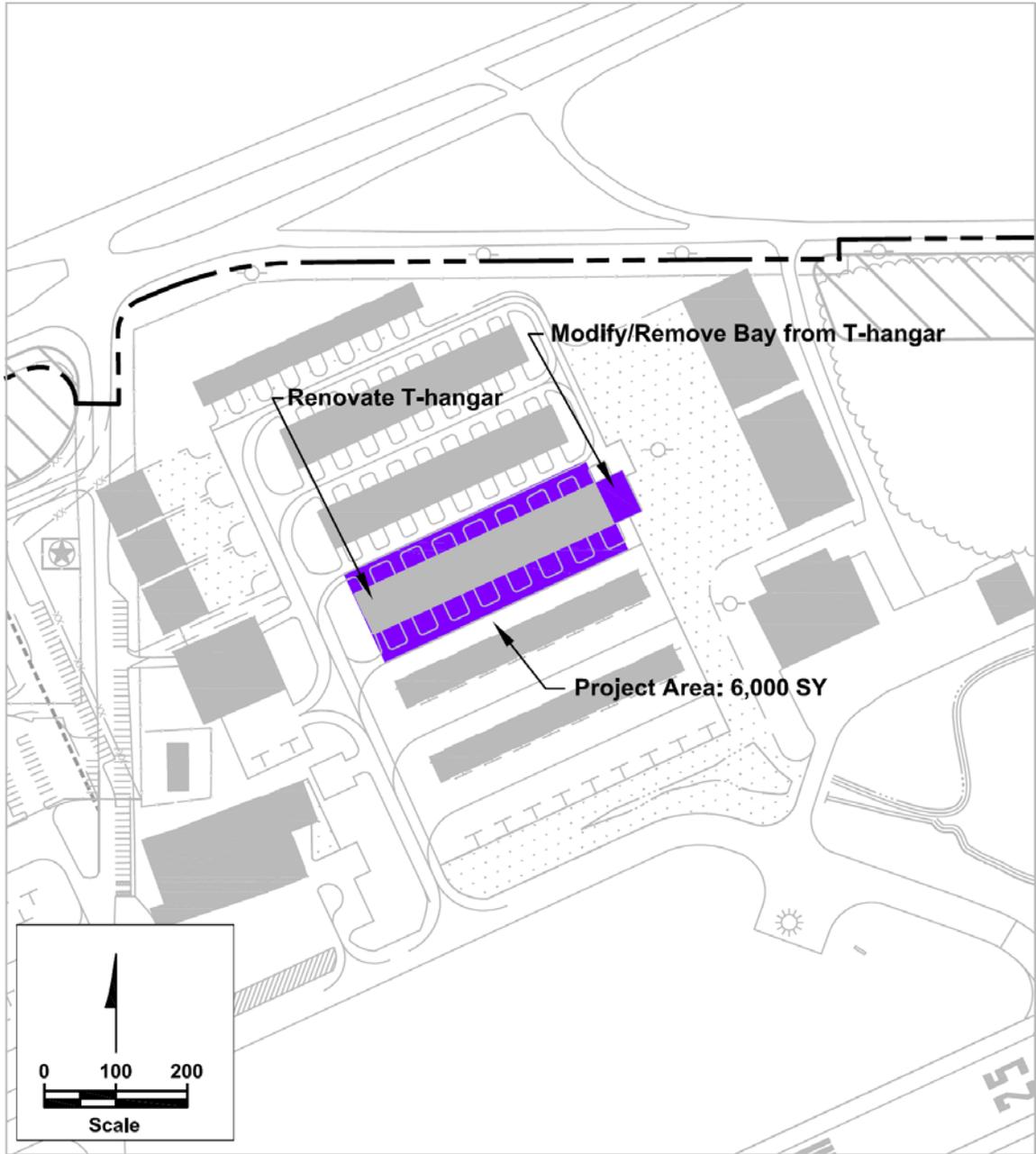
The project is required in order to provide aircraft access to the proposed apron and corporate hangars to be developed on the east side of the North GA development area.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2012	FAA Funding	\$0.00
2012	FDOT Funding	\$125,581
2012	Local Funding	\$125,581
<u>Year Total</u>		<u>\$251,162</u>
Project Total – Federal		\$0.00
Project Total – State		\$125,581
Project Total – Local		\$125,581
Overall Project Total		<u>\$251,162</u>



PRELIMINARY ESTIMATE OF PROJECT COSTS
Herlong Airport - Capital Improvement Program

I-18 Modify/Rehabilitate Existing T-Hangar Approximate Pavement/Bldg Area: 6,000 SF
 CIP Year: 2012

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$21,644.50	\$21,645	
C-2	Erosion and Sediment Control	1.0	LS	\$145.00	\$145	
C-3	Modify/Rehabilitate Existing Hangar	14	Ea	\$10,000.00	140,000	
C-4	Maintenance of Traffic	1.0	LS	\$1,000.00	\$1,000	
<i>Approximate Total Construction Cost:</i>						\$162,790
S-1	Allowance for Permitting Fees				\$5,000.00	
S-2	Engineering	14%			\$22,791.00	
S-3	Inspection & Testing	10%			\$16,279.00	
S-4	Airport Administration	1.5%			\$2,442.00	
<i>Approximate Total Services Cost:</i>						\$46,512
Preliminary Estimate of Project Cost						\$209,302
Contingency		20.0%				\$41,860
PRESENT COST:						\$251,162

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A
UPIN:	PFL0001573	Candidate:	
Airport Project ID:	H2012-7	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2012	National Priority:	
Common Description:	Acquire Runway 25 Avigation Easement (I-15)	Project Type:	Property Acquisition

Project Narrative:

This project includes the acquisition of approximately 1.7 acres of land for an avigation easement for the Runway 25 Runway Protection Zone (RPZ).

Project Justification:

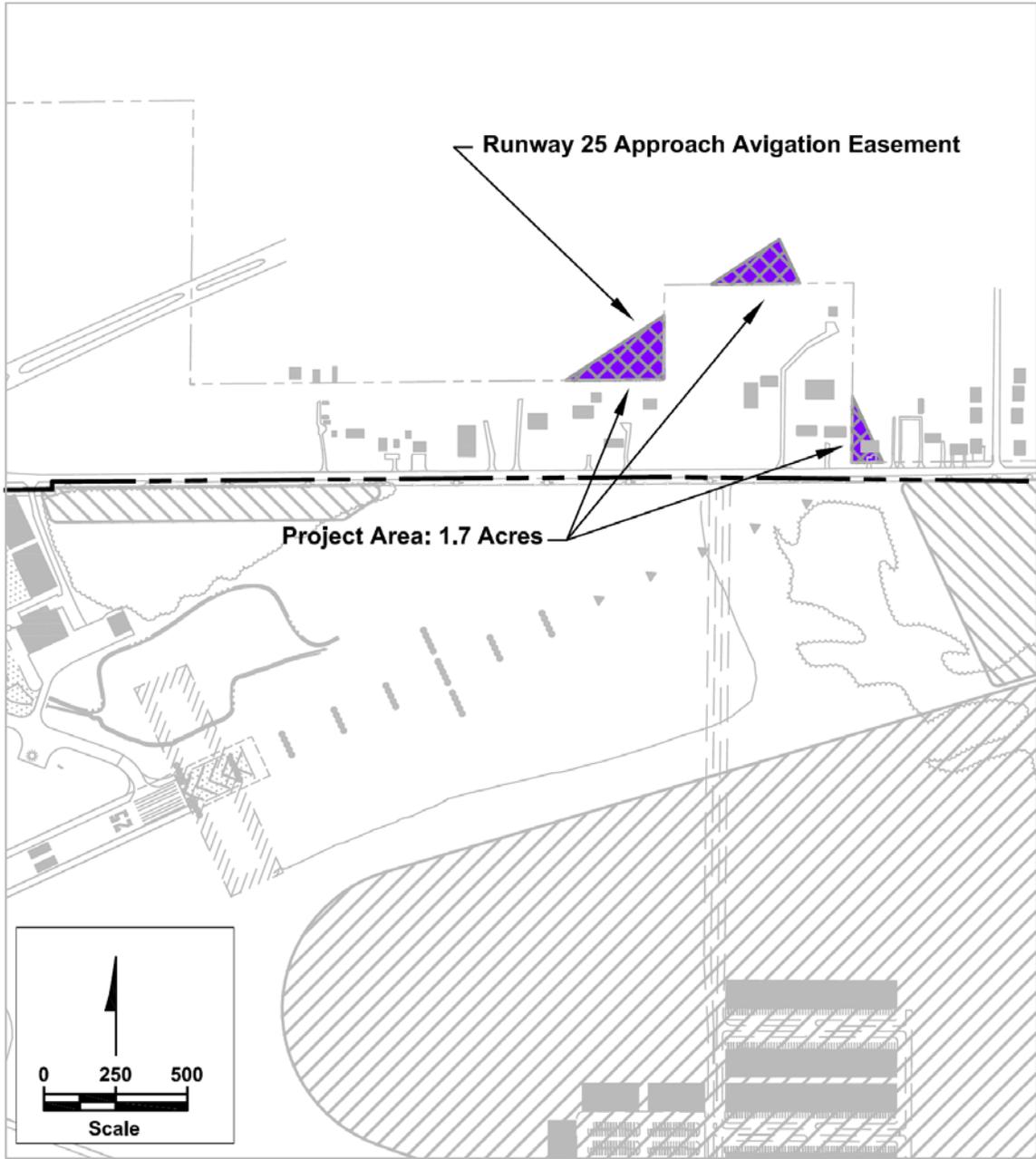
This project is necessary to ensure that development does not occur within the RPZ and to keep clear of potential obstructions for approaching aircraft.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2012	FDOT Funding Match	\$30,000
2012	Local Funding Match	\$30,000
<u>Year Total</u>		<u>\$60,000</u>
Project Total – Federal		\$0.00
Project Total – State		\$30,000
Project Total – Local		\$30,000
Overall Project Total		\$60,000



JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A
UPIN:	PFL0003129	Candidate:	
Airport Project ID:	H2012-10	FDOT Description 2:	
WPI No.:	217003	FDOT Description 3:	
Sponsor Priority:	2012	National Priority:	
Common Description:	South Airfield Utilities (I-17)	Project Type:	Utility Installation

Project Narrative:

This project includes the initial installation of electrical utilities by JEA to the south and midfield areas of the Airport.

Project Justification:

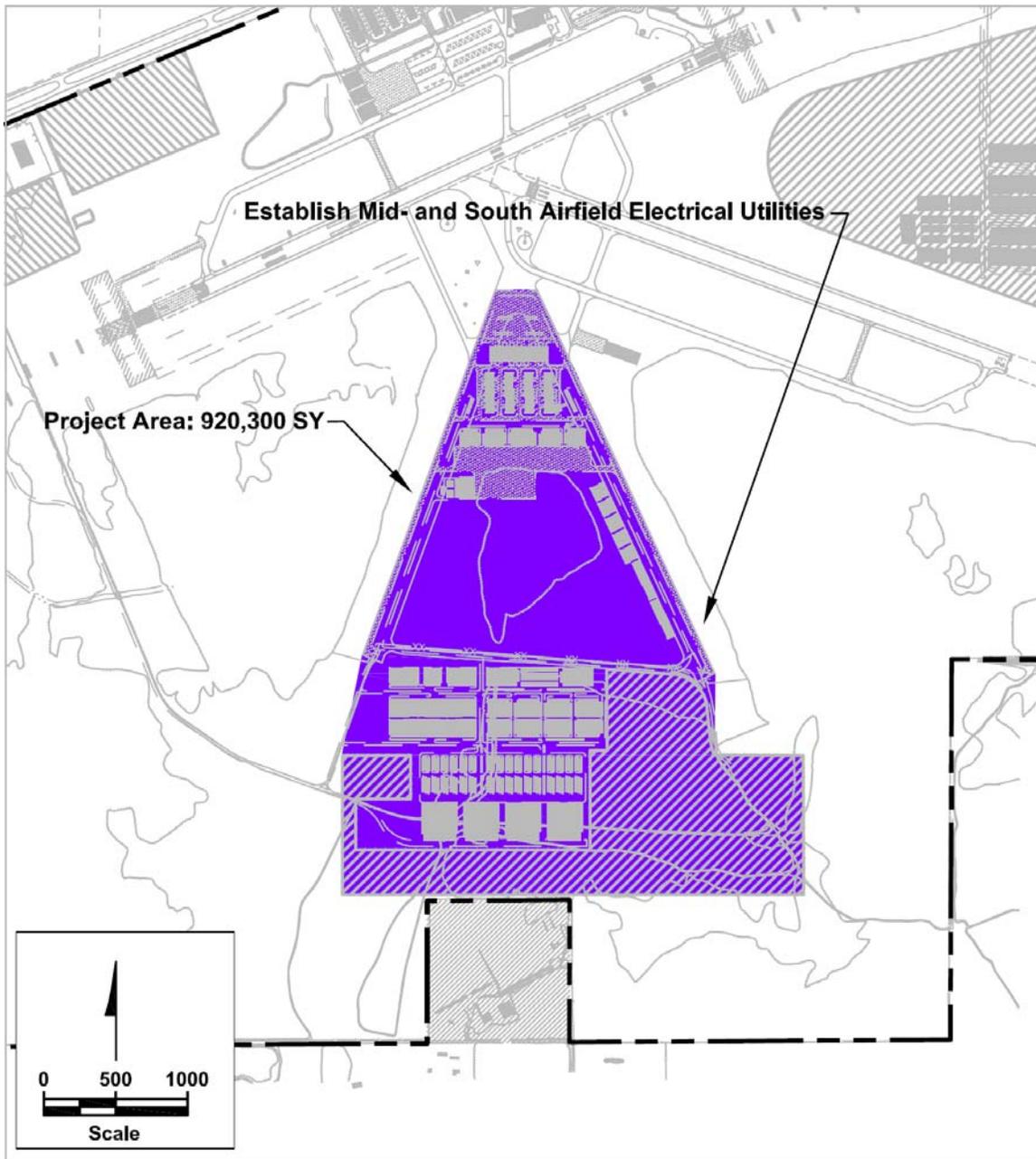
This project is necessary to develop the mid and south development area.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2012	FDOT Funding	\$300,000
2012	Local Match	\$300,000
<u>Year Total</u>		<u>\$600,000</u>
Project Total – Federal		\$0.00
Project Total – State		\$300,000
Project Total – Local		\$300,000
Overall Project Total		\$600,000



JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A
UPIN:	PFL0000990	Candidate:	
Airport Project ID:	H2012-1	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2012	National Priority:	
Common Description:	Design/Construct Taxiway J, formerly "K" (I-10)	Project Type:	Construction

Project Narrative:

Design and construct 19,541 SF taxiway to connect Runway 11-29 to Taxiway D. This project was formerly referred to as the construction of Taxiway "K".

Project Justification:

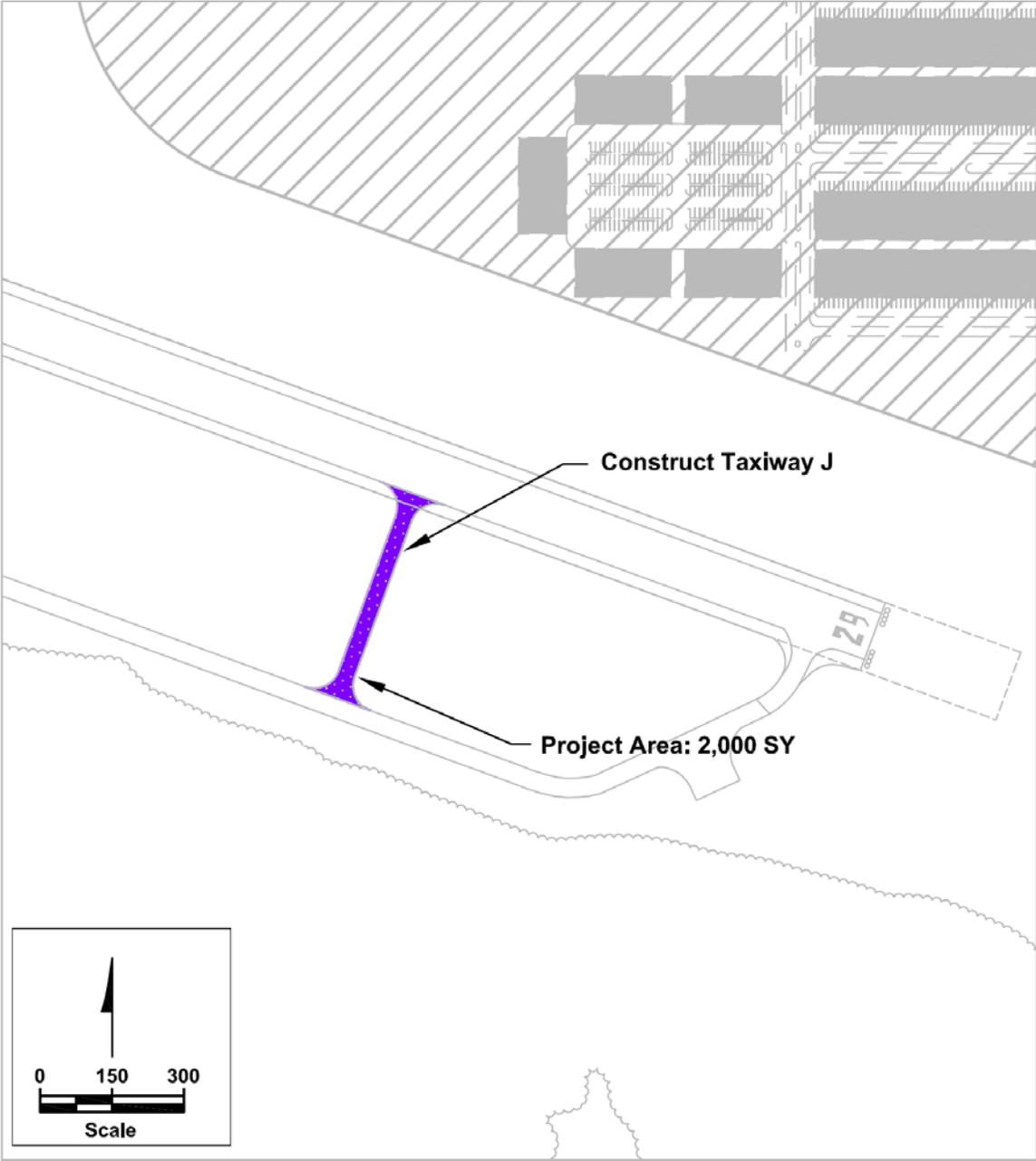
The project is recommended in order to facilitate the expeditious egress of aircraft from the runway environment and provide a direct link to the midfield area of the airport.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2012	FDOT Funding	\$135,605
2012	Local Match	\$135,606
<u>Year Total</u>		\$271,211
Project Total – Federal		\$0.00
Project Total – State		\$135,605
Project Total – Local		\$135,606
Overall Project Total		\$271,211



PRELIMINARY ESTIMATE OF PROJECT COSTS

Herlong Airport - Capital Improvement Program

I-10	Design and Construct Taxiway J	Approximate Pavement/Bldg Area:	2,000	SY
CIP Year: 2012				

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1	LS	\$45,000.00	\$45,000	
C-2	Remove Existing Pavement	633	SY	\$3.00	\$1,900	
C-3	Erosion Control & Pollution Abatement	1	LS	\$1,500.00	\$1,500	
C-4	Unclassified Excavation	3,000	CY	\$7.00	\$21,000	
C-5	12" Subgrade Stabilization	2,775	SY	\$6.50	\$18,038	
C-6	Limerock base course	2,650	SY	\$15.00	\$39,750	
C-7	Bituminous surface course (P-401)	380	TON	\$85.00	\$32,300	
C-8	Bituminous Tack Coat (@ 0.1 GAL/SY)	50	GAL	\$2.50	\$125	
C-9	Bituminous Prime Coat(@ 0.5 GAL/SY)	1,200	GAL	\$2.00	\$2,400	
C-10	Permanent Pavement Markings	1,950	SF	\$2.05	\$3,998	
C-11	30" Class III RCP	144	LF	\$50.00	\$7,200	
C-12	Sodding	12,000	SY	\$3.10	\$37,200	
C-13	Topsoiling (FURNISHED FROM OFF SITE)	1,300	CY	\$20.00	\$26,000	
C-14	FDOT Type D Inlet	2	EA	\$4,000.00	\$8,000	
C-15	2-W 4" SCH 40 PVC Electrical Duct (Spares)	165	LF	\$13.00	\$2,145	

Approximate Total Construction Cost: \$246,555

Preliminary Estimate of Project Cost		\$246,555\$
Contingency	10.0%	\$24,656
		<u>PRESENT COST: \$271,211</u>

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:	PFL0002019	Candidate:	
Airport Project ID:	H2012-4	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2012	National Priority:	
Common Description:	Overlay Taxiways C & D (I-12)	Project Type:	Pavement Overlay and Markings

Project Narrative:

This project consists of the surveying and re-pavement of approximately 30,160 SY of Taxiways C and D.

Project Justification:

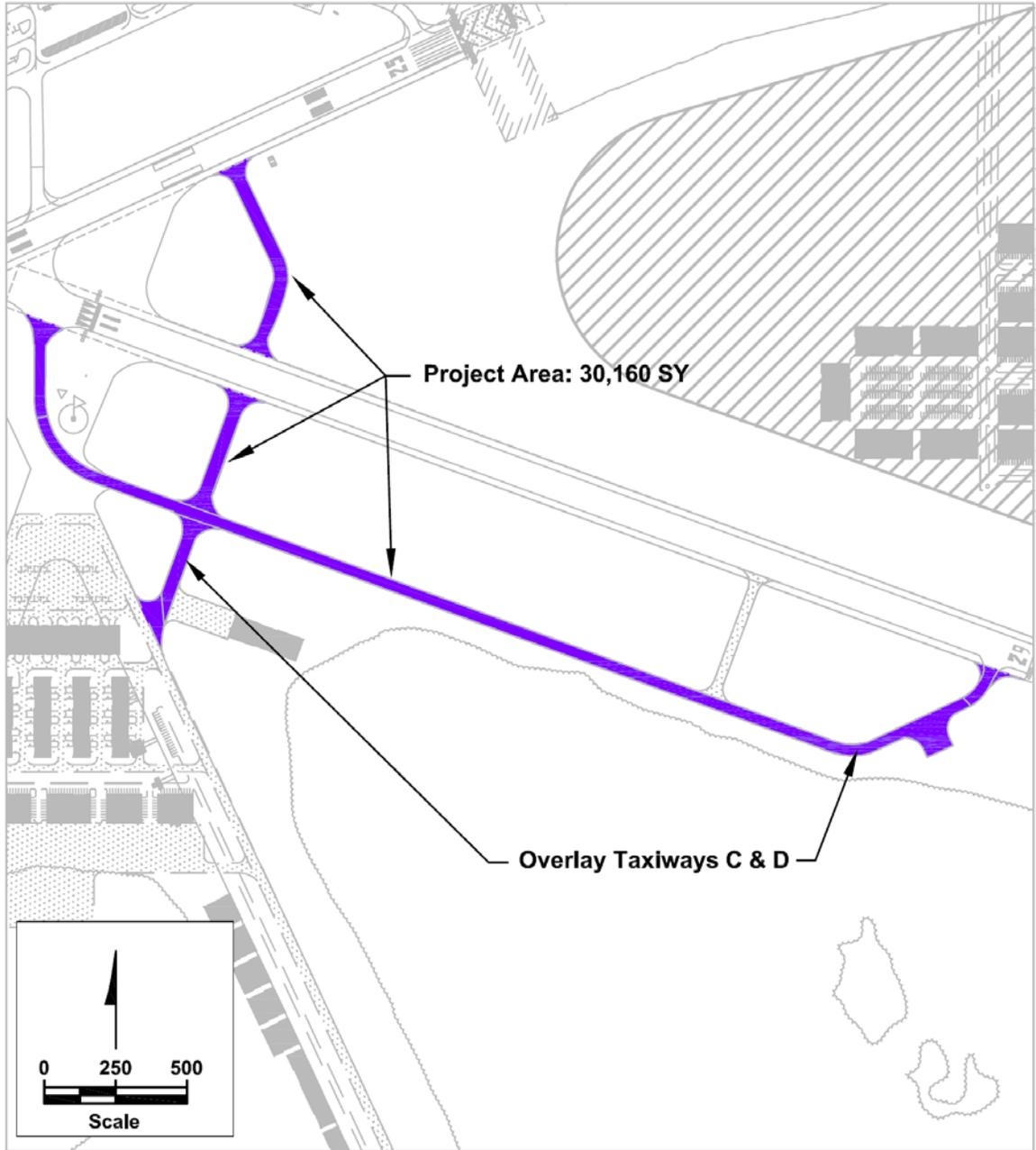
The project is required in order to rehabilitate and patch areas of cracking and spalling on the pavement and ensure the safety of aircraft using the taxiways.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2012	FDOT Match	\$848,460
2012	Local Match	\$848,460
<u>Year Total</u>		<u>\$1,696,920</u>
Project Total – Federal		\$0.00
Project Total – State		\$848,460
Project Total – Local		\$848,460
Overall Project Total		\$1,696,920



PRELIMINARY ESTIMATE OF PROJECT COSTS

Herlong Airport - Capital Improvement Program

I-12 Taxiways C & D Pavement Rehabilitation Approximate Pavement/Bldg Area: 31,518 SY
 CIP Year: 2012

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$97,414.47	\$97,414	
C-2	Erosion and Sediment Control	1.0	LS	\$9,645.00	\$9,645	
C-3	Maintenance of Traffic	1.0	LS	\$3,000.00	\$3,000	
C-4	Embankment/Excavation	10,400.9	CY	\$8.16	\$84,872	
C-5	Miscellaneous Repairs/Patching	1,800.0	SY	\$50.00	\$90,000	
C-6	Pavement Milling (1/2")	31,518.0	SY	\$1.00	\$31,518	
C-7	Bituminous Surface Course (2")	31,518.0	SY	\$17.00	\$535,806	
C-8	Bituminous Prime Coat	31,518.0	SY	\$1.75	\$55,157	
C-9	Pavement Markings	75,000.0	SF	\$1.53	\$114,750	
C-10	Ditch/Shoulder Grading	1.0	LS	\$10,000.00	\$10,000	
C-11	Sodding	15,759.0	SY	\$2.50	\$39,398	

Approximate Total Construction Cost: \$1,071,559

S-1	Surveying & Design Testing	6%			\$64,293.55	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$150,018.28	
S-4	Inspection & Testing	10%			\$107,155.91	
S-5	Airport Administration	1.5%			\$16,073.39	

Approximate Total Services Cost: \$342,541

Preliminary Estimate of Project Cost \$1,414,100

Contingency 20.0% \$282,820

PRESENT COST: \$1,696,920

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A
UPIN:	PFL0004088	Candidate:	
Airport Project ID:	H2013-3	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2013	National Priority:	
Common Description:	Construct 12-Unit T-Hangar North of Terminal (I-24)	Project Type:	Building Construction

Project Narrative:

This project involves the construction of a 12-unit t-hangar on the east side of the North GA area and includes associated drainage and lighting.

Project Justification:

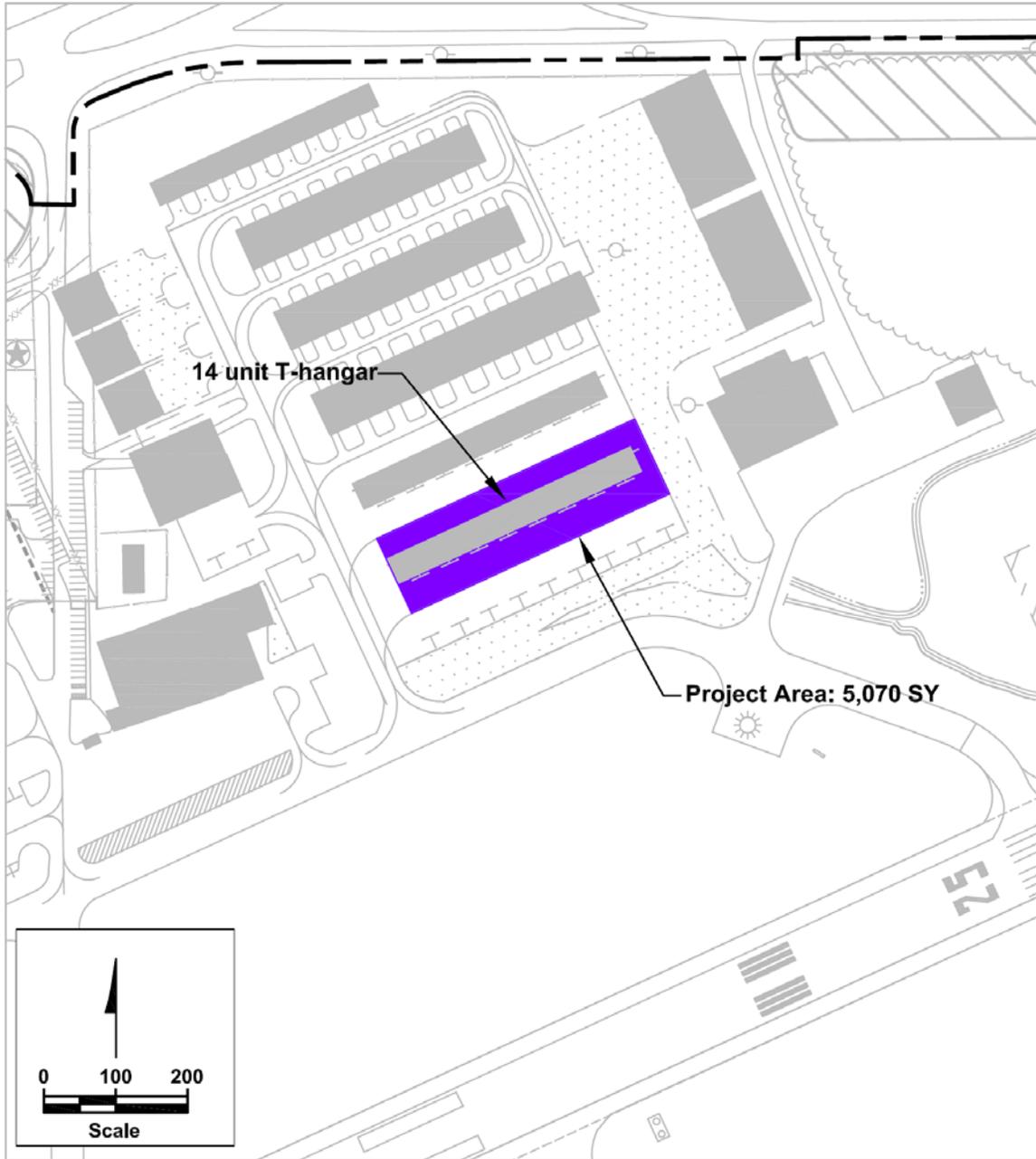
This project is necessary to accommodate future aircraft hangar storage requirements.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2013	FAA Funding	\$0.00
2013	FDOT Funding	\$601,031
2013	Local Match	\$601,031
<u>Year Total</u>		<u>\$1,202,062</u>
Project Total – Federal		\$0.00
Project Total – State		\$601,031
Project Total – Local		\$601,031
Overall Project Total		<u>\$1,202,062</u>



PRELIMINARY ESTIMATE OF PROJECT COSTS
Herlong Airport - Capital Improvement Program

I-24 12-Unit T-Hangar NE Apron Approximate Pavement/Bldg Area: 14 Units
 CIP Year: 2013

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$68,905.50	\$68,906	
C-2	Erosion and Sediment Control	1.0	LS	\$555.00	\$555	
C-3	Construct 14-Unit T-Hangar	14.0	ea	\$45,000.00	\$630,000	
C-4	Maintenance of Traffic	1.0	LS	\$1,000.00	\$1,000	
C-5	Embankment/Excavation	500.0	CY	\$7.00	\$3,500	
C-6	Allowance for Drainage Improvements	1.0	LS	\$5,000.00	\$5,000	
C-7	Allowance for Utility/Hydrant Modifications	1.0	LS	\$25,000.00	\$25,000	
C-8	Allowance for Area Lighting	1.0	LS	\$5,000.00	\$5,000	
C-9	Vehicular Signage	1.0	LS	\$1,000.00	\$1,000	
C-10	Allowance for Curb/Gutter Improvements	1.0	LS	\$0.00	\$0	
C-11	Landscaping allowance	1.0	LS	\$15,000.00	\$15,000	
C-12	Allowance for Sidewalk Improvements	1.0	LS	\$3,000.00	\$3,000	
<i>Approximate Total Construction Cost:</i>						\$757,961
S-1	Surveying & Design Testing	6%			\$45,477.63	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$106,114.47	
S-4	Inspection & Testing	10%			\$75,796.05	
S-5	Airport Administration	1.5%			\$11,369.41	
<i>Approximate Total Services Cost:</i>						\$243,758
Preliminary Estimate of Project Cost						\$1,001,718
Contingency		20.0%				\$200,344
PRESENT COST:						\$1,202,062

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:		Candidate:	
Airport Project ID:	H2013-6	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2013	National Priority:	
Common Description:	Install MALSR on Runway 25 (I-27)	Project Type:	Approach Lighting System

Project Narrative:

This project consists of the construction of a medium-intensity approach lighting system with runway alignment indicator lights (MALSR) to Runway 25.

Project Justification:

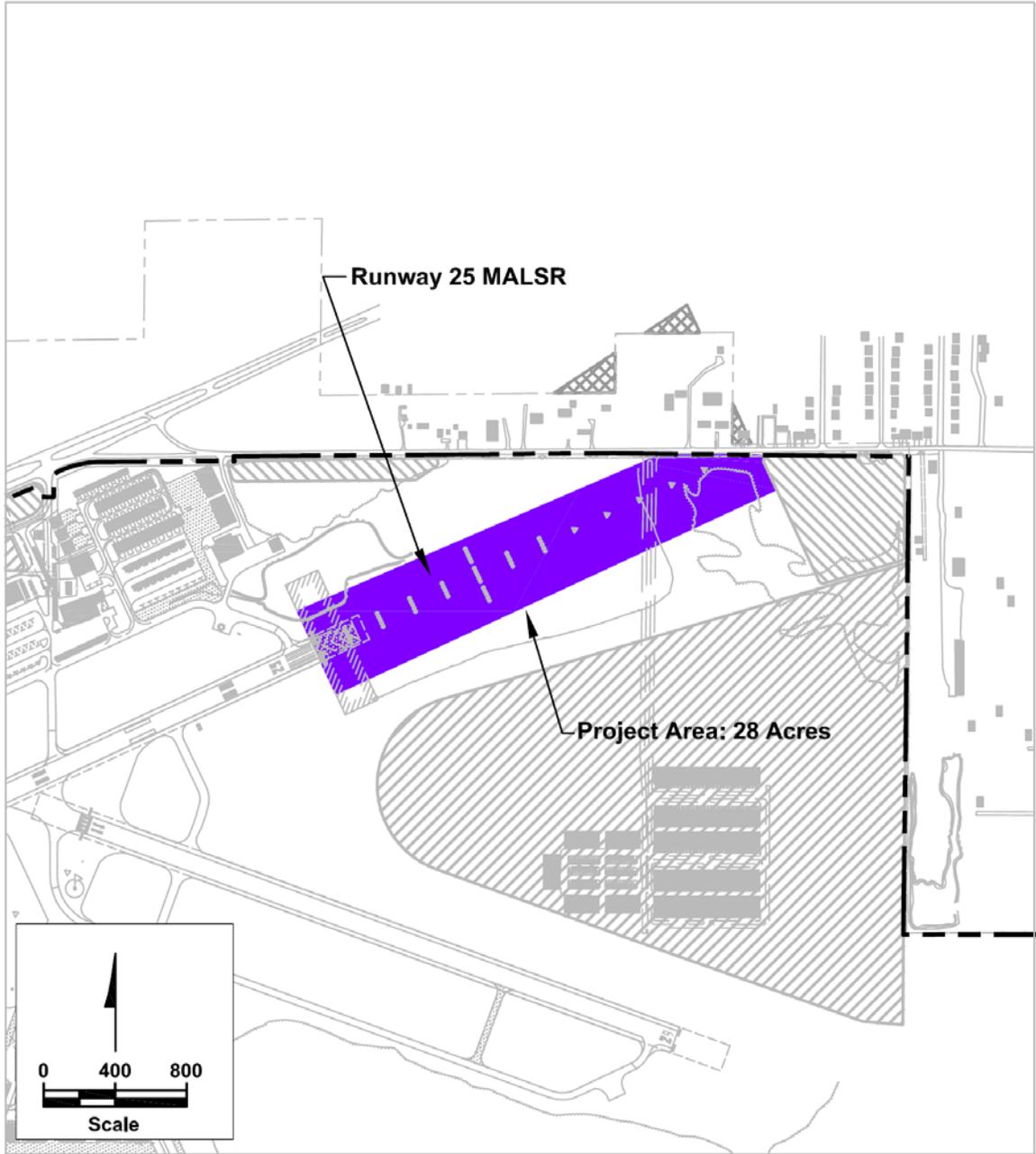
The project is recommended in order to provide aircraft better visual identification of Runway 25 under poor weather conditions and when operating under IFR.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2013	FAA Funding	\$0.00
2013	FDOT Funding	\$222,145
2013	Local Match	\$222,145
<u>Year Total</u>		<u>\$444,290</u>
Project Total – Federal		\$0.00
Project Total – State		\$222,145
Project Total – Local		\$222,145
Overall Project Total		<u>\$444,290</u>



PRELIMINARY ESTIMATE OF PROJECT COSTS**Herlong Airport - Capital Improvement Program**

I-27 Install MALSR on Runway 25

Approximate Pavement/Bldg Area:

1 LS

CIP Year: 2013

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$25,250.00	\$25,250	
C-2	Erosion and Sediment Control	1.0	LS	\$2,500.00	\$2,500	
C-3	Install MALSR	1.0	LS	\$250,000.00	\$250,000	
<i>Approximate Total Construction Cost:</i>						\$277,750
S-1	Surveying & Design Testing	6%			\$16,665.00	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$38,885.00	
S-4	Inspection & Testing	10%			\$27,775.00	
S-5	Airport Administration	1.5%			\$4,166.25	
<i>Approximate Total Services Cost:</i>						\$92,491
Preliminary Estimate of Project Cost						\$370,241
Contingency 20.0%						\$74,048
PRESENT COST:						\$444,290

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A
UPIN:	PFL0002020	Candidate:	
Airport Project ID:	H2013-2	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2013	National Priority:	
Common Description:	Overlay East Apron (I-23)	Project Type:	Construction

Project Narrative:

This project includes the pavement overlay of approximately 9,600 SY of the east general aviation apron and associated markings.

Project Justification:

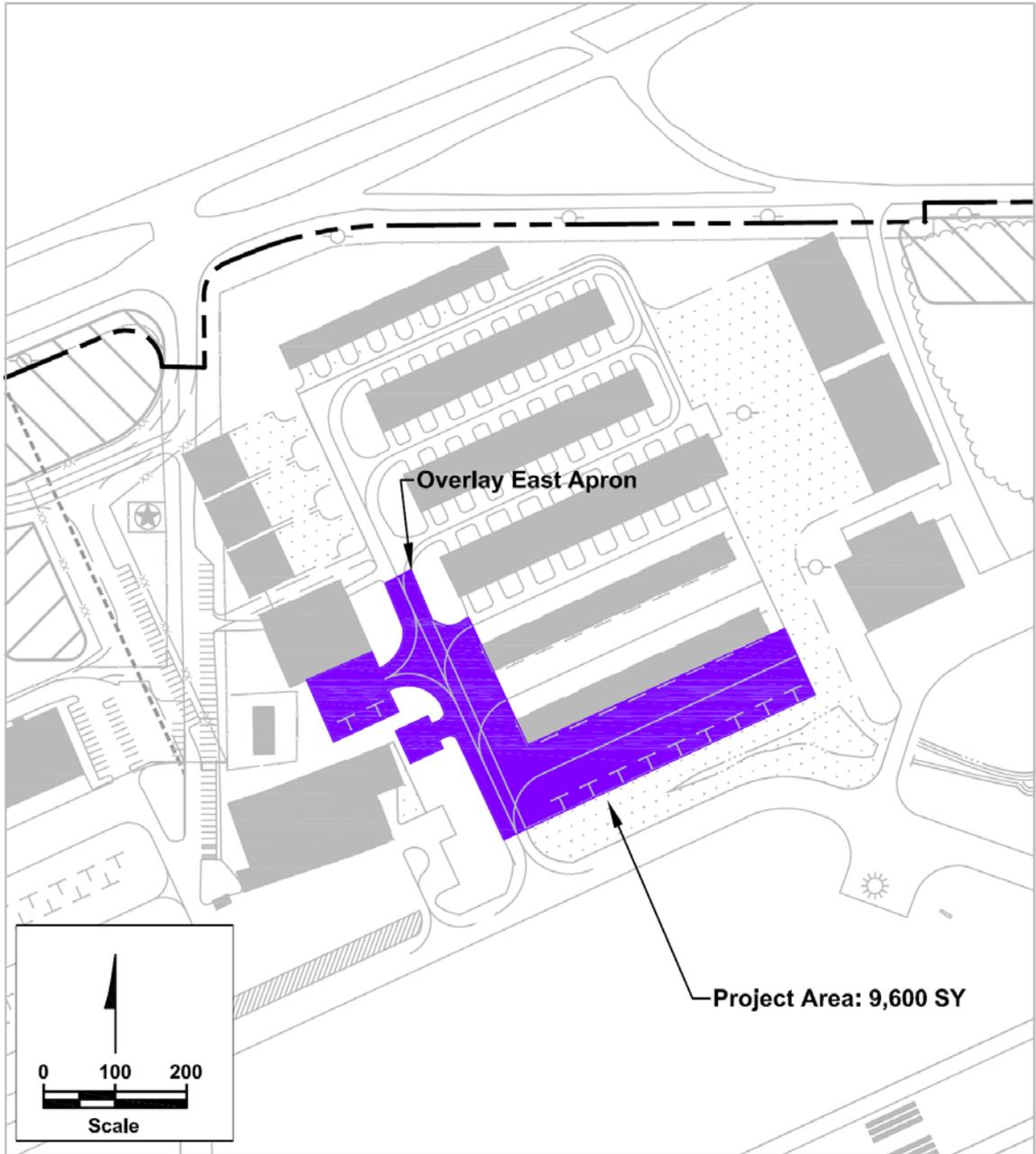
This project is necessary to prevent cracks in and spalling of the pavement and to ensure the safe and expeditious movement of aircraft.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2013	FAA Funding - Discretionary	\$0.00
2013	FDOT Match	\$230,646
2013	Local Match	\$230,646
<u>Year Total</u>		\$461,292
Project Total – Federal		\$0.00
Project Total – State		\$230,646
Project Total – Local		\$230,646
Overall Project Total		\$461,292



PRELIMINARY ESTIMATE OF PROJECT COSTS
Herlong Airport - Capital Improvement Program

I-23 Overlay East Apron Approximate Pavement/Bldg Area: 9,600 SY
 CIP Year: 2013

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$34,148.19	\$34,148	
C-2	Erosion and Sediment Control	1.0	LS	\$3,381.01	\$3,381	
C-3	Maintenance of Traffic	1.0	LS	\$3,000.00	\$3,000	
C-4	Embankment/Excavation	3,168.0	CY	\$8.16	\$25,851	
C-5	Miscellaneous Repairs/Patching	1,800.0	SY	\$50.00	\$90,000	
C-6	Pavement Milling (1/2")	9,600.0	SY	\$1.00	\$9,600	
C-7	Bituminous Surface Course (2")	9,600.0	SY	\$17.00	\$163,200	
C-8	Bituminous Prime Coat	9,600.0	SY	\$1.75	\$16,800	
C-9	Pavement Markings	5,000.0	SF	\$1.53	\$7,650	
C-10	Ditch/Shoulder Grading	1.0	LS	\$10,000.00	\$10,000	
C-11	Sodding	4,800.0	SY	\$2.50	\$12,000	
<i>Approximate Total Construction Cost:</i>						\$375,630
S-1	Surveying & Design Testing	6%			\$720.00	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$1,680.00	
S-4	Inspection & Testing	10%			\$1,200.00	
S-5	Airport Administration	1.5%			\$180.00	
<i>Approximate Total Services Cost:</i>						\$8,780
Preliminary Estimate of Project Cost						\$384,410
Contingency		20.0%				\$76,882
PRESENT COST:						\$461,292

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A
UPIN:	PFL0002031	Candidate:	
Airport Project ID:	H2013-X	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2013	National Priority:	
Common Description:	Overlay West (Transient) Apron (I-29)	Project Type:	Construction

Project Narrative:

This project includes the pavement overlay of approximately 26,360 SY of the west general aviation apron and associated markings.

Project Justification:

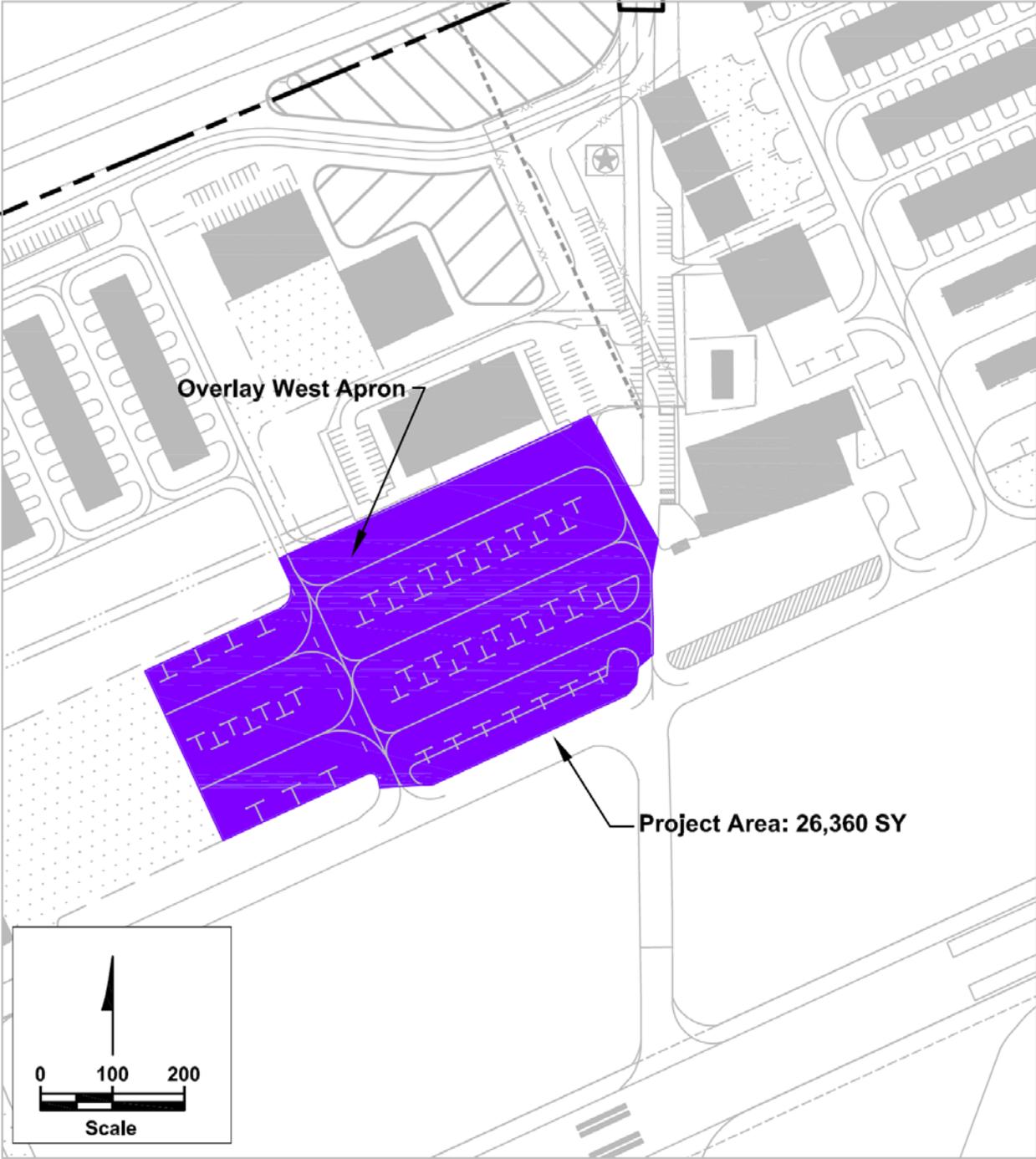
This project is necessary to prevent cracks in and spalling of the pavement and to ensure the safe and expeditious movement of aircraft.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2013	Federal Match - Discretionary	\$0.00
2013	FDOT Match	\$499,307
2013	Local Match	\$499,307
<u>Year Total</u>		<u>\$998,613</u>
Project Total – Federal		\$0.00
Project Total – State		\$499,307
Project Total – Local		\$499,307
Overall Project Total		<u>\$998,613</u>



PRELIMINARY ESTIMATE OF PROJECT COSTS
Herlong Airport - Capital Improvement Program

I-29 Overlay West (Transient) Apron Approximate Pavement/Bldg Area: 26,360 SY
 CIP Year: 2013

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$74,254.41	\$74,254	
C-2	Erosion and Sediment Control	1.0	LS	\$7,351.92	\$7,352	
C-3	Maintenance of Traffic	1.0	LS	\$3,000.00	\$3,000	
C-4	Embankment/Excavation	8,698.8	CY	\$8.16	\$70,982	
C-5	Miscellaneous Repairs/Patching	1,800.0	SY	\$50.00	\$90,000	
C-6	Pavement Milling (1/2")	26,360.0	SY	\$1.00	\$26,360	
C-7	Bituminous Surface Course (2")	26,360.0	SY	\$17.00	\$448,120	
C-8	Bituminous Prime Coat	26,360.0	SY	\$1.75	\$46,130	
C-9	Pavement Markings	5,000.0	SF	\$1.53	\$7,650	
C-10	Ditch/Shoulder Grading	1.0	LS	\$10,000.00	\$10,000	
C-11	Sodding	13,180.0	SY	\$2.50	\$32,950	

Approximate Total Construction Cost: \$816,799

S-1	Surveying & Design Testing	6%			\$1,977.00	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$4,613.00	
S-4	Inspection & Testing	10%			\$3,295.00	
S-5	Airport Administration	1.5%			\$494.25	

Approximate Total Services Cost: \$15,379

Preliminary Estimate of Project Cost \$832,178

Contingency 20% \$166,436

PRESENT COST: \$998,613

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:		Candidate:	
Airport Project ID:	H2013-2	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2013	National Priority:	
Common Description:	Replace MIRL with HIRL on Runway 7-25 (I-22)	Project Type:	Runway Lighting Improvements

Project Narrative:

This project consists of the replacement and relocation of medium intensity runway edge lights (MIRL) with high intensity runway edge lights (HIRL).

Project Justification:

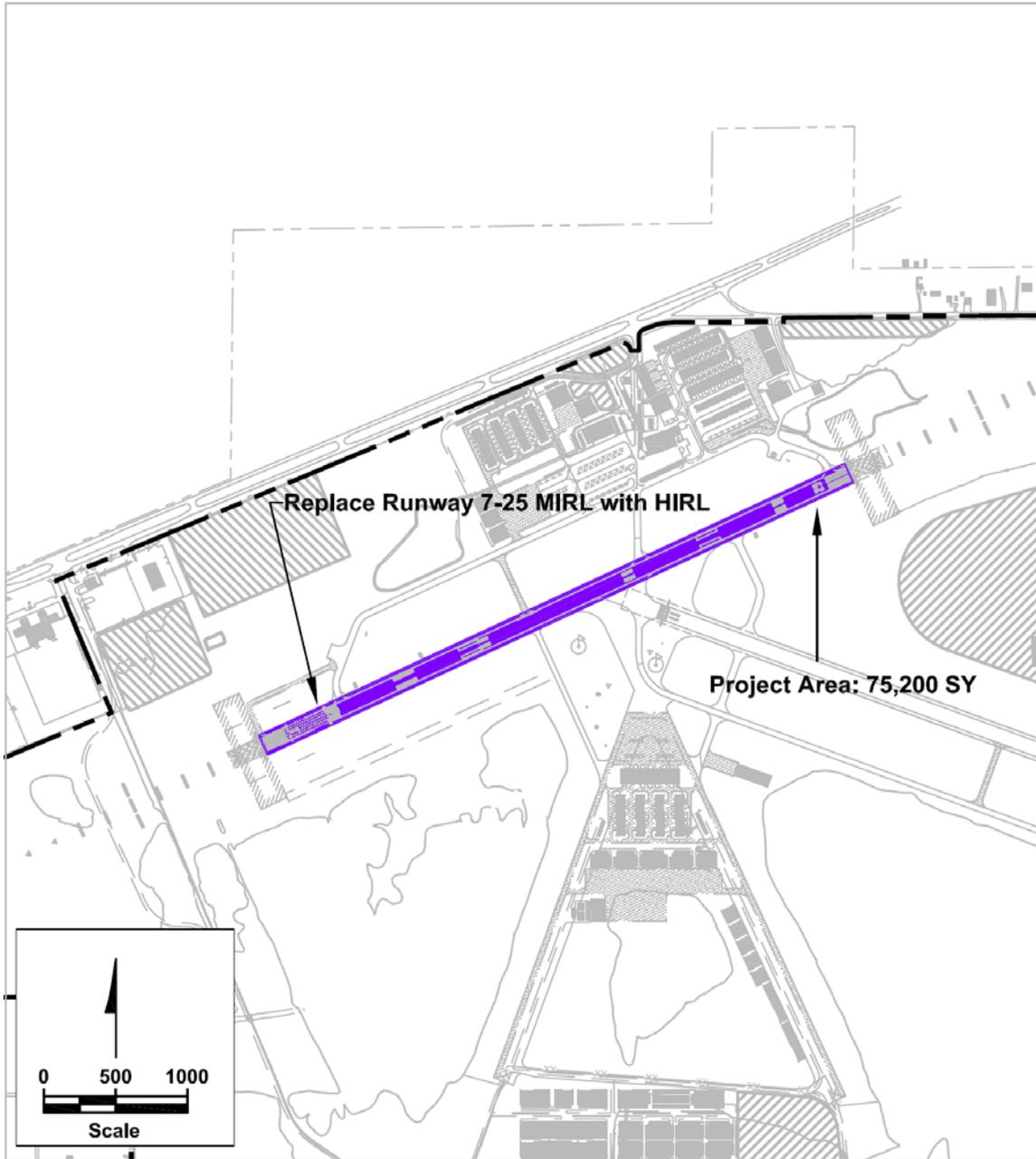
The project is recommended to provide enhanced identification of runway edges, especially during IFR.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2013	FAA-Discretionary Funding	\$259,634
2013	FDOT Match	\$14,424
2013	Local Match	\$14,424
<u>Year Total</u>		<u>\$288,482</u>
Project Total – Federal		\$259,634
Project Total – State		\$14,424
Project Total – Local		\$14,424
Overall Project Total		<u>\$288,482</u>



PRELIMINARY ESTIMATE OF PROJECT COSTS

Herlong Airport - Capital Improvement Program

I-22 Replace MIRL with HIRL on Runway 7-25 Approximate Pavement/Bldg Area: 1 LS
 CIP Year: 2013

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$16,273.88	\$16,274	
C-2	Erosion and Sediment Control	1.0	LS	\$1,363.75	\$1,364	
C-3	Maintenance of Traffic	1.0	LS	\$25,000.00	\$25,000	
C-4	Lights	60.0	ea	\$650.00	\$39,000	
C-5	Cable	11,250.0	LF	\$1.00	\$11,250	
C-6	Trench and Conduit	11,250.0	LF	\$2.50	\$28,125	
C-7	Signage	16.0	ea	\$3,000.00	\$48,000	
C-8	Regulator and Vault Work	1.0	LS	\$10,000.00	\$10,000	
					<i>Approximate Total Construction Cost:</i>	\$179,013
S-1	Surveying & Design Testing	6%			\$10,740.76	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$25,061.77	
S-4	Inspection & Testing	10%			\$17,901.26	
S-5	Airport Administration	1.5%			\$2,685.19	
					<i>Approximate Total Services Cost:</i>	\$61,389
Preliminary Estimate of Project Cost						\$240,402
Contingency					20.0%	\$48,080
					PRESENT COST:	\$288,482

Source: The LPA Group, Inc. 2006

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:		Candidate:	
Airport Project ID:	H2013-4	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2013	National Priority:	
Common Description:	7-25 Marking Removal and Remarking (I-25)	Project Type:	Removal/Remarking

Project Narrative:

This project includes the marking removal and remarking of approximately 50,000 SY of pavement on Runway 7-25.

Project Justification:

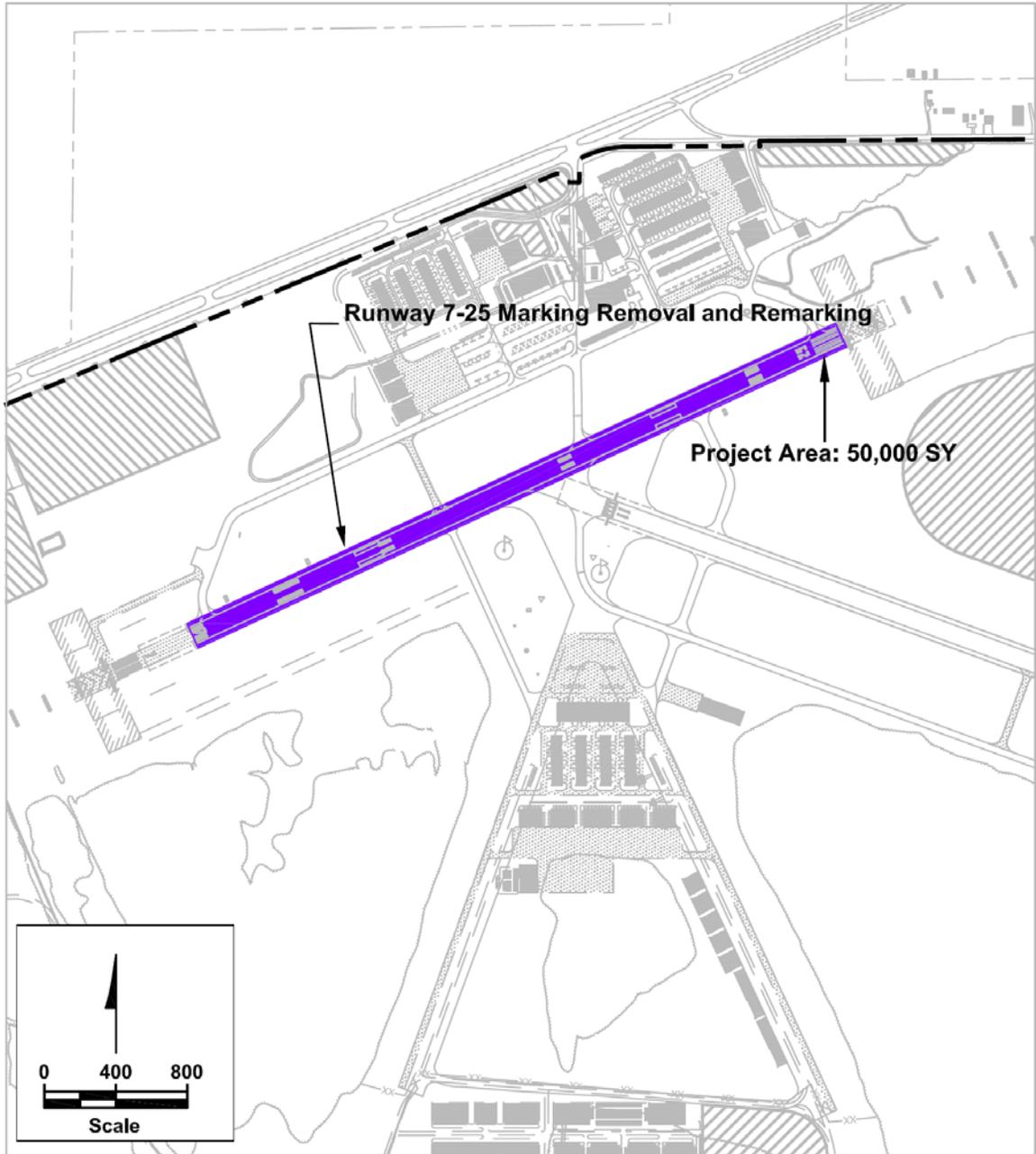
This project is necessary to ensure positive visual identification of runway markings and the safe movement of aircraft to/from the runway environment.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2013	FAA Funding	\$0.00
2013	FDOT Funding	\$171,295
2013	Local Funding	\$171,295
<u>Year Total</u>		\$342,591
Project Total – Federal		\$0.00
Project Total – State		\$171,295
Project Total – Local		\$171,295
Overall Project Total		\$342,591



PRELIMINARY ESTIMATE OF PROJECT COSTS
Herlong Airport - Capital Improvement Program

I-25 Runway 7-25, Marking Removal and
 Remarking
 CIP Year: 2013

Approximate Pavement/Bldg Area: 74,700 LF

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Total Cost</u>
C-1	Mobilization	1.0	LS	\$19,391.09	\$19,391	
C-2	Erosion and Sediment Control	1.0	LS	\$1,919.91	\$1,920	
C-3	Maintenance of Traffic	1.0	LS	\$3,000.00	\$3,000	
C-4	Remove Existing Markings	74,700.0	LF	\$1.00	\$74,700	
C-5	Pavement Markings	74,700.0	LF	\$1.53	\$114,291	
<i>Approximate Total Construction Cost:</i>						\$213,302
S-1	Surveying & Design Testing	6%			\$12,798.12	
S-2	Allowance for Permitting Fees				\$5,000.00	
S-3	Engineering	14%			\$29,862.28	
S-4	Inspection & Testing	10%			\$21,330.20	
S-5	Airport Administration	1.5%			\$3,199.53	
<i>Approximate Total Services Cost:</i>						\$72,190
Preliminary Estimate of Project Cost						\$285,492
Contingency		20.0%				\$57,098
Source: The LPA Group, Inc. 2006						PRESENT COST: \$342,591

JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A
UPIN:	PFL0001572	Candidate:	
Airport Project ID:	H2013-7	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2013	National Priority:	
Common Description:	Acquire Runway 7 Avigation Easement (I-28)	Project Type:	Property Acquisition

Project Narrative:

This project includes the acquisition of approximately 9.7 acres of land (at approximately \$30,000 per acre) for an avigation easement for the Runway 7 Runway Protection Zone (RPZ).

Project Justification:

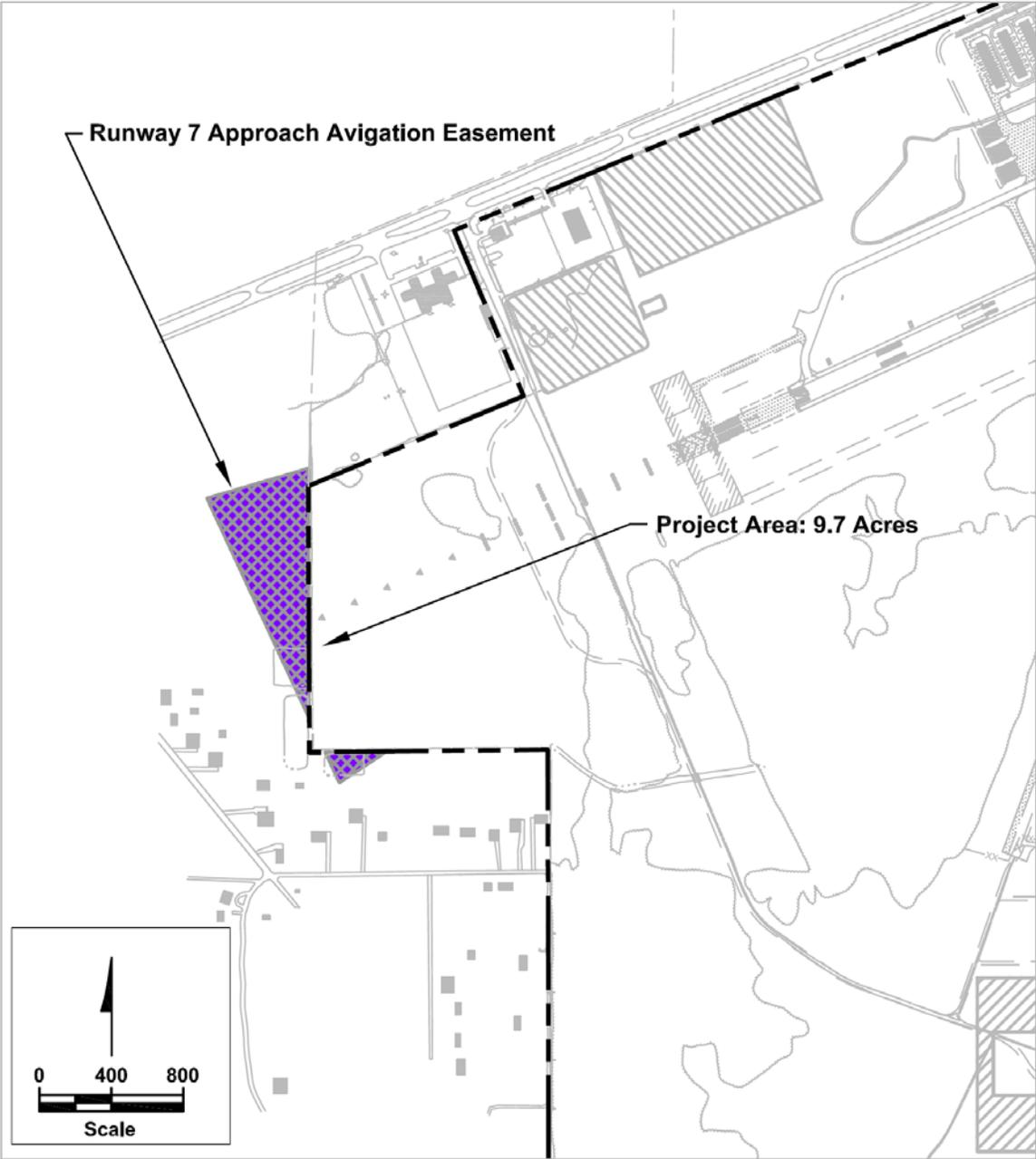
This project is necessary to ensure that development does not occur within the RPZ and to keep clear of potential obstructions for approaching aircraft.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2013	Federal Funding	\$0.00
2013	FDOT Funding	\$135,000
2013	Local Funding Match	\$135,000
<u>Year Total</u>		<u>\$270,000</u>
Project Total – Federal		\$0.00
Project Total – State		\$135,000
Project Total – Local		\$135,000
Overall Project Total		<u>\$270,000</u>



JACIP – AIRPORT PROJECT DETAIL REPORT

Airport:	Herlong Airport	NPIAS No.:	12-0034
Sponsor:	Jacksonville Aviation Authority	Airport ID:	HEG
Sponsor ID:	1204	Site No.:	03250.*A

UPIN:	PFL0003224	Candidate:	
Airport Project ID:	H2013-2	FDOT Description 2:	
WPI No.:		FDOT Description 3:	
Sponsor Priority:	2013	National Priority:	
Common Description:	Construct Taxiway E, with lights (I-21)	Project Type:	Taxiway

Project Narrative:

This project consists of the design and construction of 19,541 SF (2,180 SY) of taxiway connecting Runway 7-25 with parallel Taxiway A.

Project Justification:

The project is recommended in order to facilitate the expeditious egress of aircraft from the runway environment and provide a direct link to the midfield area of the airport.

Airport Notes:

FDOT Notes:

Airport Sponsor Request:

<u>Sponsor Year</u>	<u>Source</u>	<u>Amount</u>
2013	FAA Match - GA Entitlement	\$150,000
2013	FDOT Match	\$60,606
2013	Local Match	\$60,605
<u>Year Total</u>		<u>\$271,211</u>
Project Total – Federal		\$150,000
Project Total – State		\$60,606
Project Total – Local		\$60,605
Overall Project Total		<u>\$271,211</u>

