



**TULSA AIRPORTS
IMPROVEMENT TRUST
RVS
FIVE-YEAR CAPITAL
IMPROVEMENT PLAN**

ADOPTED

FY 2011 - 2015

TULSA AIRPORTS IMPROVEMENT TRUST
CAPITAL IMPROVEMENT PROJECT
SUMMARY
FISCAL YEAR(S) 2011-2015

Project	Funding Source	FY2011	FY2012	FY2013	FY2014	FY2015	FY
							2011-2015 Total
1 Rehabilitate Perimeter Road	TAIT	5					5
	State						0
	FAA(E)	100					100
	FAA(SA)						0
	FAA(D)						0
	Other						0
	Total		105	0	0	0	0
2 Upgrade Airfield Guidance Signage	TAIT	3	86				89
	State		135				135
	FAA(E)	50	150				200
	FAA(SA)		600				600
	FAA(D)		600				600
	Other						0
	Total		53	1,571	0	0	0
3 Strengthen Taxiway "F"	TAIT			8			8
	State						0
	FAA(E)			150			150
	FAA(SA)						0
	FAA(D)						0
	Other						0
	Total		0	0	158	0	0
4 Extend Runway 13/31	TAIT			5	45		50
	State						0
	FAA(E)						0
	FAA(SA)						0
	FAA(D)			95	830		925
	Other						0
	Total		0	0	100	875	0
5 Widen Runway 13/31	TAIT			4	35		39
	State						0
	FAA(E)						0
	FAA(SA)						0
	FAA(D)			76	660		736
	Other						0
	Total		0	0	80	695	0
6 Install PAPI's Runway 13/31	TAIT				3		3
	State						0
	FAA(E)						0
	FAA(SA)				47		47
	FAA(D)						0
	Other						0
	Total		0	0	0	50	0

•All figures indicated in thousands - funding sources defined on last page of this section.

ADOPTED 2/11/10

TULSA AIRPORTS IMPROVEMENT TRUST
CAPITAL IMPROVEMENT PROJECT
SUMMARY
FISCAL YEAR(S) 2011-2015

Project	Funding Source	FY2011	FY2012	FY2013	FY2014	FY2015	FY 2011-2015
7 Rehabilitate Runway 13/31	TAIT			4	40		44
	State						0
	FAA(E)						0
	FAA(SA)						0
	FAA(D)			76	730		806
	Other						0
	Total		0	0	80	770	0
8 Construct Taxiway A3	TAIT			3	20		23
	State						0
	FAA(E)						0
	FAA(SA)						0
	FAA(D)			47	380		427
	Other						0
	Total		0	0	50	400	0
9 Construct Utilities (sewer) Southwest Commercial Area	TAIT			425			425
	State						0
	FAA(E)						0
	FAA(SA)						0
	FAA(D)						0
	Other						0
	Total		0	0	425	0	0
10 Rehabilitate Access Roads	TAIT				8		8
	State						0
	FAA(E)				150		150
	FAA(SA)						0
	FAA(D)						0
	Other						0
	Total		0	0	0	158	0
11 Rehabilitate Runway 1L/19R	TAIT				5	80	85
	State						0
	FAA(E)						0
	FAA(SA)				105	1,470	1,575
	FAA(D)						0
	Other						0
	Total		0	0	0	110	1,550
12 Rehabilitate Runway 1R/19L	TAIT				5	60	65
	State						0
	FAA(E)						0
	FAA(SA)				85	1,190	1,275
	FAA(D)						0
	Other						0
	Total		0	0	0	90	1,250

•All figures indicated in thousands - funding sources defined on last page of this section.

ADOPTED 2/11/10

TULSA AIRPORTS IMPROVEMENT TRUST
CAPITAL IMPROVEMENT PROJECT
SUMMARY
FISCAL YEAR(S) 2011-2015

Project	Source	FY2011	FY2012	FY2013	FY2014	FY2015	2011-2015 Total
13 Improve Drainage	TAIT					3	3
	State						0
	FAA(E)					50	50
	FAA(SA)						0
	FAA(D)						0
	Other						0
	Total	0	0	0	0	53	53
14 GIS Survey, Runway 1L/19R	TAIT					5	5
	State						0
	FAA(E)					100	100
	FAA(SA)						0
	FAA(D)						0
	Other						0
	Total	0	0	0	0	105	105
TOTAL CIP		158	1,571	893	3,148	2,958	8,728
FUNDING SOURCE	TAIT	8	86	449	161	148	852
	State	0	135	0	0	0	135
	FAA(E)	150	150	150	150	150	750
	FAA(SA)	0	600	0	237	2,660	3,497
	FAA(D)	0	600	294	2,600	0	3,494
	Other	0	0	0	0	0	0
	Total	158	1,571	893	3,148	2,958	8,728

NOTES:

- Budget estimates have been escalated to the year in which they are listed.

FUNDING SOURCES DEFINED:

TAIT(GEN) - TULSA AIRPORTS IMPROVEMENT TRUST - General Fund.

STATE - STATE GRANTS

FAA (E) - GRANT-IN-AID - Entitlement Funds.

FAA (D) - GRANT-IN-AID - Discretionary Funds

FAA (SA) - GRANT-IN-AID - Oklahoma State Apportionment

OTHER - Revenue or Special Facility Bonds

1. Rehabilitate Perimeter Road

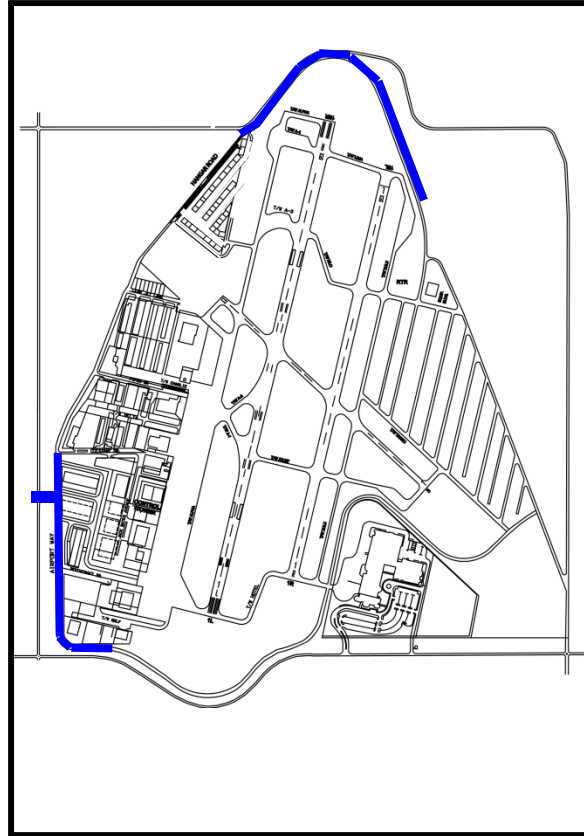
LOCATION MAP:

DESCRIPTION:

This project will rehabilitate roadways throughout the airport.

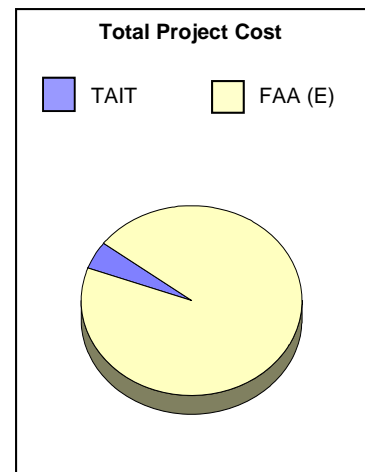
JUSTIFICATION:

These pavements are experiencing deterioration due to age and drainage problems. Rehabilitation and some full depth reconstruction are necessary to ensure adequate, safe access to private hangars and commercial operations.



***Total Project Cost = \$105**

* FUNDING / EXPENSE DETAIL	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	TOTALS
TAIT	5					5
STATE						-
FAA (E)	100					100
FAA (SA)						-
FAA (D)						-
OTHER						-
TOTAL	105	-	-	-	-	105



* All figures indicated in thousands

2. Upgrade Airfield Guidance Signage

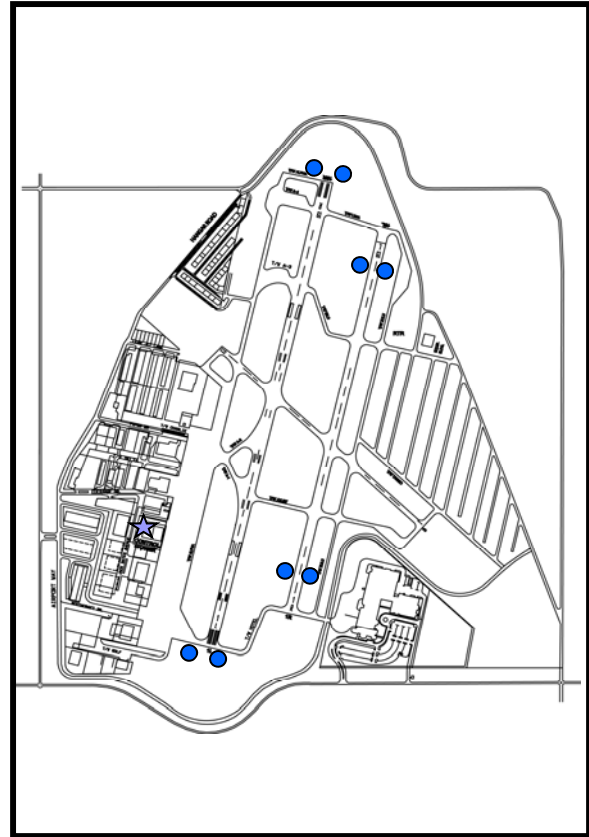
DESCRIPTION:

This project will upgrade the airfield guidance signage to current FAA standards; install Runway End Identifier Lights (REIL) on both ends of Runway 1L/19R; replace the existing Visual Approach Slope Indicator (VASI) lights with Precision Approach Path Indicator (PAPI) lights on Runway 1R/19L; and relocate the airport beacon from its existing location to a site adjacent to the west side of the ATCT. Electrical power lines from the vault to the signs will be replaced and new transformers will be added to accommodate the additional electrical demand. "Distance To Go" signs will be added to Runway 1L/19R.

JUSTIFICATION:

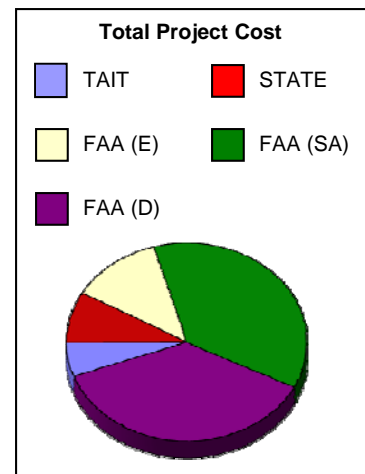
1. The existing airfield guidance signs do not comply with the current FAA standards. Standardized signs will promote better situational awareness on the airfield as a means to reduce incursion potential.
2. Installation of REIL's will promote situational awareness and efficient night time operations on the airport's main runway
3. Installation of PAPI's will replace aging VASI's that need to be replaced before they become a maintenance and/or reliability issue.
4. Relocation of the Airport Beacon will make it visible from all directions. The current location is not visible from the southwest.

LOCATION MAP:



***Total Project Cost = \$1,624**

* FUNDING / EXPENSE DETAIL	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	TOTALS
TAIT	3	86				89
STATE		135				135
FAA (E)	50	150				200
FAA (SA)		600				600
FAA (D)		600				600
OTHER						
TOTAL	53	1,571	-	-	-	1,624



* All figures indicated in thousands

3. Strengthen Taxiway “F”

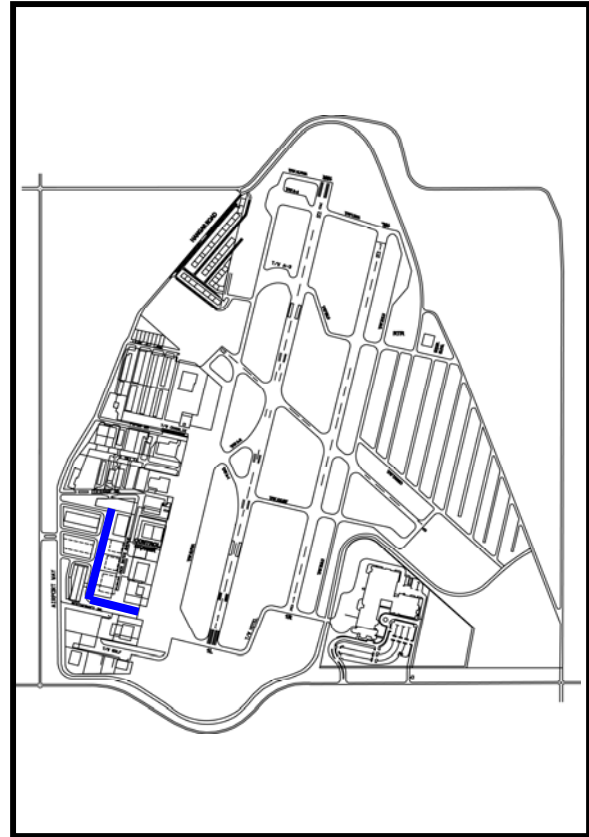
LOCATION MAP:

DESCRIPTION:

This project will overlay Taxiway “F” to increase it’s weight bearing capacity.

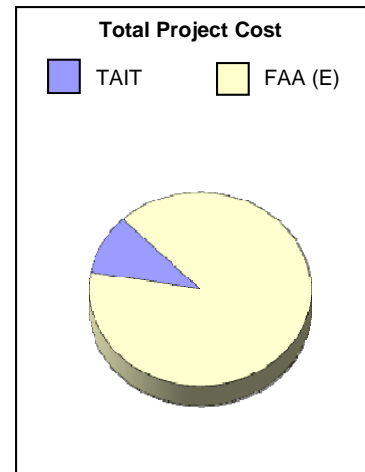
JUSTIFICATION:

The existing pavement is not adequate to support increasing use by heavier business jets being serviced in this area.



***Total Project Cost = \$158**

* FUNDING / EXPENSE DETAIL	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	TOTALS
TAIT			8			8
STATE						-
FAA (E)			150			150
FAA (SA)						-
FAA (D)						-
OTHER						-
TOTAL	-	-	158	-	-	158



* All figures indicated in thousands

4. Extend Runway 13/31

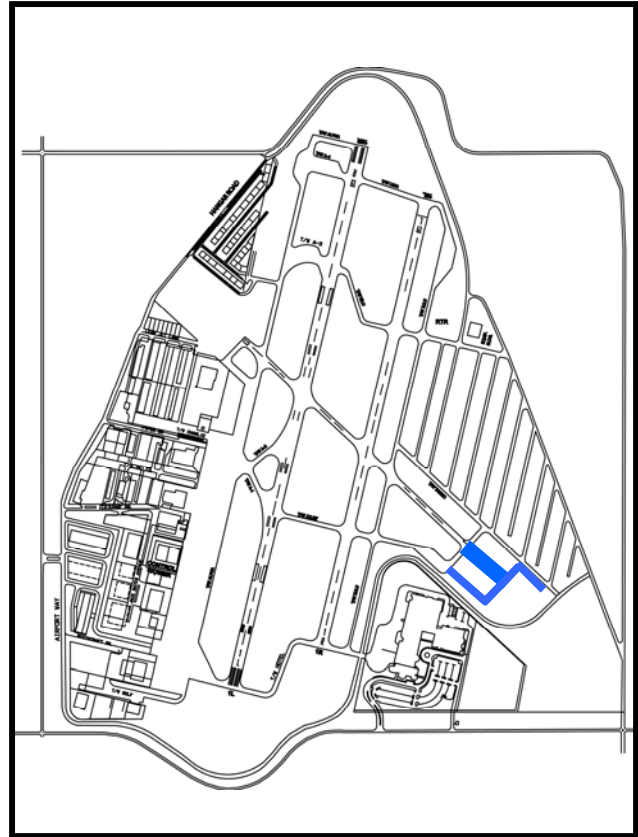
LOCATION MAP:

DESCRIPTION:

This project will extend Runway 13/31, taxiway connections and run-up pads to the east and relocate the threshold on the west end to a location east of Taxiway "A".

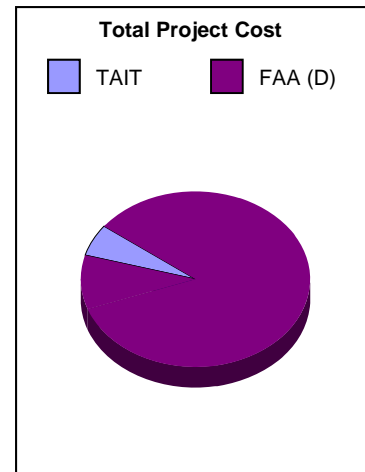
JUSTIFICATION:

The current runway length (2,641') is not adequate to support operations of light twin aircraft routinely in use by various airport tenants and transient pilots. Extension to 3,000' is necessary to accommodate these operations. Relocation of the threshold of Runway 13 is necessary to further enhance efficient operations and limit the potential for sight restriction from the air traffic control tower.



***Total Project Cost = \$975**

* FUNDING / EXPENSE DETAIL	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	TOTALS
TAIT			5	45		50
STATE						-
FAA (E)						-
FAA (SA)						-
FAA (D)			95	830		925
OTHER						
TOTAL	-	-	100	875	-	975



* All figures indicated in thousands

5. Widen Runway 13/31

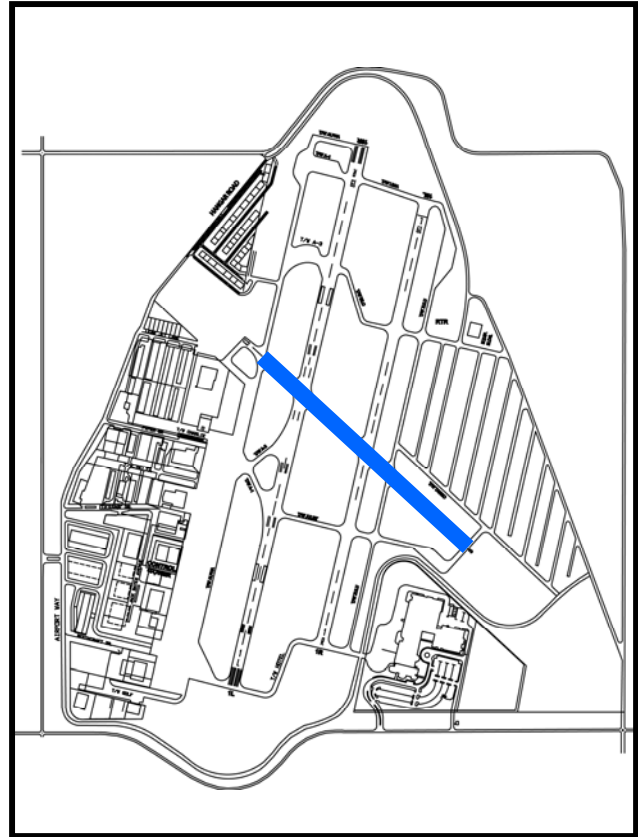
LOCATION MAP:

DESCRIPTION:

This project will widen Runway 13/31 to sixty feet and replace the runway edge lights.

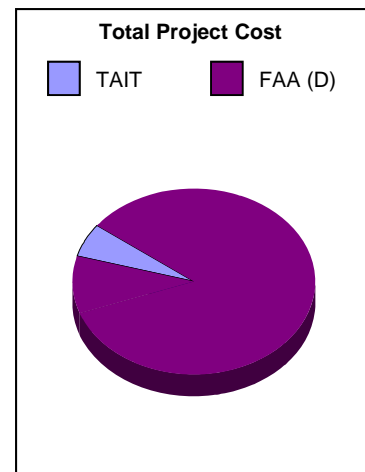
JUSTIFICATION:

The current runway width (50') does not meet standard criteria for the aircraft served. Widening will necessitate changes to the runway edge lighting system which is in excess of 30 years old and should be replaced with reliable, energy efficient components.



***Total Project Cost = \$775**

* FUNDING / EXPENSE DETAIL	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	TOTALS
TAIT			4	35		39
STATE						-
FAA (E)						-
FAA (SA)						-
FAA (D)			76	660		736
OTHER						
TOTAL	-	-	80	695	-	775



* All figures indicated in thousands

6. Install PAPI's Runway 13/31

LOCATION MAP:

DESCRIPTION:

This project will replace the existing Visual Approach Slope Indicator (VASI) lights with Precision Approach Path Indicator (PAPI) lights.

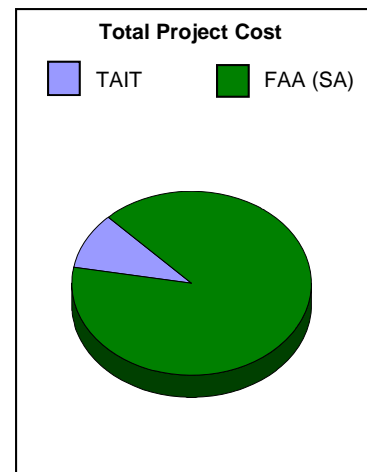
JUSTIFICATION:

Installation of PAPI's will replace aging VASI's that need to be replaced before they become a maintenance and/or reliability issue.



***Total Project Cost = \$50**

* FUNDING / EXPENSE DETAIL	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	TOTALS
TAIT				3		3
STATE						-
FAA (E)						-
FAA (SA)				47		47
FAA (D)						-
OTHER						-
TOTAL	-	-	-	50	-	50



* All figures indicated in thousands

ADOPTED 2/11/10

7. Rehabilitate Runway 13/31

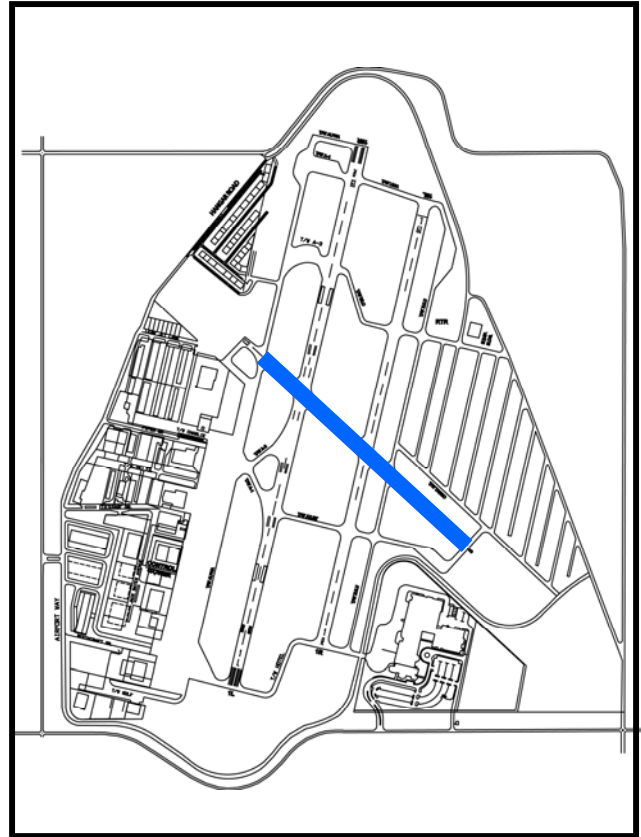
LOCATION MAP:

DESCRIPTION:

This project will rehabilitate the existing Runway 13/31 pavements.

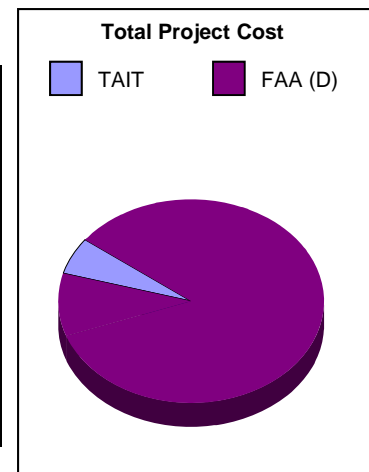
JUSTIFICATION:

The existing pavement is in need of rehabilitation and should be taken care of as part of efforts to lengthen and widen the runway.



***Total Project Cost = \$850**

* FUNDING / EXPENSE DETAIL	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	TOTALS
TAIT			4	40		44
STATE						-
FAA (E)						-
FAA (SA)						-
FAA (D)			76	730		806
OTHER						
TOTAL	-	-	80	770	-	850



* All figures indicated in thousands

ADOPTED 2/11/10

8. Construct Taxiway "A3"

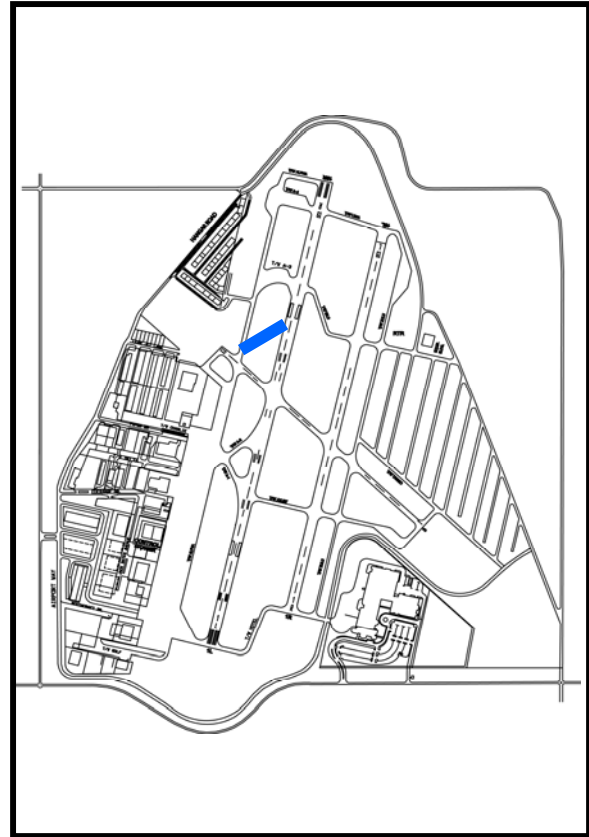
LOCATION MAP:

DESCRIPTION:

This project will construct a new high-speed taxiway for aircraft landing on runway 19R. The taxiway will be located just north of the crosswind runway.

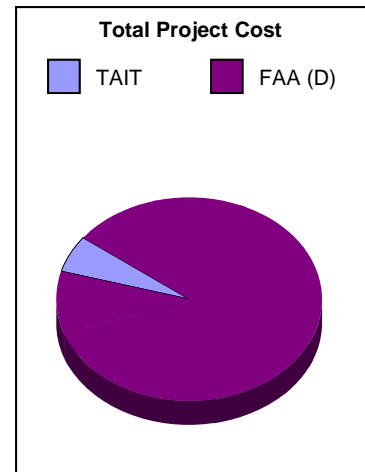
JUSTIFICATION:

Adding this taxiway will provide increased opportunity for landing aircraft to exit Runway 19R as soon as possible. This improvement is expected to enhance the runway's capacity for handling the high number of operations it serves.



***Total Project Cost = \$450**

* FUNDING / EXPENSE DETAIL	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	TOTALS
TAIT			3	20		23
STATE						-
FAA (E)						-
FAA (SA)						-
FAA (D)			47	380		427
OTHER						
TOTAL	-	-	50	400	-	450



* All figures indicated in thousands

9. Construct Utilities (Sewer) Southwest Commercial Area

LOCATION MAP:

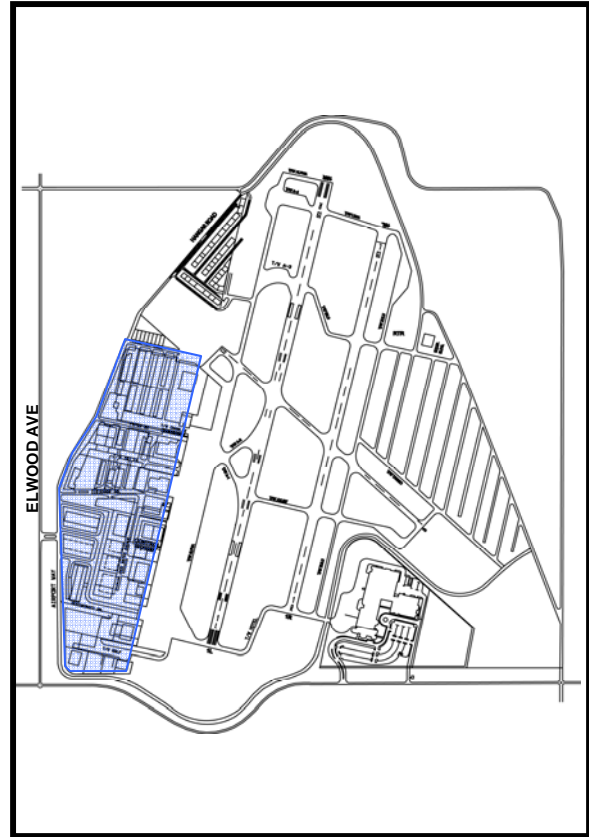
DESCRIPTION:

This project will install a gravity sanitary sewer system to replace the existing series of grinder pumps and force mains throughout the southwest commercial area.

JUSTIFICATION:

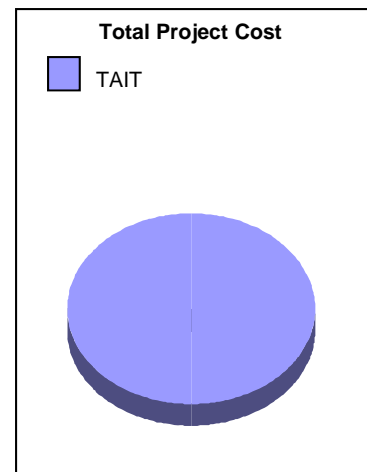
The existing system of grinder pumps and force mains provides limited capacity to serve commercial operations that continue to grow at the airport. As the existing grinder pumps age they are expected to become a maintenance issue. A gravity system will provide a more reliable, less maintenance intensive system.

This project will take place in coordination with a planned sewer service extension along Elwood Avenue being constructed by the City of Tulsa.



***Total Project Cost = \$425**

* FUNDING / EXPENSE DETAIL	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	TOTALS
TAIT			425			425
STATE						-
FAA (E)						-
FAA (SA)						-
FAA (D)						-
OTHER						-
TOTAL	-	-	425	-	-	425



* All figures indicated in thousands

ADOPTED 2/11/10

10. Rehabilitate Access Roads

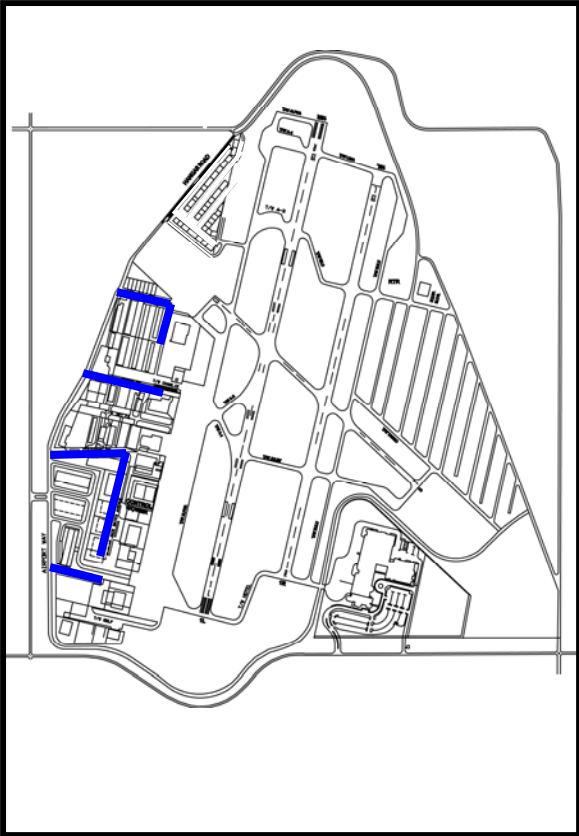
LOCATION MAP:

DESCRIPTION:

This project will rehabilitate access roads in the southwest commercial area.

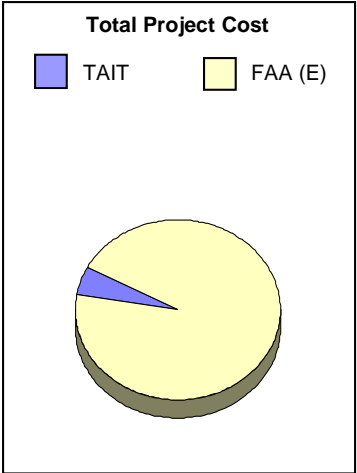
JUSTIFICATION:

These pavements are experiencing deterioration due to age and drainage problems. Rehabilitation and some full depth reconstruction are necessary to ensure adequate, safe access to commercial operations.



***Total Project Cost = \$158**

* FUNDING / EXPENSE DETAIL	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	TOTALS
TAIT				8		8
STATE						-
FAA (E)				150		150
FAA (SA)						-
FAA (D)						-
OTHER						-
TOTAL	-	-	-	158	-	158



* All figures indicated in thousands

11. Rehabilitate Runway 1L/19R

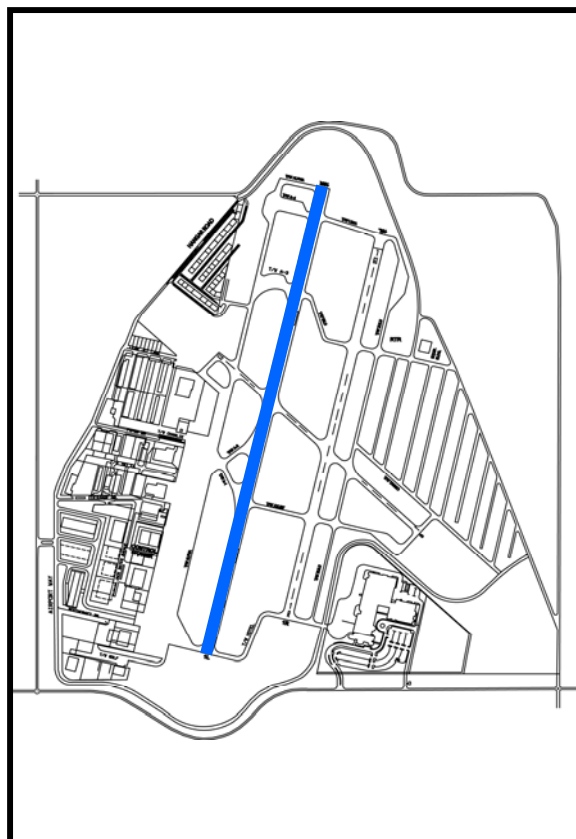
LOCATION MAP:

DESCRIPTION:

This project will repair areas of pavement failure, mill and provide an asphalt overlay for the runway. The engineering report for this project will include an updated evaluation of all pavements for the airfield and streets on the airport. The report will also act as an update to the pavement management program for RVS.

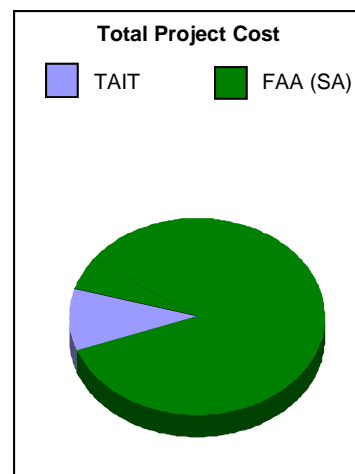
JUSTIFICATION:

The existing runway surface is experiencing cracks and other distress due to age and normal use. The last major rehabilitation effort on this runway was accomplished in the late 1980's. Rehabilitation is necessary to maintain adequate runway surfaces capable of handling the high volume of air traffic it serves.



***Total Project Cost = \$1,660**

* FUNDING / EXPENSE DETAIL	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	TOTALS
TAIT				5	80	85
STATE						-
FAA (E)						-
FAA (SA)				105	1,470	1,575
FAA (D)						-
OTHER						-
TOTAL	-	-	-	110	1,550	1,660



* All figures indicated in thousands

12. Rehabilitate Runway 1R/19L

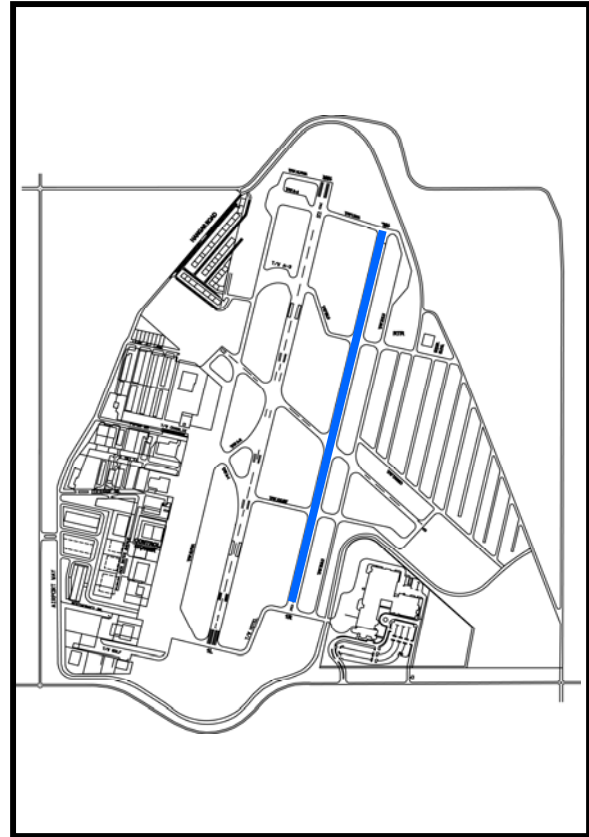
LOCATION MAP:

DESCRIPTION:

This project will repair areas of pavement failure, mill and provide an asphalt overlay for the runway.

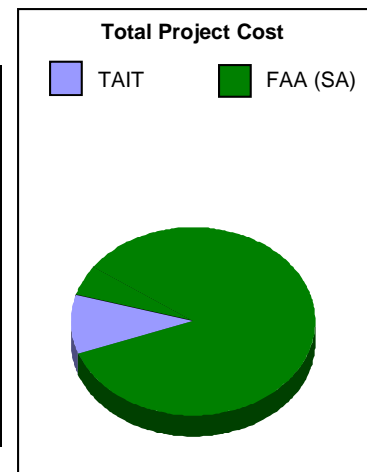
JUSTIFICATION:

The existing runway surfaces is experiencing cracks and other distress due to age and normal use. The last major rehabilitation effort on this runway was accomplished in the late 1980's. Rehabilitation is necessary to maintain adequate runway surfaces capable of handling the high volume of air traffic it serves.



***Total Project Cost = \$1,340**

* FUNDING / EXPENSE DETAIL	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	TOTALS
TAIT				5	60	65
STATE						-
FAA (E)						-
FAA (SA)				85	1,190	1,275
FAA (D)						-
OTHER						-
TOTAL	-	-	-	90	1,250	1,340



* All figures indicated in thousands

13. Improve Drainage

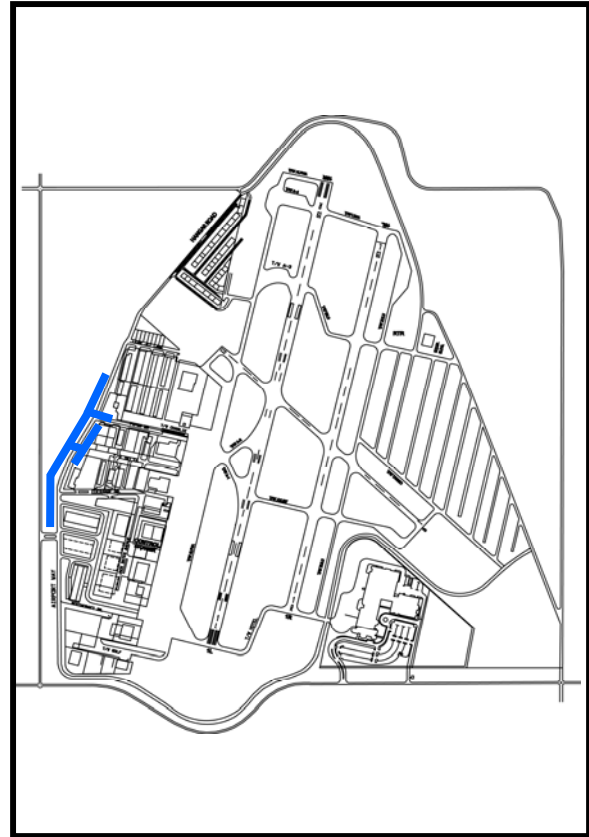
LOCATION MAP:

DESCRIPTION:

This project will re-grade the ponds that are north of the main entrance in order to eliminate ponding water and upgrade the storm sewer pipes and ditches along perimeter road to provide better drainage for the roads, taxiways and apron areas in the vicinity.

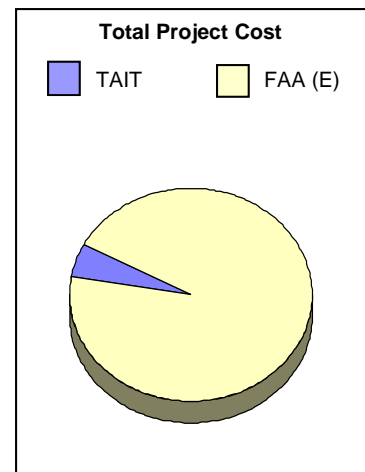
JUSTIFICATION:

The current system of pipes and ditches do not provide adequate drainage away from the pavements, which results in issues for aircraft access and accelerated pavement deterioration. Ponding water should be eliminated to reduce the potential attraction of water fowl which could be a bird airstrike problem



***Total Project Cost = \$53**

* FUNDING / EXPENSE DETAIL	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	TOTALS
TAIT					3	3
STATE						-
FAA (E)					50	50
FAA (SA)						-
FAA (D)						-
OTHER						-
TOTAL	-	-	-	-	53	53



* All figures indicated in thousands

14. GIS Survey, Runway 1L/19R

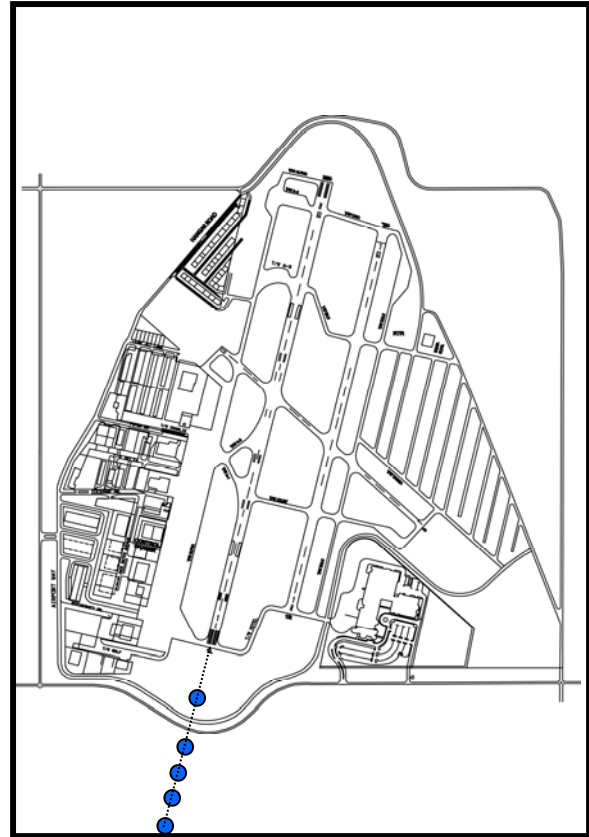
LOCATION MAP:

DESCRIPTION:

This item will provide all necessary professional engineering, planning and surveying necessary to complete an A-GIS survey required in preparing new and upgraded instrument approach procedures to both ends of this runway.

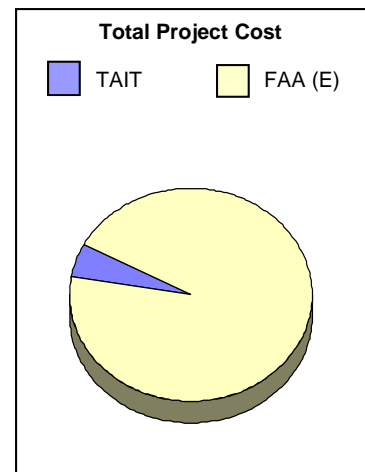
JUSTIFICATION:

This item will complete the GIS survey that is necessary to meet AC 150/5300-16, AC150/5300-18 and A-GIS regulations, for the FAA to use in preparing new and upgraded instrument approach procedures to both ends of this runway.



***Total Project Cost = \$105**

* FUNDING / EXPENSE DETAIL	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	TOTALS
TAIT					5	5
STATE						-
FAA (E)					100	100
FAA (SA)						-
FAA (D)						-
OTHER						-
TOTAL	-	-	-	-	105	105



* All figures indicated in thousands