DFW	DDO ISCT	1. Contract No. 7005264	
	PROJECT AGREEMENT	2. Requisition No. 232098	
DALLAS/FORT WORTHINTERNATIONAL AIRPORT BOARD		3. Project Agreement No. 5264-001-R00	
4. Name & Address of Consultant/Contractor North Texas Tollway Authority 5900 West Plano Parkway, Suite 100 Plano, TX 75093 P.O. Box 260729 Plano, TX 75026		5. Project Agreement Amount NTE \$720,000.00	
6. Administrative and Accounting Data		7. Bond Fund Information	
·	5720,000.00	Yes N/A _X	
		FUND NO. N/A	
8. Project Agreement Order Title		9. References	
Project Agreement No. 1 – Lane Equipment M Support	aintenance and	Attached Project Agreement No. 1	
10. Services to be Provided			
Provide all services as specified in attached Project	Agreement No. 1 docur	ments.	
	10.5.4		
11. Performance Period	12. Dalla	s/Fort Worth-International Airport Board	
Start: July 1, 2010 Expire: Pendency (upon 180 days notification t terminate by either party – See Master Agreen	o By	Authorized Representative)	
Article 2.26)	(Authorized Representative Type or Print) C. Spoon, CPSM, CMRP, Vice President	Date Signed

Joanne Baca Garcia, Assistant Vice President Procurement & Materials Management

Printed Requisitions Report

Report Date: 27-SEP-2010 09:19

Page: 2 of 2

Preparer: JOHNSON, Mr. WILLIAM Approver: FLOWERS, Mr. WILLIAM

Currency: USD

Requisition: 232098
Requisition Type: Purchase Requisition
Creation Date: 22-SEP-10

Description: NNTA Contract 7005264 PA1

Note To Approver: Systems approved

Notes:

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1.0 DESCRIPTION

This Project Agreement identifies Maintenance and Support requirements for all hardware and software that comprises the Automated Vehicle Identification (AVI) Lane Equipment at the Dallas/Ft. Worth Airport (DFW).

2.0 OBJECTIVES

The goal of this Project Agreement is to maintain normal operations of all AVI Lane Equipment and to define the services to be performed, performance period, response time, NTTA responsibilities, and DFW Airport Board responsibilities.

3.0 DEFINITIONS

- 3.1 Information Technology Services (ITS) For the purposes of this agreement, ITS is defined as the DFW International Airport's ITS Department.
- 3.2 Parking Business Unit (PBU) For the purposes of this agreement, PBU is defined as the DFW International Airport's Parking Business Unit.
- 3.3 Preventative Maintenance (PM) Maintenance performed on a regular or scheduled basis for the purpose of maintaining equipment and facilities in satisfactory operating condition and/or extending the life of the equipment. PM includes, but is not limited to testing, adjusting, cleaning, and/or replacing equipment as required. The PM Plan shall be referenced as Exhibit B in this agreement.
- 3.4 AVI Lane Equipment The equipment required for an AVI Lane to function as designed. For the purposes of this agreement, the AVI Lane Equipment shall be defined as the hardware and software installed and operational in existing AVI lanes at the time this agreement is signed. It is the equipment NTTA shall be responsible for maintaining on the DFW Airport AVI System.
- 3.5 Hardware Inventory Inventory necessary for the operation of AVI Lane Equipment. The hardware inventory will vary upon the setup of each lane, gantry or portal. Hardware Inventory shall be referenced as Exhibit A in this agreement.
- 3.6 Spare Parts Inventory Parts maintained in inventory and available for immediate use in the repair of a defective or malfunctioning component.
- 3.7 Reactive Maintenance (RM) Maintenance performed on an as needed basis when a condition occurs that caused or may cause a failure of AVI lane equipment. Also known as break/fix. RM includes, but is not limited to repairing, testing, adjusting, cleaning, and/or replacing equipment as required. Reactive Maintenance expectations shall be set forth in the Service Level Agreement (SLA).
- 3.8 Service Level Agreement (SLA) Agreement between partners that establishes a common understanding of services, priorities, responsibilities, guarantees, and warranties. An SLA may also define "targets" and/or "minimums," and address availability, serviceability, performance, and operational requirements.
- 3.9 Service Delivery Plan The Service Delivery Plan is how NTTA will meet the expectations of the SLA. It may include but is not limited to staffing, on-call procedures, escalation and communications processes. The Service Delivery Plan shall be referenced as Exhibit C in this agreement



- 3.10 Peak Operational Hours The peak hours of operation in a 24 hour day. The DFW Airport Parking Revenue Control System peak operational hours are (6:00 A.M. to 12:00 A.M.), seven days a week.
- 3.11 Peak Holiday Travel Time Specific days preceding, including and following the holidays of New Years Day, Memorial Day, Labor Day, Fourth of July, Thanksgiving, and Christmas when vehicular traffic at DFW Airport is at an all time high. The specific peak days are dependent on the day of the week on which the Holiday falls.

<u>Holiday</u>	Days of Peak	Time of Peak
Falls on	Travel	<u>Travel</u>
Mon	Thu & Fri (prior)	6:00 a.m. to midnight
	Mon (holiday)	6:00 a.m. to midnight
Tue	Fri (prior)	6:00 a.m. to midnight
	Tue (holiday)	6:00 a.m. to midnight
Wed	Tue (prior)	6:00 a.m. to midnight
	Mon (following)	6:00 a.m. to midnight
Thu	Wed (prior)	6:00 a.m. to midnight
	Sun (following)	6:00 a.m. to midnight
Fri	Thu (prior)	6:00 a.m. to midnight
	Mon (following)	6:00 a.m. to midnight
Sat	Thu (prior)	6:00 a.m. to midnight
	Fri (prior)	6:00 a.m. to midnight
Sun	Fri (prior)	6:00 a.m. to midnight
	Sun (holiday)	6:00 a.m. to midnight
	Mon (following)	6:00 a.m. to midnight

4.0 SUBMITTALS

Included in the Cost for this Inter-local Agreement, NTTA will submit the following for review and approval by the Airport Board's Technical Representative and include as Exhibits A through C:

- 4.1 Hardware Inventory
- 4.2 Preventative Maintenance Plan
- 4.3 Service Level Delivery Plan

5.0 MAINTENANCE AND SUPPORT REQUIREMENTS

- 5.1 NTTA will provide support for all AVI Lane Equipment as defined in this Project Agreement and Exhibits in order to maintain system operations.
- 5.2 NTTA will furnish all supervision, labor, tools, machinery, hardware, test equipment, materials, services, and third party support as necessary to support the AVI Lane Equipment to comply with this project agreement.
- 5.3 NTTA shall coordinate all maintenance and support activities with the appropriate DFW authority in advance.



- 5.4 NTTA will be the primary contact for all service calls associated with the AVI Lane Equipment. NTTA will work with the Airport Board's Designated Technical Representative until the AVI Lane Equipment service call is resolved.
- 5.5 Service calls that are found to be a DFW facility/network problem shall be transferred to the Airport Board's Designated Technical Representative.

6.0 PREVENTATIVE MAINTENANCE PLAN (PM) -

- 6.1 The PM Plan shall be referenced as Exhibit B in this agreement.
- 6.2 The PM Plan may be modified at any time through mutual agreement between the operational parties.
- 6.3 Preventative Maintenance activities shall be carried out in such a way as to avoid impacting service levels, revenue collection or operations.
- 6.4 Preventative Maintenance shall not be scheduled during Peak Holiday Travel Times.
- 6.5 NTTA shall coordinate PM with the Airport Board's Designated Technical Representative in advance.
- 6.6 Preventative Maintenance Activities shall be logged as part of the regular course of operation and records maintained by NTTA.
- 6.7 Preventative Maintenance records, procedures, tools and reports are subject to inspection by authorized Airport Board's Designated Representatives and NTTA representatives at any time.

7.0 HARDWARE INVENTORY AND SPARE PARTS INVENTORY

- 7.1 The Hardware Inventory shall be referenced as Exhibit A in this agreement.
- 7.2 The Hardware Inventory may be modified at any time through mutual written agreement between the operational parties.
- 7.3 The NTTA will provide spare parts inventory as needed from existing NTTA inventory stock.
- 7.4 THE NTTA will maintain spare parts inventory specific to the AVI Lane Equipment installed at DFW in such a manner as to ensure that parts are readily available for one to one replacement as necessary for reactive maintenance.
- 7.5 Airport Board will provide facility for storage of spare parts for ready access by NTTA, if needed.
- 7.6 NTTA will be responsible for all costs associated with maintaining the spare parts inventory specific to the AVI Lane Equipment.
- 7.7 NTTA will be responsible for all costs associated with returning defective devices and receiving replacement devices from the Original Equipment Manufacturer (OEM) specific to the AVI Lane Equipment.
- 7.8 NTTA will be responsible for spare parts maintenance, material handling, inventory controls, shipping for repairs specific to the AVI Lane Equipment.
- 7.9 NTTA shall recognize that any individual item installed and/operational for the AVI Lane Equipment with a value over \$5,000 must be tagged and maintained under DFW Asset Management procedures.



- 7.10 Title to all parts or equipment installed under this Project Agreement will pass to the Airport Board at the time of installation.
- 7.11 The Hardware Inventory records, procedures, tools and reports are subject to inspection by authorized Airport Board and NTTA representatives at any time.
- 7.12 The Hardware Inventory will be reviewed semi-annually by the Airport Board's Designated Representatives, and NTTA, and may be modified if required and mutually agreed in writing.

8.0 SERVICE LEVEL AGREEMENT AND DELIVERY PLAN

- 8.1 The measurement of availability shall only be based on events within NTTA's control and with due consideration for the definitions contained in the Service Delivery Plan (Exhibit C). If the measured item is not available due to reasons outside of NTTA's control, such as but not limited to, problems with the wide area network and local area network, such events will be excluded from the measurement of availability.
- 8.2 AVI Lane Equipment availability shall meet the following criteria:
 - 8.2.1 AVI Lane Equipment Outage of less than 33% of active lanes at any given portal (including cross-over lanes) is considered standard reactive maintenance.
 - 8.2.2 AVI Lane Equipment Outage of more than 33% of active lanes at any given portal (excluding cross-over lanes) is considered an emergency situation.
- 8.3 Service Call Response Times shall meet the following criteria:
 - 8.3.1 Telephone response to the first notification from DFW shall be within 30 minutes during Peak Operational Hours.
 - 8.3.2 DFW staff shall make every effort to notify NTTA within 30 minutes of determining a call is AVI Lane Equipment related during Peak Operational Hours.
 - 8.3.3 Remote access (if required) to begin service call resolution shall be within 60 minutes of first notification during Peak Operational Hours.
 - 8.3.4 Arrival on site (if required) to begin service call resolution shall be within 90 minutes of the first notification during Peak Operational Hours.
- 8.4 Service Call Resolution Times shall meet the following criteria:
 - 8.4.1 AVI Lane Equipment Outage of more than 33% of active lanes at any given portal (excluding cross-over lanes) is considered an emergency situation. Every effort should be made to restore AVI lane equipment to full operational status in less than four (4) hours from initial notification.
 - 8.4.2 AVI Lane Equipment Outage of less than 33% of active lanes at any given portal (including cross-over lanes) is considered standard reactive maintenance.

 Every effort should be made to restore AVI lane equipment to full operational status within eight (8) hours.
- 8.5 Hours of Service for service call resolution shall meet the following criteria:
 - 8.5.1 Provide on-call support (telephone, remote access and on-site as required) during Peak Operational Hours.



- 8.6 The Service Level Delivery Plan may be modified at any time through mutual agreement between the operational parties.
- 8.7 The Service Level Delivery Plan shall include a communications and escalation plan to be maintained as part of the overall plan.
- 8.8 Service Level Delivery Plan records, procedures, tools and reports are subject to inspection by authorized Airport Board Representative and NTTA representatives at any time.
- 8.9 The Service Level Delivery Plan will be reviewed semi-annually by the Airport Board's Designated Technical Representative, and NTTA, and may be modified if required and mutually agreed upon.
- 8.10 Based upon the review and an analysis of the metrics, NTTA shall address and remedy any systematic problems or negative performance trends.
- 8.11 If Service Levels fall below minimums or service call resolution time exceeds fifteen percent (15%) of the total for reported service calls for one quarter, then the NTTA shall submit a plan for review and approval by the Airport to restore Service Levels at no cost to the Airport.

9.0 CHANGE MANAGEMENT

- 9.1 When possible, all planned changes are to be scheduled during the Airport's Non-Peak Holiday Travel Time.
- 9.2 Unplanned changes may be implemented only if the Airport Board's Authorized Technical Representative and the designated PBU representative agree the work is essential to operations and cannot be deferred,
- 9.3 Installation of AVI Equipment, which may affect performance, shall be implemented only during Non-Peak Holliday Travel Times.
- 9.4 NTTA will install, test and verify AVI Lane Equipment as necessary.
- 9.5 NTTA is responsible for identifying, managing and resolving all "Post Installation" business and technical support issues.

10.0 SEMI-ANNUAL REVIEW

10.1 DFW and NTTA representatives will meet formally on a semi--annual basis to review and if necessary, revise the exhibits presented in this agreement and present relevant operational and metric reporting.

11.0 RATES, CHARGES AND ANNUAL ADJUSTMENTS

- 11.1 The Parties agree compensation for the services to be provided as set forth in this Project Agreement and its Exhibits is set forth in Exhibit D.
- 11.2 Exhibit D may be arriended by written agreement of the Parties.

12.0 EXHIBITS

EXHIBIT A - Hardware Inventory

EXHIBIT B – Preventative Maintenance Plan

EXHIBIT C - Service Level Delivery Plan



13.0 EFFECTIVE DATE

This Project Agreement No. 1 is effective July 1, 2010.

IN WITNESS WHEREOF, the Airport Board and the NTTA have executed this Interlocal Agreement on the dates shown below, to be effective on the date listed above.

NORTH TEXAS TOLLWAY AUTHORITY

ATTEST:

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APPROVED AS TO FORM:

Date:

By:

1.0 DESCRIPTION

This Hardware Inventory shall identify the AVI Lane Equipment inventory in place at DFW International Airport at the time of the agreement to the Master Project Agreement. This AVI Lane Equipment inventory is the inventory necessary for the operation of AVI Lane Equipment. The hardware inventory will vary upon the setup of each lane, gantry or portal.

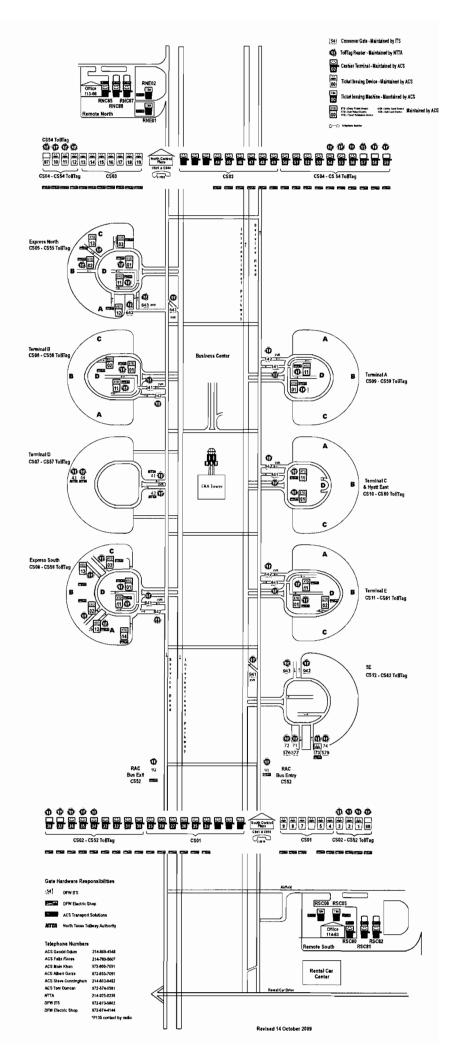
2.0 OBJECTIVES

The goal of this Hardware Inventory is to maintain record of the AVI Lane Equipment necessary to maintain operations for the AVI Lane Equipment installed and operational at DFW International Airport.

3.0 ATTACHMENTS

- 3.1 DFW Parking Device Map
- 3.2 DFW Lane Hardware





Per Transcore's AR2200 product sheet, the authorized frequency band in the U.S. is 902 to	to 904 and 909.75 to 921.75 MHz			
Location Appendix E2 Lane no. (Ticket) APPENDIX E2 Lane no. (SKD) AVI Lane No. Federal Lane no. ETC Lane Name Lane Type	IP Address IP Address Comm Connection Subnet	Senal Failover Port Assignment 55-07- 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Opto Board Assignment Opto Board Assignment The state of the state o	Patron Lanes SRO Lanes SRO Lanes Promust Opto 8 AVI Panel 20x24 RLC Panel 30x35 Dual RLC Panel 48x36 CANTILEVER POLES
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04-58																	
					DFW-NORTH-59			918	0	Unmanned							

		_	Per 1	Transcore's AR220	00 product sheet, t	he autho	orized fr	equ	ency band in the U	.Ş. i <u>s</u> 90	2 to 904 and 909.75 to 921.75	5 MHz]	
Location	Appendix E2 Lane no.	AVI Lane No.	Federal Lane no.	ETC Lane Name	Gate Raise Classes	Actual Freq	RF Freq	Reader Sync	Lane Type	Config	Notes	CISCO SWITCH	IP Address	IP Address	Subnet	Gateway
PLAZA					· · · · · · · · · · · · · · · · · · ·	4 gr	the state of the state of	ء . رايا مراجع يا		The state of the s	The second of th	1 mg	The state of the s			with the set to the set
	ant Lane C			17			K		4	,	2 cat 5e to cisco switch	NTTA SW	10.12.30.104	10.12.30.105		
	02-98	52-98	98	DFW-SOUTH-98			902	0	Unmanned	Canopy	Phase 1 dedicated Toll Tag					
	02-1	52-01	1	DFW-SOUTH-01			902	1	Ticket Manned	Canopy	Phase 1 Toll Tag					
. <u>.</u>	02-91	52-91	91	DFW-BUS-91			915	n/a	Northbound Entry	Island	Bus Lanes, smartpass					
l Ĕ	02-92	52-92	92	DFW-BUS-92			917	n/a	Southbound Exit	Island	Bus Lanes, smartpass					
· \$	ant Lane C	The second of th									2 cat 5e to cisco switch	NTTASW	10.12.30.20	10.12.30.21		
🛅 .	02-2	52-02	2	DFW-SOUTH-02			918	0	Ticket Manned	Canopy						,
	02-3	52-03	3	DFW-SOUTH-03			918	1	Ticket Manned	Canopy					_	
<u>B</u>	01-04	51-04	4	DFW-SOUTH-04			910	0	Ticket Manned	Canopy						
	01-05	51-05	5	DFW-SOUTH-05			910	1		Canopy						
5																
	01-06	51-06	6	DFW-SOUTH-06			921	0	Ticket Manned	Canopy						
	01-07	51-07	7	DFW-SOUTH-07			921	1	Ticket Manned	Canopy						
*	01-08	51-08	8	DFW-SOUTH-08			912	0	Ticket Manned	Canopy						
, .		51-09	9	DFW-SOUTH-09			912	1	Ticket Manned	Canopy						
PLAZA		N	4.10	The state of the s		1.00	F	· ·				化食 人名赖勒克		The state of the s		SE THE WAY THE
	ant Lane Co								27 1 7 - 3		2 cet 5e to alsco switch				1, 1, 1	211 2 1212
		51-21	21	DFW-SOUTH-21			915	0	Cashier Terminal	Canopy	AVI cabinet 1	<u> </u>		100020000000000000000000000000000000000		
		51-22		DFW-SOUTH-22			915	1		Canopy	AVI cabinet 1					
	01-23	51-23		DFW-SOUTH-23			919	0		Canopy	AVI cabinet 1					
		51-24		DFW-SOUTH-24			919	1		Canopy	AVI cabinet 1					
		51-25		DFW-SOUTH-25			913	Ò	Cashier Terminal		AVI cabinet 1					
	ant Lane Co							૽ૹ૾૽			2 cat 5e to cisco switch	FAPD SW	10 12 32 70	10 12 32 71		
		51-26		DFW-SOUTH-26	FIRST TON, Security Security 22 1982 Line Security	W. March Barriel Barriel	913	1	Cashier Terminal		AVI cabinet 2				nen etteratus mes Polisie, me "Seer Sallinger	· · · · · · · · · · · · · · · · · · ·
S	01-27			DFW-SOUTH-27					Cashier Terminal							
M		51-28		DFW-SOUTH-28			916		Cashier Terminal		AVI cabinet 2					
9228		51-29	=	DFW-SOUTH-29			920		Cashier Terminal		AVI cabinet 2					
	ant Lane Co						TO THE	The s		Carre Ka	2 cat 5e to cisco switch	NTTA SW	10:12:32:130	10.12.32.131		ESPECIAL DE LA COMPANSA DE LA COMPA
South Pleze	4-94 - E - 12 - 14 - 650	52-30		DFW-SOUTH-30	To the called took (Called Laws and Called Angled)	- MR-1237 F3 **	920		Cashier Terminal		AVI cabinet 3	was received to the following the	:	groups Zioz, Fort	NAME OF THE PARTY	CONTRACTOR OF THE SECOND
JQ		52-31		DFW-SOUTH-31			914		Cashier Terminal		AVI cabinet 3					
(e)	02-32			DFW-SOUTH-32			914		Cashier Terminal		AVI cabinet 3	· ·				
	02-33		-	DFW-SOUTH-33			910		Cashier Terminal		AVI cabinet 3					
	02-34		-	DFW-SOUTH-34			910		Cashier Terminal		AVI cabinet 3					
	ant Laine Co			2. 11 000111 04			0.0	-	Cashici Terrinida	Сапору	2 cat 5e to cisco switch	NTTA SW	10.12.32.190	10 12 32 101		
	02-35		35.	DFW-SOUTH-35			912	0	Cashier Terminal	Canony	Phase 1 Toll Tag	1411/1/044	10.12.02.130	10.12.02.101		
		52-36		DFW-SOUTH-36			904		Cashier Terminal		Phase 1 Toll Tag					
		52-37		DFW-SOUTH-37			904			Canopy	Phase 1 Toll Tag					
		52-38		DFW-SOUTH-38			918	4			Phase 1 dedicated Toll Tag			_		
	02-30	02-00	50	DI 44-2001U-20			910	ı	Unmanned	Gantry	rnase i dedicated roll rag					

LOCATION	NUMBER OF LANES	ENTRY	EXIT	SRD	NUMBER OF LANE CONTROLLERS	
REMOTE NORTH	5	2	3	0	1	
REMOTE SOUTH	5	2	3	0	F-1 1 1	
BUSINESS CENTER	3	1	2	0	1	
EXPRESS SOUTH	4	2	2	0	1	
	4	1	1	2	1	-
EXPRESS NORTH	5	3	2	0	1	
	4	0	1	3	1	
TERMINAL A	4	1	1	2	1	
TERMINAL B	5	2	1	2	1 1	
TERMINAL C	4	1	1	2	1	
TERMINAL D	4	3	1 1	4	2	
TERMINAL E	5	3	0	2	1 1	
						2
5E	4	2	2	0	1	PARKING PANELS
	3	0	0	3	1	3 PARKING PANELS
	55	20	19	16	13	
	35	20	19	10	13	

RED TOTALS DO NOT MATCH BOM

Location	Appendix E2 Lane no.	Federal Lane no.	Actual Freq	Frequency Plan	Lane Type	Notes	Comm Connection	Comm Connection	Reader Sync	Telebyte 8323	Promux 72-PMO-1	Opto 8 Telebyte 8022NX	MTX-487 FO Convert	MRX-487 FO convert	WME-7652 (Blue Comp bread box)	Chassis Plans (Bik Comp)	SFO/Reader Mount plate 4510-1005	SFO Module	Reader Interface Board 7900-0022	Rocketport 16 Port 97100-9	Astrodyne IMK75S-12	Due Sun Mount 2500 0007	Eiher patch	Cat Se natch	SAU1500 Panel Mount	SAU1500RM2U Rack Wount	AVI Panel 20x24 (PART TAN BOX)	RF Mount Plate 4510-1006	RLC Panel 36x30	24x20x10 Encl	36x30x16 Enci	48x36x16 Encl	AC unit	CANTLEVER Polco 8 Ft Para-panel Pole & Base
_	Redundant Lar	no Controllo														2	+	-			-			-							-			-
Remote North (NSL)	13-21		011 000	010	Fete:		1 MMFO	4 14450	-	-		4	-		-	2	-	1	+-		_			2				-			4			-
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North Texas Tollway Authority – AVI System Master Interlocal Agreement 7005264 Project Agreement No. 1 – Lane Equipment Maintenance and Support Exhibit B – Preventative Maintenance Plan

1.0 DESCRIPTION

This Preventative Maintenance Plan (PM Plan) shall identify the maintenance performed on a regular or scheduled basis by NTTA on the AVIL Lane Equipment installed and operational at DFW International Airport.

2.0 OBJECTIVES

The goal of this PM Plan is to ensure AVI Lane Equipment is maintained and facilities in satisfactory operating condition and/or extending the life of the equipment and to define the NTTA responsibilities, and Airport Board responsibilities related to such equipment.

3.0 ATTACHMENTS

3.1 Parking Services_PM v1.1



MAINTENANCE REQUIREMENTS

Maintenance services include preventive, predictive and corrective/emergency maintenance and provide adequate staffing levels to support maintenance activities at all facilities within the scope of this plan.

1.1 Parking Services Manager

The parking services manager is responsible for scheduling the work of crews, evaluating, providing second-level technical support, and interfacing with subcontract maintenance personnel. They are responsible for receiving all defective parts, from the field. Also, for troubleshooting, diagnosing, and repairing this equipment to a much greater degree than can be accomplished in the field.

The manager's tasks include, but are not limited to:

Oversight of all lane maintenance

Scheduling of preventative maintenance

Provide second-level support

Ensure service level agreements are met

Ensure AVI read accuracy by reviewing data

Schedule site audits to ensure that proper maintenance is performed and that equipment is performing within specifications

Track KPI (Key Performance Indicators)

Ensure all maintenance is documented

1.2 Staffing

Staffing levels must be adequate to provide a continuous level of service regardless of holidays, vacations, and sick time. The Parking Systems Group is responsible for maintaining the level of service described within this document by augmenting assigned staff as required with experienced and skilled personal.

Response and repair requirements, system performance requirements, traffic statistics, coverage area and preventive maintenance hours are used to determine the size of the work force.

Table 1: Daily Preventive Maintenance Schedule												
Tasks	Estimated time per task											
Lane controller monitoring	45 minutes total											
Tollview												
System alarms and alerts												
AVI System	30 minutes total											
Tollview												
Review daily reports												
Reporting issues	15 minutes total											
On-site lane inspections	90 minutes total											
On-site gate inspections	15 minutes total											

2.0 Preventive Maintenance

Preventive maintenance is performed to provide for consistent operation of toll collection lane equipment. These activities are documented and tracked using performance indicators established in this document. Preventive maintenance consists of a comprehensive program performed daily and monthly. All types of such activities are given a time allotment to help managers determine staffing and labor needs. Schedules are established using the manufacturers' recommendations and established industry practices. They include technician assignments generated weekly.

Daily Preventive Maintenance Tasks

Perform a visual inspection of reader and antenna

Sample live lane traffic using TollView System

Visual inspection of gate equipment

Perform a visual inspection of the Lane Controller and all components in the rack

Review daily reports

Monthly Preventive Maintenance Tasks

Verify and test failover capability of readers

Verify configuration settings and adjust as required to match configuration standards

3.0 Predictive Maintenance

The Parking Systems Group uses historical maintenance data to predict maintenance needs. With experience and proper use of meantime between failure (MTBF) information, it is possible to schedule some part change-outs near the end of their expected service life, instead of waiting for failures to occur. This shifts a portion of the maintenance work to off-peak periods and is more efficient since it generally occurs during periodic scheduled maintenance visits.

North Texas Tollway Authority – AVI System Master Interlocal Agreement 7005264 Project Agreement No. 1 – Lane Equipment Maintenance and Support Exhibit C - Service Delivery Plan

1.0 DESCRIPTION

This Service Level Delivery Plan shall identify how NTTA will meet the expectations of the SLA in the Master Project Agreement. It may include but is not limited to staffing, on-call procedures, escalation and communications processes.

2.0 OBJECTIVES

The goal of this Service Level Agreement and Delivery Plan is to maintain normal operations of all AVI Lane Equipment and to define the services to be performed, performance period, response time, NTTA responsibilities, and Airport Board responsibilities.

3.0 DEFINITIONS

- 3.1 Availability refers to the AVI Lane availability as set forth in the Mast Project Agreement Section 8.2. Planned downtime is not included in a measurement of availability.
- 3.2 Recovery Time The total time required for a planned outage or the time required to fully recover from an unplanned outage. Recovery time is closely related to availability.
- 3.3 Planned downtime planned downtime is a result of maintenance that is disruptive to system operation and usually cannot be avoided with a currently installed system design. Planned downtime events might include patches to system software that require a reboot or system configuration changes that only take effect upon a reboot. In general, planned downtime is usually the result of some logical, management-initiated event.
- 3.4 Unplanned downtime Unplanned downtime events typically arise from some physical event, such as a hardware or software failure or environmental anomaly. Examples of unplanned downtime events include power outages, failed CPU or RAM components (or possibly other failed hardware components), an over-temperature related shutdown, logically or physically severed network connections, catastrophic security breaches, or various application, middleware, and operating system failures.

4.0 SERVICE LEVEL DELIVERY PLAN

- 4.1 The measurement of availability shall only be based on events within NTTA's control and with due consideration for the definitions contained in this Exhibit. If the measured item is not available due to reasons outside of NTTA's control, such as but not limited to, problems with the wide area network and local area network, such events will be excluded from the measurement of availability.
 - 4.1.1 Planned downtime shall not be included in the measure of availability.
 - 4.1.2 Unplanned downtime related to the AVI Lane Equipment shall be included in the measure of availability and response times classified according to the AVI Lane Equipment availability criteria set forth in the Project Agreement.



North Texas Tollway Authority – AVI System Master Interlocal Agreement 7005264 Project Agreement No. 1 – Lane Equipment Maintenance and Support Exhibit C - Service Delivery Plan

- 4.2 NTTA will be the primary contact for all service calls associated with the AVI Lane Equipment. NTTA will work with DFW staff until the AVI Lane Equipment service call is resolved.
- 4.3 If a call/incident is determined to be a DFW issue, NTTA staff shall pass responsibility for the call resolution to the appropriate DFW staff representative.
- 4.4 Hours of Service
 - 4.4.1 NTTA Parking staff hours are from 8am-5pm, Monday thru Friday.
 - 4.4.2 NTTA Parking provides 24/7 on call coverage.
- 4.5 Service Call Response Time
 - 4.5.1 NTTA Parking On-Call provides 30 minute telephone response time to all AVI Lane Equipment calls during Peak Operational Hours.
 - 4.5.2 NTTA provides escalation support for any AVI Lane Equipment call not meeting the first response time.
 - 4.5.3 NTTA shall maintain an understanding of the DFW Peak Holiday Travel Times and will coordinate efforts to have staff available to respond as agreed to in advance with DFW staff during these times.
- 4.6 Service Call Resolution Time
 - 4.6.1 NTTA shall make reasonable effort to adhere to the Service Call Resolution Times in Section 8.4 of the Master Project Agreement.
 - 4.6.2 In the event NTTA staff becomes aware that an AVI Lane Equipment call resolution may not be met within the resolution time allotted, they will follow escalation procedures and notify the appropriate parties at NTTA and DFW with an estimated time to completion and remediation plan for the AVI Lane Equipment call.
- 4.7 Escalation Procedures and Communication Plan
 - 4.7.1 NTTA shall provide and maintain a Communication Plan for the purposes of AVI Lane Equipment call/incident escalation.
 - 4.7.2 NTTA and DFW staff who shall receive notifications for AVI Lane Equipment calls/incidents will be indentified in the plan.
 - 4.7.3 DFW's internal escalation procedures should make every effort to notify the proper the NTTA representative in the event of an AVI Lane Equipment call/incident escalation.
 - 4.8 Service Delivery Plan Documentation
 - 4.8.1 NTTA shall maintain documentation for all AVIL Lane Equipment calls including but not limited to service call detail, Heat tickets, and resolution details as part of regular business operations.
- 4.9 Escalation of Emergency Situations:
 - 4.9.1 First Level Support During Peak Operational Hours, NTTA will respond to Emergency AVI Lane Equipment service calls within 30 minutes from receipt of the call from DFW AOC or DFW Help Desk. NTTA shall investigate the trouble reported and make reasonable efforts to correct the problem within four (4) hours from receipt of call.



North Texas Tollway Authority – AVI System Master Interlocal Agreement 7005264 Project Agreement No. 1 – Lane Equipment Maintenance and Support Exhibit C - Service Delivery Plan

- 4.9.2 Second Level Support If the Emergency AVI Lane Equipment service call is not resolved within four (4) hours, or the service call is beyond the capabilities of First Level Support, the AVI Lane Equipment service call is escalated to Second Level Support. Escalation to Second Level will follow the NTTAs Communication Plan.
- 4.9.3 Third Level Support If the Emergency AVI Lane Equipment service call is not resolved within eight (8) hours, it is elevated to Third Level Support. Escalation to Second Level will follow the NTTAs Communication Plan.
- 4.10 Service Level Delivery Plan records, procedures, tools and reports are subject to inspection by authorized Airport Board and NTTA representatives at any time.
- 4.11 Based upon the review and an analysis of the metrics, NTTA shall address and remedy any systematic problems or negative performance trends.
- 4.12 If Service Levels fall below minimums or service call resolution time exceeds fifteen percent (15%) of the total for reported service calls for one quarter, then the NTTA shall submit a plan for review and approval by the Airport to restore Service Levels at no cost to the Airport.
- 4.13 The Service Delivery Plan will be reviewed annually by the Airport Board's Designated Technical Representative, the PBU, and NTTA, and may be modified if required and mutually agreed upon in writing.

5.0 ATTACHMENTS

5.1 DFW/NTTA Communications Plan 03012010



NTTA/DFW Application Support Communications Process

The purpose of this document is to outline the protocol for support communications between NTTA and DFW. The NTTA strives to provide optimum support to DFW application users. In order to achieve this goal, issues should be reported through the process outlined below.

Customer Service

Users can notify the NTTA of any customer service requests by emailing <u>cscinteropdesk@ntta.org</u> which will go to select Customer Service Specialists to resolve issues. Responses will be directed to individual who submitted the original request.

After Hours Customer Service

Users can call **Robbie Jacobson** for after hours support at **469-853-1835**. This should only be used for critical needs that cannot wait until the next business day.

Customer Service Escalation

If a customer service request is made and is not addressed in a timely manner or a response is not received, the following escalation path may be used:

Name	Title	Desk Phone	Cell Phone	Email
Naderge Williams	CSC Team Leader - IOP desk	214-461-2014		nwilliams@ntta.org
Robbie Jacobson	Support Services Manager	214-224-2129	469-853-1835	rjacobson@ntta.org
John Bannerman	Director of Customer Service	214-461-2077	214-325-1946	jbannerman@ntta.org

Application Support

Users can notify the NTTA of any application issues by using the DFW ticketing system which will be sent to the following NTTA distribution list(s): DFW-Support@ntta.org. This email distribution contains support and personnel from NTTA and ETCC, as well as representatives from the NTTA Customer Service Center.

NTTA will provide responses and resolution to reported issues to the following distribution list(s): <u>GatewayAPPCCB@dfwairport.com</u>.

After Hours Application Support

Users can call for after hours support by using the attached on-call list.



Application Support Escalation

If application support requests are not resolved in a timely manner or a response is not received, the following escalation path may be used:

Name	Title	Desk Phone	Cell Phone	Email
Randi Oldham	RITE Applications Manager	214-461-2071	214-325-5529	roldham@ntta.org
Dave Pounds	Director of Information Technology	214-461-2025	972-765-4701	dpounds@ntta.org

DFW Contacts and Notifications

The NTTA will use the DFW distribution list <u>dfwgatewayusers@dfwairport.com</u> as the primary communication outlet for reporting scheduled maintenance windows or downtime. The following contacts can be used for communication and issue resolution within specific functional areas of DFW operations.

Name	Title	Desk Phone	Email
Kim McKay	Manager, Parking Guest Relations	972-973-4859	kmckay@dfwairport.com
David Galloway	Transportation Coordinator - Ground Transportation	972-574-8812	dgalloway@dfwairport.com
Mike Rutland	utland ITS Parking Operation Support Manager		mrutland@dfwairport.com
Bill Johnson	AVP Systems Operations	972-973-5350	bjohnson@dfwairport.com

Lane Support

Users can notify the NTTA of any TollTag Reader Lane Support issues at any time by contacting the on call NTTA technician at 214-924-0737.

Lane Support Escalation

If the NTTA on call technician does not respond or the reported issue is not resolved in a timely manner, the following escalation path may be used:

Name	Title	Cell Phone	Email
Sean Duncan	Parking Systems Manager	214-907-0224	sduncan@ntta.org
Barry Weems	Assistant Director of IT - Roadway Systems	214-325-5519	bweems@ntta.org
Dave Pounds	Director of Information Technology	214-243-5336	dpounds@ntta.org

North Texas Tollway Authority – AVI System Master Interlocal Agreement 7005264 Project Agreement No. 1 – Lane Equipment Maintenance and Support Exhibit D - Rates, Charges and Adjustments

1.0 DESCRIPTION

This Exhibit D – Rates, Charges and Annual Adjustments – shall identify how NTTA will be compensated for lane equipment maintenance and support as set forth in Project Agreement No. 1 and its Exhibits.

2.0 OBJECTIVES

The goal of this Exhibit D – Rates, Charges and Annual Adjustments – is to ensure NTTA is compensated in an amount not less than NTTA's actual costs in providing lane equipment maintenance and support plus five percent (5%).

3.0 RATES, CHARGES AND ANNUAL ADJUSTMENTS

- 3.1 In consideration of the maintenance and support provided by NTTA to the Airport Board for AVI Lane Equipment, the Airport Board shall remit to NTTA \$286 per lane in operation, per month.
- 3.2 At the time of this agreement, there are 64 operational lanes at DFW Airport under this Agreement.
- 3.3 As additional lanes are added or subtracted from the total count, the amount to be remitted to NTTA shall change and will be reflected on the monthly invoice from NTTA to the Airport Board.
- 3.4 No later than July 1 of each year during which this agreement is in effect, the NTTA shall submit to the Airport Board a notice specifying the rate for per lane AVI lane equipment maintenance and support that it proposes for the next 12-month period.
- 3.5 NTTA's proposed per lane AVI lane equipment maintenance and support fees will be based on historical cost data and shall not be less than actual costs incurred by NTTA to process Airport Charges plus five (5) percent.
- 3.6 The new per lane AVI lane equipment maintenance and support fees shall become effective 60 days after notice or on such a date as agreed to by NTTA and the Airport Board.
- 3.7 The Airport Board shall provide response to NTTA regarding per lane AVI lane equipment maintenance and support fee changes within 10 days of notice.
- 3.8 If an agreement cannot be reached within 30 days, and if this Agreement is not terminated, the per lane AVI lane equipment maintenance and support fees shall increase by 3% per lane and shall be effective 60 days from initial notice until such time as this Agreement either is so terminated or the Airport Board and the NTTA reach an agreement on per lane AVI lane equipment maintenance and support fees.



DFW AIRPORT PMM ORACLE ENTRY/CHANGE FORM

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con	CONTRACTOR NAME: North Texas Tollway Authority (NTTA)					
NEW CONTRACT ALL INFORMATION MUST BE ENTERED IN THIS CATEGORY.						
CONTRACTOR CONTA		CONTACT PHONE & EMAIL,	ADDRESS	REGISTERED IN ISUPPLIER?		
Allen Clemson		214-461-2000	5900 W. Plano Pkwy, Suite 100	YES		
Executive Director		aciemson@ntta.org		□NO		
RESPONSIBLE DEPAR	RTMENT/INFORMATIO	•	Plano, TX 75093	□ NO		
TECH REP N	AME:& TITLE	CONTACT PHONE & EMAIL				
Bill Johnson		972-973-5350	INFORMATION TECHNOLOGY SERVICES			
AVP		bjohnson@dfwairport.com	IN SKIIATISK PESIK	OLOGI SLIVIOLS		
CONTRACT HEADER	AT 71/05	assassas karakasta a ž isto.	INFORMATION / COMMENTS	and the state of t		
*CONTRA	RACT VALUE					
	OF CONTRACT					
RENEWAL						
	START DATE	_	_:			
FINAL TERM	NEND DATE					
PAYMEN						
PREIGHT	rterms					
SOLICITATION						
CONTRACT CHAN	4-444-4-1-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4	A CONTRACT OF THE PERSON OF TH	DE ASSOCIATED INFORMATION (SEE COMI			
	ICE CHANGE		INFORMATION // COMMENTS			
CHANGE	ORDER*	□ co#				
	Y ORDER		Lane Equipment Maintenance and Sup	port Services		
CONTRACT	CLOSE OUT	<u> </u>				
OTHER (E		 	-			
CONTRACT VALUE OF		DEFINE CHANGE (SEE COMMEN	T) CHANGE TO	REASON (CHOOSE FROM LIST)		
CONTRACT END						
		<u> </u>	T CHANGE ORDER	DELIVERY ORDER		
CONTRACT FUND		The state of the s		44 PARTON (2) (2) (2) (2)		
ADD LINE	232098	LINE # CURRENT LINE AMOUNT 1 \$	- \$ 55,500.00			
ADD LINE	232030	, ,	- 9 33,300.00	\$ -		
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			TACHED.			
ADDITIONAL COMMENTS / SPECIAL INSTRUCTIONS: Project Agreement Amount is \$720,000. Funding is for FY2010 funds. Other funding lines will be added to fund future fiscal years. Note that Project						
Agreements are similar to Delivery Order processes, just a different name. BOARD APPROVAL DATE: AMOUNT AWARDED BY BOARD:						
BOARD RESOLUTION NUMBER: □ OBA ATTACHED ← ← ← ← ← □ N/A						
CONTRACT ENTRY FORM SUBMITTAL, ENTRY, APPROVAL SECTION						
*** THIS FORM SUBMITTED BY: Ron Duncan DATE; SUBMITTED: 28-Sep-10						
20 10 10 10 10 T	CALENTERED BY:	(My 1)	DATE ENTERED	9/21/0		
	APPROVED BY:	al sent	DATÉ APPROVED:	0/30/10		
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