MEMORANDUM

DATE: May 14, 2025

TO: City of Hallandale Beach Department 400 South Federal Highway | Hallandale Beach, FL 33009

SUBJECT: City of Hallandale Beach Police Department – Community Gate Traffic

Caltran Engineering Group, Inc. (CALTRAN) was retained by City of Hallandale Beach to evaluate the potential traffic impacts, identify short-term roadway and circulation needs, determine potential mitigation measures, and identify critical issues that should be addressed as part of the city of Hallandale Beach Police Department – Community Gate Traffic project for the community entrance located at Golden Isles, Hallandale Beach, FL 33009.

Golden Isles has one entry / exit gate point located on the north side of the community along Layne Blvd, south of the intersection at Hallandale Beach Blvd. **Figure 1** illustrates the project location and gate site. This gate heron will be referred to as Gate 1.

Figure 1: Project Location

1.0 Introduction

This study was initiated to address the City of Hallandale Beach Police Department concerns regarding neighborhood security and to prevent an increasing number of non-residents entering. Such unregulated access condition has heightened worries about potential risks to both residents and their children. In response to these concerns, the community is considering the installation of a gated entry system that will allow monitoring of ingress vehicles without overly restricting right of access. This proposed solution aims to enhance security and create a safer, quieter, and more protected environment for the residents of Golden Isles.

To support this initiative, CALTRAN has conducted an evaluation of the existing and proposed conditions in order to determine the optimal gated system for monitoring, identify potential roadway impacts to the community, and provide recommendations that prioritize safety and convenience.

2.0 Data Collection

Data collection was performed on April 22, 2025 at the gated entry / exit. **Appendix A** provides the raw data collection with **Table 1** summarizing the vehicle data for both gates.

Table 1: Data Collection – Vehicle Volumes

Gate 1			
Date	04/08/2025 (Tue)	04/09/2025 (Wed)	Average (rounded)
24-hr Volume	1,674	1,917	1,800
AM Peak (7-9am)	139	139	140
PM Peak (4-6pm)	133	148	140
Visitor-Only Peak (λ)	93	103	100

3.0 Gate Queue Analysis

A queue analysis for the gated entry access was conducted. This analysis indicates that the gate storage is sufficient to accommodate the 95th percentile queue generated by the community.

Based on the data collection and field review, it was noted that queue times for visitors were minimal (around 5 second delay) between the vehicle slowing down on approach, gate opening, and vehicle passing through. **Figure 2** provides video recorded screen shots with time stamps depicting a typical arrival and departure time at the gate.

Figure 2: Gate Arrival and Departure Queue Observation

3.1 Existing Gate Queue Analysis

Queue Analysis was performed utilizing the M/M/1 queue model. Based on existing visitor data collected, a conservative service rate (μ) of 5 seconds per vehicle was determined along with a peak hour arrival rate (λ) of 330 vehicles for Gate 1.

The methodology for calculating service and queue times for visitors is as follows:

Service Rate (μ):

$$\mu_v = \frac{3600\ seconds\ per\ hour}{5\ seconds\ per\ vehicle} = 720\ vehicles\ per\ hour$$

Arrival Rate by Group (λ):

$$\lambda_v = 100\ vehicles\ per\ hour$$

Utilization (p):

$$p_v = \frac{\lambda_v}{\mu_v} = \frac{100}{720} = 0.139\ (ratio)$$

Average Wait Time in Queue (W):

$$W_v = \frac{p_v}{\mu_v - \lambda_v} \times 60\ = \frac{0.139}{720 - 100} \times 60 \approx 0.01\ minutes.$$

Average Number of Vehicles in System (L):

$$L_v = \frac{p_v}{1 - p_v}\ = \frac{0.139}{1 - 0.139} = 0.161 \approx 1\ vehicle.$$

95th Percentile Queue (Q):

$$L_{95,v} = L_v + 1.645 \times \sqrt{L_v} = 0.161 + 1.645\ \times \sqrt{0.161} = 0.822 \approx 1\ vehicle$$

The 95th percentile queue length is around 1 vehicle, or 25 feet, confirming that the available queuing space (140 feet, or 5 vehicles) is more than sufficient to handle peak-hour demand for both residents and visitors.

3.2 Proposed Future Gate System

With the intent to address the growing security concerns for the residents of the Golden Isle community, a monitored gate system is to be implemented. Based on information provided by Regions Security, the selected security provider for the community, the proposed gate will provide controlled access by monitoring ingress vehicles without adversely restricting right of access.

The system will consist of a Lift-master breakaway stop arm system with LED indicators, set of integrated cameras to capture pictures of the vehicles plate, and respective sensors installed to trigger the image capture and opening of the gate. The gates open and close duration time is 2.5 seconds.

The breakdown for the proposed gate system service rate is as follows:

Proposed Gate System Service Rate:	
Vehicle Slow to Stop	1.5 seconds
Plate capture	0.5 second
Gate opening time	2.5 seconds
Driver reaction/start-up	1.0 second
Vehicle clearing the gate	3.0 seconds
Subtotal (entry/exit)	**8.5 seconds**
Added safety time buffer	1.5 seconds
Total service rate per vehicle =	**10 seconds**

Table 2 provides a breakdown of the existing conditions queues compared against the proposed gated condition queues.

See **Appendix B** for the Gate 1 proposed conceptual improvements along with a cost estimate for implementation. Note that the provided cost estimate does not include Regions Security cost estimates as given in **Appendix C** Gate Management proposal.

Table 2: Gate Queue Analysis – Calculation Summary

Gate 2 – South Gate			
Criteria	**Eq.**	**Existing Gate Operations**	**Proposed Gate Operations**
Service Rate	(μ)	5 sec/vehicle (720 vph)	10 sec/vehicle (360 vph)
Arrival Rate	(λ)	100 vph	100 vph
Utilization	(p)	0.139 ratio	0.278 ratio
Average Wait	(W)	0.01 mins	0.06 mins
Average Veh.	(L)	0.161 (1 vehicle)	0.385 (1 vehicle)
95th %tile.	(Q)	0.822 (1 vehicle)	1.405 (2 vehicles)
Storage Length		140’ (5 vehicles)	
Sufficient Storage?		**Yes**	**Yes**

Based on the analysis and assuming a conservative service rate of 10 seconds per vehicle for the proposed gate system, it was concluded that Gates 1 will be able to accommodate visitors in a timely manner while maintaining sufficient storage.

4.0 Conclusion and Recommendations

This traffic memorandum aims to addresses the need of a gate system due to growing security concerns of the Golden Isles community. The proposed improvements include a monitored gated system which will provide controlled access and security by monitoring ingress vehicles without restricting right of access. This configuration will allow residents and visitors to enter and exit with minimal interference while maintaining the monitoring system in place.

The queue analysis conducted as part of this study confirms that the existing gate can efficiently accommodate the expected peak hour visitor traffic. Analysis shows that the provided queuing space of 140 feet provides sufficient storage to handle peak-hour demands assuming a conservative gate service rate of 10 seconds per vehicle.

Considering the results, implementation of the proposed gated monitoring system will not adversely impact the surrounding roadway network.

Appendix A
Data Collection

County: 99
Station: 1113
Description: GATE 1 GOLDEN ISLES (LEYNE BLVD)
Start Date: 04/08/2025
Start Time: 0000

Direction: N

Time	1st	2nd	3rd	4th	Total
0000	1	2	0	0	3
0100	1	2	0	0	3
0200	0	0	0	0	0
0300	1	0	0	0	1
0400	1	1	11	4	17
0500	4	5	2	2	13
0600	8	8	18	19	53
0700	18	26	41	25	110
0800	27	21	25	41	114
0900	25	40	33	33	131
1000	30	38	25	37	130
1100	20	30	36	48	134
1200	19	22	28	29	98
1300	27	28	31	24	110
1400	29	24	20	26	99
1500	31	41	35	25	132
1600	27	34	28	18	107
1700	25	31	24	23	103
1800	35	29	28	14	106
1900	22	18	17	13	70
2000	21	21	11	14	67
2100	9	17	10	7	43
2200	9	6	2	5	22
2300	4	1	2	1	8
24-Hour Totals:					1674

Peak Volume Information

	Hour	Volume
A.M.	845	139
P.M.	1445	133
Daily	845	139

Generated by SPS 5.0.0.61

County: 99
Station: 1113
Description: GATE 1 GOLDEN ISLES (LEYNE BLVD)
Start Date: 04/09/2025
Start Time: 0000

Direction: N

Time	1st	2nd	3rd	4th	Total
0000	7	2	1	0	10
0100	2	5	9	0	16
0200	2	3	0	1	6
0300	1	1	3	0	5
0400	2	0	1	4	7
0500	2	0	4	4	10
0600	6	11	12	18	47
0700	34	20	39	30	123
0800	29	20	30	40	119
0900	29	31	39	26	125
1000	26	27	40	35	128
1100	43	27	41	38	149
1200	37	36	22	37	132
1300	28	28	31	25	112
1400	27	30	46	28	131
1500	26	30	35	49	140
1600	32	31	36	27	126
1700	37	33	37	27	134
1800	39	21	22	30	112
1900	27	23	32	22	104
2000	26	20	25	24	95
2100	11	7	7	10	35
2200	6	3	6	9	24
2300	9	5	7	6	27
24-Hour Totals:					1917

Peak Volume Information

	Hour	Volume
A.M.	845	139
P.M.	1545	148
Daily	1130	152

Generated by SPS 5.0.0.61

County: 99
Station: 1114
Description: GATE 1 GOLDEN ISLES (LEYNE BLVD)LANE 1 VISITOR
Start Date: 04/08/2025
Start Time: 0000

Direction: S					
Time	1st	2nd	3rd	4th	Total
0000	5	0	1	2	8
0100	1	2	1	1	5
0200	0	0	0	0	0
0300	2	0	0	0	2
0400	0	0	1	2	3
0500	0	1	1	2	4
0600	0	3	6	9	18
0700	6	7	11	15	39
0800	13	27	14	21	75
0900	27	24	20	16	87
1000	23	14	28	24	89
1100	24	29	6	16	75
1200	8	33	21	21	83
1300	18	16	23	18	75
1400	16	13	15	15	59
1500	28	15	12	19	74
1600	18	20	21	13	72
1700	16	21	14	17	68
1800	24	18	12	19	73
1900	14	26	15	12	67
2000	19	17	19	12	67
2100	16	11	9	13	49
2200	10	4	7	6	27
2300	6	3	1	3	13
24-Hour Totals:					1132

Peak Volume Information

	Hour	Volume
A.M.	845	92
P.M.	1215	93
Daily	1030	105

Generated by SPS 5.0.0.61

County: 99
Station: 1114
Description: GATE 1 GOLDEN ISLES (LEYNE BLVD)LANE 1 VISITOR
Start Date: 04/09/2025
Start Time: 0000

Direction: S					
Time	1st	2nd	3rd	4th	Total
0000	5	0	0	2	7
0100	3	4	5	0	12
0200	3	3	1	1	8
0300	1	3	1	0	5
0400	1	0	1	2	4
0500	0	1	1	0	2
0600	3	5	1	8	17
0700	12	12	15	10	49
0800	24	14	30	20	88
0900	28	25	21	24	98
1000	19	20	21	26	86
1100	20	20	21	24	85
1200	16	15	24	22	77
1300	23	22	15	21	81
1400	21	17	16	22	76
1500	23	19	21	19	82
1600	21	15	29	22	87
1700	23	18	23	24	88
1800	14	25	18	22	79
1900	22	16	14	18	70
2000	17	22	22	14	75
2100	13	7	10	16	46
2200	10	9	8	12	39
2300	7	10	5	8	30
24-Hour Totals:					1291

Peak Volume Information

	Hour	Volume
A.M.	830	103
P.M.	1630	92
Daily	830	103

Generated by SPS 5.0.0.61

County: 99
Station: 1115
Description: GATE 1 GOLDEN ISLES (LEYNE BLVD)LANE 2 RESIDENT
Start Date: 04/08/2025
Start Time: 0000

Direction: S

Time	1st	2nd	3rd	4th	Total
0000	4	3	1	0	8
0100	0	0	0	0	0
0200	0	0	0	0	0
0300	0	0	0	0	0
0400	0	0	1	0	1
0500	0	0	0	0	0
0600	1	0	2	2	5
0700	4	3	1	3	11
0800	6	5	7	9	27
0900	12	9	2	14	37
1000	4	3	3	5	15
1100	5	7	10	14	36
1200	6	17	5	7	35
1300	10	8	6	7	31
1400	11	5	17	10	43
1500	8	20	14	11	53
1600	10	8	14	17	49
1700	13	11	17	15	56
1800	15	14	15	18	62
1900	14	11	13	7	45
2000	3	12	6	15	36
2100	6	7	3	5	21
2200	5	4	3	3	15
2300	2	3	1	5	11
24-Hour Totals:					597

Peak Volume Information

	Hour	Volume
A.M.	830	37
P.M.	1800	62
Daily	1800	62

Generated by SPS 5.0.0.61

County: 99
Station: 1115
Description: GATE 1 GOLDEN ISLES (LEYNE BLVD)LANE 2 RESIDENT
Start Date: 04/09/2025
Start Time: 0000

Direction: S					
Time	1st	2nd	3rd	4th	Total
0000	2	3	1	1	7
0100	0	0	0	0	0
0200	0	0	0	0	0
0300	0	0	0	0	0
0400	0	1	1	0	2
0500	0	0	1	0	1
0600	1	0	2	3	6
0700	2	2	4	1	9
0800	5	7	2	8	22
0900	15	5	5	3	28
1000	6	5	8	10	29
1100	7	10	7	7	31
1200	8	10	18	7	43
1300	13	12	11	6	42
1400	4	6	11	15	36
1500	6	12	16	12	46
1600	21	11	17	10	59
1700	14	20	20	9	63
1800	14	14	15	15	58
1900	13	15	10	11	49
2000	11	12	12	12	47
2100	6	6	10	3	25
2200	1	7	5	1	14
2300	5	3	2	0	10
24-Hour Totals:					627

Peak Volume Information

	Hour	Volume
A.M.	845	33
P.M.	1645	64
Daily	1645	64

Generated by SPS 5.0.0.61


Golden Isles


STOP


EZVIZ
04-08-2025 07:51:56 (S)


EZVIZ
04-08-2025 07:52:03 (S)

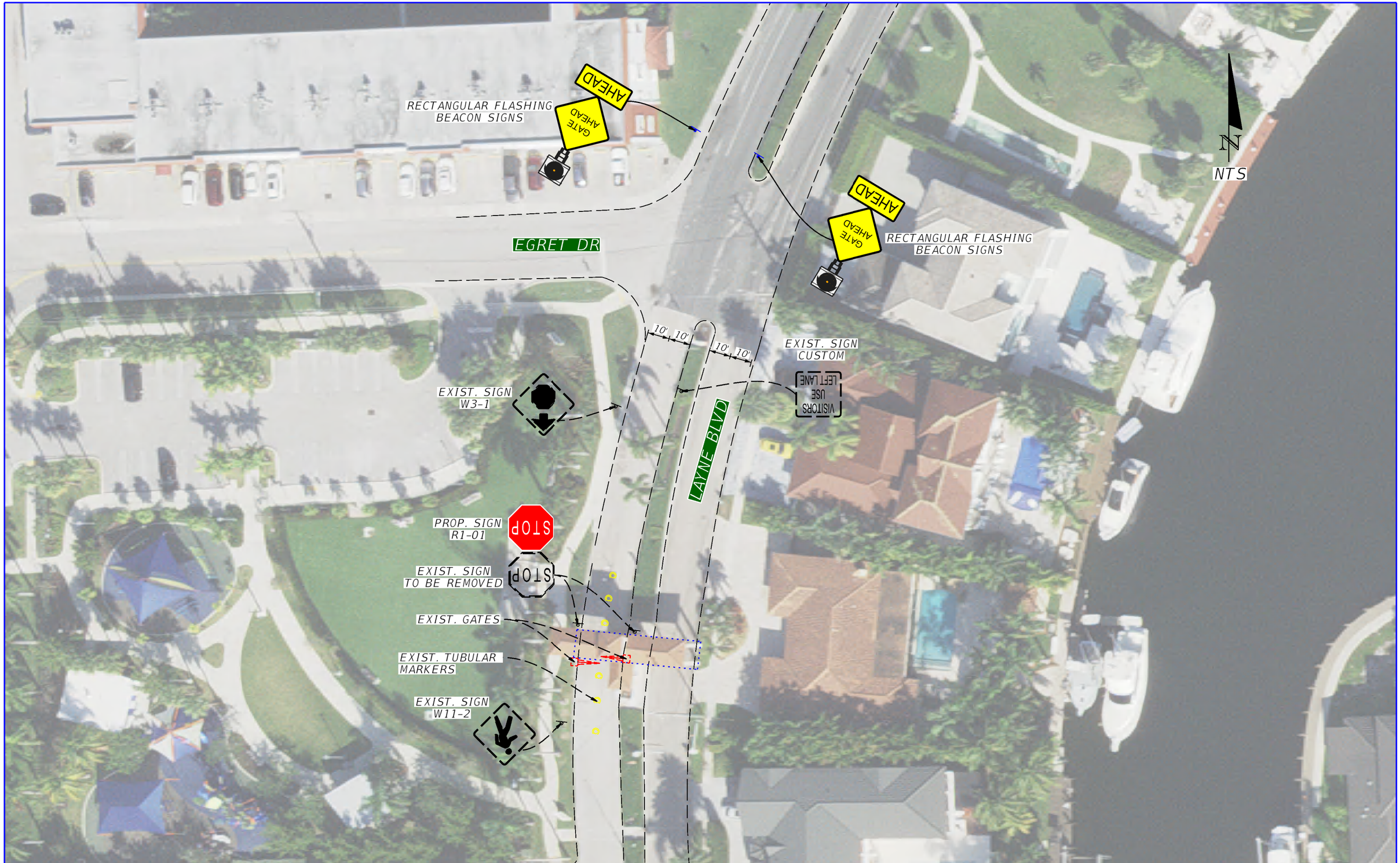

EZVIZ
04-08-2025 13:13:51 (S)


EZVIZ
04-08-2025 13:13:57 (S)


EZVIZ
04-09-2025 15:21:10 (S)


EZVIZ
04-09-2025 15:21:56 (S)

Appendix B
Gate Proposed Conceptual Improvements
and Cost Estimates



REVISIONS					STATE OF FLORIDA				SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROPOSED CONDITION GATE 1	2

$USER$ $DATE$ $TIME$ $MODELNAME$ $FILE$

CONSTRUCTION COST ESTIMATE - GOLDEN ISLES (GATE 1)					
PAY ITEM NO.	**DESCRIPTION**	**UNIT**	**UNIT COST**	**QUANTITY**	**COST**
	SIGNAL				
	ROADWAY				
0102 1	MAINTENANCE OF TRAFFIC	LS	$1,234.98	1	$1,234.98
0110 1 1	CLEARING & GRUBBING	AC	$5,550.29	0.025	$138.76
	PAVEMENT MARKIG AND SIGNS				
0700 1111	SINGLE COLUMN GROUND SIGN ASSEMBLY, F&I GROUND MOUNT, LESS THAN 12 SF	EA	$512.84	2	$1,025.68
0700 1600	SINGLE COLUMN GROUND SIGN ASSEMBLY, REMOVE	EA	$39.37	2	$78.74
0654 2 15	MIDBLOCK CROSSWALK: RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- AC POWER, MAST ARM MOUNT RRFB SIGN ASSEMBLY	EA	$2,417.00	2	$4,834.00
				TOTAL	$2,478.16
				DESIGN (20%)	$495.63
				POST DESIGN (9%)	$223.03
				MOBILIZATION & MOT (15%)	$371.72
				CONTENGENCY (10%)	$247.82
				CEI (15%)	$371.72
				GRAND TOTAL	$4,188.09

Appendix C
Regions Security
Gate Management Proposal

REGIONS SECURITY

"Ensuring A Safer Tomorrow"

Golden Isles

Gate Management

Access Control Upgrade

Confidential Proposal
May 9, 2025

Regions Security Services
1100 NW 72nd Ave
Miami, FL 33126
(305) 517-1266

www.RegionsSecurity.us
technology@RegionsSecurity.us

About Us

Regions Security' mission is to optimize the protection of our clients' assets by developing and implementing a strategic plan. We strive to be the most dynamic and resourceful security provider for all our clients. As one of the tops fastest growing companies in South Florida, Regions Security continues to expand rapidly in all major vertical markets. Our business extends throughout the tri-county area with contracts from north of Jupiter in Palm Beach County to south of Homestead in Miami-Dade County. Regions Security offers innovative technology, highly trained security professionals and best-in-class customer service and support. We meet your needs, your budget and help you and your organization accomplish your security goals.

Regions Security has earned the confidence of our valued customers by providing professional assistance with all our access control and video surveillance installations. Our company's corporate offices and customer support center are in Miami, Florida adjacent to Miami International Airport. Our facilities support our networking and systems engineering department, as well as our help desk and technical services. We maintain a customer support department providing 24/7 help desk support. We only carry professional grade equipment and security software. Each of our support representatives has completed comprehensive training on all our products and has extensive knowledge of product application and equipment troubleshooting. Regions can help you understand your technological security risks by offering a complementary Security Risk Assessment of your company's operation, office and exterior areas including parking lots and building entrances. We will help you determine the best Access Control and Surveillance Systems for your facility to guarantee the highest level of uninterrupted operation. Regions works with you to design a customized solution that addresses the evolving security needs of your organization in the most effective way possible.

Digital video surveillance helps deter crime, theft, vandalism, and employee theft. Security cameras and digital video recording may reduce fraudulent liability claims with clearly documented incidents. Video surveillance may also improve employee productivity and business efficiencies. Access Control systems help protect valuable assets and sensitive areas by restricting and managing all entry points. These systems help increase employee safety and eliminate costly re-keying and lock changes. Experienced installation service members guarantee your system will be trouble-free. Each system includes a full 100% one-year warranty on parts and labor. Our technicians are available 24 hours a day, seven days a week. We are focused on customer satisfaction, which is an integral part of our past success and the cornerstone of our future growth. Our goal is 100% customer satisfaction.

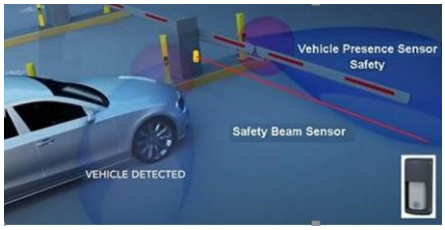
Regions Security is a Veteran-Owned Small Business and a specialized provider of security and ancillary services. Regions Security was born out of the desire and need to address unresponsive and substandard services, red-tape and service delays often offered by other companies. Regions Security was formed in 2010 by its President & CEO Carlos Rivero, Jr. after serving in the U.S. Army and managing numerous security companies. Mr. Rivero is a recognized service-disabled veteran who served in the Operation Enduring Freedom military initiative in 2001-2002.

Gate Access Control System

At LiftMaster, we don't just open gates, we open possibilities. LiftMaster is driven by innovation, reliability, and commitment to safety. As a leading name in gate operator technology, we specialize in designing and manufacturing high-performance access control solutions for residential, commercial, and industrial applications. For decades, LiftMaster has set the standard in the industry by delivering gate operators that combine cutting-edge technology with unmatched durability. Whether securing a gated community, managing traffic flow at a business facility, or automating estate entrances, our products are built to meet the highest standards of performance and reliability. We offer a full line of gate operator solutions, including slide, swing, barrier, and overhead gate systems—each engineered to integrate seamlessly with LiftMaster's smart access control platforms. With features like myQ® connectivity, real-time alerts, remote monitoring, and secure cloud-based management, LiftMaster gate operators go beyond automation, they provide peace of mind. Our nationwide network of trained professionals ensures that every LiftMaster system is installed with precision and supported with expert service. We take pride in helping property owners and facility managers create safer, more efficient environments. Innovative Counterbalance System that simplifies arm direction changes, Breakaway Arm Technology designed to protect against damage from vehicle arm strikes. Integrated LED Tower Lights for better visibility, High Speed Operation with a 2.5s open and close duration, Built-in Wi-Fi® lets you easily connect to myQ Facility software, allowing you to get valuable data and insights to improve operations.

GateArms Technologies, based in Florida, is a leading manufacturer of innovative LED gate arms designed to enhance visibility and safety. With multiple patents, we pioneered the first affordable illuminated gate arm for communities. Our products combine durability, DOT-compliant reflective tape, and bright LED lighting to improve access control at gates nationwide.

Optex is a trusted industry leader, known for innovative sensing solutions that deliver reliable performance detecting the presence of vehicles in all environments. Ideal for gate and barrier arm applications, the sensor is installed above ground near the gate operator. It can be mounted on a pole. The detection area is customizable with 8 range settings, 5 sensitivity levels, and simple calibration. In security gate applications, the sensor detects vehicles only, ignoring pedestrian movement. No additional ground loop detectors are needed, no street cutting required, no more faulty loops caused by weather changes.



At Regions Security, we specialize in reliable gate arm solutions for residential communities, commercial properties, and private facilities across South Florida. Focused on quality, safety, and performance, we design, install, and maintain automatic gate systems that regulate vehicle access, enhance security, and improve traffic flow. With years of experience in access control and a commitment to personalized service, our team ensures each system is expertly installed and backed by responsive support. We deliver dependable solutions, from initial consultation to ongoing maintenance, to keep your entrances secure and running smoothly every day.

Gate Barrier AccessGate Barrier Access
(Entry & Exit Lanes Golden Isles)

Description **QTY**

Liftmaster New Arm Gate Barrier with Breakaway Arm and LED Tower Lights Technology **4**

Rated Continuous Duty Cycle, 2.5-second Open/Close time, LCD color display interface, electronic limit settings, DC Logic Board with visual interface, 24V DC brushless motor with soft start/stop, 303.5:1 direct drive gear reduction, internal spring system for counterbalance, 10-gauge aluminum frame, 120Vac 1PH voltage connections, battery backup 2x 12V 7Ah batteries, temperature -4°F to 140°FLiftMaster Security+ 2.0 radio receiver with 3 channels, diagnostics log, functional arm lengths of 10 ft, 12 ft, and 14 ft, optional red/green LED arms.

Locations: Layne Blvd.Entry (2), Exit (2)

Optex Microwave & Ultrasonic Vehicle Sensor **4**

Microwave detection patterns (blue above) are adjustable from 6.56 to 18.04 feet. The Ultrasonic Sensor is for close range detection (purple). The OVS-01GT also features 5 sensitivity settings. Microwave and Ultrasonic combination Microwave 24GHz, Ultrasonic 56KHz 500msec 12-24VDC. -22°F to 122°F. Factory Warranty is one year on electronic components.

Omron Reflective Photoelectric Beam Sensor (Visitor & Residents) (One per Lane) **4**

Omron Long Range Photoelectric Sensor with Reflector, Universal AC/DC Supply Voltage, DPDT 10A Relay Output, Easy to wire terminal strip, Mutual Interface Protection, Retroreflective, 12-240VDC, 10m (32.8ft) Sensing Distance, heavy-duty, 950nm pulse modulated infrared LED light source to detect included Reflector.

TRENDnet 28 Port Managed PoE Switch **1**

Gigabit ports, 2/4 Shared Gigabit ports (RJ-45/SFP), managed interface, IPv6, LACP, VLAN, QoS, Snooping, Bandwidth control per port, 56Gbps switching capacity, IEEE 802.1p QoS with queue scheduling support, Fanless rack mountable metal housing,

Cyberpower 1500VA LCD 120V 1500VA 8 Outlets **1**

Designed for servers, desktops and all peripherals with 8 outlets providing backup & surge protection. LCD display voltage, load and usage.

Gate Barrier Deployment

Installation Services

Includes the installation of new barrier gates, control switches, mounting brackets, and protective housings, cables, materials and labor. *This service does not include city permits, engineering plans, or any associated processing fees. A safety loop will be required to protect vehicles. A safety loop will be required to protect vehicles. Price includes the deployment of 4 new ground loops*

Engineering and Programming Services

Regions will deploy and configure a secure network infrastructure to manage all installed devices. Each device will be programmed for optimal performance, including all motors, switches, and vehicle sensors.

Access Control Systems (2 Entries / 2 Exits) - TOTAL $ 31,377.00

(Plus, Sales Tax)

Advanced Access Control System

ProdataKey started 11 years ago and has quickly positioned itself as a leader and innovator of access control solutions. Legacy access control is a thing of the past. We saw a need in the industry for something better. Consumers want a mobile-first platform. Mountain West Capital Network recognizes ProdataKey as one of the top 100 fastest-growing companies. We believe that the best technology is created by professionals that have experienced firsthand in the field of installing a system or programming software. Experimentation without fear of failure leads to a culture of teamwork and innovation. Acting with urgency when our partners need help and being good stewards of the company's funds, property, and culture

- Cutting-edge development platform easily integrates with security and user management.
- Solutions such as T&A, video surveillance, biometric recognition and many more
- Total Elevator Control interface and application with passwords for elevated level of security.
- Compatible with all Rosslare's access control panels. Advanced Access Group assignment.
- Access Monitoring capability. User-friendly software with intuitive GUI interface.
- Manages user data, photo and information fields, access rights, alarms, all centralized.

ASSA ABLOY
Opening Solutions

HES and Securitron have united as ASSA ABLOY Electronic Security Hardware, bringing together the best of both brands: the innovation, strength and service of HES with the durability, quality and no-fault warranty of Securitron. Founded forty years ago, HES and Securitron established global reputations by developing innovative electric strikes and electromagnetic locks and cultivating long-term relationships with sales channel partners, all based on the needs of our valued customers. ASSA ABLOY honors the past of these storied companies, built on the loyalty of our customers, while innovating for the future through an expanded product portfolio. While all the products you know and love remain available, the product portfolio will expand with increased offerings in cabinet locks, power supplies and low power locking solutions. These products provide expanded solutions for our increasingly mobile society as more people look to protect valuable personal devices and items at work, school and home.

Golden Isles Resident Lane Access Control System

Description	QTY
PRODATAKEY (PDK) IP Based Access Control DOOR Panel	**1**
PRODATAKEY (PDK) Access Control Application Software	**1**

Ethernet WiMACTM Wireless (2.4GHz/ 802.15.4), AES 128bit, Wireless Range 1 Mile LoS, 450ft indoor, Temp. -4°~+140° F, 0-95% relative humidity, Built-in Power Supply, Industrial-grade 2A Form-C Relay, Dimensions 10.4” x 7.6” x 3”, lockable enclosure, indoor use only, Conforms to UL 294.

ROSSLARE UHF Long Range Vehicle Transponder Reader	**1**
Aluminum 4x4 x 8 feet White Pole	**1**

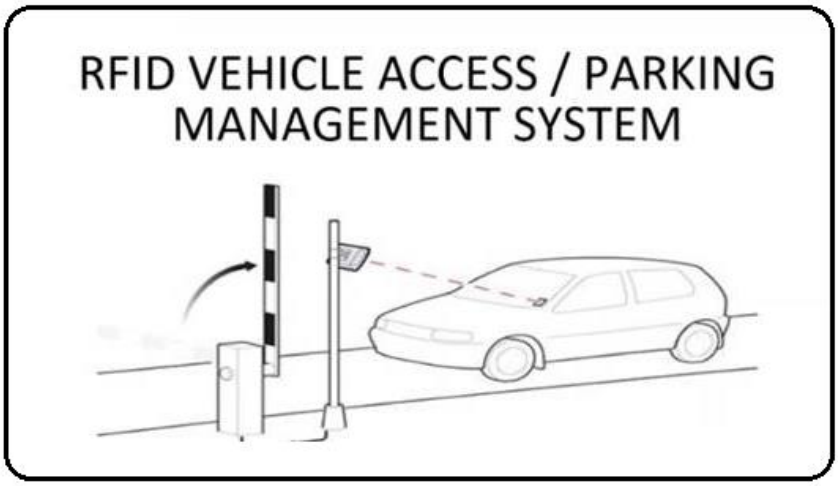
Wide range of UHF credential form factors available, UHF read range up to 39 ft UHF, Supports Bluetooth communication, smartphone apps for Android and iOS, Can read up to 10 credentials per second, IP67 water and dust resistant, IK10 vandal resistant, RGB LED used for operational indication Wiegand 26-bit up to 128-bit.

ROSSLARE UHF Vehicle Transponder Label

Long-range RFID vehicle tag made by Rosslare for long-range readers only, passive 26-bit Wiegand format, mounted inside of a windshield, tamper proof, non-transferable design, reads up to 30 feet. Outdoor UHF Hard Tag (black) available for UHF cancel Front (50 labels per pack – Not Included).

Equipment Installation Services

Installation of a new access control panel, transponder reader, cabinets, brackets, and housings. Includes all materials, labor, cable terminations, certifications, and video connections. Excludes city permits, engineering plans, and related fees. A minimum 30Mbps Internet upload speed is recommended for authorized remote security system access.



Access Control System Resident Lane - TOTAL $ 5,836.00

PDK Network Cloud Node Hosting - TOTAL $ 18.00/Month (Billed Annually)

(Plus, Sales Tax)