



Automated License Plate Readers

More Than Just Reading License Plates

Tools and
Technology
For
Law Enforcement
ALPR

Does your Community
Need Them ?



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The Best Police Technology



Technology will make your Community Safer ! Cheaper than Cops !

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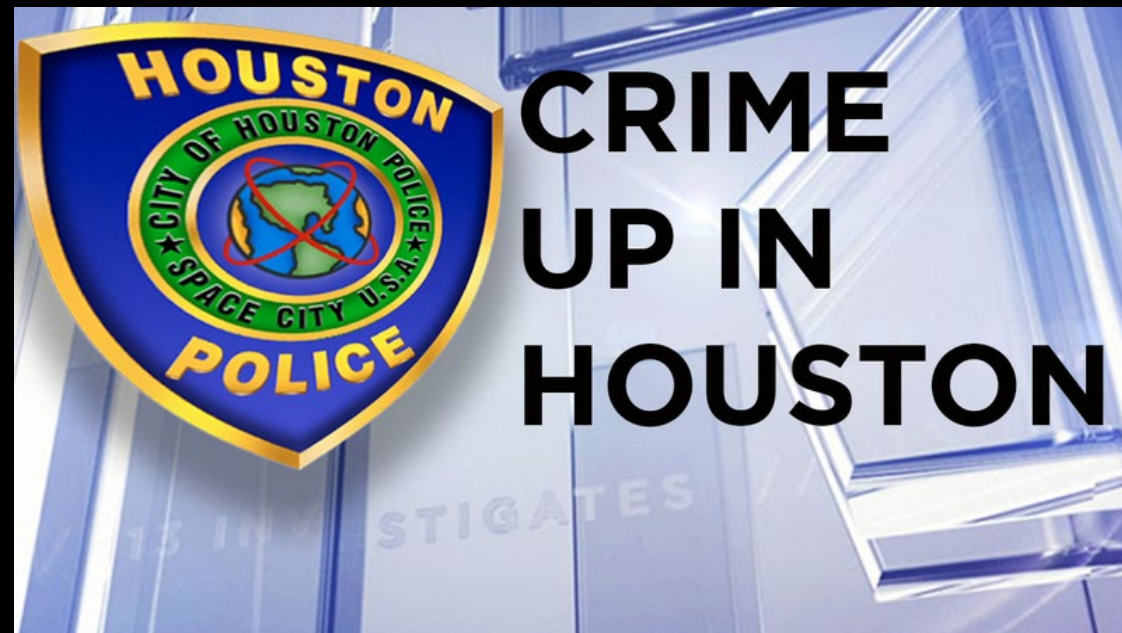


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The Problem

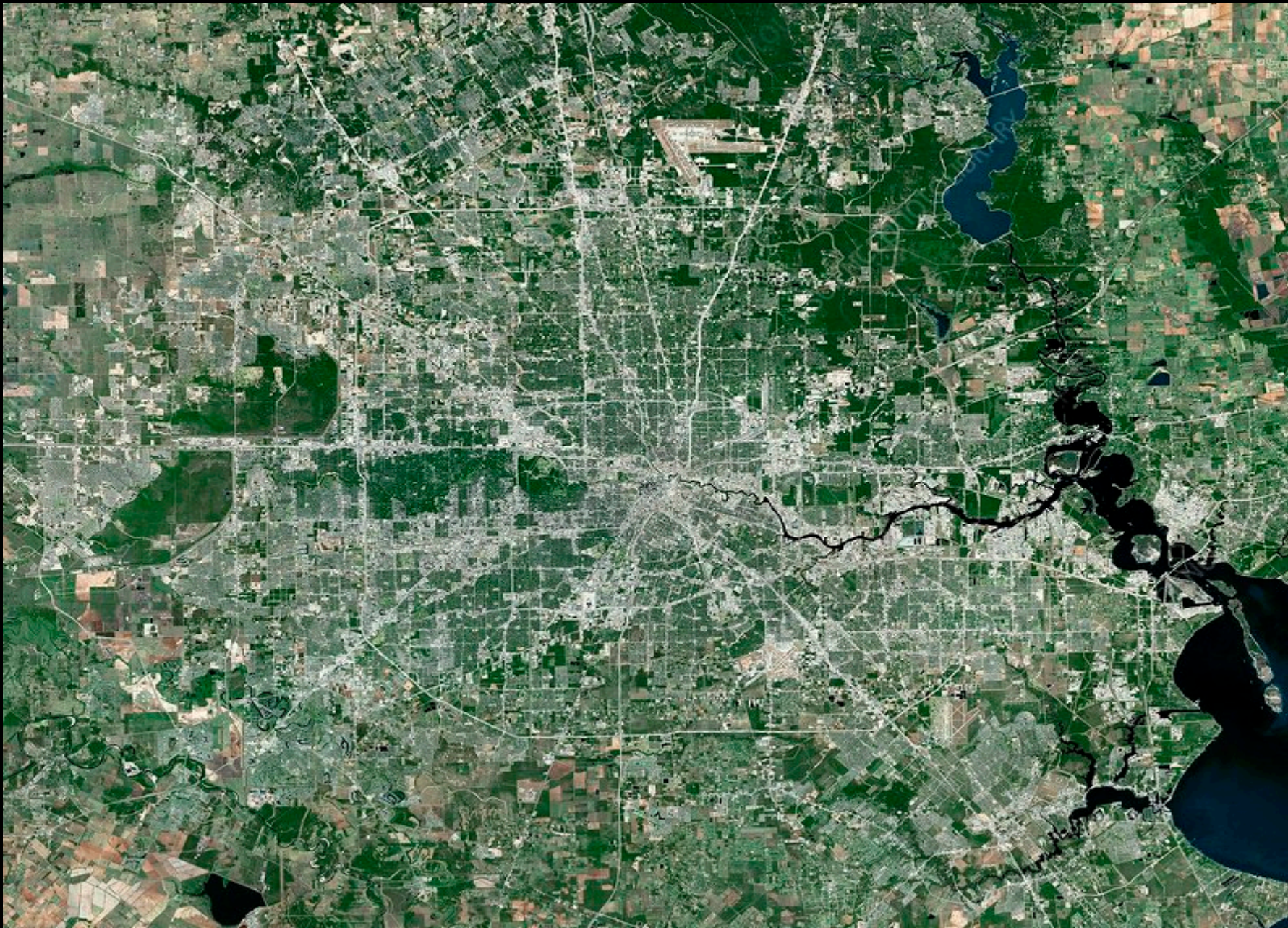




Property Crimes



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THE ALPR







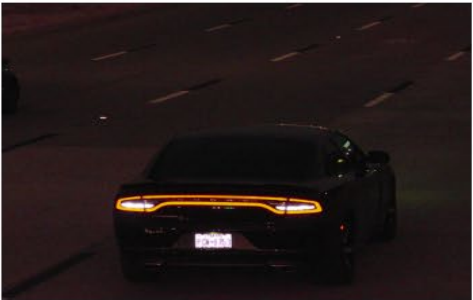

Not Just Recovering Stolen Vehicles



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Plate Date	IN DI9211 1/16/2023, 2:06:53 PM 1 hour ago	Source Topic Description	NCIC Stolen Vehicle BLK LNDR VLR	Camera Network	#22 - NB Voss x Magnolia Bend (Lane 2) Memorial Villages TX PD
					
Plate Date	TX PCW8753 1/14/2023, 6:00:04 PM 1 day ago	List Name Case Number Reason	Houston METRO PD Regional Suspect Vehicle - Hot List 22-83808 BMV auto theft suspect vehicle: black 2017 Dodge Charger 4 door. At approximately 3:06pm on 10-5-22, suspects enter the Cypress P&R parking garage and commit a BMV where the suspects appear to have been attempting to commit an auto theft due to the complainant's dash being taken apart.	Camera Network	#01 US Coins Exiting EB US Coins
					

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SEX Offenders

Hits Report

Total Hits:

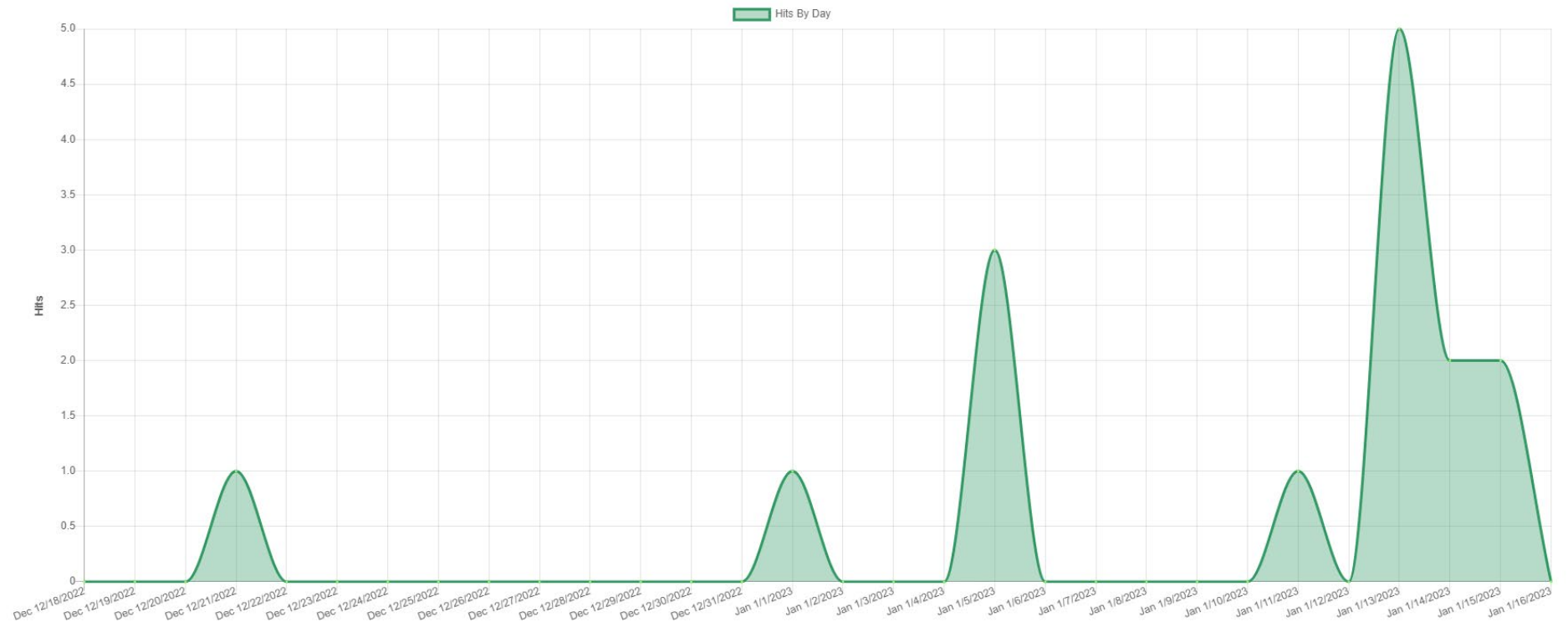
15

[DOWNLOAD CSV](#)

Dec 18 - Jan 16

Topics (1) ▾

Devices (33) ▾



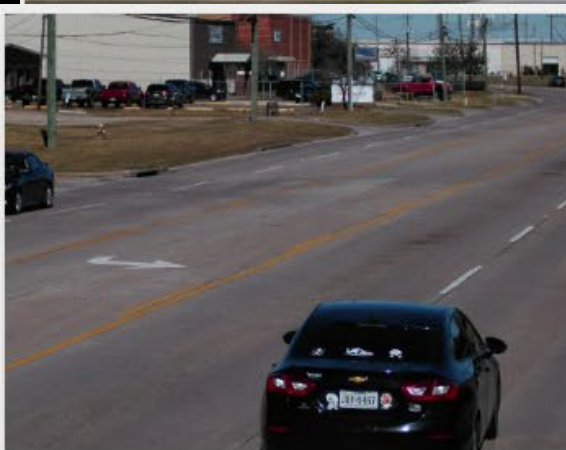


Plate TX JXV546
Date 1/13/2023, 11:25:56 AM
Camera #07 Underwood Rd @ N P St NE



Plate LA 376BJC
Date 1/13/2023, 9:28:11 AM
Camera #04 Northbound Fountain Lake Circle near

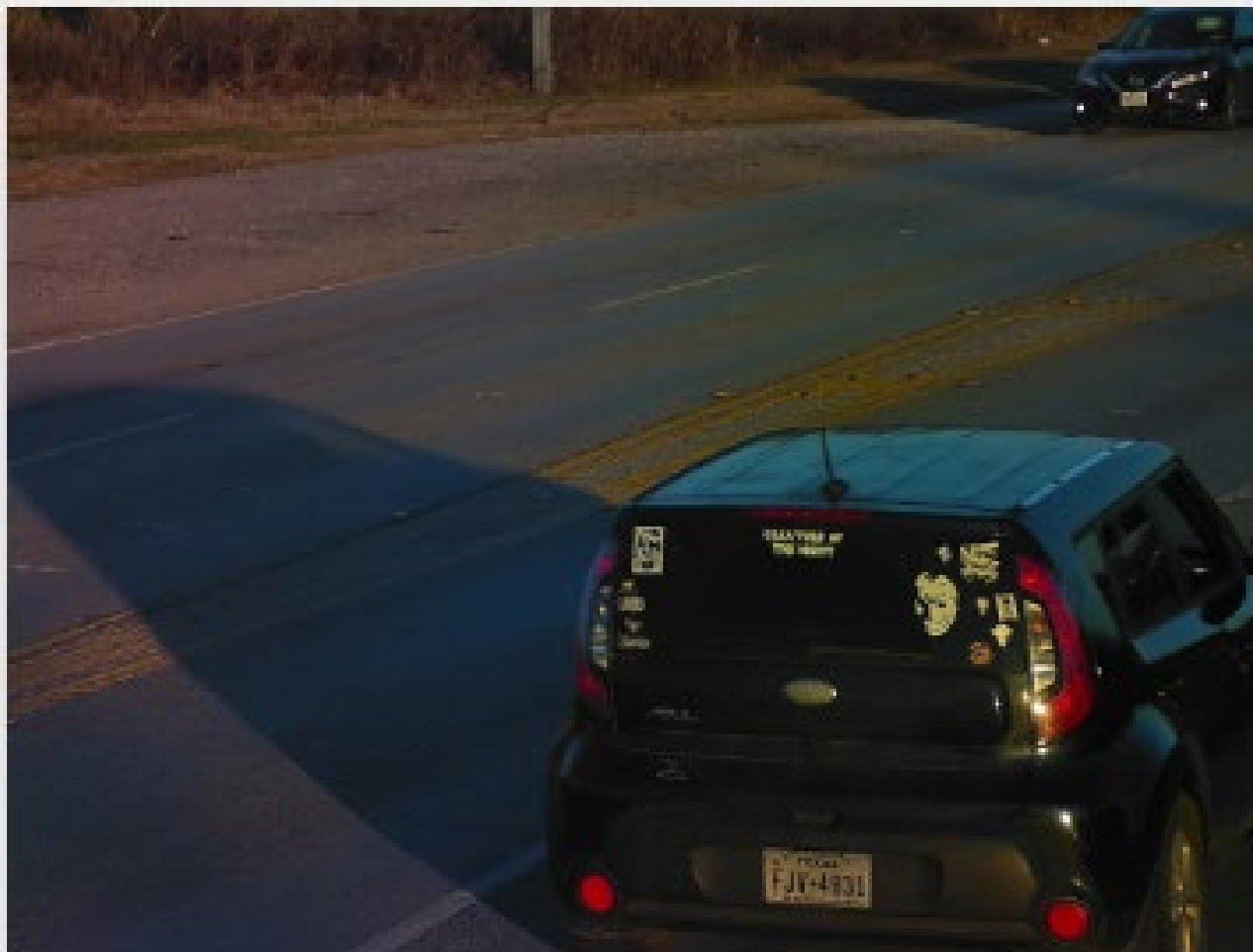


Plate TX FJV4831
Date 1/12/2023, 5:12:19 PM
Camera #15 EB Market 11500

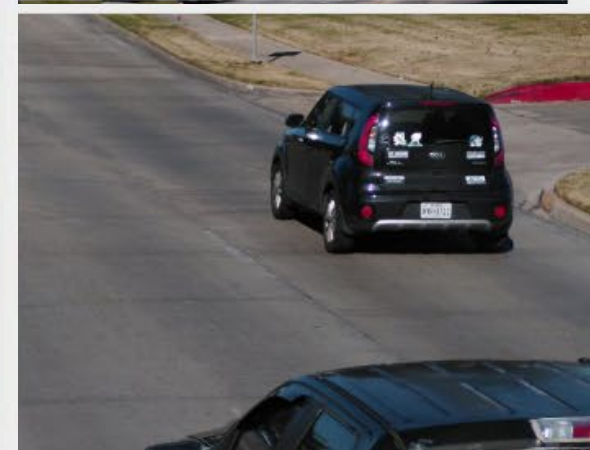


Plate TX NYR8721
Date 1/13/2023, 10:44:14 AM
Camera 01: West Bound: W. Airport

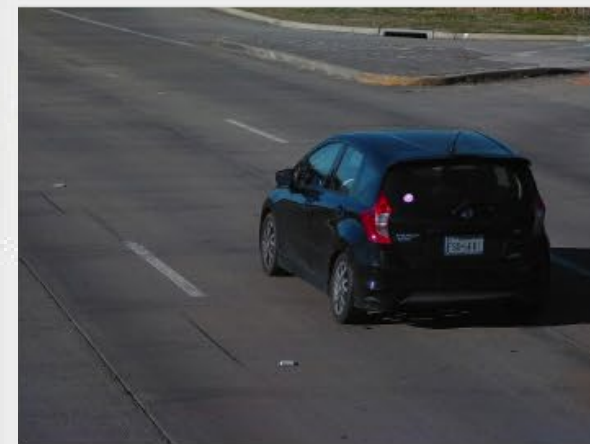


Plate TX FSD5687
Date 1/13/2023, 9:17:33 AM
Camera #15 WB 1000 W Bay Area

Other Uses of ALPR

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Tools and Technology For Law Enforcement ALPR



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The image displays a screenshot of an ALPR (Automatic License Plate Recognition) system interface. It features a grid of camera feeds showing various vehicles on a road. The primary focus is on a silver Chevrolet Blazer with license plate 'LA 679FTR'. Below the main feed, a data table lists the vehicle's plate number, date, and camera location. The table includes a header row with 'Plate', 'Date', and 'Camera'. The data row shows 'LA 679FTR', '1/13/2023, 2:52:32 PM', and '#24 - NB Blalock x Memorial'. To the right, another feed shows a white vehicle with license plate 'TX 1460810' and a timestamp of '1/12/2023, 5:41:59 PM' at '81 Blalock S/B at Taylorcrest'. The interface includes navigation icons at the bottom, such as a plus sign, download, play, and zoom.



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Project History

2015 Importing 99% of all Criminals

- Vehicle
- Foot
- Bicycle
- Public Transportation

Vehicle most obvious means of transportation

Only 27 roadways into Villages

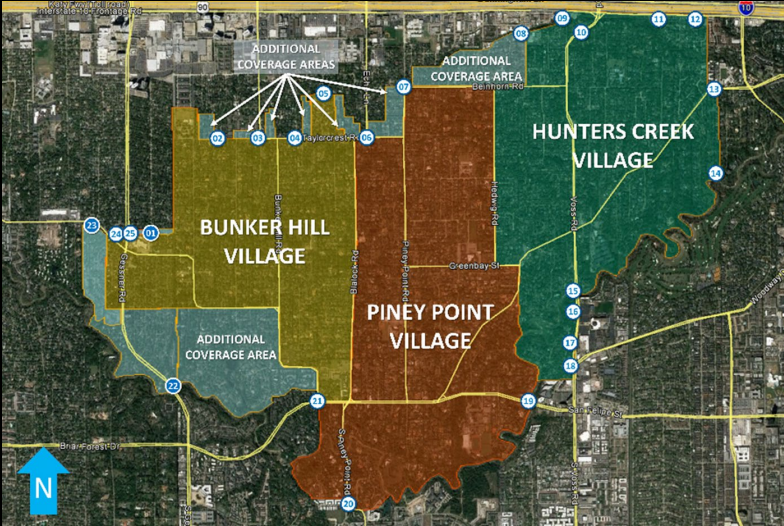
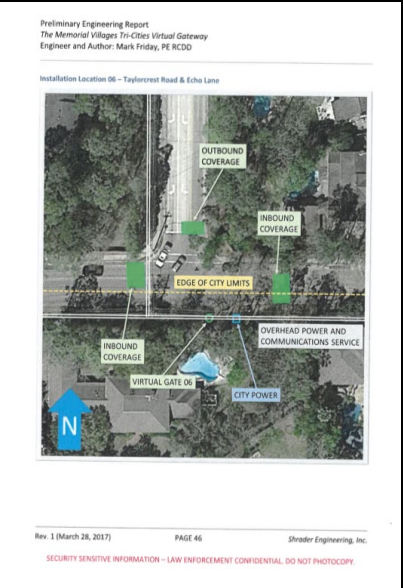
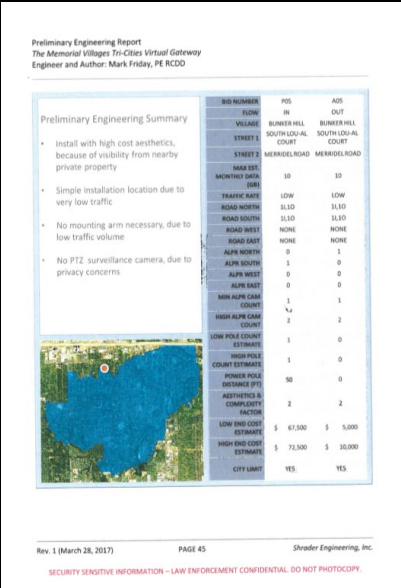
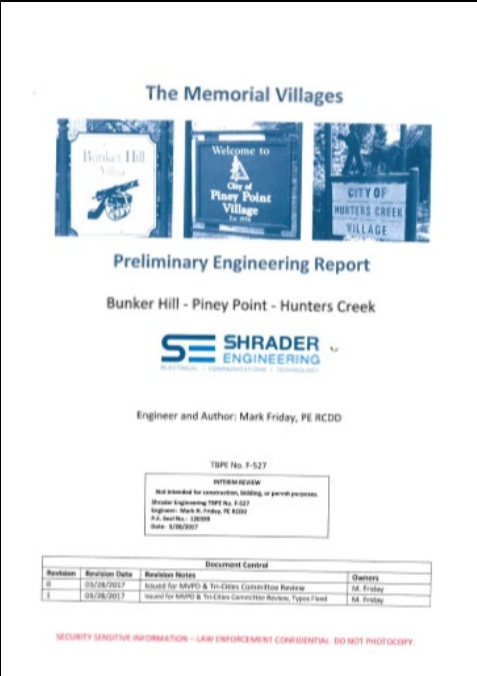
Focus on those 27 Entrance Points

Hired Engineering Firm with intent to Build our own ALPR System

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Basic Cost Summary of Options 1-4

ITEM DESCRIPTION	OPTION 1 - 25 LOCATIONS	OPTION 2 - SIX LOCATIONS	OPTION 3 - NINE LOCATIONS	OPTION 4 - PHASED 25 LOCATIONS
INFRASTRUCTURE	\$ 1,510,000	\$ 440,000	\$ 670,000	\$ 1,920,000
TECHNOLOGY	\$ 1,050,000	\$ 510,000	\$ 690,000	\$ 1,010,000
COMMUNICATION	\$ 140,000	\$ 30,000	\$ 40,000	\$ 170,000
CONSTRUCTION & INTEGRATION TOTAL	\$ 2,700,000	\$ 980,000	\$ 1,400,000	\$ 3,100,000
RECURRING INFRASTRUCTURE	\$ 40,000	\$ 15,000	\$ 23,000	\$ 40,000
RECURRING TECHNOLOGY	\$ 200,000	\$ 85,000	\$ 110,000	\$ 200,000
RECURRING COMMUNICATION	\$ 60,000	\$ 15,000	\$ 20,000	\$ 60,000
RECURRING WARRANTY & MAINTENANCE TOTAL	\$ 300,000	\$ 115,000	\$ 153,000	\$ 300,000

2017 Projects Costs
125 ALPR Cameras
25 Locations



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Project Timeline and Cash Flow			
Task:	Timeline:	Costs	
		Total	Per City
2018			
Inter-local Agreements with Villages and CoHouston <i>(Attorney Costs)</i>	Last Quarter	\$ 24,000	\$ 8,000
2019			
Design	6 months	\$ 129,000	\$ 43,000
Bidding Process	4 months		
Award Construction	Last Quarter		
2019 - 2020			
Construction	12 months	\$1,005,000	\$ 335,000
Project Contingency ~ 4%		\$42,000	\$ 14,000
TOTAL COSTS: Design and Construction		\$1,200,000	\$400,000
Ongoing M&O	Annually	\$100,000	\$34,000
Develop an Upgrade(s) and Replacement Fund	\$1 M Based on 5 year life	\$200,000	\$67,000

2018 Projects Costs
50 ALPR Cameras
9 Locations



FLOCK Safety
\$2000 Per Unit
\$48,000 Annually



2019 Projects Costs
24 ALPR Cameras
24 Locations
8 Locations in each City



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Community Can Buy-In

Cities install and operate the Back-Bone,
i.e. Thoroughfares and Key Entry Points

Citizens, Businesses, and the Community
supplement with Neighborhoods, NA's, Private
Streets, Private Property ALPR's

Agencies can share information – Search Reads
and receive Hotlists of active Criminals



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Results

- 2019 – 22 Stolen Recoveries
 - 4 Stolen Plate Recoveries
 - 9 Investigative Lead Solves
- 2020 - 61 Stolen Recoveries
 - 7 Stolen Plate Recoveries
 - 16 Investigative Lead Solves
 - 7 Firearm Recoveries
- 2021 - 75 Stolen Recoveries
 - 9 Stolen Plate Recoveries
 - 18 Investigative Lead Solves
 - 8 Firearm Recoveries
 - 11 Paper Plate Solves



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Results

2022 – 74 Stolen Recoveries
50 Stolen Plate Recoveries
13 Investigative Lead Solves
4 Firearms Recovered
50 Paper Plate Solves

Total Value of Recovered Property - \$5,022,101
232 Vehicles Recovered - from a 7.5 sq mile area

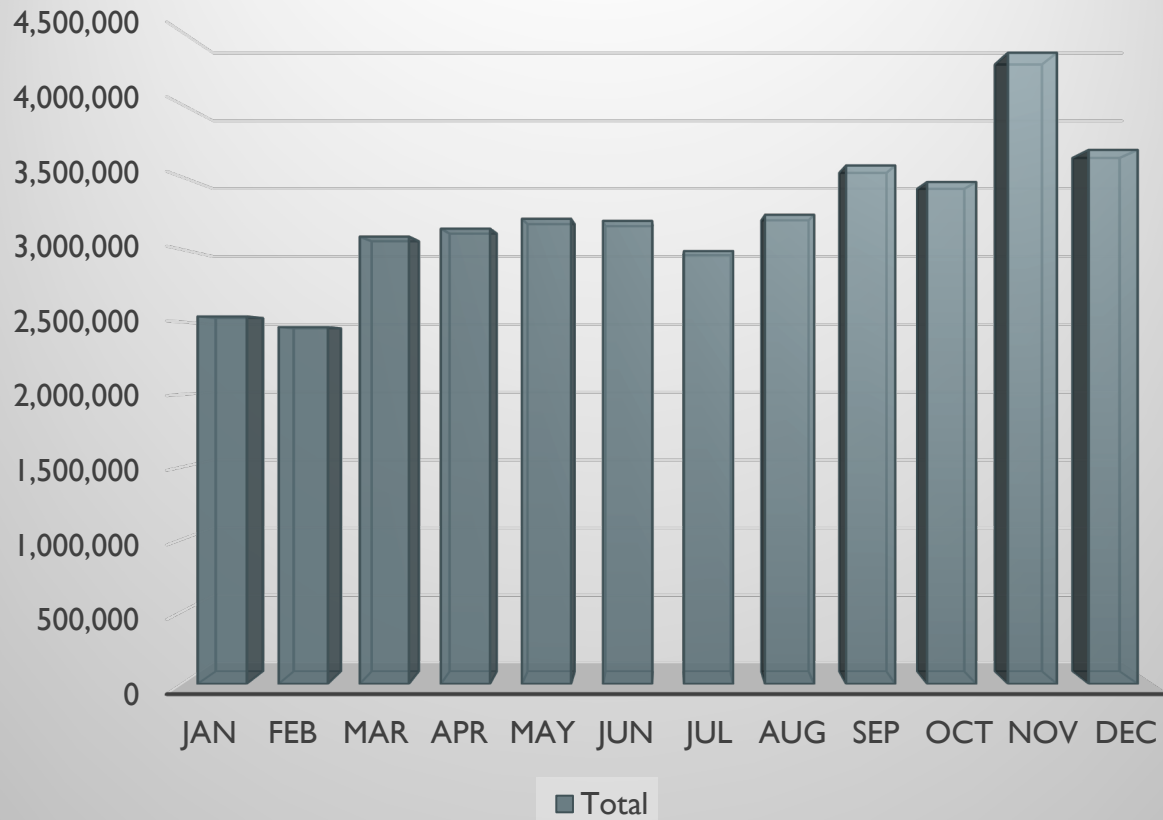
63.5% of all Recovered Vehicles Linked to Other Crimes



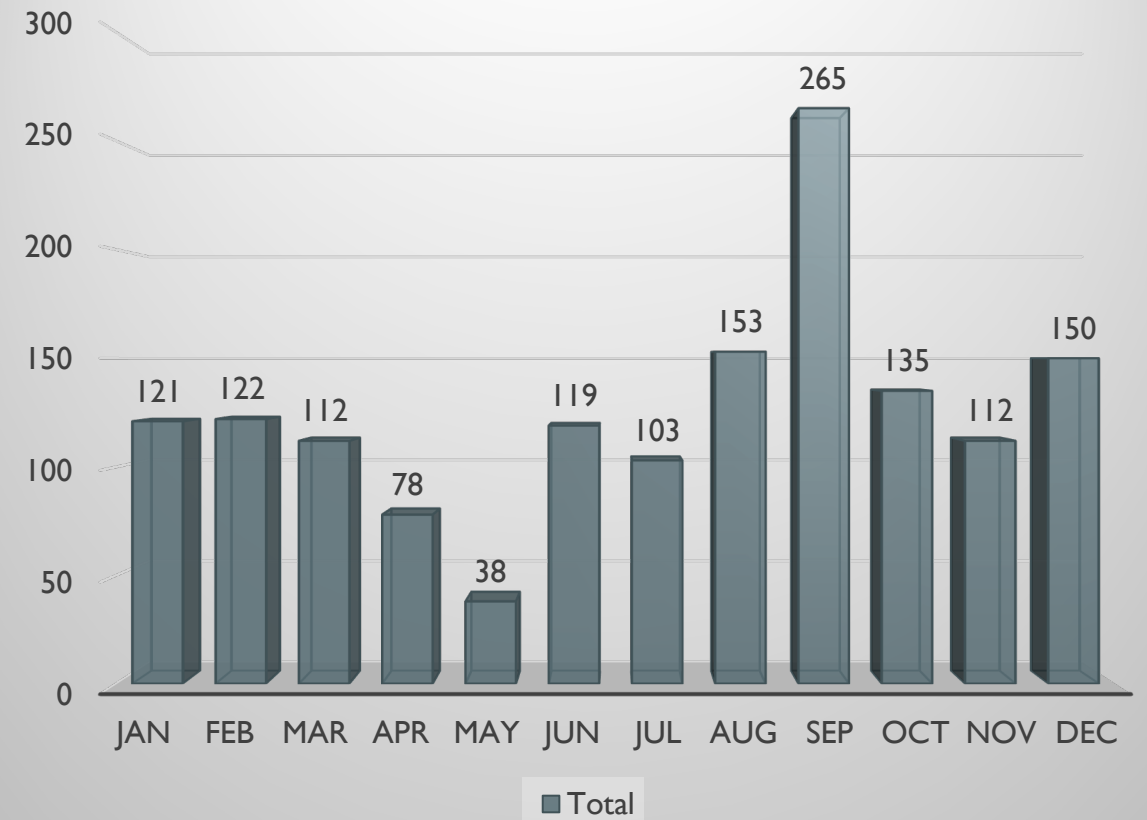
2021 ALPR ANNUAL REPORT



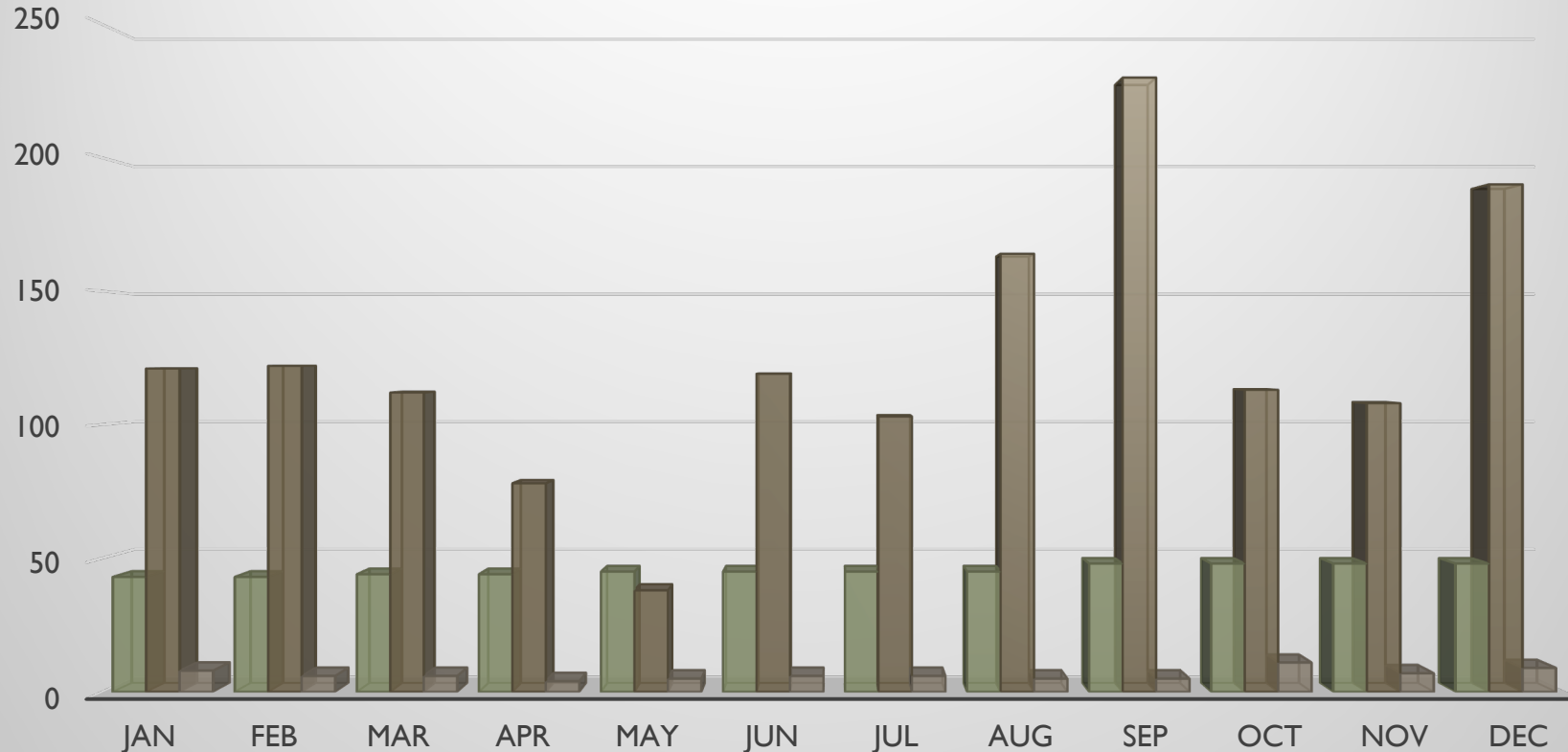
ALPR Plate Reads 2021



ALPR Hits 2021



ALPR Results 2021 Total



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cameras	43	43	44	44	45	45	45	45	48	48	48	48
Hits	121	122	112	78	38	119	103	164	230	113	108	190
Recoveries	8	6	6	4	5	6	6	5	5	11	7	9

Cameras Hits Recoveries

1498 Hits
75 Recoveries
5% Recovery Rate

Recovery Value
\$1,683,601.00

Cost of Program
\$67,500

Cost Per Recovery
\$900

Avg Value Per Recovery
\$22,448.01

ROI
+2,394.22%

46 of 75 recovered vehicles were linked to other crimes or criminal events
61%

- Fugitives
- Drugs
- Robbery Suspects
- Juggers
- Fraud
- Mail Thieves
- Prostitute theft of vehicle
- Clucking
- Burglars
- Runaways



2022 Totals

47 of 74 recovered vehicles were linked to other crimes or criminal events
63.5%

- Fugitives
 - Drugs
 - Robbery Suspects
 - Juggers
 - Fraud - Marketplace
 - Mail Thieves
 - Clucking
 - Burglars
 - Runaways
 - Missing Persons
- 50 Stolen License Plates
- 2 had stolen Plate on a Stolen Vehicle
 - 27 were temp tags
- Additional 11 stolen vehicles located that fled and not pursued
- 4 Firearms Recovered
- 13 Investigations solved due to ALPR in 2022
- A \$5000 Crimestoppers reward = \$65,000

ALPR Future Benefits

Change traffic strategy - ALPR decides who to stop

- Unless dangerous driving - limit/remove allegations of profiling

Restraining Orders, Criminal Trespass violator notification

Active criminal notification – Stop with PC only

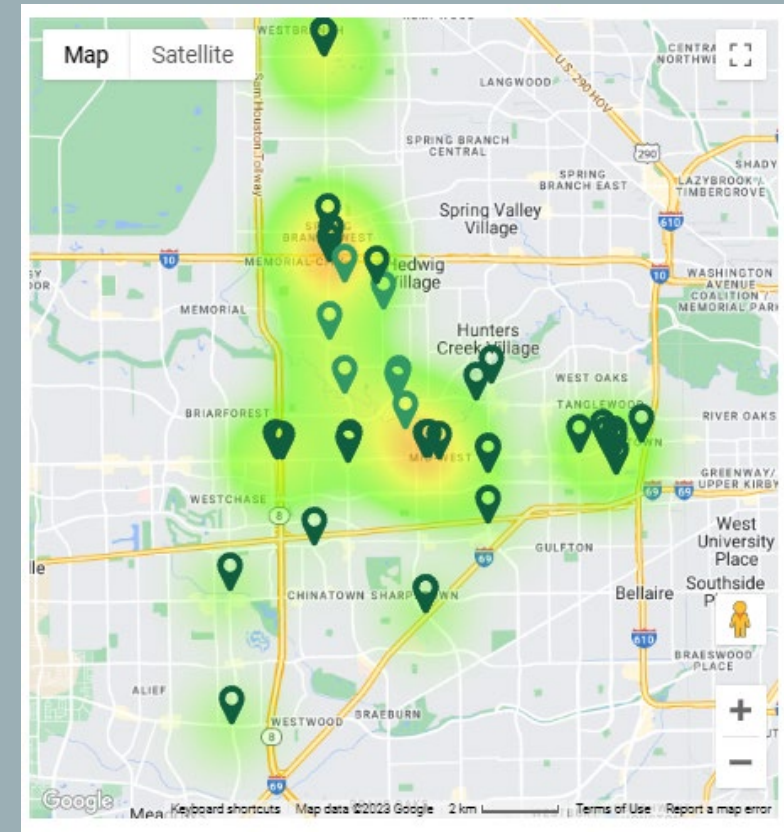
More linking to other crimes – increase solvability

- Frequency Maps

Crime Analysis

- Pattern Analysis

Increased accountability



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Plate **0006H59**
Date **6/3/2022, 10:25:33 AM**
Camera **#13 WB Wright Rd @ S Kirkwood**

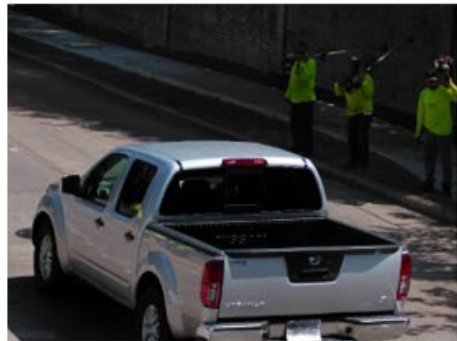


Plate **00006H59**
Date **6/3/2022, 11:04:29 AM**
Camera **#22 - NB Voss x Magnolia Bend (Lane 2)**



Plate **TX 0006H59**
Date **6/1/2022, 4:08:02 PM**
Topic **1 day ago**



Source **NCIC**
Topic **Stolen Vehicle**
Description **SIL MERZ 350**



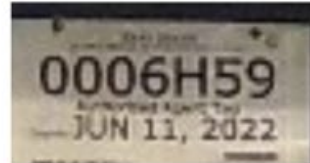
Plate **TX 0006H59**
Date **6/1/2022, 3:00:39 PM**
Topic **1 day ago**



Source **NCIC**
Topic **Stolen Vehicle**
Description **SIL MERZ 350**



Plate **TX 0006H59**
Date **6/1/2022, 12:58:17 PM**
Topic **1 day ago**



Source **NCIC**
Topic **Stolen Vehicle**
Description **SIL MERZ 350**



Plate **TX 0006H59**
Date **6/1/2022, 6:47:07 PM**
Topic **1 day ago**



Source **NCIC**
Topic **Stolen Vehicle**
Description **SIL MERZ 350**



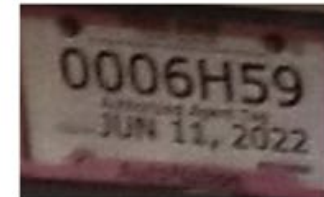
Plate **TX 0006H59**
Date **6/1/2022, 6:36:55 PM**
Topic **1 day ago**



Source **NCIC**
Topic **Stolen Vehicle**
Description **SIL MERZ 350**



Plate **TX 0006H59**
Date **6/1/2022, 6:22:01 PM**
Topic **1 day ago**



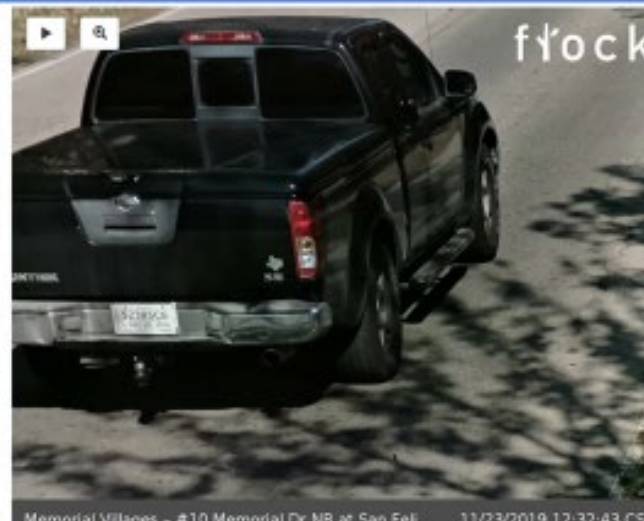
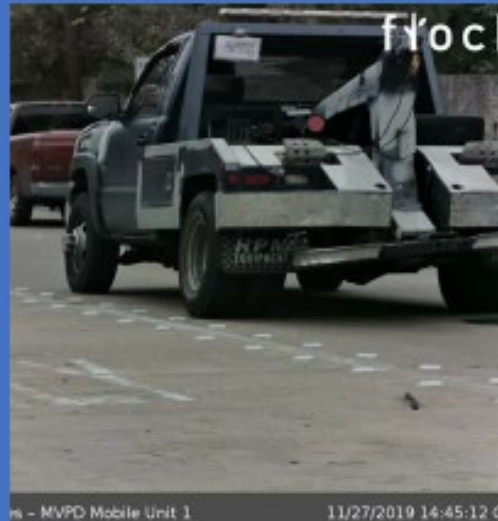
Source **NCIC**
Topic **Stolen Vehicle**
Description **SIL MERZ 350**



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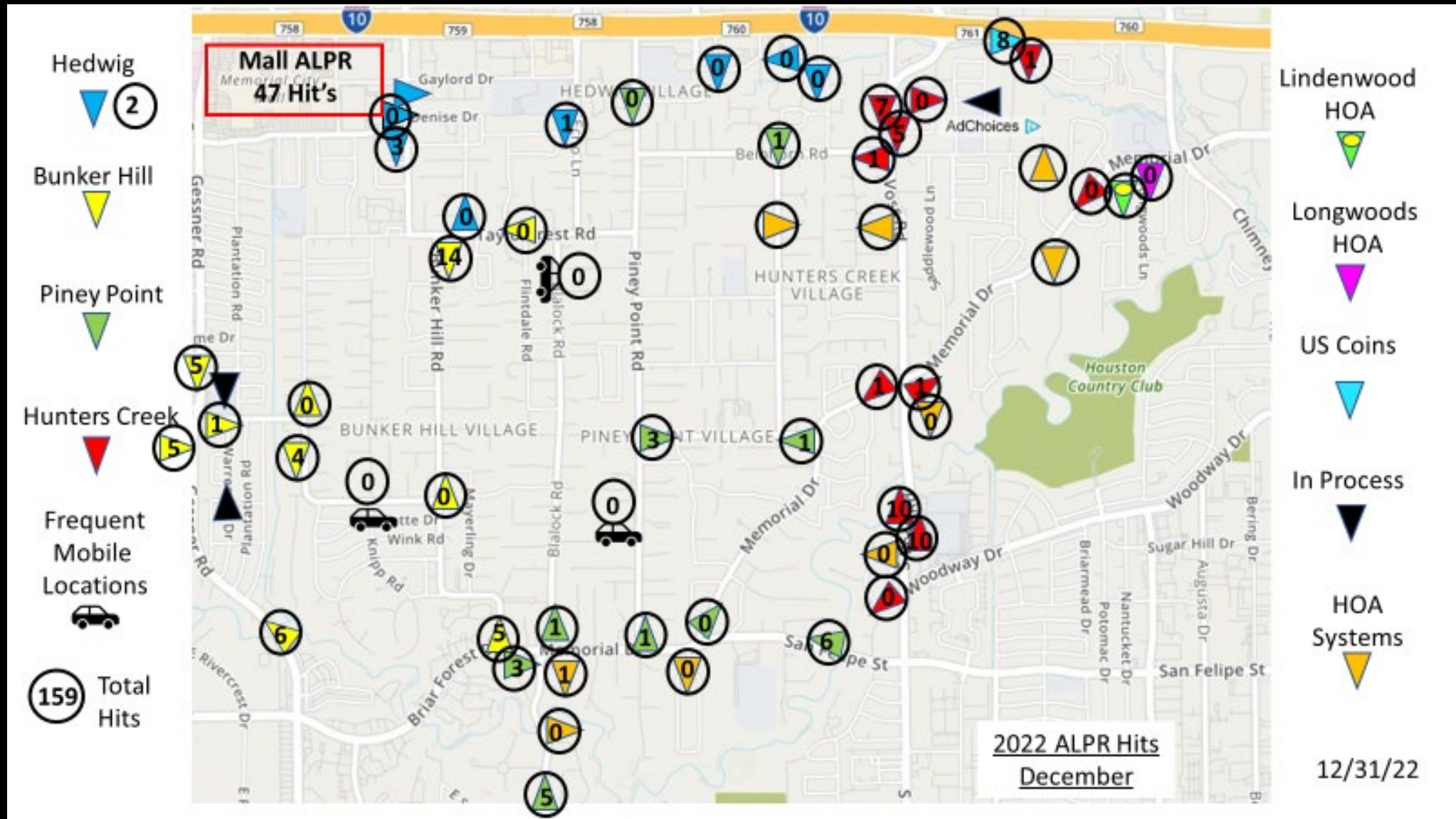
Stolen Tag being copied and resold.



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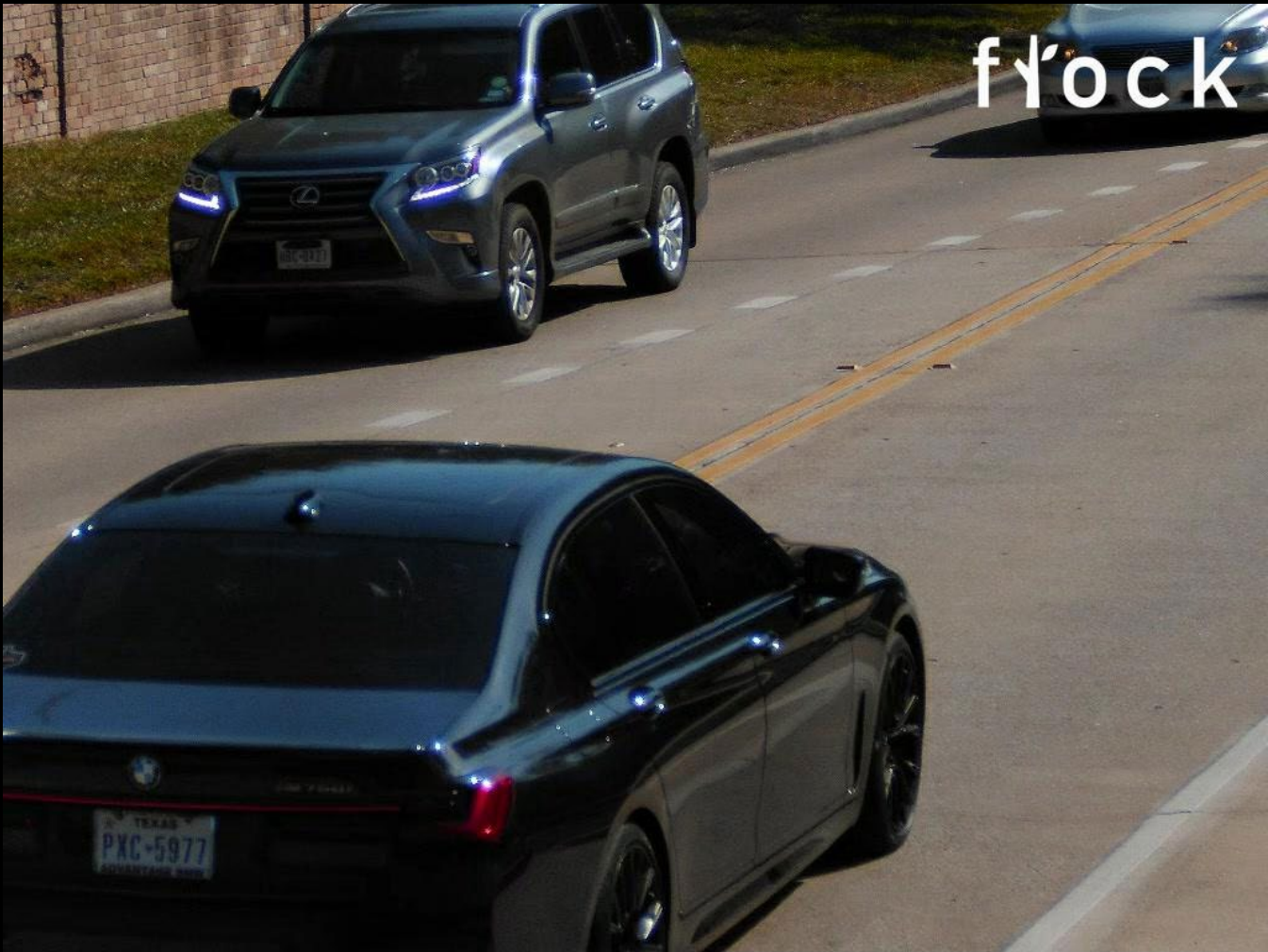


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Recent Solves



Hedwig Village TX PD-#103 Echo Lane SB at Mustang 29.7791235 , -95.52166599999998
10/27/2022 15:09:01 CDT

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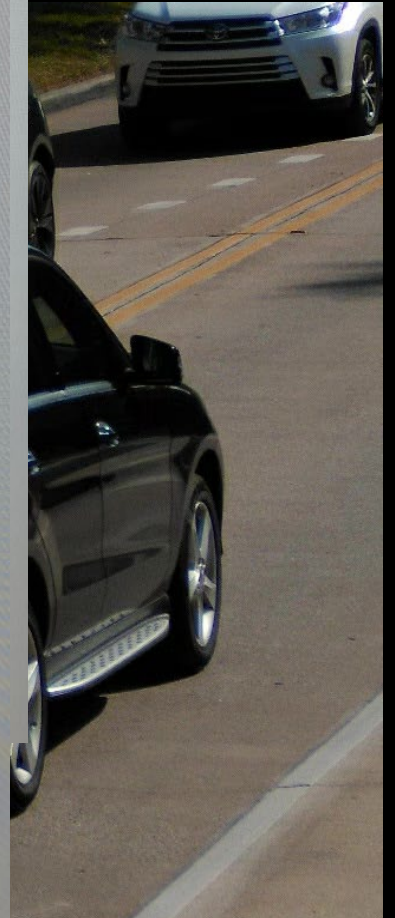


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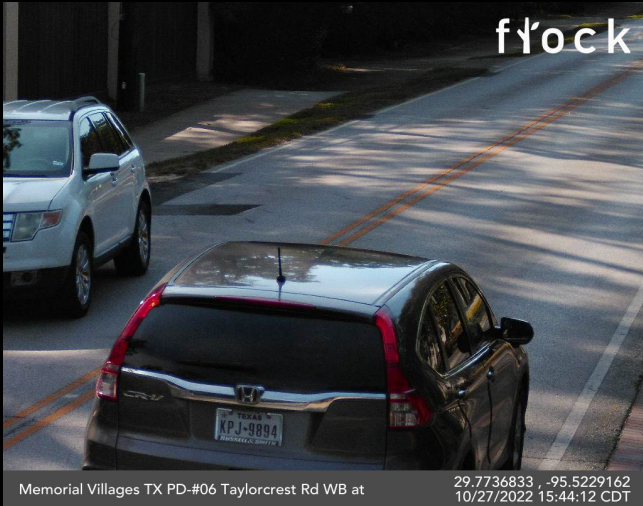
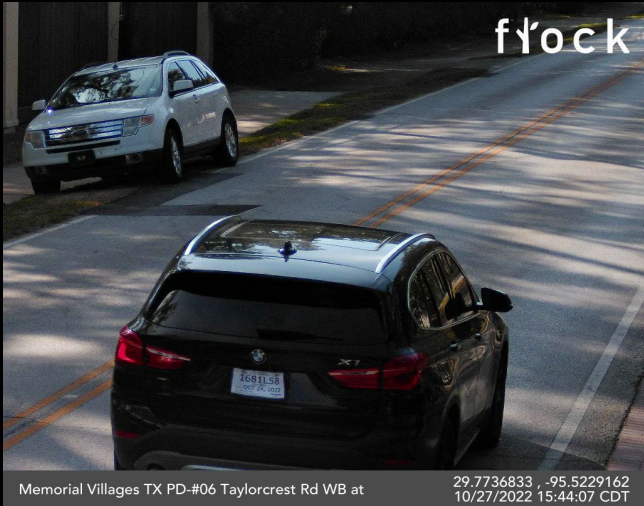
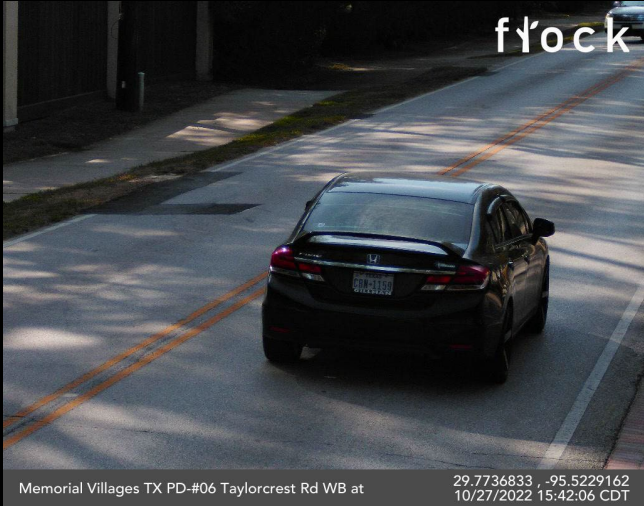
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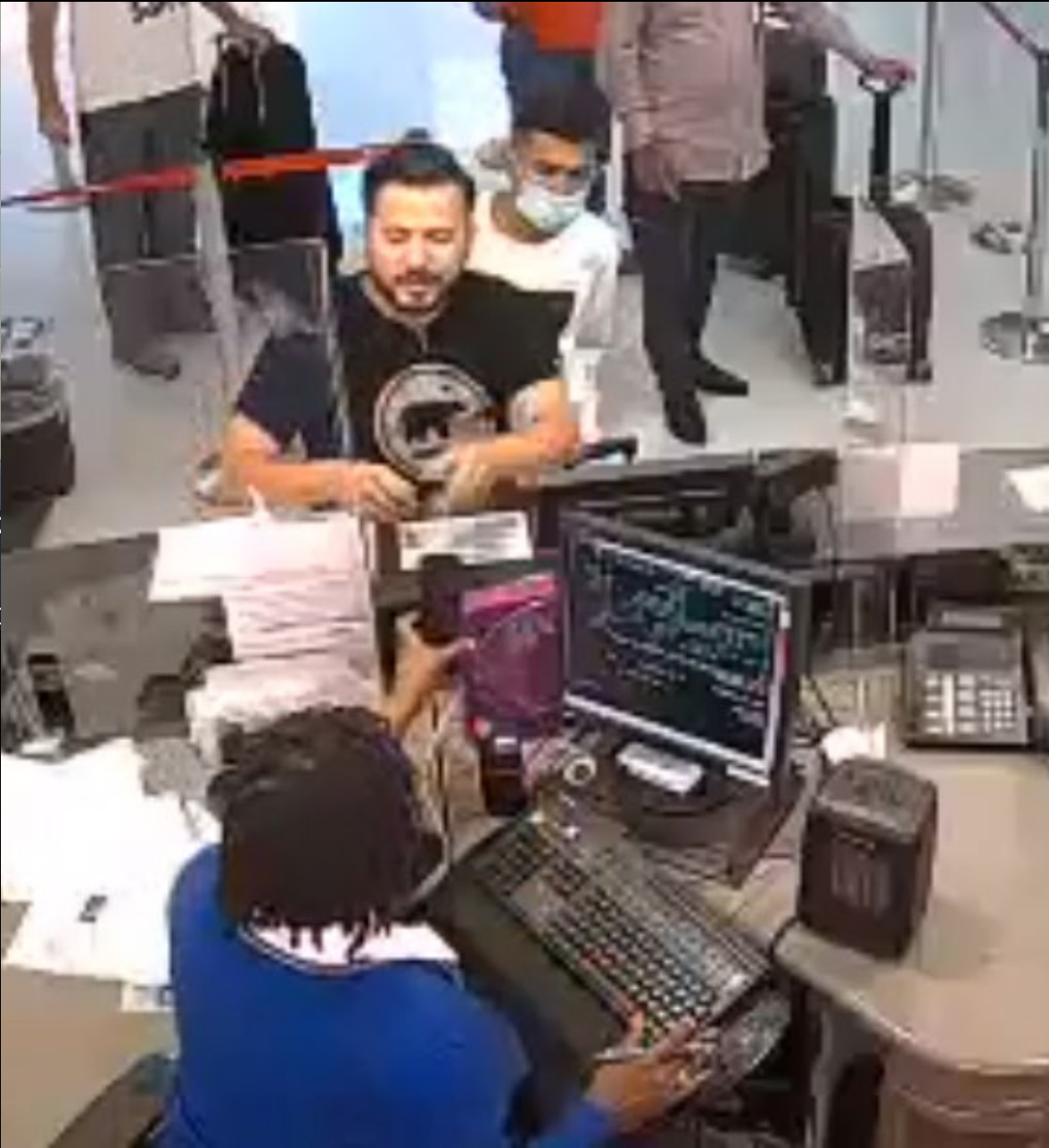
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A
POLITICAL ASYLUM

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BOLO

Burg of Hab. Suspect Vehicles (22-0810)

ATL the following vehicles: white 2019 Toyota Highlander rental car bearing Florida tag #48BGPS and a white Ford Edge bearing stolen Texas plate #RPY0290. Both vehicles are involved in a burglary of a habitation at 691 Flintdale on 10-27-22 at 1540 hrs. They are entered in Flock hotlist. If located, establish pc, stop, and contact Det. Cerny 979-541-7743.



Memorial Villages TX PD-#06 Taylorcrest Rd WB at

29.7736833 , -95.5229162
10/27/2022 13:01:20 CDT

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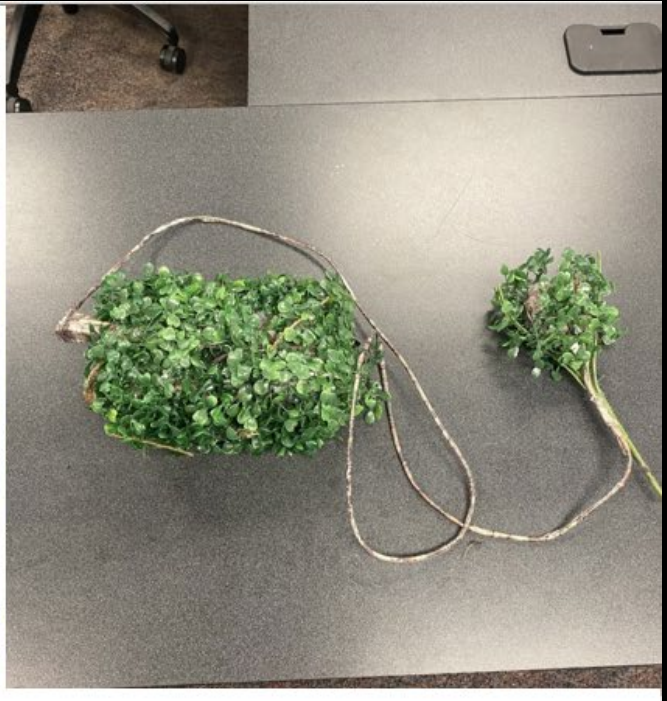
A flock camera search on license plate #RGK1957 reveals suspects
switched license plates minutes before committing burglary on
Flintdale Rd.



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Goal of ALPR Technology





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Benefits of ALPR Technology

Community
Safety

Community
Partnerships



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