

SIGNAKEY

**THE DIGITAL TRANSFORMATION OF CRIME
SCENE INVESTIGATIONS**

THE FEATURES OF A SIGNAKEY

1

HIGHLY ENCRYPTED
2 D SYMBOLOGY

2

STANDARD SIGNAKEY
HAS 256 DATA SYMBOLS

3

5.19×10^{33}
UNIQUE IDENTIFIERS

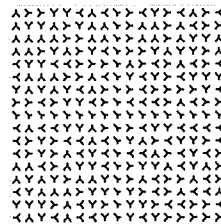
4

ESA ESTIMATES
 10^{23} STARS IN COSMOS



WHAT MAKES A SIGNAKEY SPECIAL

- Highly encrypted 2-D code – not in the public domain.
- Every Signakey is unambiguously unique.
- Easy to decode with IOS or Droid based Smartphones.
- App is free - but must be registered to each device.
- User must be registered and approved by Agency.
- Highly secure, permissions based, fixed length blockchain.
- Signakey can be damaged or dirty but will still decode.



PROGRESS TO DATE WITH STAKEHOLDERS

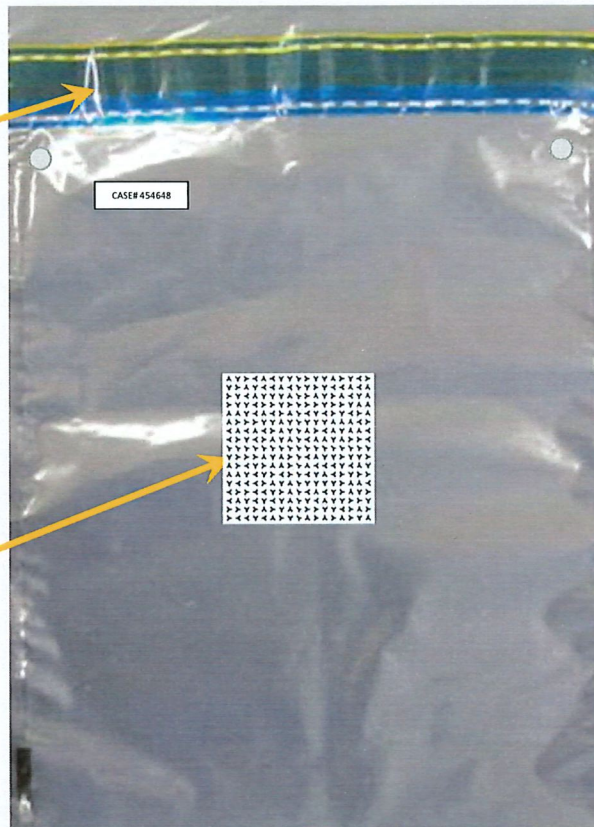
- Meetings with:
 - Medium and Small City Police Chiefs.
 - Defense Attorney.
 - County Prosecutor.
 - District Court Judge.
 - Prof MSU School of Criminal Justice.
 - MSP Forensic Lab Director.

Consensus next steps:
PILOT FOR S/M/L AGENCIES

WHAT IS A SIGNAKEY TAMPER PROOF BAG

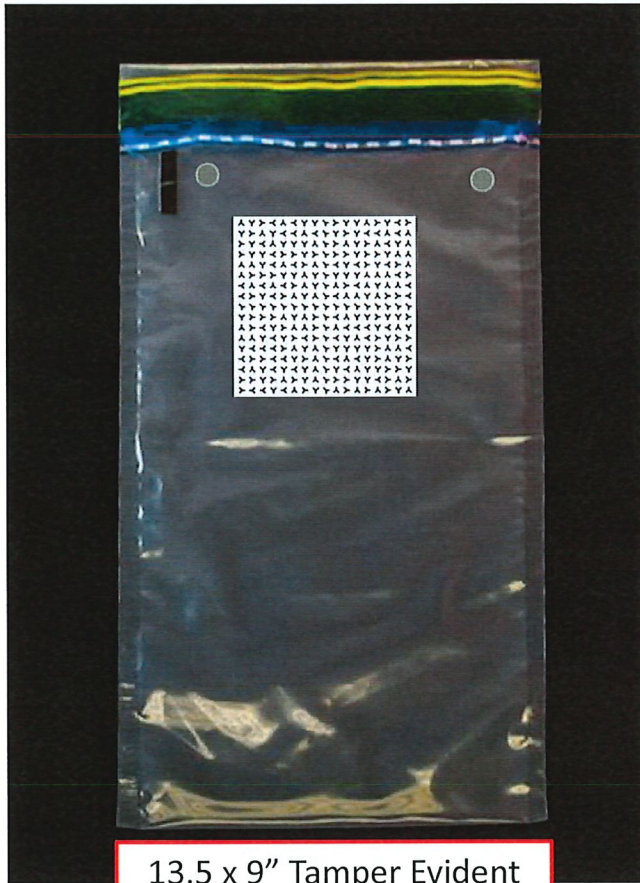
TAMPER EVIDENT SEAL
WITH PULL-OFF STRIP TO
ACTIVATE. ONCE CLOSED
WORDS VOID APPEAR IF
OPENED

SIGNAKEY FANGIBLE
ADHESIVE LABEL WITH
AGGRESSIVE ADHESIVE,
REMOVAL NOT POSSIBLE
WITHOUT TEARING THE BAG

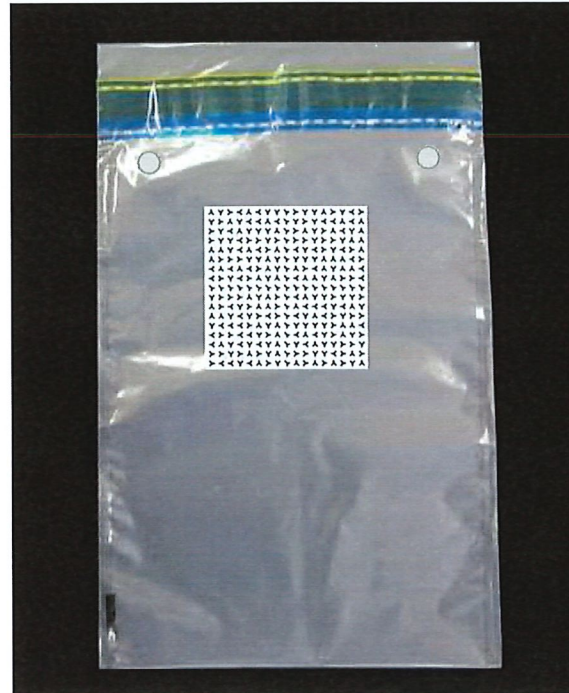


STANDARD 13.5 X 9 INCH
WATERPROOF 5 MIL POLY
VENTED BAG.
UNIT COST \$0.08

TYPICAL TRANSPARENT EVIDENCE BAGS



13.5 x 9" Tamper Evident Bag with Signakey



9 x 6.5" Tamper Evident Bag with Signakey



7 x 3.5" Tamper Evident Bag with Signakey



1.5 x 1.5 " Signakey on Tie Wraps for large items

CRIME SCENE INVESTIGATOR



KEEP EXISTING PROCESSES – ADD TE BAG

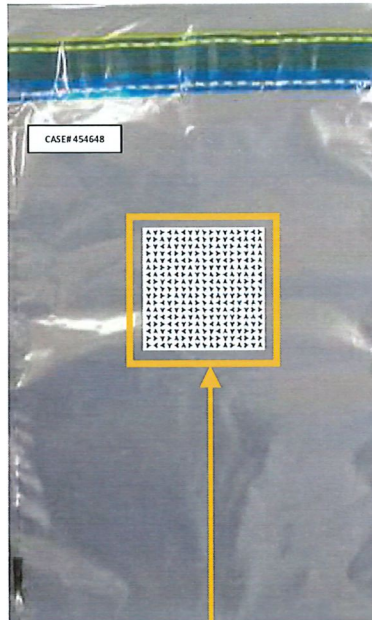
DIGITAL CHAIN OF CUSTODY

LOCATION 1

COLLECT SAMPLES IN NORMAL WAY,
BUT IMMEDIATELY SCAN SIGNAKEY
& PLACE IN TE BAG BEFORE MOVING



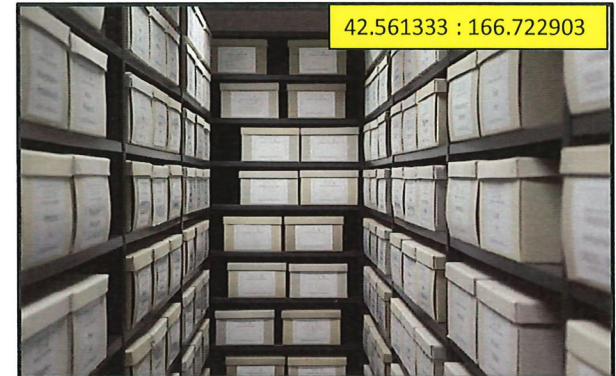
CAPTURES DATE/TIME, CSI ID,
DEVICE #, PLUS EXACT GEOSPATIAL
COORDINATES



USE SMARTPHONE
WITH FREE APP TO
SCAN SIGNAKEY

LOCATION 2

CONFIRM TE SEAL IS INTACT, THEN
SCAN SIGNAKEY IMMEDIATELY IN
THE EVIDENCE ROOM



SCAN CAPTURES DATE/TIME,
QUARTERMASTER ID, DEVICE #, AND
EXACT GEOSPATIAL COORDINATES

AGENCY EVIDENCE ROOM

AFTER CONFIRMING THE TE SEAL IS INTACT,
QUARTERMASTER IMMEDIATELY SCANS
SIGNAKEY IN THE EVIDENCE ROOM, WITH
ASSIGNED CASE # BEFORE STORING

CASE# 454648

STOP

INSTRUCTIONS:

1. Complete required information in all areas of the bag.
2. Tear perforated receipt off and retain for your records.
3. Press red tape onto white stripe firmly to seal.

TO REMOVE CONTENTS - CUT ALONG DASHED LINE

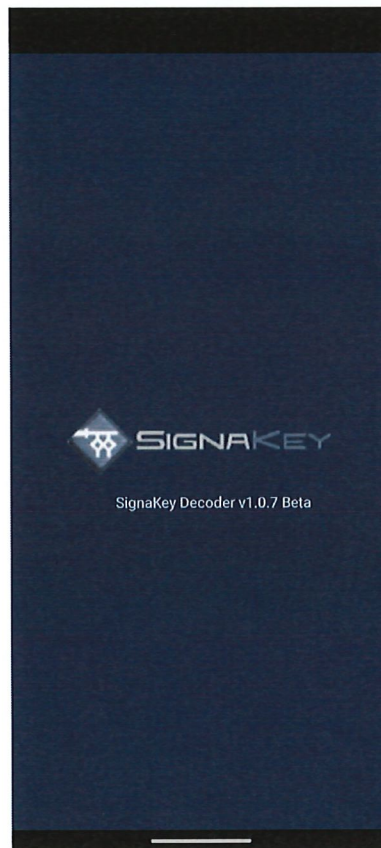
TEAR OFF RECEIPT

FACILITY: _____ DATE: _____ PREPARED BY: _____

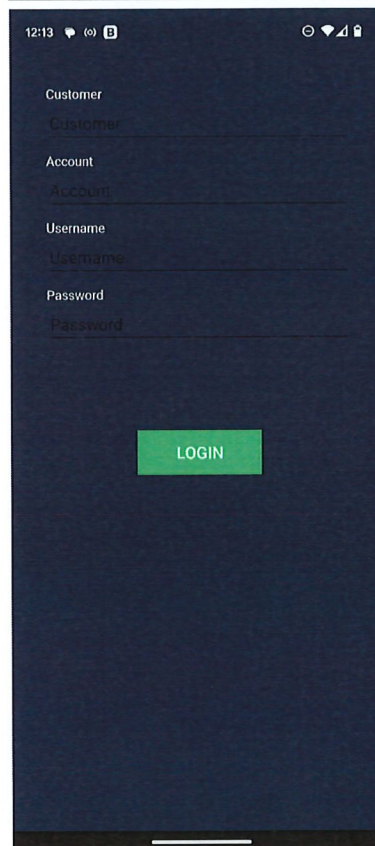
BB 012229

SCREENSHOT OF APP START-UP

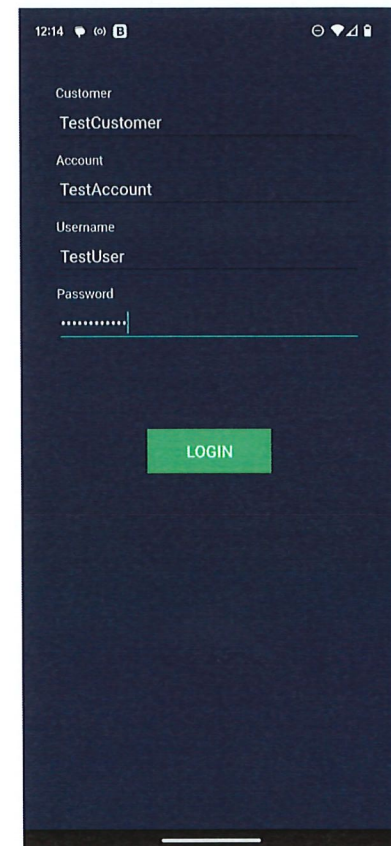
SPLASH SCREEN 1ST USE
AFTER SELECTING APP



AUTO CREDENTIALS
SCREEN AFTER 5 SECS

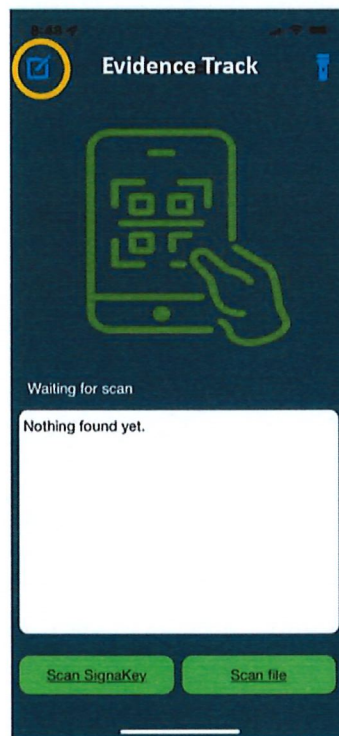


AFTER LOGIN SUCCESS,
CREDENTIALS SAVED



SCREENSHOT OF 1st DATA CAPTURE

Open APP – Go To
Settings for Profile



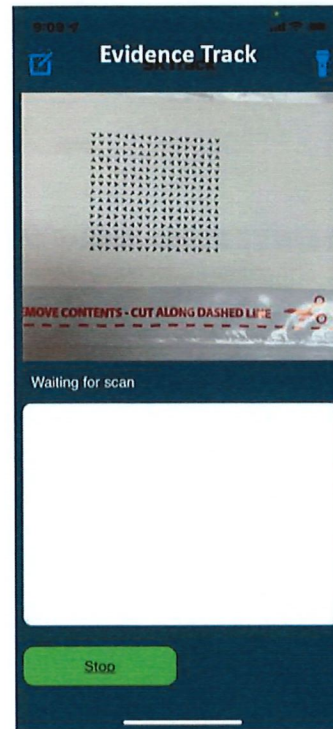
Enter Credentials
Enable Phone GPS

The screenshot shows the 'Settings' screen of the 'Evidence Track' app. The title bar includes 'dismiss', 'Settings', and 'Save'. The form contains the following fields:

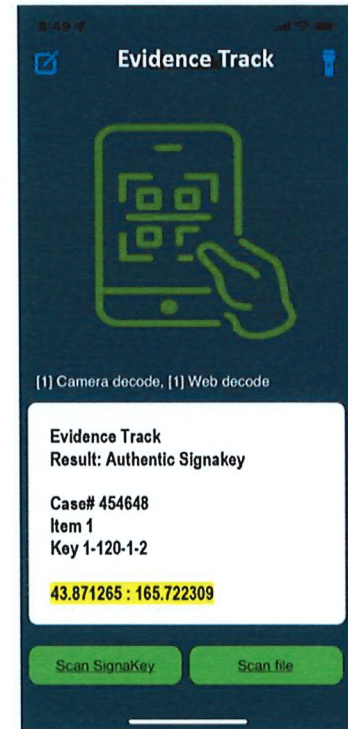
- Agency: BTPD
- Case#: 454648
- Username: Rmcd
- Password: *****

Below these fields is a 'Location Settings' section with a 'Default location service' toggle. The 'Phone GPS' option is selected and highlighted with a yellow box. There are also input fields for 'Location ID' and 'Task ID'.

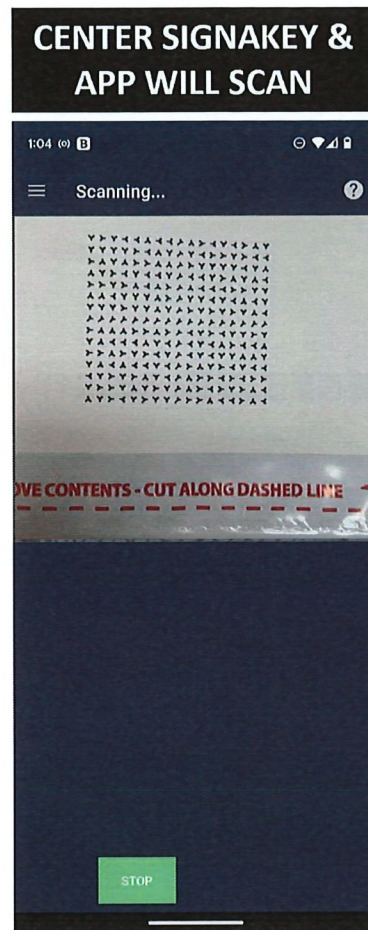
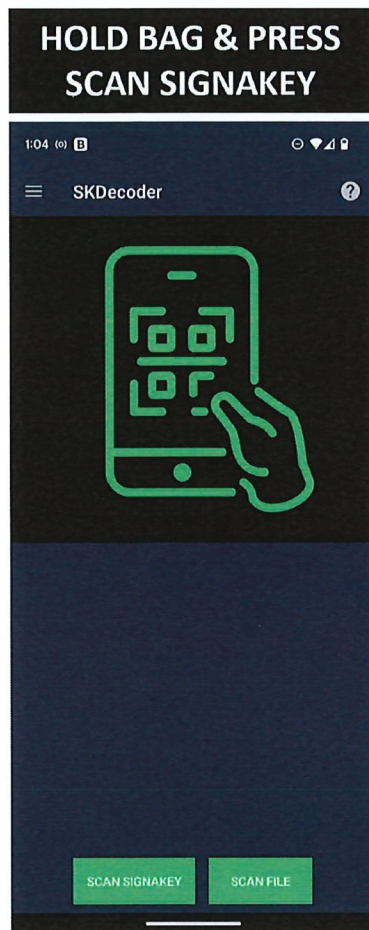
Center Object and App
will Scan SignaKey



Results Summary after
Scanning SignaKey



ANALYSIS OF AN ACTUAL DATA CAPTURE



INVESTIGATOR STEPS:

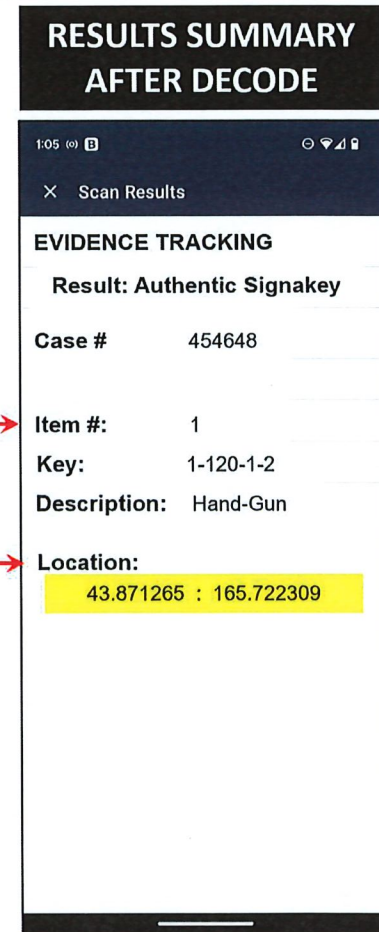
1. LOCATE THE EVIDENCE.
2. STAND OVER EVIDENCE.
3. PHOTO EVIDENCE & TENT.

Corresponds to Placard #

Geospatial Coordinates

4. SCAN SIGNAKEY ON BAG.
5. BAG THE EVIDENCE.
6. SEAL THE BAG.
7. ENTER REQUIRED DATA

REPEAT UNTIL ALL EVIDENCE
HAS BEEN COLLECTED

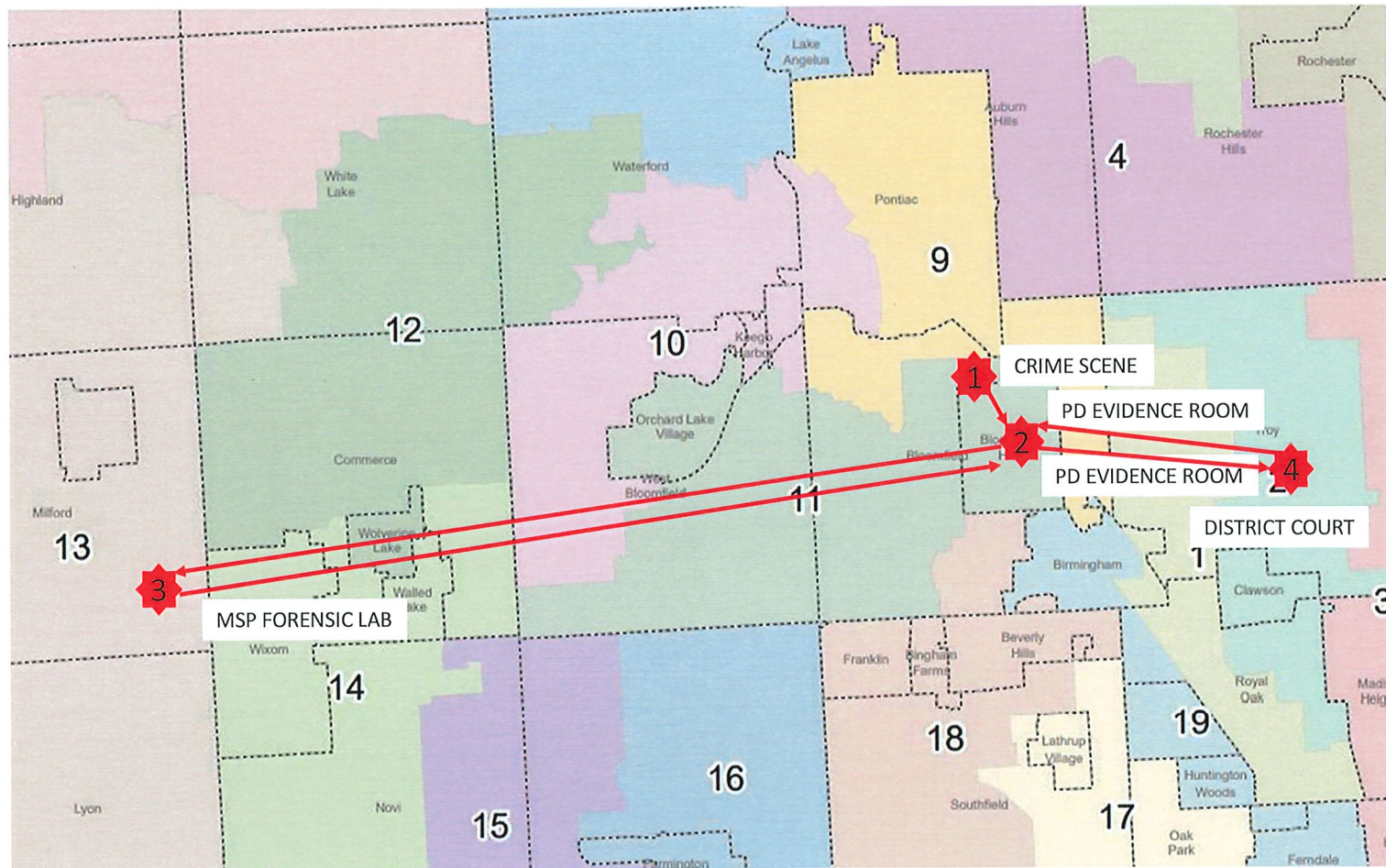


THE EVIDENCE DATA TO MINE

CASE NUMBER AND INVESTIGATING OFFICER ID:

- HOW MANY TOTAL ITEMS WERE COLLECTED
- WHEN WERE THEY COLLECTED AND BY WHO
- WHERE ARE THEY NOW
- WHO LOGGED THEM IN AND WHEN
- HOW MANY REQUIRE FORENSIC ANALYSIS
- WHEN DID THEY GO AND WHO SENT THEM
- WHEN DID LAB GET THEM AND WHO RECEIVED THEM
- WHEN SHOULD THEY COME BACK
- WHEN DID THEY COME BACK AND WHO RECEIVED THEM
- IS ALL THE EVIDENCE READY FOR THE PROSECUTOR

TRACKING EVIDENCE LOCATION



FULL TRACE HISTORY SINGLE ITEM

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Decode History

Numeric SignaKey:

1-131-1-2

Earliest Date:

11-Sep-2022

Last Date:

11-Sep-2022

Case #:

454648

SignaKey 1-131-1-2

From 11-Sep-2022 0:00:00Z

Through 11-Sep-2022 23:59:59Z

Timestamp	User	Ip Address	Shown	DataTag	GPS
11-Sep-2022 18:44:55Z	SigLaw.Bill	174.211.36.226	Yes	*TaskId%3Dcase+454648+Ch eck- in%26*LocationID%3DWB+Po lice+Dept+*GPScoordinates% 3D42.559517%2C261.7999 88	
11-Sep-2022 18:26:28Z	SigLaw.Bill	174.240.116.196	Yes	*TaskId%3Dcase+454648+Ch eck- out%26*LocationID%3DCourt +House+GPScoordinates%3D 42.578529%2C247.599991	
11-Sep-2022 18:24:41Z	SigLaw.Bill	174.240.114.245	Yes	*TaskId%3Dcase+454648+Ch eck- in%26*LocationID%3DCourt- House+GPScoordinates%3D4 2.578503%2C247.599991	
11-Sep-2022 18:06:41Z	SigLaw.Bill	174.240.145.226	Yes	*TaskId%3Dcase+454648+Ch eck- out%26*LocationID%3DWB+P olice+Dept+GPScoordinates% 3D42.559477%2C261.7999 88	
11-Sep-2022 18:04:49Z	SigLaw.Bill	174.240.149.203	Yes	*TaskId%3Dcase+454648+Ch eck- in%26*LocationID%3DWB+Po lice+Dept+GPScoordinates% 3D42.559471%2C261.79998 8	
11-Sep-2022 17:32:03Z	SigLaw.Bill	174.240.151.22	Yes	*TaskId%3Dcase+454648+Ch eck- out%26*LocationID%3DMSP+ Forensic+Lab+GPScoordinates% 3D42.423332%2C222.299 988	
11-Sep-2022 17:30:06Z	SigLaw.Bill	174.240.145.251	Yes	*TaskId%3Dcase+454648+Ch eck- in%26*LocationID%3DMSP+F orensic+Lab+GPScoordinates% 3D42.423364%2C222.6999 97	
11-Sep-2022 16:54:39Z	SigLaw.Bill	174.211.37.209	Yes	*TaskId%3Dcase+454648+Ch eck- out%26*LocationID%3DWB+P olice+GPScoordinates%3D4 2.559471%2C261.799988	
11-Sep-2022 16:52:35Z	SigLaw.Bill	174.211.36.195	Yes	*TaskId%3Dcase+454648+20 38+Check- in%26*LocationID%3DWB+P olice+GPScoordinates%3D4 2.559472%2C261.799988	
11-Sep-2022 16:28:04Z	SigLaw.Bill	71.227.75.151	Yes	*TaskId%3Dcase+454648+20 38+H+Hammond+Lake+Rd+ WB%26*LocationID%3DCrim e+scene+GPScoordinates% 3D42.610954%2C254.79998 8	

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PRIMARY SORT KEY FOR LINKED DATABASE

Pd Evidence Room - IN

Court - OUT

Court - IN

PD Evidence Room - OUT

PD Evidence Room - IN

MSP Forensic Lab - OUT

MSP Forensic Lab - IN

PD Evidence Room - OUT

PD Evidence Room - IN

Crime Scene - OUT

COURT TO EVIDENCE ROOM

EVIDENCE ROOM TO COURT

FORENSIC LAB TO EVIDENCE ROOM

EVIDENCE ROOM TO FORENSIC LAB

CRIME SCENE TO EVIDENCE ROOM