

**JOINT STUDY SESSION
OF THE UNIVERSITY CITY COUNCIL AND WASHINGTON UNIVERSITY**
5th Floor of City Hall
6801 Delmar
November 25, 2019

AGENDA

Requested by the City Manager

1. MEETING CALLED TO ORDER

The City Council Study Session was held in Council Chambers on the fifth floor of City Hall, on Monday, November 25, 2019. Mayor Terry Crow called the Study Session to order at 5:30 p.m.

In addition to the Mayor, the following members of Council were present:

Councilmember Steven McMahon
Councilmember Paulette Carr; (*Via conference call*)
Councilmember Jeffrey Hales
Councilmember Tim Cusick
Councilmember Stacy Clay
Councilmember Bwayne Smotherson

Also in attendance was City Manager, Gregory Rose; City Attorney, John F. Mulligan Jr., and Chief Larry Hampton.

2. CHANGES TO REGULAR COUNCIL AGENDA

Mr. Rose requested that Items J (2) and J (5) under the Consent Agenda be moved to the City Manager's Report.

Mayor Crow stated the amendment to move the Space Needs Study and Internal Audit will be made during the Regular Council Session.

3. COMMUNITY POLICING INITIATIVES AND PARTNERSHIP WITH WASHINGTON UNIVERSITY

Mr. Rose stated this is a presentation from Chief Hampton on the advances being made in the City's Community Policing Initiative, which includes a partnership with Washington University to improve safety in specific areas of the City.

Chief of Police, Larry Hampton made the following presentation on his Department's 2019-2020 community outreach efforts, public safety updates, enhancements, and joint initiative with Washington University.

UCPD TECHNOLOGY & EQUIPMENT

- Car Cameras and One Step GPS devices added to all Fleet cars.
- New Mobile Data Terminals (MDTs or computers) are currently being updated for 90% of fleet vehicles.
- New Mobile Ticketing Printers added to Fleet cars. This enables computerized generated tickets.
- All Supervisors, FTOs, and Investigators are being trained and certified on the use of department A.R. 15 Rifles and TASERS; (*30 new purchased via a federal grant*).
- Approximately 30 tactical rifle vests added to daily fleets; (*purchased via matching grant*).
- Several Combat Armored Shields purchased and added to daily fleets.

- 3 Drones (U.A.V.) housed here at UCPD with access to 3 more at-will. This Includes 4 trained Drone Pilots/Operators. (*U City is the first Department to be granted FAA approval for day and night operations within St. Louis County.*)
- Combat conditions ROBOT with video and audio specs.
- Purchase of new Patrol Bikes being utilized for Bike Patrol Units within residential areas specifically impacted by Wash U.
- Riot Mace containers for enclosed structures; (*i.e., Jail cells, apartments, etc.*)
- Fully equipped combat-ready riot control suits.
- Two multi-purpose police canines fully trained and in use.

RING & UCPD Community Camera Programs

UCPD is currently working on a RING Camera program for dissemination in trendy areas. NEIGHBORS by RING is a nationwide program that RING and other companies have created to enhance public safety in communities around the country by creating a virtual neighborhood watch.

The Neighbors Portal gives law enforcement access to a platform, which includes:

1. No Cost-Neighbors Portal by RING. A free service offered to Law Enforcement.
2. Community Engagement provides law enforcement with the ability to join the conversation on the Neighbors app in response to videos or comments posted by the Neighbors community. (*An element which expands the Department's surveillance capabilities.*)
3. Posted Alerts based on the proximity to the recipient.
4. The ability to request videos from RING device owners who may have captured footage that can assist in new or active investigations.

This example of UCPD's use of public and private video cameras can reduce the number of victims to crime; prevent disasters from occurring while ensuring the safety of police officers and first responders. It is important for the general public to be well-informed about recognizing and reporting persons demonstrating suspicious behavior and to have confidence in public safety's response and intervention process.

Mr. Rose stated the City's initial intent is to establish a pilot program that focuses on neighborhoods where the most severe crimes are taking place. As a result, staff will be asking Council for approval to pilot the RING Program before making a full offer to extend this program City-wide.

V5 System Solutions

Accurate & Reliable Investigative Evidence

V5 systems technology is reducing gun violence with more than just gunshot detection technology.

The multi-sensor platform increases the quality and type of information to see the full picture of an event including acoustic gunshot detection/location, video surveillance with analytics, and license plate reading.

Below 0.1% False Positive Rate

AI technology combined with the multi-sensor secured operating center (MSOC) team, trained by ex-law enforcement commanders gives us the most accurate gunshot detection alert information within seconds.

Targeted Coverage Area

The V5 Systems units can easily be deployed and moved as needed to narrow down the investigative hotspots. V5 Systems technology is 100% self-powered through hail and bullet-resistant solar panels combined with a proprietary battery and a power management system. The system can also be connected to AC power.

Together, each of the units listed below work to assist the public and first responders to secure any outdoor environment in under 30 minutes. Portable access offers innovative technology at a much lower cost.

- Onsite + Portable Video Surveillance with Analytics
- On-sound Acoustic Gunshot Detection
- Onsite + Portable Camera Adaptive Platform
- Onsite + Portable PTZ; (Pan, Tilt Zoom)
- Onsite + Portable License Plate Reader

In an effort to continue to provide effective and innovative methods to protect the citizens of University City, the University City Police Department is currently evaluating gunshot detection system software. The software and cameras include license plate reader technology, live streaming cameras, and a standalone gunshot detection system.

Gunshot detection software has the ability to protect patrol officers with increased tactical awareness by identifying the number of rounds and shooters as they approach crime scenes, and connects investigators to the location of shell casings, while also improving police-community relations.

The Department extensively tested the usefulness and effectiveness of this system during a 120-day Pilot Program which began in Mid-July. The system remains operational and can be reactivated if Council provides the approval to move forward.

Results

Number of gunshot-related calls within U City:

- There was a total of 67 shots fired Incident Reports written from January 1, 2019, to November 10, 2019.

The top three hot-spots by Patrol Area:

1. 2030 - District 1 - Ward 3
 2. 2080 - District 1 - Ward 3
 3. 2083 - District 5 - Ward 3 and 2142 - District 6 - Ward 3; *(tied)*
- ❖ *V5 System has finalized an MOU (Memorandum of Understanding) with Ameren U E to employ their utility poles to install this equipment.*
 - ❖ *Individual employees from the City's Public Works Department have been trained to adjust each system whenever necessary.*

Gunshot Detection Highlights

Multi-Sensor Approach: V5 Systems multi-sensor approach allows intelligent video surveillance, license plate recognition, and acoustic gunshot detection solutions to gain real-time, quality, and type of crime information and collect critical evidence for investigations.

Real-Time Information: AI software running at the edge quickly delivers actionable alerts directly to users for faster response.

Customizable Coverage: Allows the flexibility to cover small areas like city parks or entire cities through the deployment of compact and portable units.

FAQ(s)

- 1. How close do multiple units need to be to detect and triangulate the sound of gunfire?** For triangulation, the units need to be approximately 1000' feet from one another. This depends heavily on the environment in which the units are placed and the type of deployment required by the customer. V5 performed a survey of the City's chosen POC to determine the optimal location for each unit.
- 2. What is the average time between the time of the shooting and the time of alert?** Alerts are pushed within seconds (near real-time).
- 3. Does your system use AI-based software to filter impulsive sounds?** Yes. All impulsive sounds are detected and fed into our Artificial Intelligence framework which determines the likelihood that the sound was a gunshot.
- 4. What is the rate of false positives?** The rate of false positives is based on the V5 systems being able to learn the ambient sounds of the environment where they are deployed, meaning false positives dramatically decrease over time. Additionally, V5 periodically updates the entire system using data from all employments which has resulted in baseline false-positive rates that have continued to dramatically decrease. Currently, V5's false positive rate is less than one unit per month worldwide.
- 5. How many units are needed per square mile of coverage?** This varies dramatically based on the environment. For suburbs, it takes between 20-30 units per square mile. For highly obstructed, noisy environments, this number could be higher based on the density.

COMMUNITY PROGRAMS

VIPS (Volunteers In Police Service) has now been activated with two University City Citizen's Police Academy graduates, Mr. Cohen and Mr. Zelenovich, to assist the UCPD with Community Policing.

Juvenile Diversion Program

- UCPD has been a member of the Juvenile Conference Committee since 2014, which consists of St. Louis County Family Court personnel, U City citizens, the UCPD Chaplain, and School Resource Officers. The Committee uses restorative justice practices and family resources to alter negative behaviors exhibited by juvenile offenders.
- The Juvenile Detention Alternatives Initiative (JDAI) is a year-long pilot program slated to begin in 2020 that offers services and resources designed to help low-risk or first-time offenders ages 9 to 17 from entering the justice system.
- The Front Porch is a juvenile diversion program located in Savannah, Georgia, which also consists of law enforcement, juvenile detention, family court, and school counselors. The St. Louis County Family Court provided Chief Hampton with an opportunity to visit the programs in Savannah and Lake Charles, Louisiana to observe their operations.

M.A.R.C - Multi-Agency Resource Center

The purpose of M.A.R.C is to provide referral services to agencies and organizations that support juveniles in need of assistance within their communities.

This project is a collaborative effort between the Calcasieu Parish Police Jury and the Calcasieu Parish Children and Youth Planning Board. U City has been selected as one of the first areas to receive these resources.

- Through the pooling of resources, M.A.R.C reduces the length of time a juvenile must wait to gain access to available community services from several weeks to a matter of hours. For juveniles involved in criminal activity, M.A.R.C features a secure intake area staffed by M.A.R.C personnel, which reduces the time a law enforcement officer spends retaining custody of the subject.
- Needs are addressed and determined with each juvenile based on data collected from testing and interview assessments. Information collected through this process assists staff in identifying the best approach for each juvenile.

The MARC Process also makes every attempt to direct juveniles away from the juvenile justice system whenever possible, resulting in more productive outcomes for youth and their families.

THE DELMAR LOOP

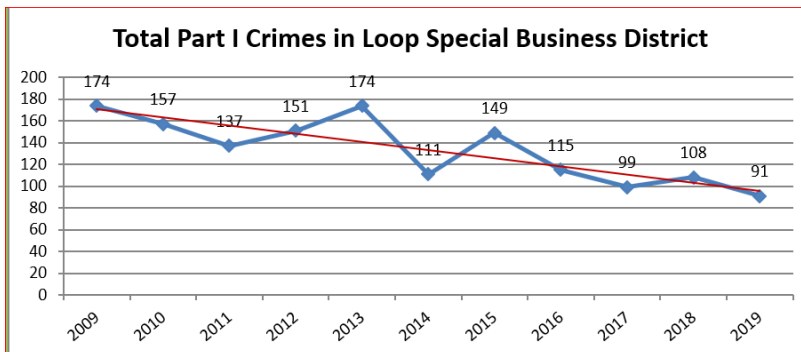
Council was shown day and night aerial views of The Loop taken by drones. UCPD drones are utilized in The Loop on a daily basis.

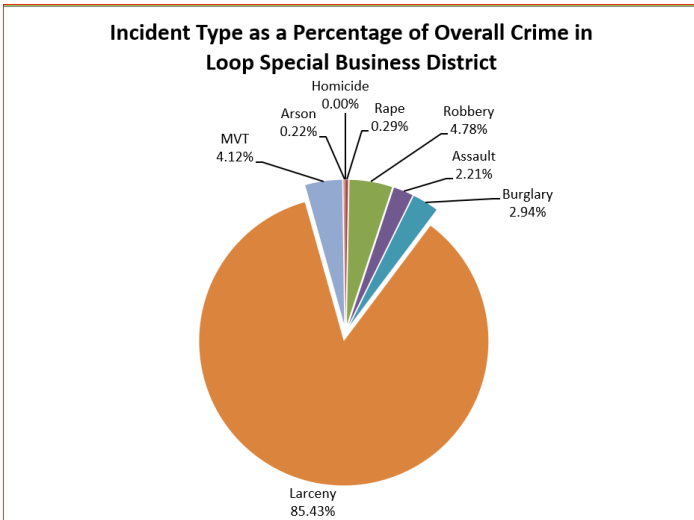
Loop Special Business District Part I Crimes

- Although drugs are not classified as a Part I Crime by the State or Federal Government, they are tracked in-house.
- Based on the significance of this commercial business district UCPD takes a proactive approach to deter crime.

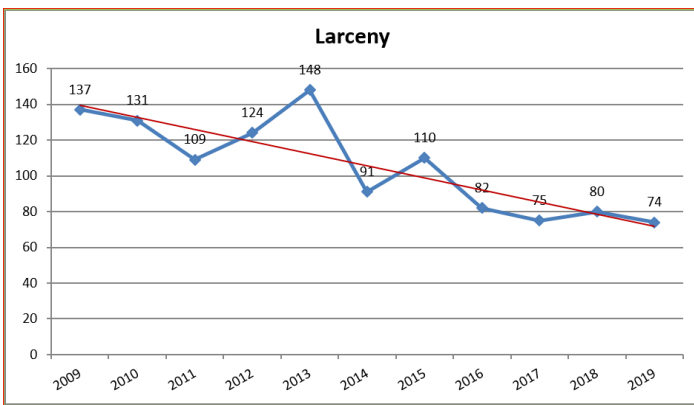
Incident Type	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Total
Homicide	0	0	0	0	0	0	0	0	0	0	0	0
Rape	0	0	0	0	0	1	1	1	0	1	0	4
Robbery	4	9	10	8	1	4	11	8	6	3	1	65
Assault	1	4	0	3	1	2	7	3	3	4	2	30
Burglary	7	2	5	1	8	2	0	5	4	5	1	40
Larceny	137	131	109	124	148	91	110	82	75	80	74	1161
MVT	8	3	5	4	3	1	9	10	3	4	6	56
Arson	1	0	0	0	1	0	1	0	0	0	0	3
Drugs	16	8	8	11	12	10	10	6	8	11	7	107
Total	174	157	137	151	174	111	149	115	99	108	91	1466

- Statistics reflected in each table and graph are from January 1, 2009, to November 19, 2019.

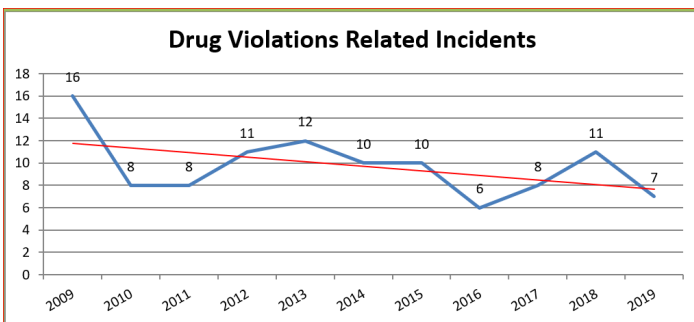




- Over 85 percent of the crime in The Loop are larcenies, i.e., unlocked doors, stolen cell phones, dine and dash, and theft of purses or backpacks.



- A drug offense refers to the unlawful possession, use, sale, growing, or manufacturing of any drug or intoxicating substance or drug paraphernalia, that is prohibited by law.



PUBLIC SAFETY PARTNERSHIPS

UCPD attends regularly scheduled criminal intelligence meetings between WUPD, SLMPD, Metro Transit PD, Clayton PD, and St. Louis County PD, to discuss current crime trends and develop strategies.

UCPD's partnership with Washington University enables law enforcement, fire, and EMS with the ability to quickly connect to valuable resources and intelligence that assists with effectively responding to any given situation(s). This reduces the misuse of manpower and enhances time management.

UCPD & WUPD Joint Operations

- Joint patrols to detect criminal and code violations in residential areas adjacent to the Danforth Campus. This patrol, which was initiated in the early 2000(s), has now been restructured and restored.
- Bike Patrols are deployed in teams to monitor community events and policing issues.
- Joint training to achieve annual gun and rifle certifications. This collaboration provides each organization with a familiarity of procedures and routine or high profile deployment policies.
- Crime Prevention Through Environmental Design (CPTED) is a multi-disciplinary approach for reducing crime through urban and environmental design and the management and use of built environments being utilized for security audits and neighborhood evaluations to enhance police and security deployments. Each organization has several trained CPTED personnel.
- WUPD owns and operates a regional hub in The Loop at 5977 Delmar for officers assigned to the Metro-Link Police Op. Meetings are conducted with multiple organizations to discuss Metro-related issues.

THE UTILIZATION OF DATA TO ENHANCE PUBLIC SAFETY

Increasing Real-Time Situational Awareness: There is a need for public safety agencies to integrate and layer data from different sources. Situational awareness is a key component of keeping officers safe on the streets and managing emergency situations.

Predicting Crime: Many law enforcement agencies use predictive policing strategies to identify crime hotspots. Predictive policing involves leveraging analytical data from multiple sources to identify patterns or trends indicative of criminal activity that allows us to respond more efficiently.

The Use of Social Media in Community Policing: Law enforcement has begun using social media as a vital aspect of community policing strategies to increase citizen engagement and proactively identify online threats and criminal behavior.

ENHANCED STREET-LIGHTING PROJECT

Studies have determined that improved lighting conditions in high crime areas assist in prevention. UCPD and the Department of Public Works Department conducted a review of the City's current lighting structures. Many of these structures are now being replaced or updated.

Chief Hampton concluded by urging everyone to lock their car doors. Vehicles automatically unlock when extra fobs are left inside, even if they are hidden and out of sight.

Councilmember Hales posed the following questions to Chief Hampton:

Q. I've had conversations with residents who have expressed some hesitancy with participating in the RING neighborhood portal based on their belief that the police will have access to their cameras.

However, his understanding of this program is that the UCPD will only have access to the public portal where residents elect to share the footage with their neighbors. Is that correct?

A. That is correct. Unless there is consent, police must obtain a subpoena to access anyone's personal surveillance camera.

Q. If a resident signs up to participate in this pilot program are they giving their consent to cooperate with the UCPD?

A. The MOU, which must be signed by a resident in order to participate in the pilot program is only between the resident and RING. After the MOU is executed RING notifies the UCPD of the resident's participation.

Q. The number of gunshots within U City was reported as being a total of 67 shots fired Incident Reports. Were there 67 different incidents or was that the number of calls received regarding shots fired?

A. That number refers to 67 different incidents, which may have been reported by more than one caller.

Q. Do the numbers 2030 and 2080 under the top three hot spots refer to the units being dispatched to a specific area within Ward 3?

A. Those numbers represent the geographic code for a specific area; i.e., 203.0 and 208.0.

Councilmember Clay posed the following questions to Chief Hampton:

Q. Does the gunshot detection software also include a camera and license plate reader?

A. The pilot program included all three systems to provide the UCPD with an opportunity to see how they worked and hopefully, purchase them. However, the City already owns license plate readers and cameras that were purchased from another vendor.

Q. I applaud the Department for its involvement in the Juvenile Diversion Programs, and tend to think it would be a feather in our cap if we can capture young people early and get them on the right path. Do you have a sense of how many young people from this community have been diverted into this program?

A. We do have a sense. U City has made the most referrals to the Family Court's program, which is why his Department was approached by St. Louis County and offered the opportunity to visit some of the out-of-state programs. The County's confinement area for its diversion program consists of 58 residential units, which only experiences 50 percent utilization.

Q. Is the District Map on U City's website?

A. The map has been included on the website with the City's crime statistics.

Q. Can you talk a little bit about your Department's preparation for Mardi Gras to ensure that next year's celebration is tamer than last year's?

A. In spite of the ability to conduct strategic plans, like foot and static patrols, young people learn to adapt and move to a different area. The key is to make sure everyone understands the consequences behind this disruptive behavior; which has been enhanced. That includes the violators, as well as landlords who permit these actions to occur on their property.

Councilmember Clay stated It might be important to get information out to the public regarding the Department's preparation for this event once we start to get a little closer to February.

Councilmember Cusick posed the following questions to Chief Hampton:

Q. Does the Department have a breakdown of the different types of drug offenses being committed in the City? Is there an issue with people coming into U City and selling drugs on the street?

A. I don't believe trafficking is an issue for the City as a whole; however, the stats provided to Council tonight are only for The Delmar Loop. And even though the Department does not maintain a breakdown of the different drug offenses, what he can say is that the use of cameras, drones, security, and police presence has been a strong deterrent, especially in the City's commercial districts.

Q. Can you explain how predicting crime correlates with the use of data to enhance public safety? How is the ability to predict crime different from profiling?

A. Predictive policing utilizes analytics to identify crime hotspots. For example, if Clayton experienced fifteen robberies, the utilization of that information would lead you to anticipate that areas adjacent to Clayton might be the next target area. So, it's much different than racial profiling, which uses race or ethnicity as grounds for suspecting someone of having committed an offense.

Chief Hampton informed Council that crime statistics for the entire City are still being compiled and must be submitted to the State by the end of January.

- NIBRS - National Incident-Based Reporting System
- Missouri is presently working to establish systems that will interface with the National Incident-Based Reporting System (NIBRS) of the FBI which breakdowns how multiple crimes are connected. The Missouri initiative is called "MIBRS"

Mayor Crow acknowledged members of the Wash U community in the audience and extended an opportunity for them to make any comments regarding tonight's presentation.

Mayor Crow asked if there was a timeline for implementing the RING pilot program? Chief Hampton stated his understanding is that it is scheduled to begin in the next two to three months.

Mr. Rose stated based on the information he received, it will be closer to the three month time period.

Councilmember Carr asked Chief Hampton if the statistics provided for The Delmar Loop included the Parkview Gardens area? When you designate the area as The Delmar Loop that is not including Parkview Gardens to the north, just the core commercial area? Chief Hampton stated that they only included the core commercial area. However, their joint collaboration with Wash U will include Kingsland to the City Limits; (east), and Vernon to University Drive.

Councilmember Hales asked Chief Hampton if he would describe the functions performed by citizen Police Academy graduates? Chief Hampton stated the program includes a very detailed background check which allows volunteers to perform support services within the Department, observational patrolling, reporting of incidents, and attendance at community policing events and meetings.

4. ADJOURNMENT

Mayor Crow thanked Chief Hampton for his presentation and adjourned the meeting at 6:19 p.m.

LaRette Reese
City Clerk

