

DATE: April 25th, 2022

TO: 911 Emergency Response Advisory Committee

FROM: Cody Shadle, Manager, City of Reno Public Safety Dispatch shadlec@reno.gov
775-334-2370

THROUGH: Jason Soto, Chief of Reno Police Department

SUBJECT: PRIMARY PSAP (Public Safety Answering Point), CITY OF RENO PUBLIC SAFETY DISPATCH PUBLIC SAFETY CENTER DISPATCH INFRASTRUCTURE CONSTRUCTION for [For Possible Action] - A review, discussion and possible action to approve, deny or otherwise modify a request to fund the costs associated with the purchase and installation of independent and isolated electrical infrastructure, including an electrical backup generator and uninterruptible power system (UPS) to directly support and connect radio, telephone and CAD (computer aided dispatch) equipment for Reno Public Safety Dispatch's new location within the Public Safety Center for a cost not to exceed \$905,000.00.

SUMMARY

PRIMARY PSAP (Public Safety Answering Point), CITY OF RENO PUBLIC SAFETY DISPATCH PUBLIC SAFETY CENTER DISPATCH INFRASTRUCTURE CONSTRUCTION for [For Possible Action] - A review, discussion and possible action to approve, deny or otherwise modify a request to fund the costs associated with the purchase and installation of independent and isolated primary and backup electrical infrastructure, including an electrical backup generator and uninterruptible power system (UPS) to directly support and connect radio, telephone and CAD (computer aided dispatch) equipment for Reno Public Safety Dispatch's new location within the Public Safety Center for a cost not to exceed \$905,000.00. This system will allow the Reno Public Safety Dispatch's new center to accommodate an expanded dispatch environment to include additional dispatcher positions and operate as a redundant backup location.

NRS APPLICABLE:

NRS 244A.7645 Provides approval of costs associated with maintenance, upgrade and replacement of equipment necessary for the operation of the enhanced telephone system.

STAKEHOLDER REVIEW(S)

Stakeholders are the three primary Public Safety Answering Points (PSAP) – City of Reno Public Safety Dispatch, Sparks Emergency Communications and Washoe County Sheriff's Office Communications.

PREVIOUS ACTION&BACKGROUND

Washoe County Regional 911 Emergency Response Advisory Committee 5 Year Master Plan states “The renovation and construction plan for each of the three emergency communications operations will create a mutually beneficial triangle configuration.” The construction plan for Reno Public Safety Dispatch includes the relocation and development of a new Dispatch center. This will eliminate the potential impact of a singular event compromising two PSAPs (Washoe and Reno) simultaneously while creating an additional redundant location to allow for increased capacity during an emergency event. To ensure the continuity of operations the Dispatch center requires stand-alone infrastructure that cannot be reliant on any other systems within the Public Safety Center at large, to include electrical primary and backup systems as required by NENA (National Emergency Number Association) and NFPA (National Fire Protection Association) standards.

On May 21st, 2020, the E911 Emergency Response Advisory Committee approved the funding for infrastructure improvements for Sparks Emergency Communications Center as follows:

Universal Power Supply: \$27,000.00

Electrical Infrastructure: \$70,000.00

Data Lines: \$13,000.00

FISCAL IMPACT

The Enhanced 911 Fund is a special revenue fund which receives revenue pursuant to NRS 244A.7643 in the form of telephone surcharges collected to support the emergency reporting system.

RECOMMENDATION

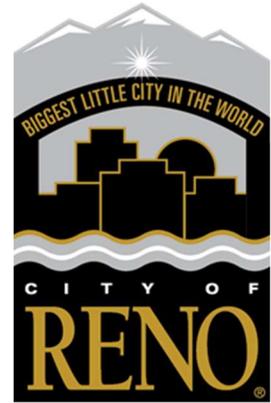
It is recommended that the E911 Emergency Response Advisory Committee approve the request to fund the costs associated with the purchase and installation of independent and isolated primary and backup electrical infrastructure for the City of Reno Public Safety Dispatch (PSAP) for a cost not to exceed \$905,000.00.

POSSIBLE MOTION

Move to approve the recommendation that the E911 Emergency Response Advisory Committee approve the request to fund the costs associated with the purchase and installation of independent and isolated primary and backup electrical infrastructure for the City of Reno Public Safety Dispatch (PSAP) for a cost not to exceed \$905,000.00.

February 8, 2022

Commander Robert Larson
 Reno Police Department
 455 East Second Street
 Reno, NV 89502



RE: Public Safety Center – Dispatch Infrastructure Funding

Dear Cmdr. Larson,

Below is a breakdown of the construction related costs for Dispatch located at the Public Safety Center and relevant to infrastructure located on the 911 Kuenzli Street parcel only. Please note there may be additional offsite costs not included in this list to establish Dispatch and 911 communication related infrastructure into the site.

Item	Description	Cost	Implementation
1	Xybix 911 Dispatch Workstations	\$ 310,000	Sept.-Dec. 2023
2	Harris Dispatch Symphony Consoles	\$ 2,000,000	June-Dec. 2023
3	IT network equipment, desktop computers, monitors (6 ea.), etc.	\$ 83,000	Jan.-July 2023
4	Audio and video equipment	\$ 25,000	June-Dec. 2023
5	Intrado 911 phone/routing service and equipment for relocation	\$ 350,000	Prior to dispatch move
6	PSC Dispatch related construction costs	\$ 2,000,000	March 2022
7	911 Microwave Radio Transmission system	\$ 100,000	June-Dec. 2023
8	911 service agreements, contracts, reconfiguration	\$ TBD	Prior to dispatch move
9	10% Contingency for unforeseen circumstances	\$ 489,000	N/A
Total		\$ 5,357,000	

The PSC Dispatch construction costs include build out according to National Emergency Number Association (NENA), National Fire Protection Association (NFPA), various other jurisdictional code requirements, and design requests of Reno Dispatch. Below is a list that includes, but is not limited to, construction items required with Dispatch included in this facility:

	PSC Dispatch Construction Items	Cost
6a	General Conditions, Insurance and Bonding	\$ 390,000
6b	Carpentry	\$ 80,000
6c	Doors and windows	\$ 70,000
6d	Finishes	\$ 160,000
6f	Plumbing	\$ 80,000
6g	HVAC	\$ 315,000
6h	Electrical	\$ 905,000

6b,c,d) Two hour fire ratings for walls, conduits, and other infrastructure into and out of Dispatch and related areas including MDF, IDF, and UPS rooms.

6b,c,d) Architectural special features such as EOC room, raised supervisor platform, etc.

6f) Restroom dedicated to Dispatch only, adjacent to dispatch floor.

6g) HVAC air handler and ducting dedicated to Dispatch only.

6h) Electrical generator dedicated to Dispatch only.

6h) Electrical panels, conduit, conductors and circuitry dedicated to Dispatch only.

6h) Electrical uninterruptible power system (UPS) and room dedicated to Dispatch only.

Sincerely,



Justin George, P.E. | Associate Civil Engineer