

Special Town Meeting
May 2022

Article 7

Public Safety Radio Infrastructure

The Town of Saugus public safety communication infrastructure is in need of critical upgrades and replacement of the town's older communication system and infrastructure. Replacement of this infrastructure will ensure reliability and town-wide coverage for the portable and mobile radios and a much needed investment in the Town-owned network to expand fiber optic communications.

The overall cost of the enhancements to the public safety infrastructure is expected to be approximately \$2,000,000.00. Most recently, the Town of Saugus was awarded \$1,000,000.00 through a Congressional Directed Spending federal funding request. These funds in addition to the \$508,000.00 previously appropriated by Town Meeting (2016-2018) and an Earmark from the State Delegation add up to funding of \$1,508,000.00 toward the project.

This additional appropriation of \$500,000.00 should meet the estimated cost of the project.

The source of funding for this article is a borrowing authorization.

Article 7 - Saugus Public Safety Radio Infrastructure Special Town Meeting May 2022

Funding Sources	Amount
Vote of Town Meeting May 2016 for Public Safety	
Radio Equipment	\$ 38,000.00
Borrowing Authorization 4.9.18	\$ 420,000.00
Public Safety Earmark funding provided by State Delegation	\$ 50,000.00
Public Safety Communication Enhancements Federal Grant	\$ 1,000,000.00
Appropriation STM May 2022	\$ 500,000.00
	\$ 2,008,000.00

Article 7

Public Safety Communications System Upgrade

- Upgrade the town-wide public safety communications system, including: Police, Fire, Dispatch and DPW radio systems and repeaters along with an upgrade from copper backbone to fiber-connected systems.
- The project will include a complete catalog and evaluation with plans and specifications for the upgrade to the existing Public Safety system, equipment, available power and data cabling antenna, Public Safety Building main dispatch E911 equipment and furnishings. All equipment and infrastructure needed to operate the proposed new systems will be converted from copper to fiber.
- Review and catalog the existing equipment, develop preliminary designs and design development for the replacement and installation of a new Police Station communications system including any temporary provisions needed to house the existing Public Safety operation during design and construction.
- Locations to be evaluated and upgraded:
 - Saugus Public Safety Building
 - Essex Landing site
 - Heritage Heights (police/fire)
 - Win Waste Innovations (police/fire)
 - Saugus Middle High School
 - Square One Mall
 - Tower Road (police/fire)
- Equipment to be evaluated, upgraded and replaced:
 - The equipment and systems to be evaluated include but are not limited to the following:
 - Any and all necessary upgrades in electrical power, internal power wiring, new consoles, furniture and demolition of existing wiring to devices, racks, cabinets, CAT7 or greater device and control wiring to and from equipment, control rooms and racks. New complete systems to include any and all new consoles, furniture, demolition of existing equipment and FFE to accommodate new Police and Fire and E911 Communications system.

Police and Fire CONSOLETTTE and all associated equipment:
PC's, voice processing, and telephone systems

Zetron dispatch console

IP base fire station alerting system

BAPER North District Control Station and accessories

Police and Fire surrounding towns UHF control
stations and accessories

Police and fire simulcast transmitters, receivers and base
stations

Area WIDE 3, 4 radio equipment and accessories:

DPW control station and accessories

Metro North District Control Station

Metro White, Red Control Station 1 and accessories

School Department Control Station and accessories

HQ Antenna Systems Combiner and accessories

Fiber transport equipment

Comparators/gateways and accessories

Fiber Transport Equipment:

Simulcast GPS timing equipment for Heritage Heights
and Tower Road

Simulcast, repeaters, antenna, oscillator for each location

Antenna, cabling and accessories

