

## MEMORANDUM



**TO:** DAVID E. MOLLOY  
DIRECTOR OF PUBLIC SAFETY/ CHIEF OF POLICE

**FROM:** SCOTT R. BAETENS  
ASSISTANT CHIEF OF POLICE – SUPPORT SERVICES

ERICK W. ZINSER  
ASSISTANT CHIEF OF POLICE – UNIFORM OPERATIONS

**SUBJECT:** IMMEDIATE NEEDS BUDGET REQUEST

**DATE:** DECEMBER 9, 2020

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Based upon circumstances out of our control, we are requesting the following budgeted items be moved to the 20/21 budget year per the Finance Department's recommendation and be taken out of the General Fund at a cost of \$179,720.

### P25 Radio

The P25 radio system replacement was added as a year one project because the County is estimating the new radio system may be rolled out within approximately 18 months. This project will replace the police and fire radios in all Oakland County Dispatch Centers and will provide compatibility and sharing of infrastructure with other dispatch centers. It also includes full integration of a simulcast system into the State of Michigan MPSCS radio system. This will give the Novi Dispatch Center, as well as all Oakland County Dispatch Centers, the ability to communicate if necessary with public safety agencies across the state. Although the cost of the main radio replacement is being subsidized by Oakland County, local dispatch centers are responsible for purchase of all spare equipment and accessories. The \$120,000 requested is the cost of additional equipment, such as spare mobile and portable radios for both police and fire, installation costs, additional charging stations, belt prep holders, and base radio units (also known as control stations) for use in the sergeant's and lieutenant's offices. We got this request in as quickly as possible, but Oakland County did not provide dispatch centers with the additional equipment order form until last month.

### Rifle Replacement

Our current patrol rifles were purchased in 2014. The manufacturer recommends part replacement in three stages. The bolt assembly and fire pins should be replaced every ten thousand rounds, the barrel should be replaced every fifteen thousand rounds, and at twenty thousand rounds the upper and lower receivers should be replaced. These recommendations are an approximate number estimation by the manufacture. We have exceeded the ten thousand round mark.

In 2019 we spent \$14,127.90 in rifle parts. Three of the rifles required bolt assembly and firing pin replacement. We continue to replace these parts in the other rifles as needed. In 2019 all the rifle scopes failed unexpectedly and were replaced. We were somewhat caught off guard and not expecting the rifles to begin to fail so rapidly. We will continue to incur thousands of dollars annually, just to maintain our current rifles. To maintain new parts on the rifles, our armors must take the rifles apart and put them back together again. Our armorers project it takes an hour to break a rifle down, do the maintenance, and put the rifle back together. Our patrol rifles are a potentially

lifesaving tool for the officers and our citizens. If deployed, they cannot fail. They must be in excellent working order. It is far more cost effective to replace the rifles now rather than continue to purchase parts and fix them as needed, and then replace them three years from now.

#### Mobile Field Force Equipment

In 2012, the Novi Police Department joined the Oakland County law Enforcement - Tactical Training Consortium (OAK-TAC). This consortium is made up of nearly every Oakland County law enforcement agency. The consortium is designed to standardize county wide training and shared resources. In part, some of the resources include shared mobile field force equipment. The equipment is stored in two 30-foot trailers. The trailers are stored at the Troy Police Department. To use the equipment, a call must be made ahead of a known event, or if an unexpected event happens the equipment is in Troy and we must wait for it to be delivered. Further, there is the possibility the equipment will not be available as it may be in use elsewhere at the same time.

The Novi Police Department utilized the equipment when the republican party came to the Suburban Collection Showplace during the 2016 election. The trailers were delivered and staged in case the equipment was needed. Upon the completion of the event, we took the trailers back to Troy, MI. This process is time consuming, requires proficient trailer haulers, and takes staff out of the city for two hours when they could be doing proactive police work within Novi. It is simply not an efficient use of resources. Further, all the equipment is a generic (one size fits all) application. It is maintained only as well as the last user leaves it. We cannot confirm the equipment is sanitized between uses.

We could not predict the events of 2020. While Novi has been fortunate not to have seen the riots and harsh demonstration that have play out across the globe, we did experience six peaceful rallies. The City of Novi is not immune to the possibility of riots. More than 2,000 law enforcement officers were injured in the first weeks of protests over the summer following the police killing of George Floyd, according to a report released in October. The Major Cities Chiefs Association, a professional association comprised of local law enforcement heads from the 69 largest police agencies in the United States and nine in Canada, detailed the unrest and compiled data from protests between May 25 and July 31 in MCCA member cities.

During that period, there were 8,700 protests nationwide; 574 were declared riots with violence and other criminal acts. The violence was limited to 7% of protests, the report said.

More than half of demonstrations were peaceful and lawful while other periods of unrest that at times stretched law enforcement, the MCCA said. We must make sure our

officers are prepared with their own equipment to handle such encounters. Calling for used, one size fits all borrowed equipment for a planned event, or an unexpected-ongoing event is failing our team. They must be prepared to respond appropriately and efficiently with the proper equipment. We recommend the purchased of the Mobile Field Force Equipment for each officer.

# MEMORANDUM



**TO:** DAVID E. MOLLOY, CHIEF OF POLICE / DIRECTOR OF PUBLIC SAFETY  
**FROM:** ALAN PATTERSON, COMMUNICATIONS MANAGER  
**SUBJECT:** RADIO REPLACEMENT – IMMEDIATE NEED  
**DATE:** DECEMBER 9, 2020

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## IMMEDIATE NEED

The P25 radio system replacement was added as a year one project because the County is estimating the new radio system may be rolled out within 18 months. This project will replace the police and fire radios in all Oakland County Dispatch Centers, and will provide compatibility and sharing of infrastructure with other dispatch centers. It also includes full integration of a simulcast system into the State of Michigan MPSCS radio system. This will give the Novi Dispatch Center, as well as all Oakland County Dispatch Centers, the ability to communicate if necessary with public safety agencies across the state. Although the cost of the main radio replacement is being subsidized by Oakland County, local dispatch centers are responsible for purchase of all spare equipment and accessories. The \$120,000 requested is the cost of additional equipment, such as spare mobile and portable radios for both police and fire, installation costs, additional charging stations, belt prep holders, and base radio units (also known as control stations) for use in the sergeant's and lieutenant's offices. We submitted this request in as quickly as possible, but Oakland County did not provide dispatch centers with the additional equipment order form until just last month.

## BACKGROUND

In January 2020, the Oakland County Radio Oversight Committee met to discuss the P25 Radio Project. This project will involve the replacement of the Open Sky radio system currently in use by Oakland County Police and Fire Department dispatch centers, and will include all police and fire mobile and portable radios, and all related accessories including belt holsters, chargers, shoulder mics, and batteries. Currently, Oakland County is targeting January 2022 to begin the installation of the new radio equipment. They expect to be complete by June 2022.

As part of this project, Oakland County has purchased and will provide the City of Novi with the following:

### Police

- 71 portable APX6000 radios
- 142 twelve hour batteries
- 71 belt holsters
- 71 single chargers
- 71 shoulder mics
- 26 mobile APX6500 (O5) radios

- 1 APX6500 Dual Control Head radio for Command Vehicle

Fire

- 58 portable APX6000 radios
- 116 twelve hour batteries
- 58 belt holsters
- 58 single chargers
- 58 XE rated shoulder mics
- 19 mobile APX6500 radios

Although the equipment offered by Oakland County will replace the majority of our current radio equipment, it does not address replacement of the following:

- Spare portable radios for use when an officer's radio is in need of repair. We currently maintain approximately six spare portable radios for this purpose.
- Two portable radios assigned and used by our VIPS program
- Multi battery bank chargers used by both the Police and Fire Departments. Currently, the FD is currently has a multi-bank charger at each station (4), while the PD utilizes three multi-bank chargers.
- Four desktop control station radios located at the police department front desk, Sergeant's office, squad room, and Lieutenant's office
- One desktop mobile control station located in the 12 Oaks Security office
- Two mobile APX6500 (O5) radios for the Fire Department. They are receiving 19 from Oakland County but are in need of 21 due to an increase in fleet size.
- Two mobile APX6500 (O5) radios needed as replacements for patrol vehicles when a radio is out for repair.
- Each additional radio purchased, over and above those supplied by Oakland County, will be subject to a \$250 MPSCS programming charge. This charge will not be covered by Oakland County.

RECOMMENDATION

I recommend purchase of the following items to replace existing equipment.

I recommend the purchase of the following additional equipment:

1. Eight portable APX6000 radios	\$45,434.40
2. Seven multi-unit battery chargers	\$6,562.50
3. Four APX 6500 mobile radios	\$24,619.80
4. Install of two APX6500 in FD Vehicles	\$870.00
5. Five APX 6500 Desk Top Control Stations	\$32,674.75
6. MPSCS Programming for added radios (17)	\$4,250

Total: \$114,411.45

# MEMORANDUM



**TO:** DAVID E. MOLLOY  
DIRECTOR OF PUBLIC SAFETY/CHIEF OF POLICE

**FROM:** ASSISTANT CHIEF ERICK ZINSER

**SUBJECT:** RIFLE REPLACEMENT – IMMEDIATE NEED

**DATE:** DECEMBER 9, 2020

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## IMMEDIATE NEED

Our current patrol rifles were purchased in 2014. The manufacturer recommends part replacement in three stages. The bolt assembly and fire pins should be replaced every ten thousand rounds, the barrel should be replaced every fifteen thousand rounds, and at twenty thousand rounds the upper and lower receivers should be replaced. These recommendations are an approximate number estimation by the manufacture. We have exceeded the ten thousand round mark.

In 2019 we spent \$14,127.90 in rifle parts. Three of the rifles required bolt assembly and firing pin replacement. We continue to replace these parts in the other rifles as needed. In 2019 all the rifle scopes failed unexpectedly and were replaced. We were somewhat caught off guard and not expecting the rifles to begin to fail so rapidly. We will continue to incur thousands of dollars annually, just to maintain our current rifles. To maintain new parts on the rifles, our armors must take the rifles apart and put them back together again. Our armorers project it takes an hour to break a rifle down, do the maintenance, and put the rifle back together. Our patrol rifles are a potentially lifesaving tool for the officers and our citizens. If deployed, they cannot fail. They must be in excellent working order. It is far more cost effective to replace the rifles now rather than continue to purchase parts and fix them as needed, and then replace them three years from now.

## RIFLE PURCHASES

The Novi Police Department currently uses the Sig Sauer 516 as its standard patrol rifle. Three Sig Sauer 516's were purchased in 2013, and twenty were purchased in 2014. An additional five Sig Sauer 516's were purchased in 2015. The rifles used on patrol are also used for all rifle training. As a result, thousands of rounds have been fired from each of the twenty-eight rifles in the Novi Police Department inventory. In addition, the rifles go through some wear and tear being in patrol cars. The rifles are starting to show their age. The Sig Sauer 516 is a piston operated system instead of the more standard carbine gas system. There are pros and cons with both systems. One drawback of the piston driven system is that it is heavier than a carbine gas system. Switching to a lighter rifle would allow officers to remain more effective longer as they should be less taxed than they would be deploying a heavier rifle. With these matters in mind, I recommend that the Novi Police Department begin the process of replacing our current patrol rifles.

### RECOMMENDED RIFLE

The Daniel Defense DDM4V4S is recommended to replace the Sig Sauer 516's currently used by the Novi Police Department. The DDM4V4S is a 5.56 caliber semi-automatic rifle with a carbine gas system. It has a 11.5-inch barrel, and weighs 5.85 pounds. Daniel Defense makes reliable weapons, and are currently being used by a majority of the Southwest Oakland County Special Response Team. By way of comparison, the Sig Sauer 516 has a 16-inch barrel and weighs 7.3 pounds.

The rifles should be outfitted with Trijicon Miniature Rifle Optics (MRO) red dot sights that are currently used with the Department's Sig Sauer 516's. The MRO's already in the Novi Police Department inventory are in good condition, and could be switched over from use on the Sig Sauer 516's to the new rifles being purchased. In addition, the rifles should be outfitted with iron sights that co-witness the same point of aim as the MRO red dot sights just as the Sig Sauer 516's are currently set up.

The rifles will require a light mounted on the handguards for use in low light environments, just like the current Sig Sauer 516's. The light currently being used is the Stream Light TLR-1 HL which has served the needs of the Department well.

The Novi Police Department currently uses the Savvy Quad dual quick detachment mount-n-slot attachments. This sling has served the Novi Police Department very well for several years. It allows the sling to be attached to the weapon in various configurations, and sizing.

The table below shows the prices associated with each component of the rifle system.

Table 1:

<b>Component</b>	<b>Unit Price</b>	<b>Quantity</b>	<b>Total</b>
<b>DDM4 V 42</b>	\$1,462.00	34	\$49,708.00
<b>Fixed Front/ Rear Sights</b>	\$101.00	34	\$3,434.00
<b>Stream Light TLR-1 HL</b>	\$133.99	34	\$4,555.66
<b>Savvy Sling</b>	\$84.95	34	\$2,888.30
<b>Total</b>	<b>\$1,781.94</b>	<b>34</b>	<b>\$60,585.96</b>
<b>Trade-In</b>	<b>\$1,000</b>	<b>28</b>	<b>(\$28,000.00)</b>
	<b>Net with Trade-In</b>		<b>\$32,585.96</b>

The table above shows the cost to replace thirty-four rifles. In addition to the twenty-eight rifles purchased as shown above, the Novi Police Department also possesses four Sig Sauer 516 Short Barreled Rifles, and two Sig Sauer MCX's. These rifle platforms are capable of full-automatic fire, and are used by the Special Response Team. That brings the total number of Sig Sauer rifles to thirty-four. By purchasing replacement rifles, the current stock of Sig Sauer rifles could be sold or traded in as a credit towards the new Daniel Defense rifles. Current estimates for purchasing used Sig Sauer 516's is currently around \$1,000 a rifle. The actual value of the rifles could fluctuate over time, and will also be affected by the condition of the rifles at the time of sale. If all twenty-eight Sig Sauer 516's are sold at

\$1,000 each, then the net cost of purchasing new rifles with all of the accessories would be \$32,585.96. The six Sig Sauer rifles used by the Special Response Team were not included in the possible trade in value calculation as those were expected to be included as part of a possible different transaction.

ATTACHMENTS

Quote from Daniel Defense

Savvy Sniper QUAD Sling Specification and Price Sheet

Stream Light Quote

Used Sig Sauer 516 Patrol Rifle Trade in Price Sheet



# MEMORANDUM



**TO:** DAVID E. MOLLOY  
DIRECTOR OF PUBLIC SAFETY / CHIEF OF POLICE

**FROM:** ASSISTANT CHIEF ERICK ZINER

**SUBJECT:** MOBILE FIELD FORCE EQUIPMENT – IMMEDIATE NEED

**DATE:** DECEMBER 9, 2020

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## IMMEDIATE NEED

In 2012, the Novi Police Department joined the Oakland County law Enforcement - Tactical Training Consortium (OAK-TAC). This consortium is made up of nearly every Oakland County law enforcement agency. The consortium is designed to standardize county wide training and shared resources. In part, some of the resources include shared mobile field force equipment. The equipment is stored in two 30-foot trailers. The trailers are stored at the Troy Police Department. To use the equipment, a call must be made ahead of a known event, or if an unexpected event happens the equipment is in Troy and we must wait for it to be delivered. Further, there is the possibility the equipment will not be available as it may be in use elsewhere at the same time.

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Quotes were obtained from various vendors for the purchase of mobile field force equipment for 71 officers.

#### **VENDOR #1**

Worldwide Tactical  
925 41<sup>st</sup> Suite 106  
Miami Beach, FL 33140  
[www.wwtactical.com](http://www.wwtactical.com)  
TX: 305-534-0777  
FAX: 305-534-1297  
General Manager: Michael Diveroli

Worldwide Tactical is offering two (2) separate mobile field force suit packages:

#### **PACKAGE #1**

Mobile field force suit/stand-alone offer: The offer encompasses the Onyx Armor mobile field force protective suit. The suit includes the complete full body protection gear/the upper body and shoulder protection, forearm protector, thigh and groin protector, knee and shin guards. Included with the suit is a pair of half finger mobile field force gloves and a carrying case for the mobile field force gear.

#### **PACKAGE #2**

Mobile field force suit/helmet combo offer: The offer encompasses the Onyx Armor mobile field force Protective suit. The suit includes the full body protection gear/the upper body and shoulder protection, forearm protector, thigh and groin protector, knee and shin guards. Included with the suit is a pair of half finger mobile field force gloves, a carrying case for the mobile field force gear, a tactical mobile field force helmet, the helmet full-flip polycarbonate face shield, and a removable tactical neck protector and a draw string storage bag for the helmet.

Price:

#### **VENDOR #2**

Alternate Force  
P.O. Box 296  
Cato, N.Y 13033

Alternateforce.net  
TX# 888-865-2900  
Sales Representative: Wayne Clark

The package includes the FX1 mobile field force suit, which includes the upper body and shoulder protector, forearm protector, thigh and groin protector, knee and shin guard and carrying bag for the suit. The Damascus DH1 mobile field force helmet, the helmet full polycarbonate adjustable visor and removable cervical neck protector. Paulson rectangular 24-inch x 48-inch Polycarbonate mobile field force shield. Damascus Nitro Kevlar mobile field force tactical gloves with carbon Tek knuckles. Monadnock rigid Polycarbonate baton and a duffle bag to carry all the above-mentioned gear.

**VENDOR #3**

Security Pro USA  
Government sales  
8543 Venice Blvd, Los Angeles, CA, 90034  
TX# 800-264-8273  
TX# Direct 310-475-7780 X109  
[cp@securityprousa.com](mailto:cp@securityprousa.com)  
Sales Manager: Cindy Perez

Secpro mobile field force suit/complete, which includes the upper body and shoulder protector, forearm protector, thigh and groin protector, knee and shin guard, mobile field force gloves/hard knuckle with Kevlar and carrying bag for the suit.

**ADDITIONAL ITEMS**

Luggage tags for each bag to identify the officer's respective bags.

Office Max  
21071 Haggerty Rd  
Novi, MI 48375  
TX# 248-305-5205

GBC Luggage Tag with Loop with Laminating pouches. Size 2.8 inches X 4.5 inches. Five pouches per pack. \$6.99 X15 pouches including tax. Total cost: \$111.14.

The tags will bear each Officers business card on their respective carrying case that contains their complete mobile field force gear.

MOBILE FIELD FORCE SUIT COMPARISON CHART

Vendor #1 (Package #1)	Vendor #1 (Package #2)	Vendor #2 (Package #1)	Vendor #3 (Package #1)
Onyx Armor brand	Onyx Armor brand	FX1 brand	Secpro brand

Upper body	Upper body	Upper body	Upper body
Shoulder	Shoulder	Shoulder	Shoulder
Forearm	Forearm	Forearm	Forearm
Thigh	Thigh	Thigh	Thigh
Groin	Groin	Groin	Groin
Knee	Knee	Knee	Knee
Shin	Shin	Shin	Shin
Gloves	Gloves	Gloves	Gloves
Carrying case	Carrying case	Carrying bag	Carrying bag
X	Helmet (face shield/neck protector/bag included)	Helmet (visor/neck protector included)	X
X	X	Shield	X
X	X	Baton	X
\$325/each	\$400/each	\$842/each	\$304/each
\$23,075 (71 quantity)	\$28,400 (71 quantity)	\$59,782 (71 quantity)	\$22,584 (71 quantity)

OPTIONAL ADD-ON'S COMPARISON CHART

Vendor #1 (Optional add-on's)	Vendor #2 (Optional add-on's)	Vendor #3 (Optional add-on's)
Body shield (\$76/each)	X	Shield (\$92/each)
Baton (\$16/each)	X	Baton (\$34.99/each)
Kevlar gloves (\$24/each)	X	Helmet with face shield and neck protector (\$102/each)

ADDITIONAL PURCHASES CHART

Luggage tags (\$6.99/five pack) x 15	\$111.14 total
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SUMMARY AND RECOMMENDATIONS

Security Pro USA, is the vendor that Oakland County Mobile Field Force purchased their current mobile field force gear from. The above Secpro mobile field force suit is the same suit Oakland County Mobile Field Force is currently utilizing. I would recommend the Security Pro USA, package due to the quality of the gear, also it is the same equipment utilized by the Oakland County Mobile Field Force.