Stoughton Fire Department

Capital Budget Request for 2023

and planning for 5 years out

Capital Plans – 2022 to 2028

EQUIPMENT	2023	2024	2025	2026	2027	2028
PPE Purchase/Replacement	$ 50,130	$ 50,000	$ 51,000	$ 52,000	$ 53,000	$ 54,000
ATV 2 - Skid Unit	$ 5,000					
FireCom Installs	$ 70,000					
Traffic Pre-emption Repair/Update	$ 10,000					
(Copier)	$ 11,000					
Brush Truck Update (B12, B7)	$ 6,500					
Computers, MDC, Update	$ 10,000	$ 10,500.00	$ 12,000.00	$ 10,500.00	$ 10,000.00	$ 10,000.00
Mobile Radios	$ 170,000					
Dispatch/Radio Dispatch Update	$ 120,000					
Tires - Engine 1	$ 4,000					
Engine 2 Replacement		$ 875,000				
Thermal Imaging Cameras		$ 30,000				
Boat Replacement			$ 80,000			
2012 Ram Truck Replacement				$ 100,000		
SCBA Bottle Replacement (End of Life), or Air Pack Replacement				$ 234,000		
Ladder 4 Replacement					$ 1,750,000	
TOTALS	$ 456,630	$ 965,500	$ 143,000	$ 396,500	$ 1,813,000	$ 64,000

Buillding Project	2023	2024	2025	2026	2027	2028
De-ionized Water System	$ 5,300					
Training Room AV Update	$ 11,000					
Door Intercom System	$ 16,000					
Office Chairs, equipment	$ 2,500					
Training Room Table Replacment		$ 15,000				
Station PA System Update		$ 4,000				
Training Facility			$ 50,000			
FD Alarm System Update/Replace			?			
Mezzanine Project			?			
	$ 36,823	$ 21,024	$ 50,000	$ -	$ -	$ -

2022
2023
2024
2025
2026
2027

Capital Expenditure Request 2023

1) PPE for firefighter

2) ATV 2 – Skid Unit (Redo/Carryover Project)

3) Firecom Headset Installs

4) Traffic Pre-Emption Update/Repair

5) Copier Purchase

6) Brush Truck Update

7) Computers/MDC update

8) Mobile Radios in Apparatus

9) Dispatch Console/Radio System Update

10) Tires – Engine 1

Stoughton Fire Dept

Operations Today

Stoughton Fire is Dispatched to the Following Call types

- Structure Fires
- Alarms (Fire, Carbon Monoxide, etc)
- Car Accidents
- EMS Assists
- Wildland/Brush Fire
- Technical/Rescue
- Water Rescue
  - Lake Rescue (surface and dive rescue)
  - Swiftwater Rescue
- Other Calls, as requested

#1 - PPE (Personal Protective Equipment) $50,130

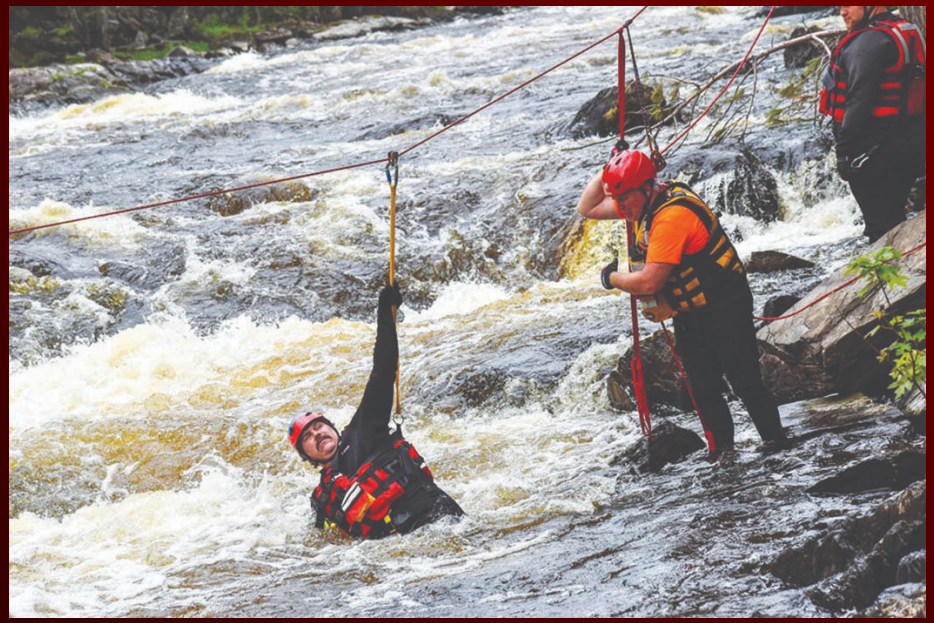
- Specific to the Job/duties, concentrating on Structural, Wildland and Technical Rescue PPE
- Technical Rescue includes rope, water and confined space rescue.
- Stoughton has option to be part of Swiftwater team (being addressed at Sept. 13 Finance and Council meetings. This would drop Stoughton FD's portion to 10% of cost for training, travel and equipment (est $250, vs $2500 per person).
- Looking to outfit at least 2-3 personnel in the grant, but as many as we can supply.
- Also trying to get personnel involved in rope rescue, which is a big part of swiftwater rescue.

Structural Gear

- Sized to each Firefighter
- Price is rising to approx. $3.5k + /set, due to PFA reduction/elimination from materials
- Protects against heat for Structural firefighting
- Also has barrier for Blood borne Pathogens and Moisture
- These features also hold in heat/moisture, causing FF stress
- Max Life of 10 years
- Generally takes minimum of 4 hours to wash and dry gear, putting that FF out of service

Technical Rescue Gear

- Swiftwater Vest, dry suit, helmet, etc are required.
- Not the same as our Ice Rescue suits. Flotation is only provided by vest (Ice suits are entire suit). This allows better mobility in water.
- Max Life of 10 years (Per NFPA Standards)
- Sized for each person, especially swiftwater suits. Rope Rescue harnesses are more size variable per person.
- Need to have gear to put personnel through class.



Technical Rescue Gear cont'd

- Rope Rescue harness, not intended for water, but for rope and confined space rescue purposes.
- Sizes more flexible per person.
- Max Life of 10 years (Per NFPA Standards)
- Harnesses needed to put personnel through classes before department will be ready for response.
- Cell tower, tree rescue, roof rescue, confined space with utilities.
- Closest teams are Janesville and Madison. Willing to come, but truly looking at 30 minute response time either way.

Technical Rescue Gear cont'd

#2 – ATV 2 – Skid Unit Replacement

- **Est. $5,000 cost to Stoughton**
- Our ATV 2 (6 wheeled ATV) has a skid unit (water tank and pump) that has corrosion issues in the tank. The tank is integral to the base/structure of the Skit unit, so separation of the tank to be replaced is not fiscally sound.
- The welder that repaired the tank a couple years ago, stated that there was no more welding that could be done. Replacement is the next option.

ATV 2 – Skid Unit Replacement

- The wheeled ATV is utilized for areas where the Tracked ATV is not appropriate (paved surfaces) and being smaller/lighter, provides us a unit we can use on the ice in the winter time.

- I have also applied for a DNR grant, that would pay for half of this project.

Stoughton's Share - $5000
DNR Share - $5000
Total Project - $10000

#3 – Firecom Headset Installs

- Adding/replacing Firecom Headsets into apparatus that currently doesn't have it, or old corded headsets are failing (cables are losing cable exterior). **Est. $70,000 cost.**
- The headsets help reduce noise for FF's when responding (engine, siren, etc. noise, helping protect hearing.
- Allow Operator and Officer to use vehicle radio with headset, and in area around vehicle w/o being tied to apparatus with a cord.
- Intercom function allows FF that is acting as spotter to talk with operator during backing operations (intercom is hands free audio).

#3 – Firecom Headset Installs

- Purchased for all positions of apparatus.
- Will also be added to wildland apparatus for crews to talk to each other.
- Ties directly in to mobile radios, so during install of new mobile radios is best time to install units.

#4 – Traffic Pre-Emption

- Fire, EMS and Law enforcement apparatus have utilized traffic pre-emption that was initially installed about 10 years ago. **Est. $10,000**
- Cycles the traffic lights in a manner to allow emergency vehicles through a traffic light. The timing isn't instant, but expedites the process.
- In a recent inspection, a couple lights were found to have issues. This is to provide money to accomplish repairs.
- There is some replacement planning during future main street reconstruction projects in the works.

#5 – Copier Purchase

- Current copier is a hand me down, and is much less than reliable. **Est. $11,000 Cost.**
- It jams constantly, is black and white only, and can only print smaller paper sizes. There is no capability for 11 x 17 paper, which we use with some regularity.
- Printings for department items overwhelm current printers (desk printer/scanner setups).
- Looking at printers consistent with other city departments (Ricoh Copiers).

#6 – Brush truck update

- Plan is to primarily update our 2012 F350 Brush truck. We will also be adding in a function to our new brush truck skid unit to allow use of foam (matching 2012, and it is PFAS free foam). **Est $6500 cost.**
- Bed has corrosion that needs to be fixed, and change out plywood spacer that is holding water against metal.
- Truck doesn't have any battery charging shoreline capability, which doesn't allow us to put a mobile data computer.
- Need to get off road tread tiers on the truck. Current tires allow truck to get stuck easily on any ground beyond hard dry dirt.
- Need to add in side steps, make getting into truck easier for FF's.

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- 2012 Brush Truck will have the following happen:
  - Tool boxes removed from bed, skit unit removed from bed
    - Rusty metal will be cleaned down to bare metal.
    - Top of bed will be sprayed with bed liner, and other metal with heavy duty corrosion resistant paint, as appropriate for application.

  - Battery Charger will be installed, and shoreline wired in.
  - Center console will be remounted, and MDC Computer mount installed.
  - Tires swapped out with mudding/off road specific tires
  - Nerf Bars purchased/installed on truck

- 2020 F350 brush truck
  - Foam system added into system, matching other equipment.

#7 – Computers/MDC update

- Current computers/MDC's (Mobile Data Computers) include a batch purchased in 2019. These are starting to slow down/cause issues. At time of planned replacement, they will be 4 years old. City plan for computers is 4-5 years to swap out desk top computers. **Estimated $10,000 cost.**
- We are planning on swapping out 3 computers in 2023. The plan is to swap out 3-4 computers per year, so there is a complete swap out in 4 years.
- CAD software keeps updating, requiring more and more resources from the computer(more memory, faster processors, etc).
- CAD files are also getting larger.
- Hammering down the road is hard on a computer too. The trucks aren't generally smooth. This is trying to make sure computers keep operating, so FD staff can rely on the computers.

#8 – Mobile Radios

- Current mobile radios are at end of life. There are no software updates available, and repairs are not available for some of them, and the rest aren't far behind. **Estimated $170,000.**
- New mobile radios will also work with current Dane County radio system, as well as current and future State of WI system.
- There will be 2 radios per truck. One will be for Dispatch and one for scene operations. This has proven to be a challenge in the current single radio setup. This allows flexibility on scene, and allows us to better/more efficiently keep up with communications for larger incidents.
- They will also allow on scene recording of operations, allowing the ability to replay audio, and review audio for quality control purposes.

#8 – Mobile Radios

- We will also be getting mobile radio heads added to the pump panel area of the fire engines, allowing operator access (not set up today).
- Allows operator to adjust volume, channel, other features at pump panel.
- In combination with Headset, gives operator greater control over radio communications.

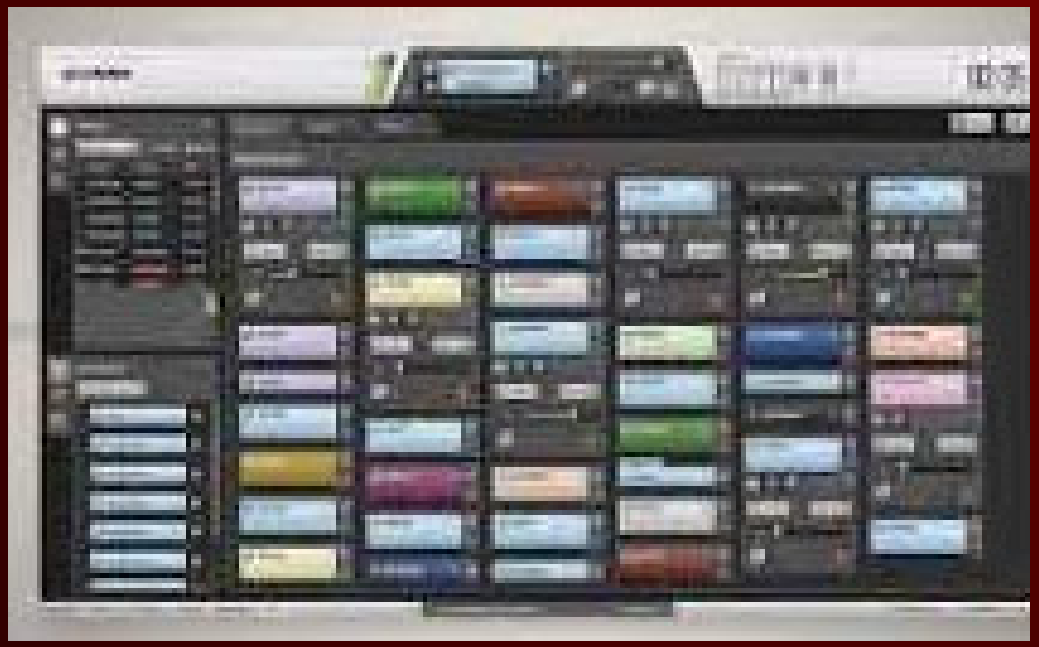
#9 – Dispatch Radio/Computer Update

- The plan is to update our console at the Fire Station Dispatch to match up with the STPD's console (as it is today). **Estimated $120,000 dollars.**

- The console primarily pulls audio from radios maintained in dispatch, which won't be available when the PD's console is updated.

- Allows a better connection for Dane County 911 to hear our fire repeater channel, vs the connection today in Fitchburg.

- Can allow us much better flexibility on the Danecom System.



#10 – Engine 1 Tire Replacement

- Tires on apparatus have a max life of 10 years, per NFPA standards. Tire industry is following, and we've been following it as well.
- Engine 1 is our primary engine for response.
- Not replacing tires puts the city at risk with an accident which can cause extensive property damage (truck) in the best case, and personnel injury/death in the worst case scenario.

#11 – De ionized Water System

- It's a well known issue that Stoughton's tap water is pretty heavy in minerals. This builds up on trucks over time, when used to clean them.
- To ensure we don't have water spots, the trucks need to be dried by hand. This is extensive work wise.
- This would allow us to wash and rinse a truck, and not need to dry every square inch of truck. Allowing us to wash trucks more often, because we won't have to spend as much time drying.
- This helps us maintain trucks, getting salt rinsed off more often in the winter time.

#12 – Training Room AV update

- Currently, the audio/visual equipment in the Fire Department Training room is about 2008 or older technology. The projector is living on borrowed time.

- City of Stoughton IT has put a package together to update to include:
  - (3) Monitors around the room (2 front and 1 side)
  - This replaces the current older monitors (too small) and projector/screen setup.
  - Improved speakers and audio equipment
  - Up to date connections for computers/other devices.
  - Addition of Cable for monitoring of weather, news, FF entertainment, etc.

#13 – Door Intercom System

- There is an intercom system that allows public to make contact with staff in the station from the following doors:
  - Front Door (flagpole)
  - Front Bay service door
  - Back door (west side) access
  - South Bay Door (near access to bunker gear)
- Currently, this system has some intermittent issues with static from doors, horrible audio, etc.
- System also only “rings” into the following areas:
  - Chief Office
  - Deputy Chief Office
  - Fire Tech office
  - Break area

#13 – Door Intercom System

- Access/audio notification would be added to the following areas:
  - Overhead Paging/audio notification
  - Training room
  - Radio room
  - Fire Bays
- As we look at trying to keep in contact with the public, we need to make sure they are able to contact staff that may be at the station. At this point, there is a 50/50 chance that a member in the station would have no awareness of someone at one of the doors.

#14 – Office Chairs

Office Chairs

- Initial chairs were purchased in 2008, and were a low quality chair. Other chairs were hand me downs from other places.

- Some of the chairs promote poor posture, and back issues. We need to ensure our members have good quality chairs that don’t cause issues.

2024-2028 – Defined Expenses

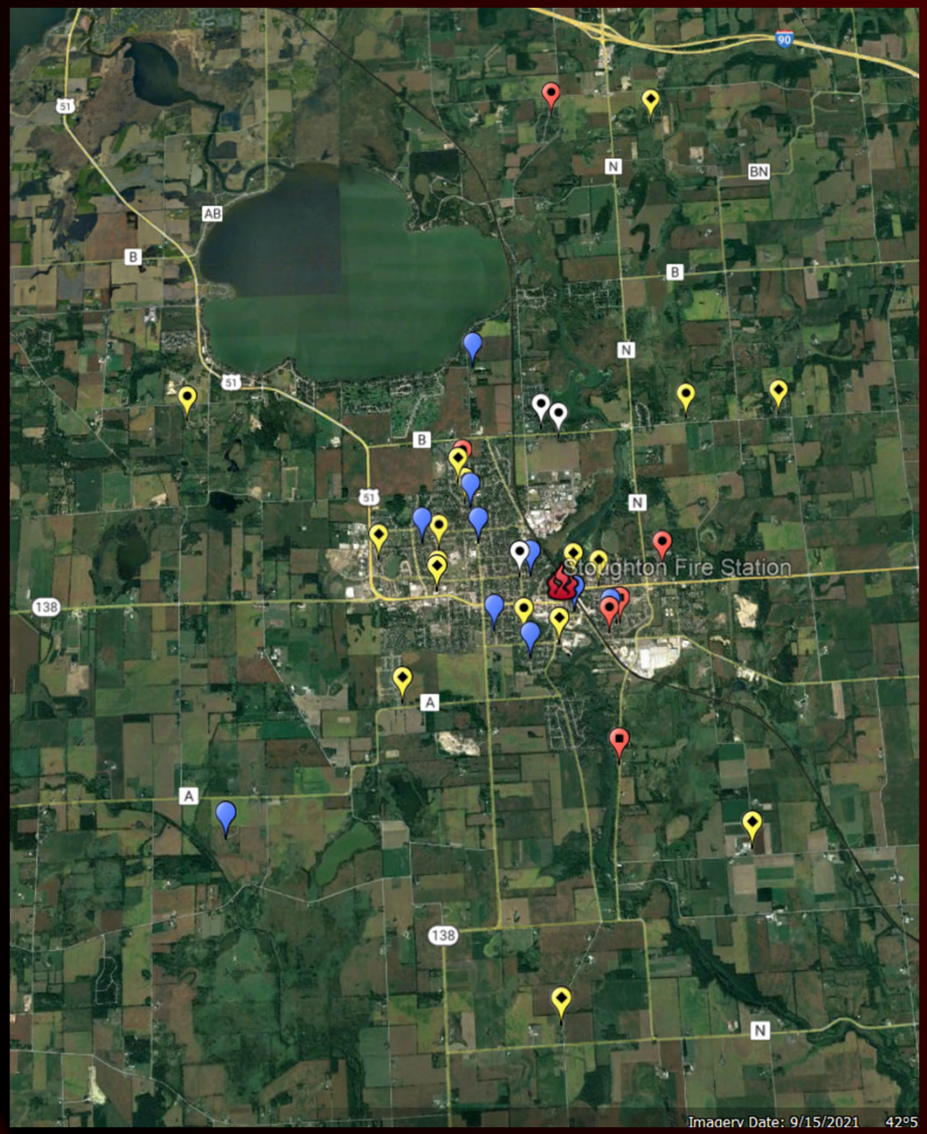
- Large items on the Docket that are pretty well defined, age wise:
  - **2024 – Replacement Fire Engine (Engine 2).** This is a replacement for our Fire Engine #2. It will be 22 years old at that point. However, we will likely be looking at an actual delivery of 2 to 3 years after ordering. Est cost will be $875,000 dollars (similar truck in SP was just bought and cost just over $825,000.
  - **2026 – Air Pack replacement.** Our air packs will turn 15 years old in 2027. At minimum we need to change out air tanks, but maintenance is slowly becoming an issue as the warranty on current air packs have expired (10 years). On note, we are applying for a grant to replace these, which are largely successful.
  - **2027 – Ladder Truck Replacement:** Our ladder truck will be turning 20 years old next year, and we've put some money into it to push off the replacement a bit. A new development though is new emission restrictions on diesel engines could cause issues with getting a unit with sufficient power in the engine. It may be worthwhile ordering early, to get ahead of the emissions issues (which can take multiple years for manufacturers to work out).

2024 - and Forward – To be Planned

- **Mezzanine Project :** We are working on planning with architects on this, and don't have a plan in time for 2023. We are anticipating having proposals ready for 2024 to do this project.

- **Training Facilities:** This is a largely undefined concept. Needs wise, we are extremely deficient of areas for us to train (think practicing with ladders, search and rescue, extrication, etc) without working in other areas. Our current station lot doesn't allow much for us, without blocking our own bays, and affecting parking for the Opera house. This would involve some kind of land acquisition, gravel/blacktop, etc.

- **Future Sleeping quarters:** We will be in need of sleeping facilities in the next 5 -10 years. This is to allow Duty Crews as well as a future interns to be have a place to sleep near the fire station. Our members live further and further out, limiting our ability to get respond in a timely manner.



5-10 years out

- We need to be looking at the reality that our members living further out, and that living “in the city” will also mean living beyond a 5 min (to the station) response.
- We currently have no option to have anyone to stay at the current station overnight. We need to be looking at options moving ahead.
- This makes any improvement in response times nearly impossible, and puts the load on a small portion of the department.
- As we plan growth, any expansion or movement of one public safety agency in the city, all should be discussed (long term).