

3 PRIMROSE STREET
NEWTOWN, CT 06470
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BOARD OF FINANCE
MINUTES
REGULAR MEETING
Council Chambers
3 Primrose Street
Newtown, CT 06470
Tuesday, November 12, 2019 at 7:30 p.m.

These minutes are subject to approval by the Board of Finance

Present: Jim Gaston, Mark Boland, Sandy Roussas, Ned Simpson, Steve Hinden

Absent: Keith Alexander

Also Present: First Selectman Dan Rosenthal, Finance Director Bob Tait, Superintendent Dr. Rodrigue, Michelle Ku, Rob Bienkowski, and Bob Gerbert

Chairman Gaston called the meeting to order at 7:31 p.m. Attendees saluted the American Flag.

Voter Comments

None

Communications

Chairman Gaston shared the communication regarding the status of Municipal Bonds Funds update from CCM (Connecticut Conference of Municipalities). See attached.

Minutes

Sandy Roussas moves to approve the minutes of October 24, 2019. Ned Simpson added the amendment from the October 24, 2019 minutes that Mark Boland and Sandy Roussas were not in attendance twice. Ned Simpson seconds. All in favor including the amendment and motion passes.

First Selectman's Report

The First Selectman shared that Governor Lamont has not held the typical Bonding Committee Meeting, so State Aid has been held up. Governor Lamont held a conference call with mayors and first selectman regarding the Governor's strategies with the new plan for User Fees (tolls). The Governor will be holding a Bonding Committee Meeting together within the next few weeks. Newtown receives about \$250,000.

BOS meeting postponed their regular meeting and held a special meeting on Wednesday due to Consigli finishing off the guaranteed maximum price document for the Police project, which is on budget. There were three final bids that came in lower than expected (due to redesign work). The GMP was finalized and was presented to BOS on Wednesday. There is a total of 8% contingency (this is the recommended contingency amount). The First Selectman added the driveway will loop around the back of the building rather than a previous plan where the driveway was going out to Ethan Allen Road (this would put the project over budget; therefore, will not come to fruition). A second possible option is bringing the driveway out to Pecks lane. This will be determined at the end of the project if contingency can be used. The project will take about a year. Chairman Gaston inquired about where \$180,000 of savings came from (Chairman Gaston read from the BOS minutes). First Selectman said this savings came from the rebidding.

The next Fairfield Hills Campus Community Conversation meeting for the public will be held on November 18th from 7pm-8:15pm at the Newtown High School Auditorium, which will focus on explaining the cost of the campus from it's history to present day. This will cover future anticipated

expenses as well (the regular BOS Meeting will immediately follow).

Finance Director's Report

Finance Director, Bob Tait, presented Bond Forecast Schedules through handouts (see attached). The objective was to demonstrate the flexibility available. It is informational and a variation of the many assumptions where the debt service amounts are reasonable. With these forecasts, the Town won't get to 8% until the 6th year; moreover, the Town always remains under 9%, which is within the objective. Years 6 through 10, as presented, will have to be adjusted (bonding amounts are too high).

Mr. Simpson inquired about some projects having a less than 20-year lifespan and whether this projection houses the actual lifespan. Mr Tait responded that these projections are for a 20-year lifespan.

Ms. Roussas asked what impact we would have if we take a break at Year 5 (with the unknown status on the state level). Ms. Roussas asked if it would behoove us to bring the break to Year 3 rather than wait until Year 5. Mr. Tait agreed that taking a break does help.

Mr. Hinden commented that these assumptions have interest rates moving up. Mr. Hinden also asked what the trade off is by moving up the break versus having less bonded at lower interest rates. Mr. Tait said he would look into this further, but the impact would probably be an increase of about 0.25%.

Mr. Boland inquired if the 2% growth rate that we have in the grand list contemplates tax abatements. Mr. Tait answered the 2% represents an actual tax increase offset by the grand list growth that includes rebates. Mr. Tait also commented that it is hard to get a real number for this and it's updated once a year by our actual budget. Lastly he stressed this is just an assumption/reasonable number.

Unfinished Business

Debt Policy

Debt Policy tabled

CIP Policy

Combined BOS/BOE 2020-21 to 2024-25 CIP

Chairman Gaston shared the Questions about CIP and Facilities (see attached) with Board Members. These are a list of questions the BOF asked the BOE regarding the Proposed CIP. Mr. Gaston invited the BOE to the meeting to explain the changes they made to the Proposed CIP (see attached).

Dr. Rodrigue wanted to share the BOE's rationale to the BOF for the decisions they made regarding the Proposed CIP. The changes included splitting the HVAC for Hawley between Years 1 and 2 and the NMS projects between Years 3 and 4. The BOE wanted more accurate cost estimates regarding mechanical, structural and technical details. The BOE chose to split the engineered plans apart from the actual project for the middle school to have a very clear idea on cost (historically this is a package deal). The cost of Hawley remains the same in terms of numbers because the design plans were taken out and abatement costs were added. The High School turf came in lower. Mr. Bienkowski stated he felt this is a reasonable plan to present to the BOF.

Sandy Roussas asked the BOE about the HOM Boiler— have they explored replacing versus repair? The cost of repair is about \$20k. Mr. Gerbert, Director of Facilities, stated there are savings to be had when projects are packaged via cash incentives from Eversource.

Dr. Rodrigue felt only slight revisions were imperative to be had this year.

Mr. Simpson stated his concern regarding the proposed property on Church Hill Road that would benefit Hawley. Mr. Simpson asked if the line item in Year 6 is a place marker based on the asking price of the property. Dr Rodrigue commented that the \$450,000 number simply came from the current asking price and is not in their CIP.

Mr. Simpson inquired about the cost of Hawley HVAC including abatement costs. Dr. Rodrigue stated that RZ Design provided preliminary estimated cost of the project and would be a turn-key result. This number now includes the \$300,000 abatement cost because the plans were pulled from the project resulting in savings in the amount of \$300,000 (resulting in same number).

Mr. Simpson spoke regarding the library proposed plan and the issue that everything is bundled together. First Selectman Rosenthal said the projects came to him bundled in his first year in office and that he agreed with Mr. Simpson that moving forward the projects need to be separated for a more clear picture. In addition, Mr. Tait attempted to unbundle the library projects.

Mr. Simpson also noted that Edmond Town Hall separated themselves into three projects, which he found helpful.

Jim Gaston made a motion to accept the CIP 2020-21 to 2024-25 as presented by Finance Director Bob Tait and send to the Legislative Council for review.

Sandy Roussas made a motion to accept the CIP 2020-21 to 2024-25 as presented by Finance Director Bob Tait and send to the Legislative Council for review. Steve Hinden seconds. All in favor and motion passes unanimously.

New Business

None

Voter Comments

Michelle Ku of 28 Platts Hill Road thanked Mr. Boland, Mr. Gaston and Mr. Hinden for their dedication and service in sitting on this esteemed Board.

Announcements

None

Adjournment

Sandy Roussas made a motion to adjourn. Steve Hinden seconds. All members were in favor and the meeting was adjourned at 8:33pm.

Respectfully submitted,
Kiley Gottschalk, Clerk

Attachments

Connecticut Conference of Municipalities

Questions about CIP and Facilities

Newtown BOE Summary – CIP

Town of Newtown – Combined BOS/BOE Proposed 2020-21 to 2024-25 CIP

Ten Year Bond Forecast 2020-21 1

Ten Year Bond Forecast 2020-21 2

Bond Forecast Five Year

Questions about CIP and Facilities

1. I received some information on the boiler at Hawley. I learned the mechanical contractor (C&N Mechanical, Glastonbury) bid the project.

They bid (1) Aerco Benchmark 1.5 condensing 1,500,000 BTU boiler. If this information is correct then this boiler will not be able to support heating the additional outside air. New boilers will need to be added.

This is incorrect. There are three (3) boilers, each with a heating capacity of 1.5 million BTUs for a total of 4.5 Million BTUs. At approximately 60,000 SqFt, this equates to 75 BTU per SqFt.

2. Middle Gate School. Obviously, we replaced those boilers about 3-4 years ago, but I've learned that the BOE actually has a CIP to replace the windows, which I think is great, but when you replace the windows, your heat duty on the building goes down and you actually could have saved on boilers by downsizing the boilers. So, now the boilers that are there will not be sufficient. So, staging how you do the work can save capital costs.

While new windows will reduce the heating load and effectively leave the boilers oversized, the boilers that are installed have modulating burners which can adjust the firing rate to match the heating needs of the building.

3. Were High School boilers in F-wing replaced recently? If so, why?

Boilers were replaced as part of the larger boiler project. This outfits the entire building with high-efficiency gas boilers that have become standard within the school district. There was also a rebate provided by the utility company for installing the new boilers.

4. Has a structural engineer been consulted to determine if the existing structure can support the weight of the new Roof Top Units(RTU) and ACU(Air Conditioning Units)? If not, a review of the structure is needed to ensure the proposed design is feasible.
 - a. If required, has additional structural cost been included in the CIP?

RZD has a structural team that will make final reviews of all structural elements required to support the new equipment. We have carried a structural allowance which is noted in the RZD budget proposal.

5. Has the proposed equipment sizes been reviewed to determine if it can fit through existing doors and maneuvered to their final install place?

We have reviewed the building structure and equipment sizing and believe that we have available means to get the equipment in the building. To minimize impact on building finishes, we are anticipating that all large equipment will be shipped to the site in sections to be assembled in their final resting place.

6. Has remediation consideration been included in the CIP (Lead, asbestos)?

RZD budget proposal does not include any remediation. This will be determined by sampling various existing materials and lab testing to determine the extent of required remediation.

No, because the design is only conceptual to present a basis of cost comparison, it does not include abatement costs. The full scope of abatement will be determined once the design is finalized.

7. VAV boxes:

- a. The hot water coil sizes appear to be undersized. It appears that the minimum airflows are used vs. maximum. If 55F air is supplied to the VAV, then when the required OA CFM is supplied, the supply air will be cool and cause the occupants to be uncomfortable. With the VAVs being undersized, the piping and pumps are most likely undersized. This needs to be addressed and reflected in the CIP \$.

Ventilation via VAV boxes is provided with adequate hot water coil and pump sizing. The VAV design only requires max cfm during cooling mode as the supply air flow must offset ventilation loads and cooling loads. The VAV operation during heating mode requires only ventilation load as the existing building heating system is adequate to offset building outdoor winter conditions. We will further fine tune the design as the project moves forward.

8. To make up the difference with #5, the RTU's and ACU's, can supply 92F to the VAVs. However, I would advise against this as it will cause overheating of certain areas and you have complaints of being too hot. Then the windows will be opened, and we would waste energy.

Note that the hot water coil controls are suitable to find the optimum discharge air temperature for the variable loads that the building will experience. With thermostatic controls within each VAV, there should be no issue with overheating the space during winter operation.

9. Airflow in the building should include measures to prevent smoke movement, and allow for safe occupant egress. It is not apparent that this design includes the necessary required smoke or fire dampers. Are these included in the CIP?

Fire/Smoke egress control is not included in the cooling/ventilation design. We do however include any and all fire dampers required to maintain existing wall and floor protection fire ratings.

10. Sustainable building design care is needed to eliminate excessive ventilation to avoid excess energy use and provide proper humidity control. Proper cooling, heating, ventilation, humidification, and dehumidification are critical to both energy efficiency and cost-effectiveness.

A duct mounted CO2 sensor in the return air ductwork is included to measure the PPM and compare to set point and modulate OA delivered to the space.

- a. Typically, storage rooms are only tempered with heat. Capital and operational costs can be saved by removing the air conditioning from these rooms. Ventilation is required at only $0.12\text{CFM}/\text{FT}^2$. So a small duct can be fed to these areas vs installation of a dedicated VAV

A dedicated VAV for small storage rooms is not the intent of our schematic design. Any storage room that requires ventilation/cooling will be served by an adjacent VAV Zone.

- b. Science Classroom: Typically, a local exhaust fan is provided with a 0-60 minute timer. This allows the teacher to use the fan when a demonstration creates smells or animals are kept in the room.

Science Classroom special ventilation is not included in our schematic design although we will review during final design with input from the Science Staff.

- c. The food services area should include a separate exhaust hood so that odors are not circulated around the building. This should be included in the CIP.

The Cafeteria/Kitchen ventilation system will be designed for CO₂ control within these spaces. The make-up air and associated kitchen hoods are not included in the Ventilation/Cooling proposal. This is a service that can be added at the direction of the Hawley School Committee.

- d. It is not typical to air-condition bathrooms. The bathrooms should have exhaust fans that keep the room under negative pressure to avoid odors migrating out of the bathroom. Air is typically supplied to the room by an undercut door or transfer duct. Capital cost and operational cost can be saved by removing the VAV and ensuring proper air transfer.

The bathrooms referred to are gang toilet rooms. These rooms are larger and will be maintained under negative pressure within our design. It is agreed that a single toilet room would not receive direct supply air and would rely on the exhaust system drawing air from adjacent areas via under cut doors or transfer grilles.

- e. Corridors are not frequently air-conditioned. One strategy used is to return air from the corridor. Air will be pulled from adjacent rooms, providing the ventilation required. Corridors only required $0.06\text{CFM}/\text{FT}^2$.

Corridors will be designed to maintain code compliant air flow. It is important to maintain slightly positive pressure if the corridor is intended for egress during an alarm event. This will be confirmed during our final design.

11. Higher humidity levels promote the growth of mold, dust mites, fungus, which can produce toxic by-products and allergens. Careful consideration in equipment size must be taken. More than likely, the peak sensible cooling load will occur when the building is unoccupied, after 4 pm. Peak latent cooling loads, moisture from exhaling and sweat, may not occur at the same time as the peaking latent load. The lack of moisture removal can result in unacceptable air quality. **

a. The additional moisture is a problem for people with asthma, which I can speak to first hand. Also, the additional moisture can impact the paint, drywalls, grow mold, etc.

b. One can argue that VAV's have a hot water coil that can reheat the air for dehumidification. While it is possible, it will use a lot of excess energy. I suggest a peer review of the evaporator coil selections to ensure proper sizing. I don't think we want to find out later the evaporator coil needs to be larger than the unit won't fit in the designated space.

Air conditioning systems are intended to remove heat and associated latent loads during normal occupied operation. We do not propose a reheat control for dehumidification, as this system type is an energy hog. With careful design calculations, all systems will have the ability to cool and dehumidify at any time the building is in the summer occupied control settings. This will be programmed into the building automation system which is a part of RZD design. Not sure what peer review is being referred to, but RZD will welcome feedback from the town during final project design.

12. Has Demand Control Ventilation been included in the design? I believe this is required by ASHRAE 90.1.

Demand ventilation is included in our design.

13. What methods are being implemented to ensure all the install equipment does not transmit mechanical vibrations or flow noise into the adjunct spaces? Is this included in the CIP?

Vibration isolation is included in our design.

14. Has the electrical service to the building been reviewed to ensure the building can handle the additional electrical loads? Has this been included in the CIP? Keep in mind, since the VAV's are undersized, the pump electrical load will be higher.

The electrical utility serving the Hawley School is adequate to include the electrical requirements of the new systems. The VAV systems have not been determined to be undersized. We as the engineer of record will review all system designs during generation of final bid documents.

15. In addition to Hawley, we all agreed the 42-year-old boilers at Head of Meadow needs to be on the CIP. If I recall during my walk-thru of the school, it was apparent the boiler sections are leaking. Year one on the CIP should include these boilers' replacement. (Is this correct, and who is "we"?)

The leaking boiler is currently being repaired.

The following questions are related to this chart and background provided by the BOF member:

BOE-1 2020/21 Hawley Elementary

CIP Year	Amount	Title	Description	Justification
2020-2021 to 2024-2025 BOE-01	\$3,962,000	Ventilation, HVAC, partial A/C, <u>focus on 1921 section</u>	blank	blank
2019-2020 to 2023-2024 BOE-03	\$5,002,267	Ventilation and HVAC Renovations	Installation of a complete ventilation system, which will service the entire facility. The A/C portion will <u>focus on the 1921 portion</u> of the facility and will prepare the facility for future A/C throughout. Project includes, but is not limited too ductwork, controls, HVAC system, electrical upgrades and <u>an emergency generator</u>	Upgrade air quality in the facility, currently unable to open windows facing Church Hill Road due to traffic, noise and fumes

It is not clear to me what the \$3,962,000 will purchase. Parallel to this I is not clear to me what problem(s) it intends to solve. I have reviewed the RZ Design drawings, last year's CIP material, BOE CIP/Facilities/Finance Committee minutes, BOE minutes and talked to past BOE members. If anything, I am more confused. It could be that the request is too low, the request may be too high, or the request may be just right. Thus the following questions:

16. Last year's BOE-03 includes "an emergency generator" which is not referenced in this year's BOE-01. This year's BOE proposed CIP does have BOE-07 "Generator" for Hawley in 2024/25 at \$1,000,000. Should this be read as taking the emergency generator out of last year's BOE-03 bundle and moving it to 2024/25 BOE-07 this year or is this something else?
17. What does "focus on the 1921 portion" mean?
18. After this project with the focus on the 1921 portion, will there be a desire to upgrade the remaining portions of the building? When? How much will that cost?

The conceptual design and cost estimate by RZ includes equipment to provide air conditioning to the entire school.

19. 2027/28 for Hawley Elementary shows \$954,000 to renovate 1921 section (ceilings, lighting, floors, etc.). Are there economies to having this work done at the same time?

There are cost savings by bundling more work into larger projects. However, larger projects can also be more disruptive to the school and have longer schedules.

20. RZ Design estimates include patching and painting, but does not reference environmental hazard (lead and asbestos) abatement or remediation. What is a ballpark estimate of these costs and time?

These costs cannot be determined until the design is finalized. As the design process develops, routing for ductwork and piping will be defined to pinpoint where and how much abatement is needed.

21. What aspects of Heating, Ventilation and Air Conditioning (HVAC) is being addressed by this project? (Is HVAC used loosely as jargon, or literally describing what is proposed?)

The improvements will include all aspects of HVAC. Rooftop units will be used to provide heating (via hot water heating coil), ventilation (via outside air dampers), and air conditioning (via direct-expansion refrigeration). The rooftop units will have filters to remove contaminants from both return air and outdoor air. There will be variable air volume (VAV) boxes in classrooms to control the amount of air needed for heating, cooling, and ventilation.

22. Does the estimated cost include the cost of any abatement procedures? If so, what is that amount?
Refer to response for Q.20.

23. I recall there was work done last year on the roof and part of that work included reinforcing the roof to support HVAC units. Is that correct?

24. Can we get a copy of the cost estimates by line item? (equipment, duct work, abatement, roof)

We currently have a line item cost estimate for conceptual designs. A more detailed estimate can be prepared once the design process is completed.

25. What is the bidding process? Will we obtain 3 bids?

A job of this size will be publicly bid to obtain competitive prices from vendors.

Additional question that came up at a public meeting

26. At a January 2019 walkthrough at SHS, the following were noted:

Controls for SHS kitchen hood fan always on – not properly installed.

Kitchen fan is now controlled by BMS system and will operate 6am to 2pm per kitchen operations.

Boiler controls had the wrong temperature set-point (114 degrees).

Parking lot lights were on 24/7

Lighting controller for the parking lots had a faulty control board. This has been replaced.

Schedules have been set up to control lights.

Changes should result in savings of \$120,000 per year. Is this correct?

**NEWTOWN BOARD OF EDUCATION
SUMMARY - CAPITAL IMPROVEMENT PLAN
2020/21 TO 2024/25**

**Recommendation for the BOE per
CIP/Finance/Facilities sub-committee 11/5/19**

INITIAL FIVE YEARS

CIP Item #	Location	Description of Project	Year 1	Year 2	Year 3	Year 4	Year 5	TOTALS
			2020/21	2021/22	2022/23	2023/24	2024/25	
1	Hawley Elem.	Engineering for ventilation and A/C renovations	\$300,000					
2	Hawley Elem.	Ventilation, HVAC Renovations		\$3,962,000				
9	Hawley Elem.	Generator					\$1,000,000	\$5,262,000
8	Middle Gate Elem	Window modifications					\$1,000,000	\$1,000,000
7	Head O'Meadow	Boilers, water heater, VFD & pump replacements with LED lighting				\$997,672		\$997,672
5	Reed Intermediate	Install high efficiency gas boilers & LED lighting conversion			\$1,452,730			\$1,452,730
4	Middle School	Engineering for ventilation and A/C renovations			\$300,000			
6	Middle School	Ventilation, HVAC, Auditorium, Media center, replace rooftop units '98		\$0		\$3,568,140		\$3,868,140
3	High School	Replace/restore stadium turf field & track (11th year)		\$750,000				\$750,000
TOTAL COSTS OF ALL PROJECTS			\$300,000	\$4,712,000	\$1,752,730	\$4,565,812	\$2,000,000	\$13,330,542
TOTAL TO BE BONDED			\$300,000	\$4,712,000	\$1,752,730	\$4,565,812	\$2,000,000	\$13,330,542

Previous BOE approved CIP amounts (June 18, 2019)	\$3,962,000	\$4,666,648	\$1,452,730	\$997,672	\$2,000,000	\$13,079,050
Difference to previously approved plan	-\$3,662,000	\$45,352	\$300,000	\$3,568,140	\$0	\$251,492

Eligibility for project inclusion on the CIP is that the cost must exceed \$200,000.

2017-18 Reimbursement rate 36.43%

Estimates on file are increased by 6% from prior year.

Construction inflation estimate 6.0%

**NEWTOWN BOARD OF EDUCATION
SUMMARY - CAPITAL IMPROVEMENT PLAN
2025/26 TO 2029/30**

**Recommendation for the BOE per
CIP/Finance/Facilities sub-committee 11/5/19**

SECOND FIVE YEARS

CIP Item #	Location	Description of Project	Year 6	Year 7	Year 8	Year 9	Year 10	TOTALS
			2025/26	2026/27	2027/28	2028/29	2029/30	
	Hawley Elem.	Classroom renovations '21 section (ceilings, lighting, floors, etc.) Purchase unsightly House/land adjacent to school (1.06 acres) Repave entire parking lot, curbing, sidewalks Elevator to café	\$450,000	\$300,000	\$954,000	\$1,300,000		\$3,004,000
	Sandy Hook							\$0
	Middle Gate Elem	Repave entire parking lot, curbing, sidewalks Complete kitchen renovation			\$1,300,000	\$375,000		\$1,675,000
	Head O'Meadow	Gas and water lines to school Replace/update A/C Re roofing/restoration		\$3,180,000	\$2,544,000	\$5,830,000		\$11,554,000
	Reed Intermediate	Repave entire parking lot, curbing, sidewalks Re roof entire building (solar remove & reinstall \$225K)		\$3,500,000	\$2,000,000			\$5,500,000
	Middle School	Repave entire parking lot, curbing, sidewalks Window replacements Library and science lab renovations Complete kitchen renovation		\$750,000	\$3,500,000	\$1,590,000		\$5,840,000
	High School	Re roofing/restoration HVAC equipment replacements Fuel Cell Athletic/Stadium field house and storage Rear Practice fields facilities and storage Create turf practice field rear of school	\$954,000 \$1,100,000	\$2,756,000 \$848,000	\$1,590,000		\$5,000,000	\$12,248,000
TOTAL COSTS OF ALL PROJECTS			\$2,504,000	\$11,334,000	\$11,888,000	\$9,095,000	\$5,000,000	\$39,821,000
TOTAL TO BE BONDED			\$2,504,000	\$11,334,000	\$11,888,000	\$9,095,000	\$5,000,000	\$39,821,000

Town of Newtown

Combined Board of Selectmen/Board of Education Proposed 2020-21 to 2024-25 CIP

(w/ 5 additional years to 2029-30 for planning purposes)



11/12/2019

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TOWN OF NEWTOWN						
COMBINED BOARD OF SELECTMEN / BOARD OF EDUCATION PROPOSED CIP - (2020 - 2021 TO 2024 - 2025)						
RANK	2020 - 2021 (YEAR ONE)		Proposed Funding			
		Amount Requested	Bonding	Grants	General Fund	Other
	Capital Road Program	PW 3,000,000	750,000		2,250,000	
	Bridge Replacement Program	PW 400,000	400,000			
	New Police Facility	POLICE 4,000,000	4,000,000			
	Emergency Radio System Upgrades	ECC 2,500,000	2,500,000			
	Fairfield Hills Sewer Infrastructure Improvement	SEWER 1,829,963		914,981		914,982
	Town Match - Grants (contingency)	ECON DEV 200,000				200,000
	Edmond Town Hall Exterior Renovations	ETH 268,000	268,000			
	BOARD OF EDUCATION					
	Hawley - Ventilation and HVAC Renovations - DESIGN	BOE 300,000	300,000			
	TOTALS	>>>>>>> 12,497,963	8,218,000	914,981	2,250,000	1,114,982
RANK	2021 - 2022 (YEAR TWO)		Proposed Funding			
		Amount Requested	Bonding	Grants	General Fund	Other
	Capital Road Program	PW 3,000,000	500,000		2,500,000	
	Bridge Replacement Program	PW -	-			
	Emergency Radio System Upgrades	ECC 5,041,933	5,041,933			
	Sandy Hook Permanent Memorial	SH MEM 2,000,000	2,000,000			
	Town Match - Grants (contingency)	ECON DEV 200,000				200,000
	Clean Up of 7 & 28A Glen Road	ECON DEV 200,000	200,000			
	Library Renovations / replacements / upgrades	LIB 750,000	750,000			
	BOARD OF EDUCATION					
	High School - Replace/Restore Stadium Turf Field	BOE 750,000	750,000			
	Hawley - Ventilation and HVAC Renovations	BOE 3,962,000	3,962,000			
	TOTALS	>>>>>>> 15,903,933	13,203,933	-	2,500,000	200,000
RANK	2022 - 2023 (YEAR THREE)		Proposed Funding			
		Amount Requested	Bonding	Grants	General Fund	Other
	Capital Road Program	PW 3,000,000	250,000		2,750,000	
	Bridge Replacement Program	PW 400,000	400,000			
	Replacement of Fire Apparatus	FIRE 535,000	535,000			
	Sandy Hook Permanent Memorial	SH MEM 2,000,000	2,000,000			
	Town Match - Grants (contingency)	ECON DEV 200,000				200,000
	Building Remediation & Demo / Infrastructure	FHA 2,000,000	2,000,000			
	Edmond Town Hall Upgrades & Renovations - Theatre	ETH 250,000	250,000			
	Edmond Town Hall Parking Lot Improvements	ETH 450,000	450,000			
	Library Renovations / replacements / upgrades	LIB 650,000	650,000			
	BOARD OF EDUCATION					
	Middle School - Improvements - DESIGN		300,000			
	Reed - Install High Efficiency Gas Boilers & LED Lighting	BOE 1,452,730	1,452,730			
	TOTALS	>>>>>>> 11,237,730	8,287,730	-	2,750,000	200,000
RANK	2023 - 2024 (YEAR FOUR)		Proposed Funding			
		Amount Requested	Bonding	Grants	General Fund	Other
	Capital Road Program	PW 3,000,000	-		3,000,000	
	Bridge Replacement Program	PW 400,000	400,000			
	Multi-Purpose Building Improvements	PW 413,000	413,000			
	Municipal Center - Roof Remediation & Replacement	PW 1,000,000	1,000,000			
	Replacement of Fire Apparatus	FIRE 800,000	800,000			
	Town Match - Grants (contingency)	ECON DEV 200,000				200,000
	Building Remediation & Demo / Infrastructure	FHA 1,500,000	1,500,000			
	Lake Lillinonah Park Improvements	P & R 500,000				500,000
	BOARD OF EDUCATION					
	Middle School - Improvements		3,568,140			
	Head O'Meadow - Boiler Plant & Lighting	BOE 997,672	997,672			
	TOTALS	>>>>>>> 12,378,812	8,678,812	-	3,000,000	700,000
RANK	2024 - 2025 (YEAR FIVE)		Proposed Funding			
		Amount Requested	Bonding	Grants	General Fund	Other
	Capital Road Program	PW 3,100,000	-		3,100,000	
	Town Match - Grants (contingency)	ECON DEV 200,000				200,000
	BOARD OF EDUCATION					
	Middle Gate Elementary - Window Modifications	BOE 1,000,000	1,000,000			
	Hawley Elementary - New Generator	BOE 1,000,000	1,000,000			
	TOTALS	>>>>>>> 5,300,000	2,000,000	-	3,100,000	200,000
GRAND TOTALS		57,318,438	40,388,475	914,981	13,600,000	2,414,982

Town of Newtown, Connecticut

Capital Improvement Plan

'20/'21 thru '29/'30

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Department	Project #	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	'25/'26	'26/'27	'27/'28	'28/'29	'29/'30	Total
Board of Education												
Hawley - Ventilation and HVAC Renovations	BOE-03	300,000	3,962,000									4,262,000
<i>Bonding</i>		<i>300,000</i>	<i>3,962,000</i>									<i>4,262,000</i>
High School - Replace / Restore Stadium Turf	BOE-04		750,000									750,000
<i>Bonding</i>			<i>750,000</i>									<i>750,000</i>
Middle School Improvements	BOE-05			300,000	3,568,140							3,868,140
<i>Bonding</i>				<i>300,000</i>	<i>3,568,140</i>							<i>3,868,140</i>
Reed - Install Gas Boiler / LED Lighting	BOE-06			1,452,730								1,452,730
<i>Bonding</i>				<i>1,452,730</i>								<i>1,452,730</i>
Head O'Meadow - Boiler Plant & Lighting	BOE-07				997,672							997,672
<i>Bonding</i>					<i>997,672</i>							<i>997,672</i>
Hawley - New Generator	BOE-08					1,000,000						1,000,000
<i>Bonding</i>						<i>1,000,000</i>						<i>1,000,000</i>
Middle Gate - Window Modifications	BOE-09					1,000,000						1,000,000
<i>Bonding</i>						<i>1,000,000</i>						<i>1,000,000</i>
Purchase Real Estate Adjacent to Hawley School	BOE-11						450,000					450,000
<i>Bonding</i>							<i>450,000</i>					<i>450,000</i>
High School - Fuel Cell	BOE-12							848,000				848,000
<i>Bonding</i>								<i>848,000</i>				<i>848,000</i>
High School - Practice Field Facilities & Storage	BOE-13						954,000					954,000
<i>Bonding</i>							<i>954,000</i>					<i>954,000</i>
Hawley - Elevator to Café	BOE-14							300,000				300,000
<i>Bonding</i>								<i>300,000</i>				<i>300,000</i>
Head O'Meadow - New Gas & Water Lines	BOE-15							3,180,000				3,180,000
<i>Bonding</i>								<i>3,180,000</i>				<i>3,180,000</i>
Reed - New Roof, Solar panels remove and reinstall	BOE-16							3,500,000				3,500,000
<i>Bonding</i>								<i>3,500,000</i>				<i>3,500,000</i>

Department	Project #	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	'25/'26	'26/'27	'27/'28	'28/'29	'29/'30	Total
Middle School - Complete Kitchen Renovation	BOE-17							750,000				750,000
<i>Bonding</i>								750,000				750,000
High School - New Roof / Restoration	BOE-18							2,756,000				2,756,000
<i>Bonding</i>								2,756,000				2,756,000
Hawley - Classroom Renovations '21 section	BOE-19								954,000			954,000
<i>Bonding</i>									954,000			954,000
Middle Gate - Pave Parking Lot, Curbing, Sidewalks	BOE-20								1,300,000			1,300,000
<i>Bonding</i>									1,300,000			1,300,000
Head O'Meadow - New Roofing / Restoration	BOE-21								2,544,000			2,544,000
<i>Bonding</i>									2,544,000			2,544,000
Reed - Repave Parking Lot, Curbing, Sidewalks	BOE-22								2,000,000			2,000,000
<i>Bonding</i>									2,000,000			2,000,000
Middle School - Library & Science Lab Renovations	BOE-23								3,500,000			3,500,000
<i>Bonding</i>									3,500,000			3,500,000
High School - Athletic Field House and Storage	BOE-24								1,590,000			1,590,000
<i>Bonding</i>									1,590,000			1,590,000
Hawley - Repave Parking Lot, Curbing, Sidewalks	BOE-25									1,300,000		1,300,000
<i>Bonding</i>										1,300,000		1,300,000
Middle Gate - Complete Kitchen Renovation	BOE-26									375,000		375,000
<i>Bonding</i>										375,000		375,000
Head O'Meadow - Replace / Update A/C	BOE-27									5,830,000		5,830,000
<i>Bonding</i>										5,830,000		5,830,000
Middle School - Parking Lot, Curbing, Sidewalks	BOE-28									1,590,000		1,590,000
<i>Bonding</i>										1,590,000		1,590,000
High School - HVAC Equipment Replacements	BOE-29										5,000,000	5,000,000
<i>Bonding</i>											5,000,000	5,000,000
High School - New Turf Practice Field	BOE-30						1,100,000					1,100,000
<i>Bonding</i>							1,100,000					1,100,000
Board of Education Total		300,000	4,712,000	1,752,730	4,565,812	2,000,000	2,504,000	11,334,000	11,888,000	9,095,000	5,000,000	53,151,542
Economic Development												
Clean up of 7 & 28A Glen Road	EDC - 1		200,000									200,000
<i>Bonding</i>			200,000									200,000

Department	Project #	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	'25/'26	'26/'27	'27/'28	'28/'29	'29/'30	Total
Town Match - Grants (contingency)	EDC - 2	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000		1,800,000
Other		200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000		1,800,000
Economic Development Total		200,000	400,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000		2,000,000
Edmond Town Hall												
Edmond Town Hall Exterior Renovations	ETH - 1	268,000										268,000
Bonding		268,000										268,000
Edmond Town Hall Upgrades & Renovations - Theatre	ETH - 2			250,000								250,000
Bonding				250,000								250,000
Edmond Town Hall - Parking Lot Improvements	ETH - 3			450,000								450,000
Bonding				450,000								450,000
Edmond Town Hall Building Renovations	ETH - 4						550,000					550,000
Bonding							550,000					550,000
ETH Space Revitalization/Elevator Removal	ETH - 5								550,000			550,000
Bonding									550,000			550,000
ETH plumbing/radiator renewal/LC access	ETH - 6									500,000		500,000
Bonding										500,000		500,000
Edmond Town Hall Total		268,000		700,000			550,000		550,000	500,000		2,568,000
Emergency Comm Ctr												
Emergency Radio System Upgrades	ECC - 1	2,500,000	5,041,933									7,541,933
Bonding		2,500,000	5,041,933									7,541,933
Emergency Comm Ctr Total		2,500,000	5,041,933									7,541,933
FHA												
Building remediation & demo/infrastructure	FHA-1			2,000,000	1,500,000		2,000,000	2,000,000	3,000,000			10,500,000
Bonding				2,000,000	1,500,000		2,000,000	2,000,000	3,000,000			10,500,000
FHA Total				2,000,000	1,500,000		2,000,000	2,000,000	3,000,000			10,500,000
Fire												
Replacement of Fire Apparatus	Fire - 1			535,000	800,000		750,000	770,000	790,000			3,645,000
Bonding				535,000	800,000		750,000	770,000	790,000			3,645,000
New Generators and Transfer Switches	Fire - 2									240,000		240,000
Bonding										240,000		240,000

Department	Project #	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	'25/'26	'26/'27	'27/'28	'28/'29	'29/'30	Total
Fire Total				535,000	800,000		750,000	770,000	790,000	240,000		3,885,000
Library												
Library Building & Grounds Upgrades/Reno/Expansion	LIB-1		750,000	650,000			1,000,000		450,000			2,850,000
Bonding			750,000	650,000			1,000,000		450,000			2,850,000
Library Total			750,000	650,000			1,000,000		450,000			2,850,000
Parks & Recreation												
Treadwell Artificial Turf & Lighting Replacement	P & R - 3						800,000					800,000
Bonding							250,000					250,000
Other							550,000					550,000
Rail Trail - Batchelder Park	P & R - 4						1,400,000					1,400,000
Grants							1,400,000					1,400,000
Lake Lillinsonah Park Improvements	P & R - 5				500,000							500,000
Other					500,000							500,000
Parks & Recreation Total					500,000		2,200,000					2,700,000
Police												
Police Facility	Pol -1	4,000,000										4,000,000
Bonding		4,000,000										4,000,000
Police Total		4,000,000										4,000,000
Public Works												
Capital Road Program	PW - 1	3,000,000	3,000,000	3,000,000	3,000,000	3,100,000	3,150,000	3,200,000	3,250,000	3,300,000	3,350,000	31,350,000
Bonding		750,000	500,000	250,000								1,500,000
General Fund		2,250,000	2,500,000	2,750,000	3,000,000	3,100,000	3,150,000	3,200,000	3,250,000	3,300,000	3,350,000	29,850,000
Bridge Replacement Program	PW - 2	400,000		400,000	400,000		400,000	400,000	400,000	400,000	400,000	3,200,000
Bonding		400,000		400,000	400,000		400,000	400,000	400,000	400,000	400,000	3,200,000
Multi-Purpose Building Improvements	PW - 3				413,000							413,000
Bonding					413,000							413,000
Municipal Center - Roof Remediation & Replacement	PW - 4				1,000,000							1,000,000
Bonding					1,000,000							1,000,000
Truck Washing Station	PW - 5							550,000				550,000
Bonding								550,000				550,000
Public Works Site & Salt Storage Improvements	PW - 6							600,000				600,000
Bonding								600,000				600,000
Transfer Station Improvements	PW - 7							400,000				400,000

Department	Project #	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	'25/'26	'26/'27	'27/'28	'28/'29	'29/'30	Total
<i>Bonding</i>								400,000				400,000
	Public Works Total	3,400,000	3,000,000	3,400,000	4,813,000	3,100,000	3,550,000	5,150,000	3,650,000	3,700,000	3,750,000	37,513,000
S.H. Permanent Memorial Comm												
Sandy Hook Permanent Memorial	FS - 1		2,000,000	2,000,000								4,000,000
<i>Bonding</i>			2,000,000	2,000,000								4,000,000
	S.H. Permanent Memorial Comm Total		2,000,000	2,000,000								4,000,000
Water & Sewer Authority												
Fairfield Hills Sewer Infrastructure Improvement	226	1,829,963										1,829,963
<i>Grants</i>		914,981										914,981
<i>Other</i>		914,982										914,982
	Water & Sewer Authority Total	1,829,963										1,829,963
	GRAND TOTAL	12,497,963	15,903,933	11,237,730	12,378,812	5,300,000	12,754,000	19,454,000	20,528,000	13,735,000	8,750,000	132,539,438

Town of Newtown, Connecticut

Capital Improvement Plan

'20/'21 thru '24/'25

EXPENDITURES AND SOURCES SUMMARY

Department	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Total
Board of Education	300,000	4,712,000	1,752,730	4,565,812	2,000,000	13,330,542
Economic Development	200,000	400,000	200,000	200,000	200,000	1,200,000
Edmond Town Hall	268,000		700,000			968,000
Emergency Comm Ctr	2,500,000	5,041,933				7,541,933
FHA			2,000,000	1,500,000		3,500,000
Fire			535,000	800,000		1,335,000
Library		750,000	650,000			1,400,000
Parks & Recreation				500,000		500,000
Police	4,000,000					4,000,000
Public Works	3,400,000	3,000,000	3,400,000	4,813,000	3,100,000	17,713,000
S.H. Permanent Memorial Comm		2,000,000	2,000,000			4,000,000
Water & Sewer Authority	1,829,963					1,829,963
EXPENDITURE TOTAL	12,497,963	15,903,933	11,237,730	12,378,812	5,300,000	57,318,438

Source	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Total
Bonding	8,218,000	13,203,933	8,287,730	8,678,812	2,000,000	40,388,475
General Fund	2,250,000	2,500,000	2,750,000	3,000,000	3,100,000	13,600,000
Grants	914,981					914,981
Other	1,114,982	200,000	200,000	700,000	200,000	2,414,982
SOURCE TOTAL	12,497,963	15,903,933	11,237,730	12,378,812	5,300,000	57,318,438

Capital Improvement Plan

'20/'21 *thru* '24/'25

Town of Newtown, Connecticut

Project # BOE-03
Project Name Hawley - Ventilation and HVAC Renovations

Type Building construction/renovatio
Useful Life 35
Category Buildings
Department Board of Education
Contact RON BIENKOWSKI, DIRECT

Description

This project will allow installation of a complete ventilation system to service the entire building. Project will include HVAC units, ductwork, controls, electrical upgrades, and other related work.

Justification

This will improve the air quality of the building by providing heating, cooling, and ventilation for the students, staff, and faculty. Due to proximity of Church Hill Rd, opening windows leads to traffic noise and poor air quality from vehicle exhaust.

Expenditures	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Planning/Design		300,000						300,000
Construction/Maintenance			3,962,000					3,962,000
Total		300,000	3,962,000					4,262,000

Funding Sources	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Bonding		300,000	3,962,000					4,262,000
Total		300,000	3,962,000					4,262,000

Budget Impact/Other

Adding air conditioning will inevitably increase electricity costs to power the new equipment.
Average annual debt service = \$288,000.



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February 7, 2019

Project - Hawley Elementary School
Newtown, CT
Attn: Gino Faiella Director of Facilities BOE

Gino,

The following is the renovation budget for the ventilation and cooling for Areas 1921 (C) & 1948 (B) including Area 1997 (A) with (1) ductless split for 1st floor and (3) ductless splits for the 2nd floor and (1) ERV included in both the (2) scenarios attached:

Scenario #1 is a ducted ventilation system with multiple ductless split air conditioning units throughout the building. Refer to attached Dwgs. M1.1, M1.2, M1.3.

Scenario #2 fully ducted ERV units, DX cooling and Hot Water Coils as reflected in our schematic floor plans. Refer to attached Dwgs. M2.1, M2.2, M2.3, M2.4, M2.5, M2.6

All work shall include Mechanical Equipment, ductwork necessary to provide fully functional systems. We have included anticipated architectural cutting, patching and painting, electrical wiring, structural and 15% contingency. We have included 10% fees for permit drawing documents and construction administration.

Scenario #1	Mechanical	\$1,887,600.00
	Electrical	\$ 250,000.00
	Architectural	\$ 100,000.00
	Structural	\$ 60,000.00
	15% Contingency	<u>\$ 344,640.00</u>
Sub Total		\$2,642,240.00
Mechanical, Electrical, Structural and Architectural Design for permitting		<u>\$ 264,220.00</u>
Grand total		<u>\$2,906,460.00</u>

Scenario #2	Mechanical	\$2,606,500.00
	Electrical	\$ 350,000.00
	Architectural	\$ 100,000.00
	Structural	\$ 75,000.00
	15% Contingency	<u>\$ 469,725.00</u>
Sub Total		\$3,601,225.00
Mechanical, Electrical, Structural and Architectural Design for permitting		<u>\$ 360,120.00</u>
Grand total		<u>\$3,961,345.00</u>

The above budget estimated constitutes a turn key installation including HVAC, Electrical, Structural, Architectural and Construction Administration through project completion.

Any questions or comments, please contact me.

Ron Bathrick
Associate

*Legnos and Cramer, Inc. is now RZ Design Associates, Inc.
Serving the Community Since 1952*

HVAC vs. Ductless Splits

- ❑ CIP committee reviewed full HVAC system at Hawley vs. Ductless Splits
- ❑ Consideration was given to the original intent of Hawley HVAC (as in other similar projects) that was primarily focused on air quality vs. providing air conditioning
- ❑ We have used ductless splits in designated school areas previously to provide cool spaces for students (not for fresh air): Middle Gate library, NMS cafeteria, Hawley All Purpose Room)
- ❑ We reviewed the overall efficiency and long-term cost benefits of both the HVAC and Ductless
- ❑ RZ Design, engineering design firm, provided pros/cons of both systems and professional cost estimates

Capital Improvement Plan

'20/'21 *thru* '24/'25

Town of Newtown, Connecticut

Project # BOE-04
Project Name High School - Replace / Restore Stadium Turf

Type Land Improvements
Useful Life 10
Category Land Improvements

Department Board of Education
Contact RON BIENKOWSKI, DIRECT

Description

This project will replace the turf field and track for the High School stadium. Current turf is 11 years old and is approaching the end of its useful life.

Justification

Turf and track will be at the end of its useful life in 21/22 and is a potential safety issue.

Expenditures	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Construction/Maintenance			750,000					750,000
Total			750,000					750,000

Funding Sources	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Bonding			750,000					750,000
Total			750,000					750,000

Budget Impact/Other

Negligible impact as the new turf and track will require the same ongoing maintenance as existing turf and track.
Average annual debt service = \$50,500.

Capital Improvement Plan

'20/'21 *thru* '24/'25

Town of Newtown, Connecticut

Project # BOE-05
Project Name Middle School Improvements

Type Building construction/renovatio
Useful Life 20
Category Buildings

Department Board of Education
Contact RON BIENKOWSKI, DIRECT

Description

This project will include the installation of ducted ventilation systems, replacement of existing HVAC units, and installation of new HVAC to key areas of the building (i.e. Auditorium, Cafeteria).

Justification

New HVAC units and ventilation system will improve indoor air quality. Existing HVAC units have exceeded their useful life.

Expenditures	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Planning/Design				300,000				300,000
Construction/Maintenance					3,568,140			3,568,140
Total				300,000	3,568,140			3,868,140

Funding Sources	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Bonding				300,000	3,568,140			3,868,140
Total				300,000	3,568,140			3,868,140

Budget Impact/Other

Replacement of existing HVAC units should reduce electricity and maintenance costs as new equipment is more energy efficient and not require persistent repairs.
Average annual debt service = \$261,000.

Capital Improvement Plan

'20/'21 *thru* '24/'25

Town of Newtown, Connecticut

Project # BOE-06

Project Name Reed - Install Gas Boiler / LED Lighting

Type Equipment Purchases

Department Board of Education

Useful Life

Contact RON BIENKOWSKI, DIRECT

Category Equipment

Description

This project will include replacement of existing boilers with new high-efficiency condensing boilers and upgrade of all building light fixtures to LED. This qualifies for utility rebates offered from Eversource. Project will include boilers, pumps, VFDs, and LED lighting.

Justification

Existing boilers are approaching their useful life. New boilers will improve energy efficiency. New lighting will also improve energy efficiency.

Expenditures	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Construction/Maintenance				1,452,730				1,452,730
Total				1,452,730				1,452,730

Funding Sources	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Bonding				1,452,730				1,452,730
Total				1,452,730				1,452,730

Budget Impact/Other

Condensing gas boilers will offer savings from reduced natural gas consumption. LED lights will reduce electricity costs due to greater efficiency and also result in less maintenance.

Average annual debt service = \$98,000 (without considering the energy rebate)

Capital Improvement Plan

'20/'21 *thru* '24/'25

Town of Newtown, Connecticut

Project # BOE-07

Project Name Head O'Meadow - Boiler Plant & Lighting

Type Building construction/renovatio

Department Board of Education

Useful Life 20

Contact

Category Buildings

Description

This project will include the replacement of existing heating equipment in the boiler plant to include boilers, pumps, VFDs, and water heaters. Light fixtures throughout the building will be upgrade to LED.

Justification

The controls, drives and pumps are old technology and inefficient. A high efficiency gas condensing boiler plant and a complete retrofit of all existing lighting from fluorescent to LED will ensure continued operation and a tremendous financial and energy savings.

Expenditures	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Construction/Maintenance					997,672			997,672
Total					997,672			997,672

Funding Sources	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Bonding					997,672			997,672
Total					997,672			997,672

Budget Impact/Other

Average annual debt service = \$67,000

Capital Improvement Plan

'20/'21 *thru* '24/'25

Town of Newtown, Connecticut

Project # BOE-08
Project Name Hawley - New Generator

Type Equipment Purchases

Department Board of Education

Useful Life 10

Contact RON BIENKOWSKI, DIRECT

Category Equipment

Description

This project will install an emergency generator at the school

Justification

This is currently the only school without a generator.

Expenditures	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Equip/Vehicles/Furnishings						1,000,000		1,000,000
Total						1,000,000		1,000,000

Funding Sources	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Bonding						1,000,000		1,000,000
Total						1,000,000		1,000,000

Budget Impact/Other

There would be a modest increase in fuel to operate the generator.
Average annual debt service amount = \$67,000

Capital Improvement Plan

'20/'21 *thru* '24/'25

Town of Newtown, Connecticut

Project # BOE-09
Project Name Middle Gate - Window Modifications

Type Building construction/renovatio
Useful Life 20
Category Buildings
Department Board of Education
Contact RON BIENKOWSKI, DIRECT

Description

This project will install new windows at the school.

Justification

New windows will improve building comfort by reducing drafts and solar gain.

Expenditures	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Construction/Maintenance						1,000,000		1,000,000
Total						1,000,000		1,000,000

Funding Sources	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Bonding						1,000,000		1,000,000
Total						1,000,000		1,000,000

Budget Impact/Other

This should result in modest savings for heating costs due to less air infiltration.
Average annual debt service = \$67,000.

Capital Improvement Plan

Town of Newtown, Connecticut

'20/'21 thru '24/'25

Project # EDC - 1

Project Name Clean up of 7 & 28A Glen Road

Type

Land Improvements

Useful Life

50

Category

Land Improvements

Department

Economic Development

Contact

Christal Preszler, Deputy Dir, Ec

Description

7 Glen Road and 28A Glen Road - Cleanup, oversight and assessment/removal of miscellaneous hazardous materials on these and other town owned properties.

Justification

Clean up town property to eventually get onto the tax rolls.

Expenditures	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Other			200,000					200,000
Total			200,000					200,000

Funding Sources	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Bonding			200,000					200,000
Total			200,000					200,000

Phase I

Designation	Building Designation and Description					
	Building 1 (Industrial)	Building 2 (Industrial)	Building 3 (Garage)	Building 4 (Industrial)	Building 5 (Residential)	Building 6 (Shed)
Built	1947	1944	Unknown	1943	1824	Unknown
Area (sq.ft).	5,600	1,650	600	3,000	1,790	300
Building Type	One-story concrete block	One-story concrete block	One-story field stone and wood frame	One-story brick	Two-story wood framed	Shed
Basement	Partial	None	None	Partial	Full	None
Heat	Oil	Oil	None	Oil	Oil	None

The four REC's and Areas of Concern identified at the Site can be summarized as follows:

REC Designation	REC Description	Areas of Concern	Contaminants of Concern
REC-1	Industrial Chemical Use and Storage	Buildings 1, 2, 3, 4 and 6 in tanks and containers (unknowns, unmarked, and deteriorating containers)	Volatile organic compounds, petroleum hydrocarbons, cyanide (Note 2), metals (arsenic, cadmium, chromium, copper, lead, and nickel)
REC-2	Four or five 1,000-Gallon underground fuel oil tanks based on observed vent and/or fill pipes and prior Phase I report.	-Buildings 1: One UST north of bldg.	Petroleum hydrocarbons and volatile organic compounds
		-Building 2: Two USTs west of bldg.	
		-Building 2: One potential UST east of bldg. (Note 1)	
		-Building 4: One UST north of bldg.	
REC-3	Drywells/Pipes and Sumps - Based on prior Phase I ESA and observed drainage piping	-Building 1: Located west of the bldg. adjacent to Glen Road.	Volatile organic compounds, petroleum hydrocarbons, cyanide, metals (arsenic, cadmium, chromium, copper, lead, and nickel)
		-Building 4: Located near the southwest corner of the bldg. (probable a septic system).	
		- Building 4: Unknown 10-inch pipe and floor drain observed in sub-basement	
REC-4	Septic Systems	-Building 1: Located west of the bldg. in concrete dock area.	Volatile organic compounds, petroleum hydrocarbons, cyanide, metals (arsenic, cadmium, chromium, copper, lead, and nickel)
		-Building 4: Located near the southwest corner of bldg.	
		-Building 5: Located west of the building. Potentially received discharges from Bldg. 6.	

11.0 RECOMMENDATIONS

Based on the information obtained as part of this Phase I ESA, we recommend the following actions be considered to stabilize and secure the Site:

1. Removal of underground tanks as part of assessment activities to remove these potential sources of contamination.
2. Securing of various wastes (particularly in Building 3) to prevent releases due to the poor structural integrity of some of the buildings and the potential for failure of various tanks and containers. The most secure location for storage and repackaging is Building 4.
3. Sampling and analysis of nearby water supply wells to evaluate potential off-site impacts to adjacent land owners from the former industrial use of the Site.
4. Sampling and analysis of Site soil and groundwater to further characterize the degree and/or extent of potential environmental impacts from prior Site use. Phase II Environmental Assessment activities should initially utilize existing monitoring wells to minimize exploration costs.

Phase II

Appendix 6 - Cost Projection, Soil Remediation and Follow-up Groundwater Monitoring

Site Phase III Assessment, Remediation, Post-remediation Monitoring	Typical unit rates			Unit Cost (hazardous soil)	Total, assumes non-hazardous soil	Total, assumes hazardous soil
	Quantity	UOM	Unit Cost (Non-hazardous soil)			
Phase III Testing of Soil to delineate 3D extent	1	LS	\$24,000	—	\$24,000	\$350,000
Pre-Remedial Groundwater testing, 1 event	1	LS	\$4,000	—	\$4,000	
Health and Safety Plan	1	LS	\$800	—	\$800	
Remedial Action Plan (includes Phase III results update and assumes no public notice required at this time)	1	LS	\$4,000	—	\$4,000	
Well Search, off-Site	1	LS	\$1,500	—	\$1,500	
Waste soil characterization, assume waste streams : (Bldg. 1 drywell/septoo&sump) (Bldg. 3 surface sludge)(Bldg. 4 sump)	4	unit	\$5,000	—	\$20,000	
Removal of stockpiled fluid and sludge materials (see tables W-1 and W-2)	1	see table	see table	see table	\$18,000	
Environmental Oversight and Documentation of Remedial Activities in Field	3	DAY	\$1,100	—	\$3,300	
Project Management (assume 12 hours)	12	HR	\$180	—	\$2,160	
Soil Remediation (contractor, trucking, hazardous Soil disposal, assumes no groundwater control or shoring)	1000	Ton	\$150	\$350	\$150,000	
Remedial Summary Report	1	LS	\$4,000	—	\$4,000	
Installation of 4 supplemental GW monitoring wells with engineering oversight	1	LS	\$6,000	—	\$6,000	
Post-remediation GW Monitoring and Analytical Testing (8 events)	8	LS	\$4,800	—	\$38,400	
Annual GW monitoring reports	2	LS	\$2,500	—	\$5,000	
Well Abandonment, after project completion	1	LS	\$5,000	—	\$5,000	
Site Closure Report	1	LS	\$7,500	—	\$7,500	
Subtotal, excludes contingency					\$293,660	
Sum of Contractor and Engineering	Total, with +30% Contingency				\$381,758	\$641,758
				Cost Range	\$382,000 to \$642,000	

Assumptions, notes, limitations:

1. Soil characterization is to the Phase II level, appropriate to assess presence/absence of a remedial condition. The requisite Phase III test data to assess the 3D extent of soil impacts has not been performed. Any reliance on this projection must acknowledge that the actual extent and complexity could vary considerably and take into account the following:
 - a) The site is not completely characterized and costs will change depending on future findings.
 - b) The projection assumes a 20 ft. spread of impacts from known points of exceedance and extending two feet into the water table. We assume impacts limited laterally by building walls.
 - c) Contractor cost is provided as a range, dependent on whether soil is Connecticut-regulated or Hazardous Waste. That determination is subject of future testing.
 - d) We have assumed half of stockpiled fluid/sludge wastes are primarily petroleum based and non-hazardous, half may be characterized as hazardous pending further testing.
 - e) We have assumed that no substantive off-site groundwater impacts to receptors are identified based on future testing.
2. We have assumed installation of four additional GW monitoring wells and eight rounds of post-remedial quarterly groundwater testing to complete post-remediation groundwater monitoring requirements. Groundwater monitoring term may be longer, depending on results.

TABLE W-2
INDUSTRIAL FLUID DISPOSAL ESTIMATE
PHASE II SITE ASSESSMENT
28 GLEN ROAD
NEWTOWN, CT

Item	Unit Cost	Units	Quantity	Subtotal
Used oil Water Mixture (non-hazardous)	\$0.48	gallon	2100	\$1,008
Contingency, hazardous	\$3.00	gallon	2000	\$6,000
4,000 gal vac. Truck	\$115	hour	16	\$1,840
Technician and vehicle	\$145	hour	12	\$1,740
Sample fee	\$275	per material	16	\$4,400
Subtotal				\$14,988
Assessment Fee	12% of subtotal	one time fee	1	\$1,799
Estimate total				\$16,787

Round up to : \$18,000

Cost estimate based on Tredebe quote F20141028MM1ts dated October 2014

Cost assumes half of material is non-hazardous, half is hazardous material and is subject to change on basis of individual waste stream analytical results.

Capital Improvement Plan

'20/'21 *thru* '24/'25

Town of Newtown, Connecticut

Project # EDC - 2
Project Name Town Match - Grants (contingency)

Type Unassigned

Department Economic Development

Useful Life

Contact Christal Preszler, Deputy Dir, Ec

Category Unassigned

Description

EDC is continually looking for grants to remediate buildings etc. Most grants will include a town match. The amounts reflected are contingencies.

Justification

Need to demonstrate the towns commitment to match grants.

Expenditures	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Other	200,000	200,000	200,000	200,000	200,000	200,000	800,000	2,000,000
Total	200,000	200,000	200,000	200,000	200,000	200,000	800,000	2,000,000

Funding Sources	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Other	200,000	200,000	200,000	200,000	200,000	200,000	800,000	2,000,000
Total	200,000	200,000	200,000	200,000	200,000	200,000	800,000	2,000,000

Budget Impact/Other

Annual debt service amount = \$13,500 (for each \$200,000)

Capital Improvement Plan

'20/'21 *thru* '24/'25

Town of Newtown, Connecticut

Project # ETH - 1
Project Name Edmond Town Hall Exterior Renovations

Type Building construction/renovatio
Useful Life 35
Category Buildings
Department Edmond Town Hall
Contact Margot S. Hall, Chairman

Description

Repair aging exterior building infrastructure which needs drainage repairs, roof repairs, brick repointing, stone work repairs, exterior lighting, etc. See attached for more detail.

Justification

Public safety, responsible maintenance and continued revenue generation to help offset building maintenance costs.

Expenditures	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Construction/Maintenance		268,000						268,000
Total		268,000						268,000

Funding Sources	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Bonding		268,000						268,000
Total		268,000						268,000

Budget Impact/Other

Annual maintenance contracts = \$3,000.
Average annual debt service amount = \$15,750.

ETH 2021 CIP DETAIL - \$268,000:

- Repointing of bricks on south and west side of building and install of chimney cap \$20,000
- Repair of stone steps in front entry of building where sand has washed away \$13,000
- REPLACE 4 rotted in-wall cast-iron DOWNSPOUTS \$39,000 WITH EXTERNAL COPPER DOWNSPOUTS
- REPLACE 9 exterior doors that are insecure and not functional \$37,000
- Install burglar/alarm security system \$5,000 (PAY THRU ANNUAL BUDGET)
- Replace flat roof which is more than 30 years old \$80,000
- Repair slate roof on original building \$30,000
- Repair rotted floor on ground level where water has been entering through bad gutters \$2,000
- Repair stone steps on north side of building \$10,000
- Restore and paint building trim and replace dressing room and staff room windows \$12,000
- Repair rusted, split and unsafe iron work \$5,000 (PAY THRU ANNUAL BUDGET)
- REPLACE 4 INTERIOR DOORS AND HARDWARE THAT ARE UNSAFE DUE TO POTENTIAL EXITING ISSUES \$25,000

Capital Improvement Plan

'20/'21 *thru* '24/'25

Town of Newtown, Connecticut

Project # ETH - 2
Project Name Edmond Town Hall Upgrades & Renovations - Theatre

Type Building construction/renovatio
Useful Life 20
Category Buildings
Department Edmond Town Hall
Contact Margot S. Hall, Chairman

Description

Revitalize and modernize key areas of the theater to improve our ability to host live performances, which generate more revenue.

SEE ATTACHED FOR DETAIL

Justification

Live performance generate more revenue than movies, which is a declining business. The theater is missing key components that would allow us to host concerts, comedy and some drama. Investing in these components would help us generate additional revenue through live performances.

Expenditures	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Construction/Maintenance				250,000				250,000
Total				250,000				250,000

Funding Sources	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Bonding				250,000				250,000
Total				250,000				250,000

Budget Impact/Other

Average annual debt service amount = \$17,000.

2022-23 THEATER REVITALIZATION PROJECT - \$250,000

- > Install lighting positions house left and house right on the walls with 4 lights each
- > Install light rail and lights in center of ceiling with remote ability to change the light positions
- > Install gate in front of pit that can open for easier loading and unloading
- > Purchase two custom ramps for loading and unloading, foldable if possible
- > Install new front curtain with fire treatment
- > Install new lighting dimmers
- > Carve out a lighting area in back of the house
- > Move handicap seats to front or add more to the back
- > Construct portable floor to provide additional floor space over the pit.
- > Alter size of cage to make more wing space and ease curtain closure

Capital Improvement Plan

'20/'21 *thru* '24/'25

Town of Newtown, Connecticut

Project # ETH - 3
Project Name Edmond Town Hall - Parking Lot Improvements

Type Land Improvements
Useful Life 25
Category Land Improvements

Department Edmond Town Hall
Contact Margot S. Hall, Chairman

Description

Repair current parking lot to provide safe, well-lighted space for parking and for additional events such as fundraisers, exhibitions, etc. Install lighting, cameras, Expand use by providing access to water and power. Provide pedestrian walkways and good signage. Increase handicapped parking, improve grading and paint lines, add space.

Justification

Current parking lot has old patched pavement that is unsafe. There is more demand for use of the lot by Edmond Town Hall patrons as well as the patrons of the new businesses on Main Street. Many more seniors use the space because of Bridge Club and it is difficult to navigate the parking lot in its current state.

Expenditures	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Construction/Maintenance				450,000				450,000
Total				450,000				450,000

Funding Sources	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Bonding				450,000				450,000
Total				450,000				450,000

Budget Impact/Other

Average annual debt service amount = \$30,400.

Capital Improvement Plan

'20/'21 *thru* '24/'25

Town of Newtown, Connecticut

Project # ECC - 1
Project Name Emergency Radio System Upgrades

Type Equipment Purchases
Useful Life 10
Category Equipment
Department Emergency Comm Ctr
Contact Maureen Will, ECC Director

Description

The current Newtown Public Safety communications systems are no longer supported and are at "end of life". This system replacement is critical to ensure first responders are dispatched and supported in the field while performing their duties in support of the residents of Newtown. See attached report.

Justification

Equipment have reached their useful life

Expenditures	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Other		2,500,000	5,041,933					7,541,933
Total		2,500,000	5,041,933					7,541,933

Funding Sources	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Bonding		2,500,000	5,041,933					7,541,933
Total		2,500,000	5,041,933					7,541,933

Budget Impact/Other

Average annual debt service for total project = \$510,000. Maintenance agreement will increase in cost ("life cycle planning")

TOWN OF NEWTOWN CONNECTICUT

Communications
Infrastructure Enhancement and Subscriber Update Project
Budget

OCTOBER 1, 2019

NEW ENGLAND RADIO CONSULTANTS LLC
Shelton, CT Center Ossipee, NH

New England Radio Consultants LLC

155 Wooster Street, Shelton, CT 06814

PO Box 475, Center Ossipee, NH 03814

(203) 331-2424 paul.zito@neradioconsultants.com

Newtown Public Safety Communications Systems Upgrade and Enhancements

The current Newtown Public Safety community's communication systems are no longer supported and are at "End of Life". This system replacement is critical to ensure First Responders are dispatched and supported in the field while performing their duties in support of the residents of Newtown.

Critical assemblies and replacement parts are no longer available for this system. Moving existing consoles to the new Police Department is not an option. Experience shows once these systems are powered down and moved the expectation of operational survival is minimal.

If a key component of the present system should fail during normal daily use, a temporary, major and costly repair would be needed to return the old system to operational status. The assemblies needed for this repair will not be compatible with the new system and therefore would be disposed of upon system replacement.

Phase 1 does not expand any of the Town's existing First Responder communication systems. It does replace the current systems with new "State Of The Art" equipment, greatly reducing the risk of catastrophic system failure.

The replacement system upgrades this critical communication system infrastructure to the digital APCO P25 standard. APCO P25 is a standard by which most American public safety communications systems are designed.

Current Newtown Infrastructure Life Cycle

Equipment Manufacturer	Quantity	Model	Use	Cancellation Date	End of Support
Motorola	6	Astro-Tac	Receiver	Sept 2011	Dec 2020
Motorola	9	Quantar	Repeater	Sept 2011	Dec 2020
Motorola	1	Astro-TAC 3000	Comparator	Dec 2010	Dec 2018
Motorola	2	Spectra-TAC	Comparator	Oct 2009	Oct 2009
Motorola	3	Elite	Consoles	Dec 2010	Dec 2018

Phase 1 should be ordered no later than December 2019 to insure timely delivery, staging and installation into the new Police Station.

Phase 2 needs to be finalized and should be ordered by mid-2020.

New England Radio Consultants LLC

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PO Box 475, Center Ossipee, NH 03814

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The upgraded system will provide Newtown First Responders increased system reliability and enhanced communications coverage for:

- Police
- Fire
- EMS *(new frequency)
- Public Works

The system as proposed will consist of:

6 Transmit sites

-
-
-
-
-
-

2 Receive Sites

-
-

New England Radio Consultants LLC

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PO Box 475, Center Ossipee, NH 03814

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Project will be broken into 2 Phases

Phase 1 Will Provide:

- An immediate upgrade of existing outdated communications system transport, interface infrastructure and base stations from a circuit switched (hardwired) to an IP based (networked) system
- The installation of new site control equipment
- A new system controller
 - Requires expansion
 - Installation of a new communications shelter
This adds additional cost of approximately \$100,000 to \$150,000 to the project. This cost is offset by eliminating an outside cabinet originally specified for this site. Using as the Prime Site greatly improves the reliability and survivability of the system. This also makes moving to the new Police Department building faster and minimizes total system downtime at the time of cutover.
 - Requires a larger generator
May be able to use the existing generator at another site.
- 3 new MCC7500e IP based consoles installed and queued up at the new Police Department as the building is completed. (December 2020)

Phase 1 pricing is in the process of being finalized. Pricing for Phase 1 is vetted and there is reasonable confidence that pricing is within the Phase 1 budget.

Phase 2: Will Provide:

- Enhanced system coverage
- The installation of 3 additional RF sites
 - site has been generally identified and are not fully vetted.
 - Installation of a 125-foot tower . The tower location has been generally identified but not fully vetted. (geotechnical services)
 -
- Replacement of unsupported subscriber units. (Mobile and Portable radios) Subscriber units have NOT been fully vetted. There is a variety of subscriber models and options available for public safety use. Before subscriber units are ordered, meetings will be held to determine the requirements for each user discipline.

Phase 2 pricing is estimated and needs to be better defined. This should be finalized by mid-2020.

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System Cost (based on State of Connecticut Mater Contract A-99-001)

Phase 1 estimated cost: \$ 1,950,000

Phase 2 estimated cost:

Motorola

System Infrastructure	\$ 1,762,002
Mobile Subscribers	\$ 1,273,714
Portable Subscribers	\$ 1,619,046
P25 Pagers	\$ 137,171
Motorola Project Total	<u>\$ 4,791,933</u>

Newtown

Shelter	\$ 150,000
Responsibilities	\$ 250,000
Contingency	\$ 400,000
Newtown Total	<u>\$ 800,000</u>

Total Estimated Project Cost

Motorola and Newtown \$ 7,541,933

Capital Improvement Plan

'20/'21 *thru* '24/'25

Town of Newtown, Connecticut

Project # **FHA-1**
Project Name **Building remediation & demo/infrastructure**

Type Land Improvements

Department FHA

Useful Life

Contact

Category Buildings

Description

Activities in support of building assessment; mothballing; safety enhancements; renovation; remediation; demolition & campus infrastructure. Possible projects: Infrastructure - \$2,000,000; Norwalk - \$1,000,000; Stamford - \$1,000,000; Shelton - \$1,800,000; Duplex mothball - \$608,000; Newtown Hall mothball - \$821,000; Cochran remediation - \$679,000 etc.

Justification

Expenditures	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Other				2,000,000	1,500,000		7,000,000	10,500,000
Total				2,000,000	1,500,000		7,000,000	10,500,000

Funding Sources	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Bonding				2,000,000	1,500,000		7,000,000	10,500,000
Total				2,000,000	1,500,000		7,000,000	10,500,000

Budget Impact/Other

Average annual debt service for \$3,500,000 = \$237,000

Capital Improvement Plan

'20/'21 *thru* '24/'25

Town of Newtown, Connecticut

Project # Fire - 1
Project Name Replacement of Fire Apparatus

Type Equipment Purchases

Department Fire

Useful Life 20

Contact Pat Reilly, Chairman, Board of F

Category Vehicles

Description

Scheduled replacement:

2022-23: Replacement of Sandy Hook tanker which is 24 years old.

2023-24: Replacement of Sandy Hook ladder truck which will be 32 years old with a newer used ladder truck (\$400,000) & refurbishment of Newtown Hook & Ladder ladder truck which will be 25 years old (\$400,000).

2025-26: Replace Hawleyville engine truck which will be 25 years old.

2026-27: Replace Sandy Hook engine truck which will be 24 years old.

2027-28: Replace Botsford engine truck which will be 25 years old.

Justification

Scheduled replacement of existing fire apparatus due to their age. They will have reached their useful life and have become too costly to repair.

Expenditures	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Equip/Vehicles/Furnishings	575,000			535,000	800,000		2,310,000	4,220,000
Total	575,000			535,000	800,000		2,310,000	4,220,000

Funding Sources	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Bonding	575,000			535,000	800,000		2,310,000	4,220,000
Total	575,000			535,000	800,000		2,310,000	4,220,000

Budget Impact/Other

There is no measurable operating budget impact relating to this project. Equipment maintenance expenditures will decrease for the Fire Commission. This will help keep down the annual budget requests of the Fire Commission.

Average annual debt service for \$1,335,000 = \$90,000.

FIRE APPARATUS INVENTORY

TOWN OF NEWTOWN FIRE TRUCKS						
HOOK AND LADDER						
Engine 1	2007	Pierce	2,000	gpm		Town owned
Engine 111	1985	pierce	1,500	gpm		Company owned
Engine 112	1997	International	4X4	Pumper		Company owned
Rescue 113	2006	Spartan				Company owned
Ladder 114	2001	Pierce	100ft	ladder no pump		Town owned
OIC Truck	2008	Ford	F350			Town owned
DODGINGTOWN						
Engine 221	2010	Pierce	1,500	gpm		Town owned
Engine 223	1987	Ford	F800	500 gpm		Company owned
OIC Truck	2014	Ford	F350			Town owned
Tanker 229	1991	White/GMC/Volvo	500 gpm	2,800 gallon tandem		Town owned
HAWLEYVILLE						
Engine 331	2000	KME	1,500	gpm		Town owned
Engine 332	1980	Pierce	Class A	pumper		Company owned
Rescue 334	1998	Spartan				Company owned
Command Unit	2017	Chevy	Tahoe			Company owned
tanker 339	1986	Seagrave	3,000	gallon tandem		Town owned
OIC Truck	2015	F350				Town owned
SANDY HOOK						
Ladder 440	1992	E One	75ft	quint 1,250	Hale	Company owned
Engine 441	2010	Pierce	1,500	gpm	Hale	Town owned
Engine 442	2003	E One	1,500	gpm	Hale	Town owned
Engine 44	1990	E One	1,500	gmp	Hale	Company owned
Rescue 444	2015	RESCUE 1	Rescue	TRUCK		Company owned
Brush 445	2012	Ford	F550	250 gpm		Company owned
Tanker 449	1997	Freightliner	500 gpm	Hale 1,900	single axle	Town owned
Tanker 9	1986	Kenworth	500gpm	2,900	gallon tandem	Town owned
OIC Truck	2007	F350				Town owned
Botsford						
Engine 551	2005	Pierce	1,500	gpm	waterous	Town owned
Engine 552	1987	Pierce	1,5000	gpm	waterous	Company owned
Brush 555	1984	Chevy	90	gpm		Company owned
Tanker 557	2003	Mack	450 gpm	3,000	gallon tandem	Company owned
Tanker 559	Volvo/White	450 gpm	2,500	gallon tandem		Town owned
OIC	2015	Ford	Explorer			Company owned

Capital Improvement Plan

'20/'21 thru '24/'25

Town of Newtown, Connecticut

Project # LIB-1
Project Name Library Building & Grounds Upgrades/Reno/Expansion

Type Building construction/renovatio
Useful Life
Category Buildings
Department Library
Contact Amy Dent, President, Board of T

Description

2021-22: HVAC upgrades; spaceplanning & development phase III, slate roof & downspout replacement.
2022-23: Repave parking lot; replace sidewalks; meeting space re-envisioning; LED lighting; new exterior storage; building upgrades including restrooms and flooring; study rooms/flexible space/office incubator; window replacements.

Justification

SEE ATTACHED

Expenditures	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Construction/Maintenance			750,000	650,000			1,450,000	2,850,000
Total			750,000	650,000			1,450,000	2,850,000

Funding Sources	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Bonding			750,000	650,000			1,450,000	2,850,000
Total			750,000	650,000			1,450,000	2,850,000

Budget Impact/Other

(1) Reduce maintenance and operating costs; ensure reliable HVAC performance.
(2) Organize space to provide improved community access.
Average annual debt service for \$1,400,000 = \$95,000

LIBRARY 2020-21 CIP REQUEST DETAIL:

2021-22

LIBRARY IMPROVEMENTS PROJECT - \$750,000

- Comprehensive HVAC upgrades - \$430,000

Description:

Replace the existing heating & cooling perimeter fan coil units throughout the rear building (date from 1997); existing cooling plant chambers and heat exchanger, (entire assembly). Reuse the existing chiller pumps and previously replaced through an earlier CIP project; Replace the existing gas fired steam boiler and heat that serves the entire facility.

Justification:

The library's existing fan coil units are beginning to fail due to internal clogging of the operating valves and up in the control valves and heating / cooling coils. Replacing these perimeter units will increase the efficiency of system and lower utility cost substantially. While the replacement of the chiller pumps & controls were addressed, Chilled water tower (plant) is original to the building (1997). The cooling coils, piping and mechanical valves have maintained regularly but preventive maintenance on this equipment has increased with valves and controls failing more frequently. The increased efficiency will lower electrical power consumption and operating costs. HVAC system was refurbished in 1997 when the rear building was erected. Without having a chemically treated water the heating & cooling system piping and heating / cooling equipment have become clogged, causing valves and to fail. With the efficiency and upgrades done to the heating system will lower utility costs by 15-20% during the season. Chiller plant, fan coil units, and HVAC boiler / heat exchanger are estimated to be at the end of their useful life and replacement is urgent.

- Space Planning & Development Phase 3 - \$200,000

Description:

Long Range Space Planning and Development Phase 3: Reconstruct, realign and retrofit the Library's respective departments and study areas according to plan established by long-range planning.

Justification:

Long Range Space Planning & Development Phase 3 concludes building security, on ground floor, improves entry to upper floors, improves building rear entrance and improves ADA access to facility. These improvements are the result of extensive studies done in the long-term planning done by the Board of Trustees to keep the library an essential part of the community's range of services. Signage to direct patrons inside the library is rudimentary; signage outside the library is practically nonexistent.

- Slate Roof, Gutters & Downspout Replacement - \$120,000

Description:

Replacement of the existing slate shingled roof of the Original building located on Main Street. A new slate or approved composite roof shingle on the original building on Main Street. The project includes replacement of the gutters, down spouts & flashing as needed.

Justification:

The existing slate roof, flashing, integral gutters and down spouts are original to the 1932 structure.

2022-23

LIBRARY IMPROVEMENTS PROJECT - \$650,000

- Repave parking lot; replace sidewalks - \$135,000

Description:

Completely repave parking lot with new asphalt down to substrate.

Justification:

Existing parking lot paving and patches date from all eras of library and show signs of end-of-life. Significant safety hazards exist in parking lot and the seasonal wear and tear of plowing has destroyed curbing. Rainfall erodes aspects of parking lot each year. Sidewalks are significantly worn, spalled, uneven, and increasingly unsafe. Sidewalks present safety hazards, show significant spalling and other age-related damage, including frost heaves. The sidewalks are at 30+ years of age at this time.

- Meeting Space Re-envisioning - \$15,000

Description:

Refurbish and upgrade meeting rooms to accommodate needs of patrons and small businesses to provide timely, helpful, modern facilities.

Justification:

The library is in a unique position to leverage relatively low cost facilities for the purpose of supporting local small businesses which need meeting space, infrastructure, programming and responsive professionals. This project provides space for small businesses to thrive and grow the local economy.

- LED lighting, Exterior storage - \$100,000

Description:

Upgrades including but not limited to construction of additional exterior storage facility and internal LED lighting.

Justification:

Switching internal library lighting to LED will provide a significant amount of energy savings and cost reductions for many years to come. Exterior storage is needed to house equipment and property that is currently poorly cared for. The library's sole storage space is a partially climate-controlled attic; much material and equipment can be relocated for significant time savings in retrieval and also enable preservation for important stored material that includes much culturally significant objects and artifacts a longer life.

- Building upgrades incl. restrooms, flooring - \$200,000

Description:

Building upgrades, including but not limited to flooring as needed (e.g., carpeting, tile), bathroom upgrades, and signage specific to the interior and exterior of the facility.

Justification:

Six public restrooms including the Children's Department and main floor and upper level of facility date from the 1998 addition; ADA compliance and universal design elements are important components of attracting patrons of all ages and abilities to the library and keeping the facility safe, welcoming and comfortable. Carpeting and flooring in public areas is significantly degraded and shows signs of end-of-life. This upgrade also implements self-service options on ground floor, enhancing the facility's usefulness outside normal operating hours.

2022-23

LIBRARY IMPROVEMENTS PROJECT - \$650,000 – **CONTINUED**

- Study rooms / Flexible space / Office incubator - \$100,000

Description:

Reconstruct, realign and retrofit the Library's respective departments and study areas, established through long term planning. Includes flexible office space on upper floor, office incubator space(s) on upper floors, study rooms to be considered for all public areas of the library.

Justification:

The library continues to position itself as the primary source for partnerships with community groups of all kinds and seeks to emphasize and cement its role as one that fosters and supports successful local enterprises in terms of economic development of small businesses and firms.

- Window replacements - \$100,000

Description:

Windows in both eras of construction are original (1932 and 1998) and many are at the end of their lifespan. This phase completes urgent/critical repair projects begun in 2017-18.

Justification:

Repairs and upgrades to cracked and worn windows and components to include repainting and /or repointing and complete structural repairs. Both the Borough and the Historical Society will be consulted for Main Street aspects.

Capital Improvement Plan

'20/'21 thru '24/'25

Town of Newtown, Connecticut

Project # P & R - 5
Project Name Lake Lillinonah Park Improvements

Type Land Improvements
Useful Life 25
Category Land Improvements

Department Parks & Recreation
Contact AMY MANGOLD, DIRECTOR

Description

Resurface parking lot, repair failing boat ramp, provide boat dockage and enlarged picnic area with pavilion.

Justification

Provide enhanced waterfront experience for those wishing to use lake Lillinonah and to offer slips to those waiting for slips at Eichler's Cove due to capacity. Revenue potential with pavilion, boat slips and potential gas dock.

Expenditures	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Construction/Maintenance					500,000			500,000
Total					500,000			500,000

Funding Sources	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Other					500,000			500,000
Total					500,000			500,000

Budget Impact/Other

Capital Improvement Plan

'20/'21 *thru* '24/'25

Town of Newtown, Connecticut

Project # Pol -1
Project Name Police Facility

Type Building construction/renovatio
Useful Life 50
Category Buildings

Department Police
Contact CHIEF JAMES VIADERO

Description

New Police Facility - The acquisition of buildings & land, located at 191 South Main Street and 61 Pecks Lane, and the construction and development of a new police station, including, but not limited to, surveys, site testing and development, environmental remediation, selective demolition, building construction, bonds and insurances, general conditions, construction manager fees, design fees, materials testing, utility back charges, moving,, reproduction expenses, owner provided services and material, furniture, fixtures, or other equipment, communications equipment, security, access control, closed circuit tv, information technology, and audio visual equipment.

\$14,800,000 APPROPRIATION APPROVED AT REFERENDUM IN MAY 2019.

Justification

The Police facility, built in 1981, was based upon projections that we have far exceeded. The growth of the community and police personnel have made the current facility overcrowded, outdated and inadequate for a modern and professional police agency. The planning of this project started in 2002 with numerous CIP requests for improvements. A comprehensive Space Needs Study and Site Evaluation of 3 Main Street was completed.

Expenditures	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Construction/Maintenance	6,800,000	4,000,000						10,800,000
Other	4,000,000							4,000,000
Total	10,800,000	4,000,000						14,800,000

Funding Sources	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Bonding	10,800,000	4,000,000						14,800,000
Total	10,800,000	4,000,000						14,800,000

Budget Impact/Other

Appropriation has already been approved thru referendum.

Capital Improvement Plan

'20/'21 *thru* '24/'25

Town of Newtown, Connecticut

Project # PW - 1
Project Name Capital Road Program

Type Road Improvements
Useful Life 20
Category Infrastructure

Department Public Works
Contact FRED HURLEY, DIRECTOR O

Description

Complete reconstruction of aging roads.

The list of roads for each fiscal year is developed in May/June prior to the new fiscal year.

Justification

Maintain road system for safe passage of the public.

Expenditures	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Construction/Maintenance	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,100,000	16,250,000	34,350,000
Total	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,100,000	16,250,000	34,350,000

Funding Sources	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Bonding	1,000,000	750,000	500,000	250,000				2,500,000
General Fund	2,000,000	2,250,000	2,500,000	2,750,000	3,000,000	3,100,000	16,250,000	31,850,000
Total	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,100,000	16,250,000	34,350,000

Budget Impact/Other

The budget impact is that the road maintenance costs will be stable. The roads that are improved or replaced cost less to maintain, the roads we don't improve or replace cost more to maintain. So the recommended amounts we invest into roads enable us to have stable maintenance costs. Average annual debt service cost on \$1,500,000 = \$101,000.

Capital Improvement Plan

'20/'21 *thru* '24/'25

Town of Newtown, Connecticut

Project # PW - 2
Project Name Bridge Replacement Program

Type Road Improvements

Department Public Works

Useful Life 50

Contact FRED HURLEY, DIRECTOR O

Category Infrastructure

Description

Bridge replacement program.

Planned annual amounts, once approved, will be placed in the capital projects fund in the bridge replacement line item. Bridges will be replaced one by one.

Justification

Public safety

Expenditures	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Construction/Maintenance	400,000	400,000		400,000	400,000		2,000,000	3,600,000
Total	400,000	400,000		400,000	400,000		2,000,000	3,600,000

Funding Sources	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Bonding	400,000	400,000		400,000	400,000		2,000,000	3,600,000
Total	400,000	400,000		400,000	400,000		2,000,000	3,600,000

Budget Impact/Other

The budget impact of replacing a bridge (at the right time) is that we avoid large maintenance costs.
Average annual debt service cost on \$400,000 = \$27,000.



TOWN OF NEWTOWN
PUBLIC WORKS DEPARTMENT

Bridge Program Update : 9/6/19

Previous Bridges and Structures Completed: 2008 -2019

Sawmill #1
Sawmill #2
Castle Meadow
Cold Spring
Warner Pond Dam
Curtis Pond Dam
Poverty Hollow
Walnut Tree
Toddy Hill

Remaining Bridges By Current Priority:

Meadowbrook	\$500,000*
Brushy Hill	\$400,000*
Old Hawleyville #2	\$400,000*
Pond Brook #2	\$600,000*
Bennetts Bridge	\$400,000*
Echo Valley	\$400,000
Jacklin	\$350,000
Huntingtown #2	\$400,000
Farrell	\$350,000
Head O' Meadow	\$400,000
Borough	\$400,000
Deep Brook	\$350,000
Country Club	\$350,000

*These bridges may be eligible for up to 50% funding for design, construction and construction management. Accepted applications may expedite approvals.

Capital Improvement Plan

'20/'21 *thru* '24/'25

Town of Newtown, Connecticut

Project # PW - 3
Project Name Multi-Purpose Building Improvements

Type Building construction/renovatio
Useful Life 25
Category Buildings
Department Public Works
Contact FRED HURLEY, DIRECTOR O

Description

This facility was constructed in 1978, with several additions but no general overhaul and updating of the entire heating, ventilating and air conditioning systems (HVAC), electrical and other mechanical systems since then.

Justification

Improvements need to be made due to the age of the building

Expenditures	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Construction/Maintenance					413,000			413,000
Total					413,000			413,000

Funding Sources	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Bonding					413,000			413,000
Total					413,000			413,000

Budget Impact/Other

Less maintenance costs
Average annual debt service cost = \$28,000.

Capital Improvement Plan

'20/'21 *thru* '24/'25

Town of Newtown, Connecticut

Project # PW - 4
Project Name Municipal Center - Roof Remediation & Replacement

Type Building construction/renovatio
Useful Life 35
Category Buildings
Department Public Works
Contact FRED HURLEY, DIRECTOR O

Description

Roof remediation and replacement at the Municipal Center. Includes cupola repair.

Justification

Roof is reaching its useful life

Expenditures	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Construction/Maintenance					1,000,000			1,000,000
Total					1,000,000			1,000,000

Funding Sources	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Bonding					1,000,000			1,000,000
Total					1,000,000			1,000,000

Budget Impact/Other

Average annual debt service cost = \$67,000.

Capital Improvement Plan

Town of Newtown, Connecticut

'20/'21 thru '24/'25

Project #FS - 1

Project NameSandy Hook Permanent Memorial

TypeUnassigned

Useful Life25

CategoryUnassigned

DepartmentS.H. Permanent Memorial Com

Contact

Description

A place holder for the Sandy Hook Permanent Memorial

Justification

Expenditures	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Other			2,000,000	2,000,000				4,000,000
Total			2,000,000	2,000,000				4,000,000

Funding Sources	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Bonding			2,000,000	2,000,000				4,000,000
Total			2,000,000	2,000,000				4,000,000

Budget Impact/Other

Average annual debt service on \$4,000,000 = \$270,000.

Capital Improvement Plan

'20/'21 *thru* '24/'25

Town of Newtown, Connecticut

Project # 226
Project Name Fairfield Hills Sewer Infrastructure Improvement

Type Water & Wastewater Systems
Useful Life 50
Category Infrastructure

Department Water & Sewer Authority
Contact FRED HURLEY, DIRECTOR O

Description

The Fairfield Hills Sewer Infrastructure Improvement Project will comprise the activity of abandoning the existing sewer mains, which have exceeded their useful life (estimated over 80 years old) and are located as much as 25 to 30 feet underground, and replacing them with a more efficient and stable sanitary sewer system.

Justification

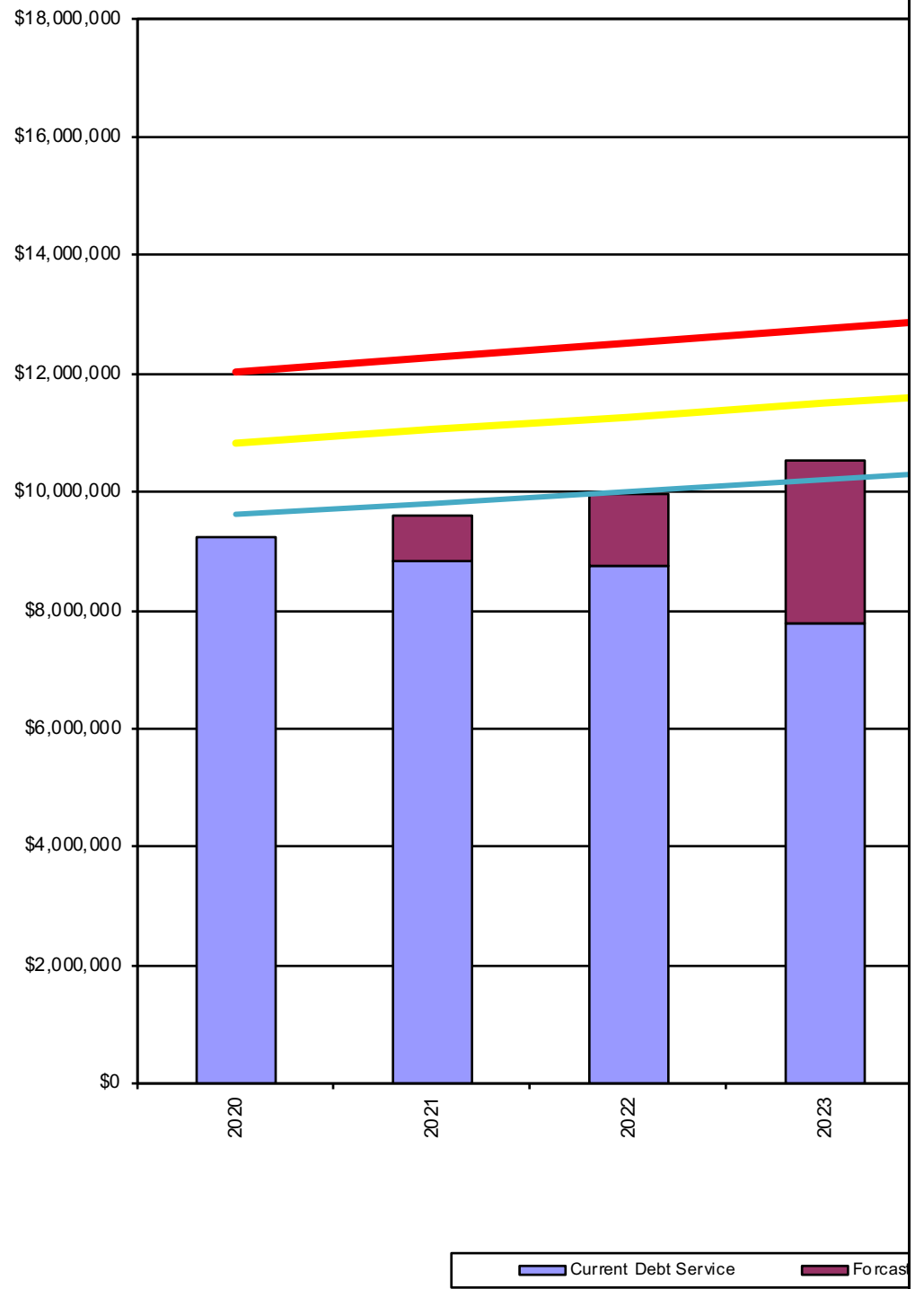
Existing sewer mains have exceeded their useful life.

Expenditures	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Construction/Maintenance		1,829,963						1,829,963
Total		1,829,963						1,829,963

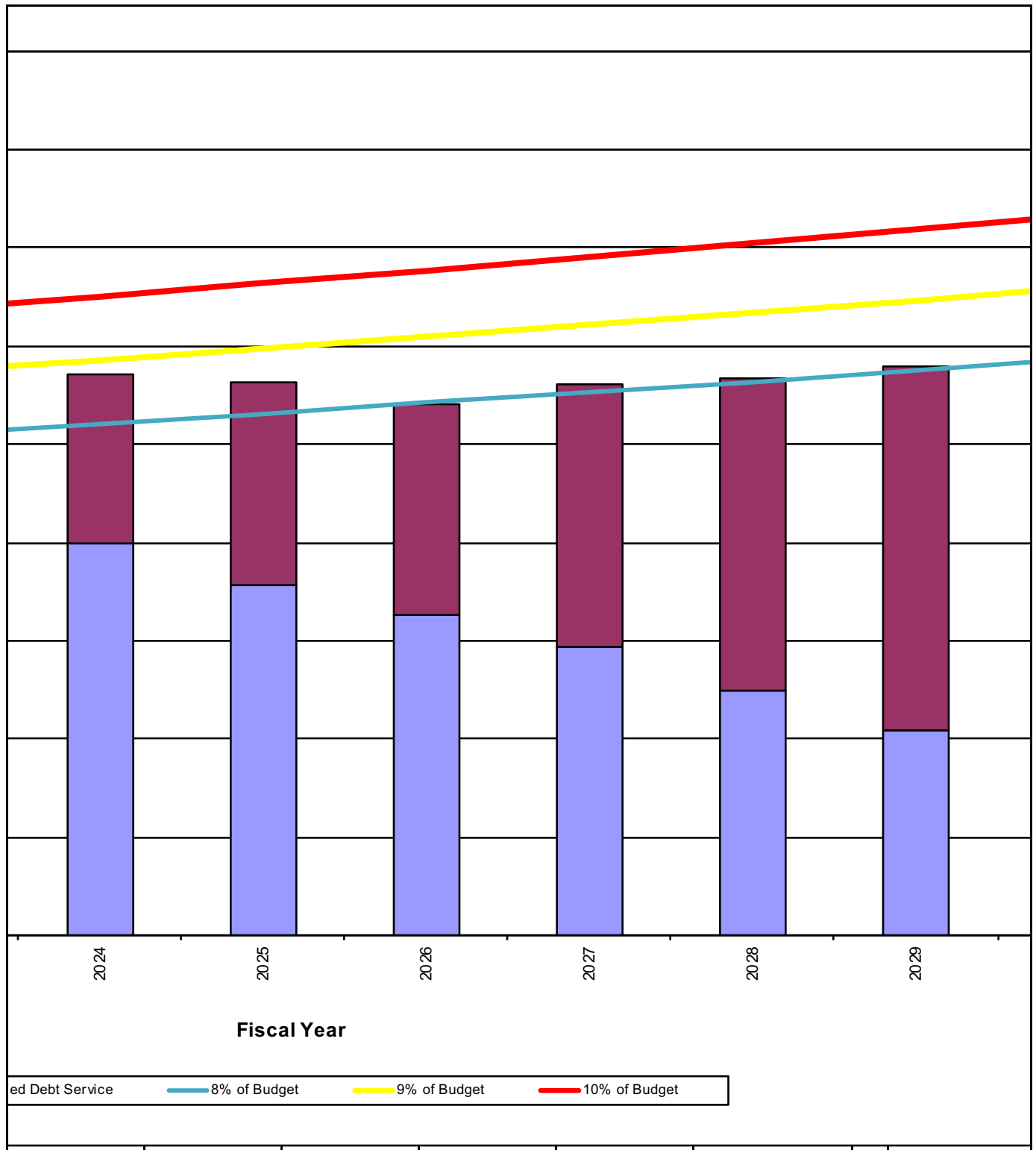
Funding Sources	Prior	'20/'21	'21/'22	'22/'23	'23/'24	'24/'25	Future	Total
Grants		914,981						914,981
Other		914,982						914,982
Total		1,829,963						1,829,963

[illegible]

Debt Service



BOS / BOE COMBINED PROPOSED PLANS
TEN YEAR BOND FORCAST 2020-21 11 12 2019 WHAT IF.xlsx[illegible]



[illegible]

**(COMBINATION GRAND LIST & TAX INCREASE):****GROWTH (%)**

2.00%

2.00%

2.00%

2.00%

2.00%

2.00%

2.00%

2.00%

2.00%

2.00%

2.00%

2.00%

INTEREST RATE:

3.20%

3.40%

3.60%

3.80%

4.00%

4.20%

4.40%

4.60%

4.80%

5.00%

5.50%

8,220,000

13,205,000

8,290,000

8,680,000

2,000,000

12,000,000

12,000,000

12,000,000

5,000,000

5,000,000

[illegible]

2019 PLANNED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	400,000	580,000	580,000	580,000	580,000
interest	374,560	361,760	343,200	324,640	306,080
total	774,560	941,760	923,200	904,640	886,080
	year 6	year 7	year 8	year 9	year 10
principal	625,000	625,000	625,000	630,000	630,000
interest	287,520	267,520	247,520	227,520	207,360
total	912,520	892,520	872,520	857,520	837,360
	year 11	year 12	year 13	year 14	year 15
principal	585,000	585,000	585,000	585,000	585,000
interest	187,200	168,480	149,760	131,040	112,320
total	772,200	753,480	734,760	716,040	697,320
	year 16	year 17	year 18	year 19	year 20
principal	585,000	585,000	585,000	585,000	585,000
interest	93,600	74,880	56,160	37,440	18,720
total	678,600	659,880	641,160	622,440	603,720
	year 21	Grand Totals			
principal	-	11,705,000			
interest	-	3,977,280			
total	-	15,682,280			

ENTER BELOW

amount to be bonded

11,705,000

585,250

estimated interest rate

(enter as a decimal - 5% = .05)

3.20%

estimated project usefull life

(number of years to bond)

(10,15,20)

20

2020 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	-	430,000	430,000	430,000	430,000
interest	279,480	279,480	264,860	250,240	235,620
total	279,480	709,480	694,860	680,240	665,620
	year 6	year 7	year 8	year 9	year 10
principal	440,000	440,000	440,000	440,000	440,000
interest	221,000	206,040	191,080	176,120	161,160
total	661,000	646,040	631,080	616,120	601,160
	year 11	year 12	year 13	year 14	year 15
principal	430,000	430,000	430,000	430,000	430,000
interest	146,200	131,580	116,960	102,340	87,720
total	576,200	561,580	546,960	532,340	517,720
	year 16	year 17	year 18	year 19	year 20
principal	430,000	430,000	430,000	430,000	430,000
interest	73,100	58,480	43,860	29,240	14,620
total	503,100	488,480	473,860	459,240	444,620
	year 21	Grand Totals			
principal	-	8,220,000			
interest	-	3,069,180			
total	-	11,289,180			

ENTER BELOW

amount to be bonded

8,220,000

411,000

estimated interest rate

(enter as a decimal - 5% = .05)

3.40%

estimated project usefull life

(number of years to bond)

(10,15,20)

20

2021 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	660,000	660,000	660,000	660,000	660,000
interest	475,380	451,620	427,860	404,100	380,340
total	1,135,380	1,111,620	1,087,860	1,064,100	1,040,340
	year 6	year 7	year 8	year 9	year 10
principal	665,000	660,000	660,000	660,000	660,000
interest	356,580	332,640	308,880	285,120	261,360
total	1,021,580	992,640	968,880	945,120	921,360
	year 11	year 12	year 13	year 14	year 15
principal	660,000	660,000	660,000	660,000	660,000
interest	237,600	213,840	190,080	166,320	142,560
total	897,600	873,840	850,080	826,320	802,560
	year 16	year 17	year 18	year 19	year 20
principal	660,000	660,000	660,000	660,000	660,000
interest	118,800	95,040	71,280	47,520	23,760
total	778,800	755,040	731,280	707,520	683,760
	year 21	Grand Totals			
principal	-	13,205,000			
interest	-	4,990,680			
total	-	18,195,680			

ENTER BELOW

amount to be bonded

13,205,000

estimated interest rate

(enter as a decimal - 5% = .05)

3.60%

estimated project usefull life

(number of years to bond)

(10,15,20)

20

2022 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	415,000	415,000	415,000	415,000	415,000
interest	315,020	299,250	283,480	267,710	251,940
total	730,020	714,250	698,480	682,710	666,940
	year 6	year 7	year 8	year 9	year 10
principal	415,000	415,000	415,000	415,000	415,000
interest	236,170	220,400	204,630	188,860	173,090
total	651,170	635,400	619,630	603,860	588,090
	year 11	year 12	year 13	year 14	year 15
principal	415,000	415,000	415,000	415,000	415,000
interest	157,320	141,550	125,780	110,010	94,240
total	572,320	556,550	540,780	525,010	509,240
	year 16	year 17	year 18	year 19	year 20
principal	415,000	415,000	415,000	410,000	410,000
interest	78,470	62,700	46,930	31,160	15,580
total	493,470	477,700	461,930	441,160	425,580
	year 21	Grand Totals			
principal	-	8,290,000			
interest	-	3,304,290			
total	-	11,594,290			

ENTER BELOW

amount to be bonded

8,290,000

414500

estimated interest rate

(enter as a decimal - 5% = .05)

3.80%

estimated project usefull life

(number of years to bond)

(10,15,20)

20

2023 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	435,000	435,000	435,000	435,000	435,000
interest	347,200	329,800	312,400	295,000	277,600
total	782,200	764,800	747,400	730,000	712,600
	year 6	year 7	year 8	year 9	year 10
principal	435,000	435,000	435,000	435,000	435,000
interest	260,200	242,800	225,400	208,000	190,600
total	695,200	677,800	660,400	643,000	625,600
	year 11	year 12	year 13	year 14	year 15
principal	435,000	435,000	435,000	435,000	435,000
interest	173,200	155,800	138,400	121,000	103,600
total	608,200	590,800	573,400	556,000	538,600
	year 16	year 17	year 18	year 19	year 20
principal	435,000	430,000	430,000	430,000	430,000
interest	86,200	68,800	51,600	34,400	17,200
total	521,200	498,800	481,600	464,400	447,200
	year 21	Grand Totals			
principal	-	8,680,000			
interest	-	3,639,200			
total	-	12,319,200			

ENTER BELOW

amount to be bonded

8,680,000

434,000

estimated interest rate

(enter as a decimal - 5% = .05)

4.00%

estimated project usefull life

(number of years to bond)

(10,15,20)

20

2024 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	100,000	100,000	100,000	100,000	100,000
interest	84,000	79,800	75,600	71,400	67,200
total	184,000	179,800	175,600	171,400	167,200
	year 6	year 7	year 8	year 9	year 10
principal	100,000	100,000	100,000	100,000	100,000
interest	63,000	58,800	54,600	50,400	46,200
total	163,000	158,800	154,600	150,400	146,200
	year 11	year 12	year 13	year 14	year 15
principal	100,000	100,000	100,000	100,000	100,000
interest	42,000	37,800	33,600	29,400	25,200
total	142,000	137,800	133,600	129,400	125,200
	year 16	year 17	year 18	year 19	year 20
principal	100,000	100,000	100,000	100,000	100,000
interest	21,000	16,800	12,600	8,400	4,200
total	121,000	116,800	112,600	108,400	104,200
	year 21	Grand Totals			
principal	-	2,000,000			
interest	-	882,000			
total	-	2,882,000			

ENTER BELOW

amount to be bonded

2,000,000

100,000

estimated interest rate

(enter as a decimal - 5% = .05)

4.20%

estimated project usefull life

(number of years to bond)

(10,15,20)

20

2025 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	600,000	600,000	600,000	600,000	600,000
interest	528,000	501,600	475,200	448,800	422,400
total	1,128,000	1,101,600	1,075,200	1,048,800	1,022,400
	year 6	year 7	year 8	year 9	year 10
principal	600,000	600,000	600,000	600,000	600,000
interest	396,000	369,600	343,200	316,800	290,400
total	996,000	969,600	943,200	916,800	890,400
	year 11	year 12	year 13	year 14	year 15
principal	600,000	600,000	600,000	600,000	600,000
interest	264,000	237,600	211,200	184,800	158,400
total	864,000	837,600	811,200	784,800	758,400
	year 16	year 17	year 18	year 19	year 20
principal	600,000	600,000	600,000	600,000	600,000
interest	132,000	105,600	79,200	52,800	26,400
total	732,000	705,600	679,200	652,800	626,400
	year 21	Grand Totals			
principal	-	12,000,000			
interest	-	5,544,000			
total	-	17,544,000			

ENTER BELOW

amount to be bonded

12,000,000

600,000

estimated interest rate

(enter as a decimal - 5% = .05)

4.40%

estimated project usefull life

(number of years to bond)

(10,15,20)

20

2026 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	600,000	600,000	600,000	600,000	600,000
interest	552,000	524,400	496,800	469,200	441,600
total	1,152,000	1,124,400	1,096,800	1,069,200	1,041,600
	year 6	year 7	year 8	year 9	year 10
principal	600,000	600,000	600,000	600,000	600,000
interest	414,000	386,400	358,800	331,200	303,600
total	1,014,000	986,400	958,800	931,200	903,600
	year 11	year 12	year 13	year 14	year 15
principal	600,000	600,000	600,000	600,000	600,000
interest	276,000	248,400	220,800	193,200	165,600
total	876,000	848,400	820,800	793,200	765,600
	year 16	year 17	year 18	year 19	year 20
principal	600,000	600,000	600,000	600,000	600,000
interest	138,000	110,400	82,800	55,200	27,600
total	738,000	710,400	682,800	655,200	627,600
	year 21	Grand Totals			
principal	-	12,000,000			
interest	-	5,796,000			
total	-	17,796,000			

ENTER BELOW

amount to be bonded

12,000,000

600000

estimated interest rate

(enter as a decimal - 5% = .05)

4.60%

estimated project usefull life

(number of years to bond)

(10,15,20)

20

2027 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	600,000	600,000	600,000	600,000	600,000
interest	576,000	547,200	518,400	489,600	460,800
total	1,176,000	1,147,200	1,118,400	1,089,600	1,060,800
	year 6	year 7	year 8	year 9	year 10
principal	600,000	600,000	600,000	600,000	600,000
interest	432,000	403,200	374,400	345,600	316,800
total	1,032,000	1,003,200	974,400	945,600	916,800
	year 11	year 12	year 13	year 14	year 15
principal	600,000	600,000	600,000	600,000	600,000
interest	288,000	259,200	230,400	201,600	172,800
total	888,000	859,200	830,400	801,600	772,800
	year 16	year 17	year 18	year 19	year 20
principal	600,000	600,000	600,000	600,000	600,000
interest	144,000	115,200	86,400	57,600	28,800
total	744,000	715,200	686,400	657,600	628,800
	year 21	Grand Totals			
principal	-	12,000,000			
interest	-	6,048,000			
total	-	18,048,000			

ENTER BELOW

amount to be bonded

12,000,000

600000

estimated interest rate

(enter as a decimal - 5% = .05)

4.80%

estimated project usefull life

(number of years to bond)

(10,15,20)

20

2028 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	250,000	250,000	250,000	250,000	250,000
interest	250,000	237,500	225,000	212,500	200,000
total	500,000	487,500	475,000	462,500	450,000
	year 6	year 7	year 8	year 9	year 10
principal	250,000	250,000	250,000	250,000	250,000
interest	187,500	175,000	162,500	150,000	137,500
total	437,500	425,000	412,500	400,000	387,500
	year 11	year 12	year 13	year 14	year 15
principal	250,000	250,000	250,000	250,000	250,000
interest	125,000	112,500	100,000	87,500	75,000
total	375,000	362,500	350,000	337,500	325,000
	year 16	year 17	year 18	year 19	year 20
principal	250,000	250,000	250,000	250,000	250,000
interest	62,500	50,000	37,500	25,000	12,500
total	312,500	300,000	287,500	275,000	262,500
	year 21	Grand Totals			
principal	-	5,000,000			
interest	-	2,625,000			
total	-	7,625,000			

ENTER BELOW

amount to be bonded

5,000,000

estimated interest rate

(enter as a decimal - 5% = .05)

5.00%

estimated project usefull life

(number of years to bond)

(10,15,20)

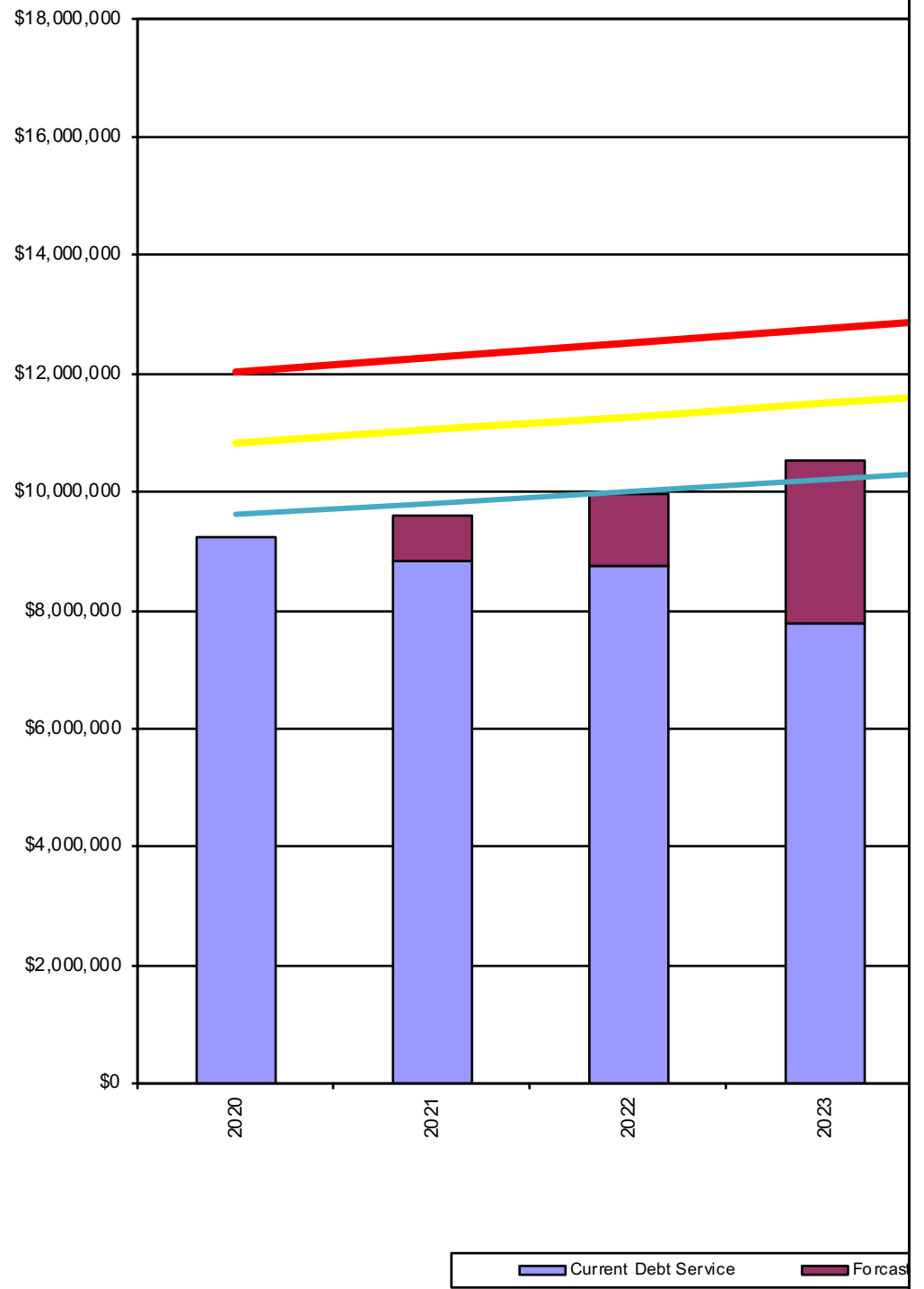
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2030 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	250,000	250,000	250,000	250,000	250,000
interest	275,000	261,250	247,500	233,750	220,000
total	525,000	511,250	497,500	483,750	470,000
	year 6	year 7	year 8	year 9	year 10
principal	250,000	250,000	250,000	250,000	250,000
interest	206,250	192,500	178,750	165,000	151,250
total	456,250	442,500	428,750	415,000	401,250
	year 11	year 12	year 13	year 14	year 15
principal	250,000	250,000	250,000	250,000	250,000
interest	137,500	123,750	110,000	96,250	82,500
total	387,500	373,750	360,000	346,250	332,500
	year 16	year 17	year 18	year 19	year 20
principal	250,000	250,000	250,000	250,000	250,000
interest	68,750	55,000	41,250	27,500	13,750
total	318,750	305,000	291,250	277,500	263,750
	year 21	Grand Totals			
principal	-	5,000,000			
interest	-	2,887,500			
total	-	7,887,500			

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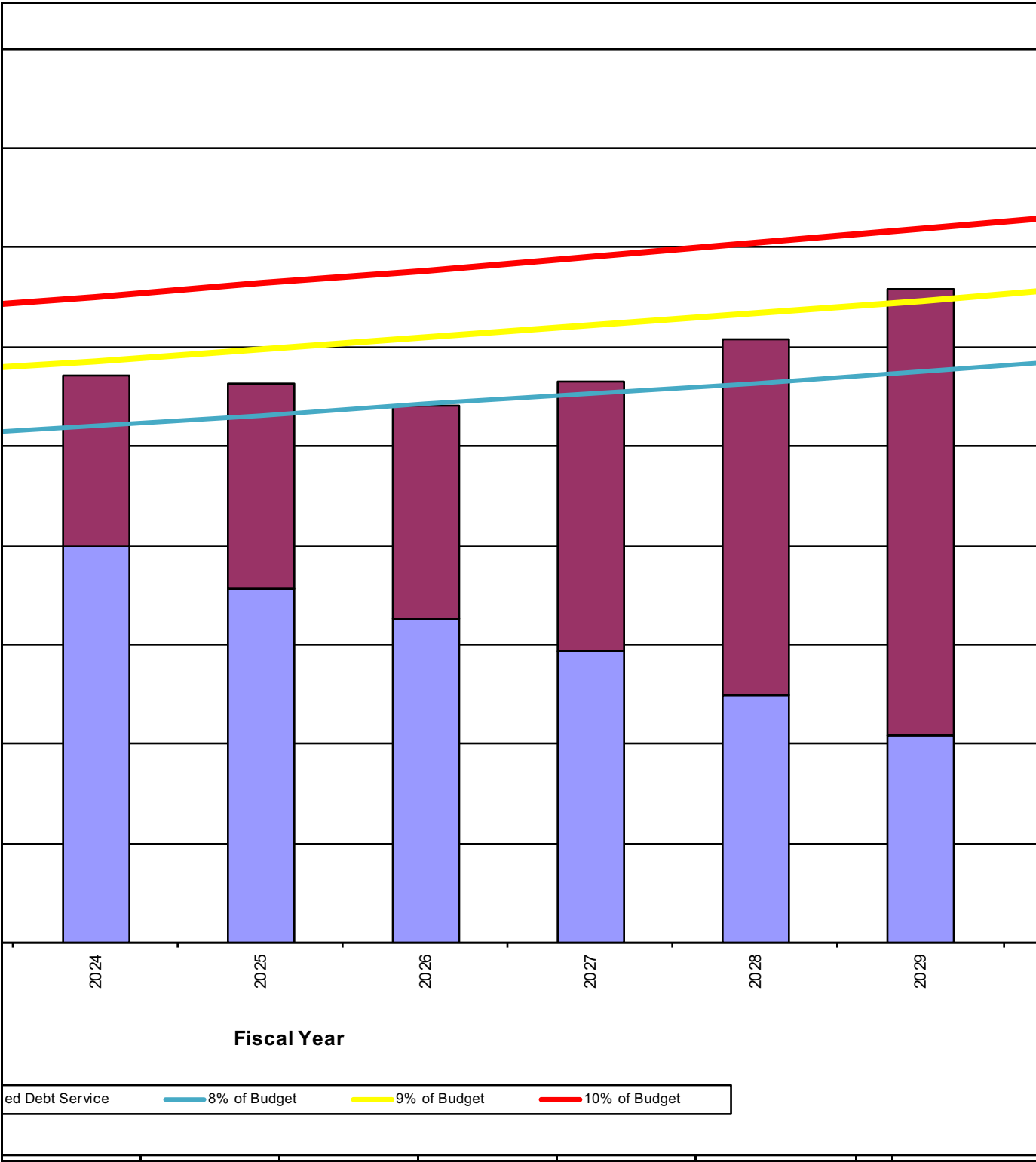
Debt Service



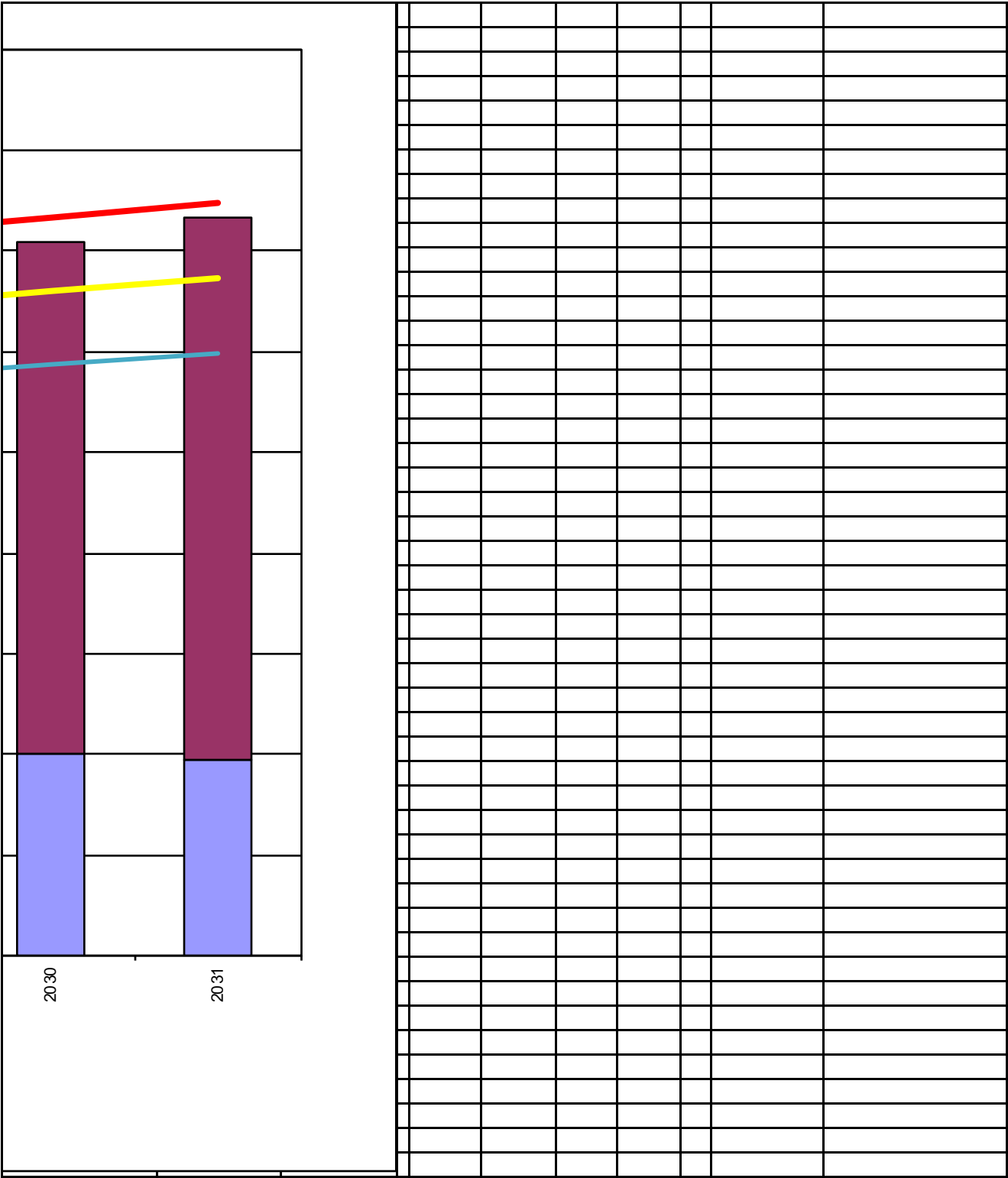
YEAR FORECAST - USING BOS / BOE COMBINED PROPOSED PLANS

[illegible]

FUTURE DEBT SERVICE



[illegible]



2019 PLANNED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	400,000	580,000	580,000	580,000	580,000
interest	374,560	361,760	343,200	324,640	306,080
total	774,560	941,760	923,200	904,640	886,080
	year 6	year 7	year 8	year 9	year 10
principal	625,000	625,000	625,000	630,000	630,000
interest	287,520	267,520	247,520	227,520	207,360
total	912,520	892,520	872,520	857,520	837,360
	year 11	year 12	year 13	year 14	year 15
principal	585,000	585,000	585,000	585,000	585,000
interest	187,200	168,480	149,760	131,040	112,320
total	772,200	753,480	734,760	716,040	697,320
	year 16	year 17	year 18	year 19	year 20
principal	585,000	585,000	585,000	585,000	585,000
interest	93,600	74,880	56,160	37,440	18,720
total	678,600	659,880	641,160	622,440	603,720
	year 21	Grand Totals			
principal	-	11,705,000			
interest	-	3,977,280			
total	-	15,682,280			

ENTER BELOW

amount to be bonded

11,705,000

585,250

estimated interest rate

(enter as a decimal - 5% = .05)

3.20%

estimated project usefull life

(number of years to bond)

(10,15,20)

20

2020 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	-	430,000	430,000	430,000	430,000
interest	279,480	279,480	264,860	250,240	235,620
total	279,480	709,480	694,860	680,240	665,620
	year 6	year 7	year 8	year 9	year 10
principal	440,000	440,000	440,000	440,000	440,000
interest	221,000	206,040	191,080	176,120	161,160
total	661,000	646,040	631,080	616,120	601,160
	year 11	year 12	year 13	year 14	year 15
principal	430,000	430,000	430,000	430,000	430,000
interest	146,200	131,580	116,960	102,340	87,720
total	576,200	561,580	546,960	532,340	517,720
	year 16	year 17	year 18	year 19	year 20
principal	430,000	430,000	430,000	430,000	430,000
interest	73,100	58,480	43,860	29,240	14,620
total	503,100	488,480	473,860	459,240	444,620
	year 21	Grand Totals			
principal	-	8,220,000			
interest	-	3,069,180			
total	-	11,289,180			

ENTER BELOW

amount to be bonded

8,220,000

411,000

estimated interest rate

(enter as a decimal - 5% = .05)

3.40%

estimated project usefull life

(number of years to bond)

(10,15,20)

20

2021 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	660,000	660,000	660,000	660,000	660,000
interest	475,380	451,620	427,860	404,100	380,340
total	1,135,380	1,111,620	1,087,860	1,064,100	1,040,340
	year 6	year 7	year 8	year 9	year 10
principal	665,000	660,000	660,000	660,000	660,000
interest	356,580	332,640	308,880	285,120	261,360
total	1,021,580	992,640	968,880	945,120	921,360
	year 11	year 12	year 13	year 14	year 15
principal	660,000	660,000	660,000	660,000	660,000
interest	237,600	213,840	190,080	166,320	142,560
total	897,600	873,840	850,080	826,320	802,560
	year 16	year 17	year 18	year 19	year 20
principal	660,000	660,000	660,000	660,000	660,000
interest	118,800	95,040	71,280	47,520	23,760
total	778,800	755,040	731,280	707,520	683,760
	year 21	Grand Totals			
principal	-	13,205,000			
interest	-	4,990,680			
total	-	18,195,680			

ENTER BELOW

amount to be bonded

13,205,000

estimated interest rate

(enter as a decimal - 5% = .05)

3.60%

estimated project usefull life

(number of years to bond)

(10,15,20)

20

2022 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	415,000	415,000	415,000	415,000	415,000
interest	315,020	299,250	283,480	267,710	251,940
total	730,020	714,250	698,480	682,710	666,940
	year 6	year 7	year 8	year 9	year 10
principal	415,000	415,000	415,000	415,000	415,000
interest	236,170	220,400	204,630	188,860	173,090
total	651,170	635,400	619,630	603,860	588,090
	year 11	year 12	year 13	year 14	year 15
principal	415,000	415,000	415,000	415,000	415,000
interest	157,320	141,550	125,780	110,010	94,240
total	572,320	556,550	540,780	525,010	509,240
	year 16	year 17	year 18	year 19	year 20
principal	415,000	415,000	415,000	410,000	410,000
interest	78,470	62,700	46,930	31,160	15,580
total	493,470	477,700	461,930	441,160	425,580
	year 21	Grand Totals			
principal	-	8,290,000			
interest	-	3,304,290			
total	-	11,594,290			

ENTER BELOW

amount to be bonded

8,290,000

414500

estimated interest rate

(enter as a decimal - 5% = .05)

3.80%

estimated project usefull life

(number of years to bond)

(10,15,20)

20

2023 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	435,000	435,000	435,000	435,000	435,000
interest	347,200	329,800	312,400	295,000	277,600
total	782,200	764,800	747,400	730,000	712,600
	year 6	year 7	year 8	year 9	year 10
principal	435,000	435,000	435,000	435,000	435,000
interest	260,200	242,800	225,400	208,000	190,600
total	695,200	677,800	660,400	643,000	625,600
	year 11	year 12	year 13	year 14	year 15
principal	435,000	435,000	435,000	435,000	435,000
interest	173,200	155,800	138,400	121,000	103,600
total	608,200	590,800	573,400	556,000	538,600
	year 16	year 17	year 18	year 19	year 20
principal	435,000	430,000	430,000	430,000	430,000
interest	86,200	68,800	51,600	34,400	17,200
total	521,200	498,800	481,600	464,400	447,200
	year 21	Grand Totals			
principal	-	8,680,000			
interest	-	3,639,200			
total	-	12,319,200			

ENTER BELOW

amount to be bonded

8,680,000

434,000

estimated interest rate

(enter as a decimal - 5% = .05)

4.00%

estimated project usefull life

(number of years to bond)

(10,15,20)

20

2024 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	100,000	100,000	100,000	100,000	100,000
interest	84,000	79,800	75,600	71,400	67,200
total	184,000	179,800	175,600	171,400	167,200
	year 6	year 7	year 8	year 9	year 10
principal	100,000	100,000	100,000	100,000	100,000
interest	63,000	58,800	54,600	50,400	46,200
total	163,000	158,800	154,600	150,400	146,200
	year 11	year 12	year 13	year 14	year 15
principal	100,000	100,000	100,000	100,000	100,000
interest	42,000	37,800	33,600	29,400	25,200
total	142,000	137,800	133,600	129,400	125,200
	year 16	year 17	year 18	year 19	year 20
principal	100,000	100,000	100,000	100,000	100,000
interest	21,000	16,800	12,600	8,400	4,200
total	121,000	116,800	112,600	108,400	104,200
	year 21	Grand Totals			
principal	-	2,000,000			
interest	-	882,000			
total	-	2,882,000			

ENTER BELOW

amount to be bonded

2,000,000

100,000

estimated interest rate

(enter as a decimal - 5% = .05)

4.20%

estimated project usefull life

(number of years to bond)

(10,15,20)

20

2025 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	640,000	640,000	640,000	640,000	640,000
interest	561,220	533,060	504,900	476,740	448,580
total	1,201,220	1,173,060	1,144,900	1,116,740	1,088,580
	year 6	year 7	year 8	year 9	year 10
principal	640,000	640,000	640,000	640,000	640,000
interest	420,420	392,260	364,100	335,940	307,780
total	1,060,420	1,032,260	1,004,100	975,940	947,780
	year 11	year 12	year 13	year 14	year 15
principal	640,000	635,000	635,000	635,000	635,000
interest	279,620	251,460	223,520	195,580	167,640
total	919,620	886,460	858,520	830,580	802,640
	year 16	year 17	year 18	year 19	year 20
principal	635,000	635,000	635,000	635,000	635,000
interest	139,700	111,760	83,820	55,880	27,940
total	774,700	746,760	718,820	690,880	662,940
	year 21	Grand Totals			
principal	-	12,755,000			
interest	-	5,881,920			
total	-	18,636,920			

ENTER BELOW

amount to be bonded

12,755,000

637,750

estimated interest rate

(enter as a decimal - 5% = .05)

4.40%

estimated project usefull life

(number of years to bond)

(10,15,20)

20

2026 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	975,000	975,000	975,000	975,000	975,000
interest	894,930	850,080	805,230	760,380	715,530
total	1,869,930	1,825,080	1,780,230	1,735,380	1,690,530
	year 6	year 7	year 8	year 9	year 10
principal	975,000	975,000	975,000	975,000	975,000
interest	670,680	625,830	580,980	536,130	491,280
total	1,645,680	1,600,830	1,555,980	1,511,130	1,466,280
	year 11	year 12	year 13	year 14	year 15
principal	975,000	970,000	970,000	970,000	970,000
interest	446,430	401,580	356,960	312,340	267,720
total	1,421,430	1,371,580	1,326,960	1,282,340	1,237,720
	year 16	year 17	year 18	year 19	year 20
principal	970,000	970,000	970,000	970,000	970,000
interest	223,100	178,480	133,860	89,240	44,620
total	1,193,100	1,148,480	1,103,860	1,059,240	1,014,620
	year 21	Grand Totals			
principal	-	19,455,000			
interest	-	9,385,380			
total	-	28,840,380			

ENTER BELOW

amount to be bonded

19,455,000

972750

estimated interest rate

(enter as a decimal - 5% = .05)

4.60%

estimated project usefull life

(number of years to bond)

(10,15,20)

20

2027 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	1,030,000	1,030,000	1,030,000	1,030,000	1,030,000
interest	985,440	936,000	886,560	837,120	787,680
total	2,015,440	1,966,000	1,916,560	1,867,120	1,817,680
	year 6	year 7	year 8	year 9	year 10
principal	1,025,000	1,025,000	1,025,000	1,025,000	1,030,000
interest	738,240	689,040	639,840	590,640	541,440
total	1,763,240	1,714,040	1,664,840	1,615,640	1,571,440
	year 11	year 12	year 13	year 14	year 15
principal	1,025,000	1,025,000	1,025,000	1,025,000	1,025,000
interest	492,000	442,800	393,600	344,400	295,200
total	1,517,000	1,467,800	1,418,600	1,369,400	1,320,200
	year 16	year 17	year 18	year 19	year 20
principal	1,025,000	1,025,000	1,025,000	1,025,000	1,025,000
interest	246,000	196,800	147,600	98,400	49,200
total	1,271,000	1,221,800	1,172,600	1,123,400	1,074,200
	year 21	Grand Totals			
principal	-	20,530,000			
interest	-	10,338,000			
total	-	30,868,000			

ENTER BELOW

amount to be bonded

20,530,000

1026500

estimated interest rate

(enter as a decimal - 5% = .05)

4.80%

estimated project usefull life

(number of years to bond)

(10,15,20)

20

2028 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	690,000	690,000	690,000	690,000	690,000
interest	686,750	652,250	617,750	583,250	548,750
total	1,376,750	1,342,250	1,307,750	1,273,250	1,238,750
	year 6	year 7	year 8	year 9	year 10
principal	690,000	690,000	685,000	685,000	685,000
interest	514,250	479,750	445,250	411,000	376,750
total	1,204,250	1,169,750	1,130,250	1,096,000	1,061,750
	year 11	year 12	year 13	year 14	year 15
principal	685,000	685,000	685,000	685,000	685,000
interest	342,500	308,250	274,000	239,750	205,500
total	1,027,500	993,250	959,000	924,750	890,500
	year 16	year 17	year 18	year 19	year 20
principal	685,000	685,000	685,000	685,000	685,000
interest	171,250	137,000	102,750	68,500	34,250
total	856,250	822,000	787,750	753,500	719,250
	year 21	Grand Totals			
principal	-	13,735,000			
interest	-	7,199,500			
total	-	20,934,500			

ENTER BELOW

amount to be bonded

13,735,000

estimated interest rate

(enter as a decimal - 5% = .05)

5.00%

estimated project usefull life

(number of years to bond)

(10,15,20)

20

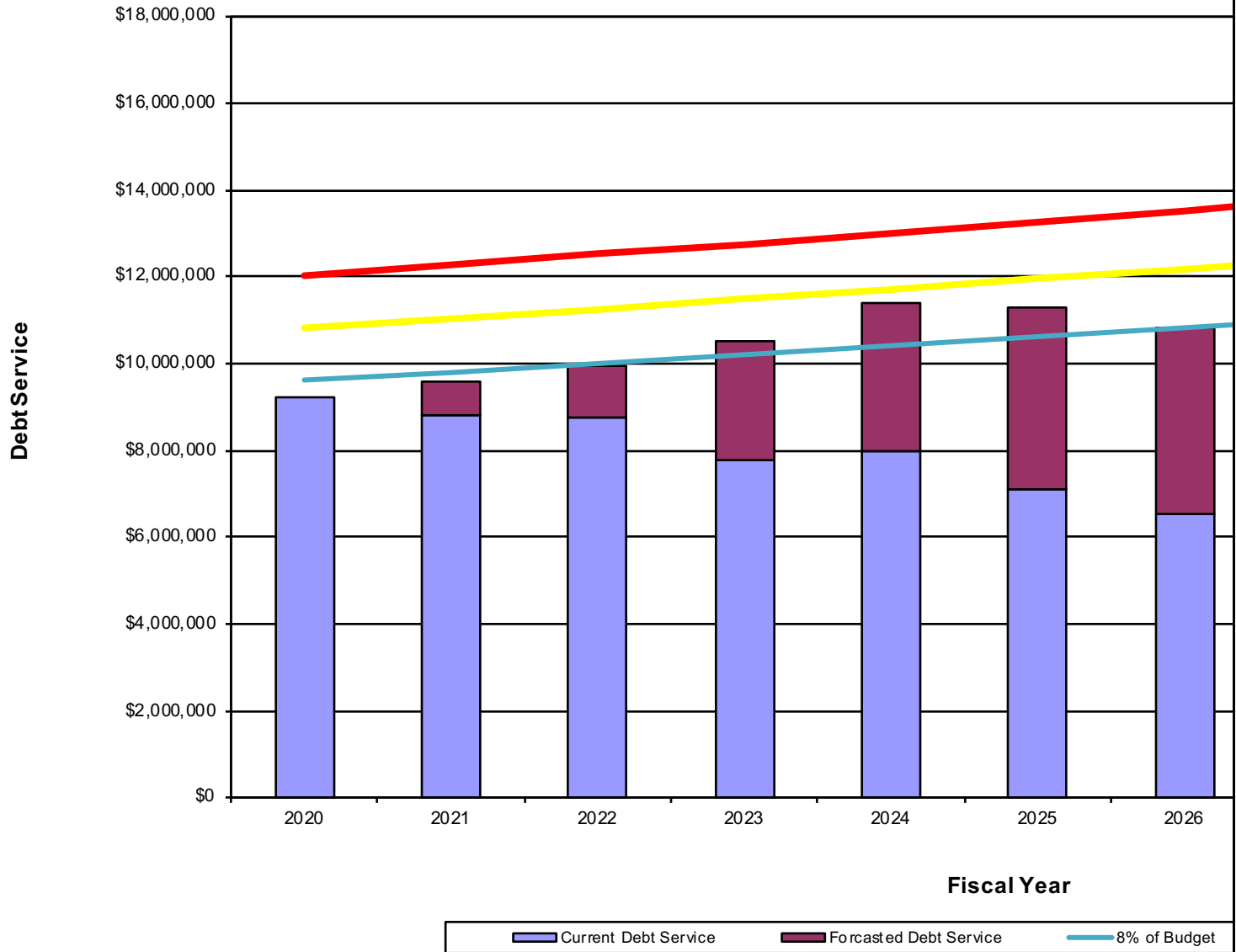
2030 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	440,000	440,000	440,000	440,000	440,000
interest	481,250	457,050	432,850	408,650	384,450
total	921,250	897,050	872,850	848,650	824,450
	year 6	year 7	year 8	year 9	year 10
principal	440,000	440,000	440,000	440,000	440,000
interest	360,250	336,050	311,850	287,650	263,450
total	800,250	776,050	751,850	727,650	703,450
	year 11	year 12	year 13	year 14	year 15
principal	435,000	435,000	435,000	435,000	435,000
interest	239,250	215,325	191,400	167,475	143,550
total	674,250	650,325	626,400	602,475	578,550
	year 16	year 17	year 18	year 19	year 20
principal	435,000	435,000	435,000	435,000	435,000
interest	119,625	95,700	71,775	47,850	23,925
total	554,625	530,700	506,775	482,850	458,925
	year 21	Grand Totals			
principal	-	8,750,000			
interest	-	5,039,375			
total	-	13,789,375			

TOWN OF NEWTOWN 2020-2021 CIP FIVE YEAR FORECAST - USING BOS / BOE C

[illegible]

**TOWN OF NEWTOWN
2020-21 TO 2024-25 CIP EFFECT ON FUTURE DEBT SERVICE**



COMBINED PROPOSED PLANS

DATA IN

ASSUMED BU

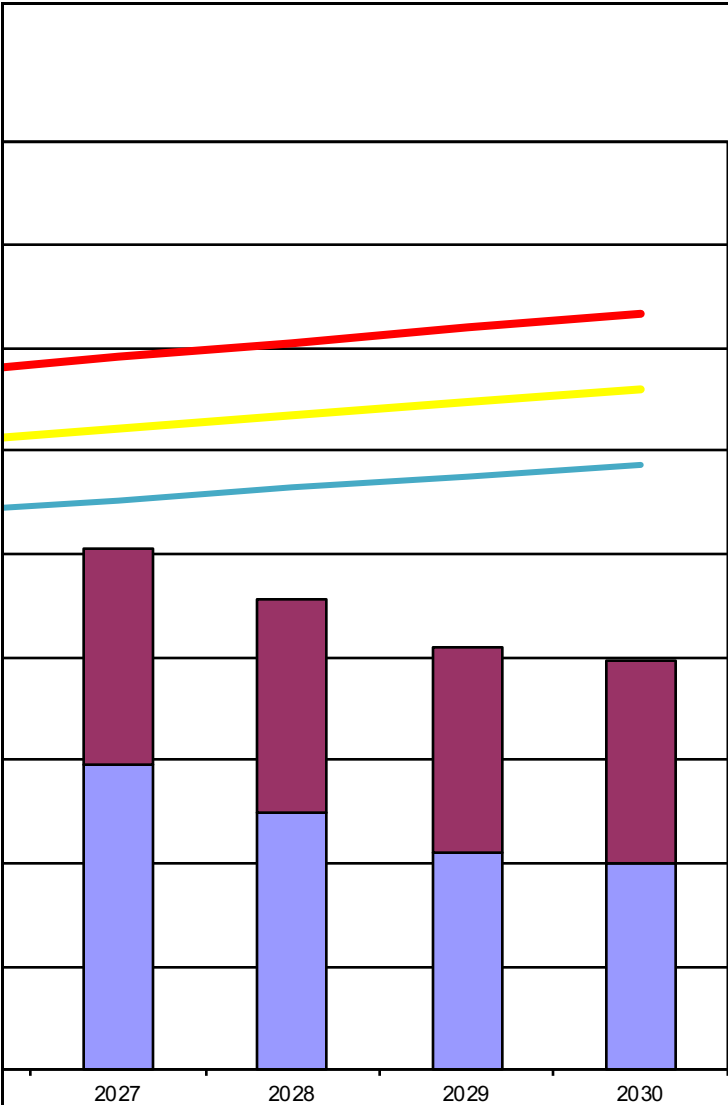
ASSUMED AV	
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AMOUNT TO B

\$500,000 premium applied.

Debt Service:

11/14/19



9% of Budget 10% of Budget

[illegible]

[illegible]

2020 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	400,000	580,000	580,000	580,000	580,000
interest	374,560	361,760	343,200	324,640	306,080
total	774,560	941,760	923,200	904,640	886,080
	year 6	year 7	year 8	year 9	year 10
principal	625,000	625,000	625,000	630,000	630,000
interest	287,520	267,520	247,520	227,520	207,360
total	912,520	892,520	872,520	857,520	837,360
	year 11	year 12	year 13	year 14	year 15
principal	585,000	585,000	585,000	585,000	585,000
interest	187,200	168,480	149,760	131,040	112,320
total	772,200	753,480	734,760	716,040	697,320
	year 16	year 17	year 18	year 19	year 20
principal	585,000	585,000	585,000	585,000	585,000
interest	93,600	74,880	56,160	37,440	18,720
total	678,600	659,880	641,160	622,440	603,720
	year 21	Grand Totals			
principal	-	11,705,000			
interest	-	3,977,280			
total	-	15,682,280			

ENTER BELOW

amount to be bonded

11,705,000

585,250

estimated interest rate

(enter as a decimal - 5% = .05)

3.20%

estimated project usefull life

(number of years to bond)

(10,15,20)

20

2021 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	-	430,000	430,000	430,000	430,000
interest	279,480	279,480	264,860	250,240	235,620
total	279,480	709,480	694,860	680,240	665,620
	year 6	year 7	year 8	year 9	year 10
principal	440,000	440,000	440,000	440,000	440,000
interest	221,000	206,040	191,080	176,120	161,160
total	661,000	646,040	631,080	616,120	601,160
	year 11	year 12	year 13	year 14	year 15
principal	430,000	430,000	430,000	430,000	430,000
interest	146,200	131,580	116,960	102,340	87,720
total	576,200	561,580	546,960	532,340	517,720
	year 16	year 17	year 18	year 19	year 20
principal	430,000	430,000	430,000	430,000	430,000
interest	73,100	58,480	43,860	29,240	14,620
total	503,100	488,480	473,860	459,240	444,620
	year 21	Grand Totals			
principal	-	8,220,000			
interest	-	3,069,180			
total	-	11,289,180			

ENTER BELOW

amount to be bonded

8,220,000

432,631.58

estimated interest rate

(enter as a decimal - 5% = .05)

3.40%

estimated project usefull life

(number of years to bond)

(10,15,20)

20

2022 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	660,000	660,000	660,000	660,000	660,000
interest	475,380	451,620	427,860	404,100	380,340
total	1,135,380	1,111,620	1,087,860	1,064,100	1,040,340
	year 6	year 7	year 8	year 9	year 10
principal	665,000	660,000	660,000	660,000	660,000
interest	356,580	332,640	308,880	285,120	261,360
total	1,021,580	992,640	968,880	945,120	921,360
	year 11	year 12	year 13	year 14	year 15
principal	660,000	660,000	660,000	660,000	660,000
interest	237,600	213,840	190,080	166,320	142,560
total	897,600	873,840	850,080	826,320	802,560
	year 16	year 17	year 18	year 19	year 20
principal	660,000	660,000	660,000	660,000	660,000
interest	118,800	95,040	71,280	47,520	23,760
total	778,800	755,040	731,280	707,520	683,760
	year 21	Grand Totals			
principal	-	13,205,000			
interest	-	4,990,680			
total	-	18,195,680			

ENTER BELOW

amount to be bonded

13,205,000

660250

estimated interest rate

(enter as a decimal - 5% = .05)

3.60%

estimated project usefull life

(number of years to bond)

(10,15,20)

20

2023 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	415,000	415,000	415,000	415,000	415,000
interest	315,020	299,250	283,480	267,710	251,940
total	730,020	714,250	698,480	682,710	666,940
	year 6	year 7	year 8	year 9	year 10
principal	415,000	415,000	415,000	415,000	415,000
interest	236,170	220,400	204,630	188,860	173,090
total	651,170	635,400	619,630	603,860	588,090
	year 11	year 12	year 13	year 14	year 15
principal	415,000	415,000	415,000	415,000	415,000
interest	157,320	141,550	125,780	110,010	94,240
total	572,320	556,550	540,780	525,010	509,240
	year 16	year 17	year 18	year 19	year 20
principal	415,000	415,000	415,000	410,000	410,000
interest	78,470	62,700	46,930	31,160	15,580
total	493,470	477,700	461,930	441,160	425,580
	year 21	Grand Totals			
principal	-	8,290,000			
interest	-	3,304,290			
total	-	11,594,290			

ENTER BELOW

amount to be bonded

8,290,000

414500

estimated interest rate

(enter as a decimal - 5% = .05)

3.80%

estimated project usefull life

(number of years to bond)

(10,15,20)

20

2024 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	435,000	435,000	435,000	435,000	435,000
interest	347,200	329,800	312,400	295,000	277,600
total	782,200	764,800	747,400	730,000	712,600
	year 6	year 7	year 8	year 9	year 10
principal	435,000	435,000	435,000	435,000	435,000
interest	260,200	242,800	225,400	208,000	190,600
total	695,200	677,800	660,400	643,000	625,600
	year 11	year 12	year 13	year 14	year 15
principal	435,000	435,000	435,000	435,000	435,000
interest	173,200	155,800	138,400	121,000	103,600
total	608,200	590,800	573,400	556,000	538,600
	year 16	year 17	year 18	year 19	year 20
principal	435,000	430,000	430,000	430,000	430,000
interest	86,200	68,800	51,600	34,400	17,200
total	521,200	498,800	481,600	464,400	447,200
	year 21	Grand Totals			
principal	-	8,680,000			
interest	-	3,639,200			
total	-	12,319,200			

ENTER BELOW

amount to be bonded

8,680,000

434000

estimated interest rate

(enter as a decimal - 5% = .05)

4.00%

estimated project usefull life

(number of years to bond)

(10,15,20)

20

2025 FORECASTED ISSUE

DO NOT ENTER BELOW					
	year 1	year 2	year 3	year 4	year 5
principal	100,000	100,000	100,000	100,000	100,000
interest	84,000	79,800	75,600	71,400	67,200
total	184,000	179,800	175,600	171,400	167,200
	year 6	year 7	year 8	year 9	year 10
principal	100,000	100,000	100,000	100,000	100,000
interest	63,000	58,800	54,600	50,400	46,200
total	163,000	158,800	154,600	150,400	146,200
	year 11	year 12	year 13	year 14	year 15
principal	100,000	100,000	100,000	100,000	100,000
interest	42,000	37,800	33,600	29,400	25,200
total	142,000	137,800	133,600	129,400	125,200
	year 16	year 17	year 18	year 19	year 20
principal	100,000	100,000	100,000	100,000	100,000
interest	21,000	16,800	12,600	8,400	4,200
total	121,000	116,800	112,600	108,400	104,200
	year 21	Grand Totals			
principal	-	2,000,000			
interest	-	882,000			
total	-	2,882,000			