



LORI L. SPIELMAN  
First Selectman

STATE OF CONNECTICUT – COUNTY OF TOLLAND  
INCORPORATED 1786

# TOWN OF ELLINGTON

55 MAIN STREET – PO BOX 187  
ELLINGTON, CONNECTICUT 06029-0187

TEL 860-870-3100

[www.ellington-ct.gov](http://www.ellington-ct.gov)

DAVID STAVENS  
Deputy First Selectman

JAMES PRICHARD  
MELINDA M. FERRY  
RONALD F. STOMBERG  
JOHN W. TURNER  
MICHAEL MADRU

## NOTICE OF SPECIAL TOWN MEETING TOWN OF ELLINGTON

**April 10, 2023**

Electors and citizens qualified to vote in Town Meetings of the Town of Ellington, Connecticut, are hereby warned that a Special Town Meeting will be held at the Ellington Town Hall, Nicholas J. DiCorleto Jr. Meeting Hall, 55 Main Street, Ellington, Connecticut, and via ZOOM conferencing on Monday, April 10, 2023 at 6:30 p.m. prevailing time to discuss and vote upon the following:

- STEAP Grant Appropriation
  - Hall Memorial Library Parking Expansion Project - \$212,000
- American Rescue Plan Project Approval
  - Crystal Lake Fire Department Extrication Tools/Rescue Struts - \$125,000

Applicable supporting documentation is available for review in the Town Clerk's Office, First Selectman's Office and on the Town website at [ellington-ct.gov](http://ellington-ct.gov).

All interested parties are encouraged to attend in person or via ZOOM.

Dated at Ellington, Connecticut, this 3<sup>rd</sup> day of April, 2023.

BY ORDER OF THE BOARD OF SELECTMEN

Lori L. Spielman  
First Selectman

**Join via ZOOM Conference at:** <https://us02web.zoom.us/j/83824748277>

**By Phone:** 1 929 205 6099

**Meeting ID:** 838 2474 8277

**Passcode:** 067467

*Journal Inquirer: April 4, 2023*



STATE OF CONNECTICUT – COUNTY OF TOLLAND  
INCORPORATED 1786

AGENDA #V.C

# TOWN OF ELLINGTON

## Department of Public Works

Ken Radziwon, PE  
Director/WPCA Admin

21 MAIN STREET – PO BOX 187  
ELLINGTON, CONNECTICUT 06029-0187  
TEL 860-870-3140 FAX 860-870-3147  
[www.ellington-ct.gov](http://www.ellington-ct.gov)

TO: Lori Spielman, First Selectman  
FROM: Ken Radziwon, PE  
RE: STEAP Grant Funds Appropriation  
DATE: March 1, 2023

The Town of Ellington has received a commitment to fund the Hall Memorial Library Parking Lot Expansion Project via a Small Town Economic Assistance Program (STEAP) fund of \$500,000. The project has an anticipated Construction total cost of \$617,000. The Town had previously committed \$400,000 in their capital budget for this project before the STEAP grant was applied for. With the acceptance of the STEAP grant, the Town is now committed to \$117,000 as their match for the grant.

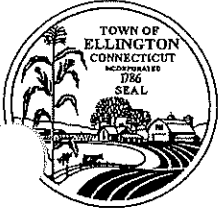
Therefore, the Town will need to appropriate the total anticipated cost of the project of \$617,000 into the appropriate account, before the project begins. The Town will be reimbursed \$500,000 upon completion of the project leaving the Town's total anticipated cost-share at \$117,000.

Cc: Tiffany Pignataro  
Felicia LaPlante  
Michael Purcaro

Motion made by the BOS on 3/13/2023:

MOVED (TURNER), SECONDED (PRICHARD) AND PASSED UNANIMOUSLY TO APPROPRIATE, FROM THE GENERAL FUND UNASSIGNED FUND BALANCE TO THE PARKING LOT RENOVATIONS CAPITAL PROJECT, IN THE AMOUNT OF \$212,000, PENDING TOWN MEETING APPROVAL, WHICH ULTIMATELY WILL BE REIMBURSED UPON PROJECT COMPLETION BY THE STATE THROUGH A STEAP GRANT.

FURTHER, TO SET A SPECIAL TOWN MEETING FOR MONDAY, APRIL 10, 2023 AT 6:30 PM IN THE NICHOLAS J. DICORLETO, JR. MEETING HALL, 55 MAIN STREET, ELLINGTON AND VIA ZOOM TO DISCUSS AND VOTE UPON THE REQUEST TO TRANSFER \$212,000 FROM THE TOWN OF ELLINGTON UNASSIGNED FUND BALANCE TO THE PARKING LOT RENOVATIONS CAPITAL PROJECT, AS APPROVED BY THE BOARD OF SELECTMEN.



# TOWN OF ELLINGTON

## American Rescue Plan Task Force

BETSI FELDMAN  
GARY MAGNUSON  
DAVID OLENDER  
TIFFANY PIGNATARO  
KEN RADZIOW  
LORI SPIELMAN  
PETER WELTI

55 MAIN STREET – PO BOX 187  
ELLINGTON, CONNECTICUT 06029-0187

### American Rescue Plan Task Force Meeting

March 6, 2023

Nicholas J. DiCorleto, Jr. Meeting Hall

### MINUTES

**Present:** Betsi Feldman, Gary Magnuson, David Olender, Tiffany Pignataro, \*Ken Radziwon, Lori Spielman and Peter Welty

**Others Present:** David Stavens, Deputy First Selectman; \*Sheila Grady, Senior Center Director; Walter Lee, Director of Emergency and Risk Management; Brian Greenleaf, Director of Finance and Operations, Ellington Public Schools; Dustin Huguenin, Recreation Director; Lisa Houlihan, Town Planner; Peter Hany, Sr., President, Ellington Volunteer Ambulance Corps (EVAC); Timothy Seitz, Chief, Michael D'Averso, Crystal Lake Fire Department; \*Arianna Tsikitas, Community Engagement Coordinator to Jaime Foster

*\*Attended via ZOOM*

#### **I. Call To Order**

First Selectman Spielman called the American Rescue Plan (ARP) Task Force meeting to order at 4:03 p.m.

#### **II. Approval of Minutes**

##### **A. January 23, 2023**

MOVED (OLENDER), SECONDED (FELDMAN) AND PASSED UNANIMOUSLY TO APPROVE THE MINUTES OF THE JANUARY 23, 2023 AMERICAN RESCUE PLAN TASK FORCE MEETING.

#### **III. Unfinished Business**

##### **A. New Submissions Received**

Ms. Pignataro distributed an updated spreadsheet, priority breakdown and new ARPA submissions [ATTACHED]. Extensive discussion was held on each of the following submissions:

- Senior Center Exercise Equipment Concrete Pad, \$30,000 (reduced to \$15,000)
- Crystal Lake Fire Department Extrication Tools and Rescue Struts, \$125,000
- Department of Public Works Superintendent Vehicle Replacement, \$50,000
- Upgrade Town Security Cameras, \$59,000

- Hall Memorial Library Air Handler Replacement Phase 3, \$20,000
- Ellington Volunteer Fire Department Duty Vehicle, \$50,000
- Arbor Park Exercise Equipment Concrete Pad, \$30,000 (reduced to \$15,000)
- Recreation/Human Services/Youth Services Vehicle, \$23,000
- Ellington Volunteer Ambulance Corps Carpet Replacement, \$6,800

MOVED (MAGNUSON), SECONDED (FELDMAN) AND PASSED UNANIMOUSLY TO PRESENT THE ROUND TWO ARPA SUBMISSION FOR THE RECREATION/HUMAN SERVICES/YOUTH SERVICES VEHICLE TOTALING \$23,000 TO THE BOARD OF SELECTMEN FOR THEIR APPROVAL.

MOVED (OLENDER), SECONDED (RADZIOW) AND PASSED UNANIMOUSLY TO PRESENT THE ROUND TWO SUBMISSION FOR THE CRYSTAL LAKE FIRE DEPARTMENT EXTRICATION TOOLS AND RESCUE STRUTS TOTALING \$125,000 TO THE BOARD OF SELECTMEN FOR THEIR APPROVAL.

MOVED (OLENDER), SECONDED (FELDMAN) AND PASSED UNANIMOUSLY TO PRESENT THE ROUND TWO SUBMISSION FOR THE UPGRADE OF TOWN SECURITY CAMERAS TOTALING \$59,000 TO THE BOARD OF SELECTMEN FOR THEIR APPROVAL.

MOVED (OLENDER), SECONDED (WELTI) AND PASSED UNANIMOUSLY TO PRESENT THE ROUND TWO SUBMISSION FOR THE CONCRETE PADS AT THE SENIOR CENTER AND ARBOR PARK TOTALING \$30,000 TO THE BOARD OF SELECTMEN FOR THEIR APPROVAL.

MOVED (WELTI), SECONDED (FELDMAN) AND PASSED UNANIMOUSLY TO PRESENT THE ROUND TWO SUBMISSIONS FOR THE EVAC BUILDING MEETING ROOM CARPET REPLACEMENT TOTALING \$6,800 TO THE BOARD OF SELECTMEN FOR THEIR APPROVAL.

#### **IV. New Business**

No discussion was held.

#### **V. Set Next Special Meeting Date**

The next ARP Task Force meeting will be held on Monday, June 12, 2023 at 4:00 PM in the Nicholas J. DiCorleto, Jr. Meeting Hall.

#### **VI. Other Business**

Arianna Tsikitas from State Representative Jaime Foster's office asked if the Task Force has addressed daycare and water quality. First Selectman Spielman stated that the Task Force discussed both at the first ARPA Task Force meeting. No other discussion was held.

#### **VII. Adjournment**

MOVED (FELDMAN), SECONDED (OLENDER) AND PASSED UNANIMOUSLY TO ADJOURN THE MEETING OF THE AMERICAN RESCUE PLAN TASK FORCE AT 4:45 PM.

Submitted by: Rebecca Einsiedel

Rebecca Einsiedel  
Recording Secretary

**From:** [noreply@ellingtonctgov.myenotice.com](mailto:noreply@ellingtonctgov.myenotice.com) on behalf of [donotreply@finalsite.com](mailto:donotreply@finalsite.com)  
**To:** [info](#); [Julia Connor](#); [Rebecca Einsiedel](#); [Tiffany Pignataro](#)  
**Subject:** Form Submission Received for form: American Rescue Plan Solicitation Form  
**Date:** Wednesday, February 1, 2023 9:08:54 AM

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CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

**Form Name:** American Rescue Plan Solicitation Form  
**Submitted:** 02/01/2023 09:08 AM  
**Submission ID:** 11820  
**Submitter's Email:** [michaeldaver128@gmail.com](mailto:michaeldaver128@gmail.com)

*The Town of Ellington is soliciting comments on how the Town should use funds allocated to the Town through the American Rescue Plan (ARP). You can review the [ARP Fact Sheet](#) for more information.*

*Below, please choose one category for which you would like to make a recommendation.*

**Last Name, First Name**  
Seitz, Timothy

**Address**  
316 Sandy Beach Road, Ellington, CT

**Email Address**  
[fire42tim@gmail.com](mailto:fire42tim@gmail.com)

**Phone Number**  
8605731723

**Business/Organization (if applicable)**  
Crystal Lake Fire Department

*Please note:*

- States and territories may not use this funding to directly or indirectly offset a reduction in net tax revenue due to a change in law from March 3, 2021 through the last day of the fiscal year in which the funds provided have been spent.
- No recipient may use this funding to make a deposit to a pension fund.
- No recipient may use this funding to cover debt service, legal settlements or judgements, and make deposits to rainy day funds or financial reserves.
- General infrastructure spending is not covered as an eligible use outside of water, sewer, and broadband investments.

**Categories**

*Please select **ONE** category to which the request relates. A category from the below list **must be selected to be considered**.*

- 1. Support public health expenditures** - by funding COVID-19 mitigation efforts, medical expenses, behavioral healthcare, and certain public health and safety staff.
- 2. Address negative economic impacts caused by the public health emergency** - including economic harms to workers, households, small businesses, impacted industries, and the public sector.
- 3. Replace lost public sector revenue** - using this funding to provide government services to the extent of the reduction in revenue experienced due to the pandemic.
- 4. Provide premium pay for essential workers** - offering additional support to those who have borne and will bear the greatest health risks because of their service in critical infrastructure sectors.
- 5. Invest in water, sewer, and broadband infrastructure** - making necessary investments to improve access to clean drinking water, support vital wastewater and storm water infrastructure, and to expand access to broadband internet.

**Select One Option**  
Replace lost public sector revenue

**Comments/Additional Details About Project Idea**  
Replacement extrication tools and rescue struts. See attached PDF for a full write-up.

**Date Submitted**  
2/1/23

**Attach File**  
Crystal\_Lake\_Fire\_Department\_American\_Rescue\_Plan\_Justification.pdf (download url: [https://www.ellington-ct.gov/cf\\_forms/admindownloadfile.cfm?formSS=4C74C168E40862C2AE1F61A233D07DF0F6C9610F53D37CF69ED4E5EE0541627A24CFEDC1448D2BEE8262B71B162554BD](https://www.ellington-ct.gov/cf_forms/admindownloadfile.cfm?formSS=4C74C168E40862C2AE1F61A233D07DF0F6C9610F53D37CF69ED4E5EE0541627A24CFEDC1448D2BEE8262B71B162554BD))

**Attach File**

# Crystal Lake Fire Department American Rescue Plan Justification



February 2023

Crystal Lake Fire Department  
316 Sandy Beach Road  
Ellington, CT 06029



## Abstract

Crystal Lake Fire Department (CLFD) recognizes the need for the Town of Ellington to decrease the Capital Improvement total to a level more closely matching fiscal year (FY) 2022-2023.

CLFD is currently seeking funding for two projects through Capital Improvements for FY 2023-2024. CLFD believes securing ARPA funding for one of these projects would decrease the total cost of Capital Improvement projects, bringing the town closer to the FY 2022-2023 total.

## Project Introduction

One of CLFD's Capital Improvement projects is funding for new electric extrication tools. The current extrication tools are all Hurst low-pressure hydraulic tools ranging in age from fifteen to forty-four years old. This project also includes funding for new rescue struts. Currently, CLFD has four Res-Q-Jack RJ3s which are approximately fourteen years old. The funding will be put towards Hurst E3 eDRAULIC extrication tools and Res-Q-Jack Super X-Struts. This would replace outdated equipment with newer, stronger, and more versatile equipment. CLFD is requesting \$125,000 for this project.

## Extrication Tools

Extrication tools are currently located on two trucks. The first being Squad 142 (SQ-142) which is CLFD's primary response apparatus for motor vehicle accidents and rescue incidents. This truck currently has six hydraulic extrication tools and two hydraulic pumps to run the tools. The second truck, Engine Tanker 242 (ET-242), is CLFD's primary response vehicle for all cover assignments. ET-242 has one tool and a hydraulic pump. Table 1 lists the location, age, and part availability of all hydraulic tools. See Appendix A for figures and a description of the current extrication tools.

*Table 1: CLFD extrication tools location, age, and part status*

<b>Truck</b>	<b>Tool</b>	<b>Age</b>	<b>Parts Status</b>
<i>SQ-142</i>	Primary Cutter	12	Limited
	Primary Spreader	12	Limited
	Ram #1	19	Limited
	Ram #1	26	Limited
	Secondary Cutter	44	Non-Available
	Secondary Spreader	44	Non-Available
	Primary Hydraulic Pump	12	Non-Available
	Portable Hydraulic Pump	26	Non-Available
<i>ET-242</i>	Combi Tool	19	Non-Available
	Hydraulic Pump	35	Non-Available

As shown in Table 1, sixty percent of the equipment has ended its serviceable life with four more tools rapidly approaching the same point. Hurst no longer manufactures parts for any of CLFD's tools. At this point, all tools cannot have preventive maintenance performed beyond basic lubrication and cleaning regardless of the parts status. If a tool were to break, only the ones with "limited" parts status have a chance of being repaired. Repairs will only be possible if there happens to be the correct spare part in stock. The number of available parts is quickly declining and soon the more common parts in need of replacement will be unavailable.

Another result of increased age is a gradual decrease in strength. The internal seals in the tools that allow them to build pressure start to become brittle and worn out, decreasing the tool's overall strength. When the decrease of strength in the tools is combined with increases in strength of modern-day vehicles, the tools can be outmatched very easily. This increases the time between CLFD arriving at a vehicle accident and a victim being extricated from their vehicle. This is especially a concern when considering the secondary set on SQ-142 and the Combi on ET-242. If the right part were to break on the primary set, CLFD would have no alternative but to rely on forty-four-year-old tools to perform a job they were never designed for. As for ET-242, there is always a chance the Combi tool will be needed if the truck is dispatched to an accident while on a cover assignment. The success of the operation would lie solely in the capability of an underpowered nineteen-year-old tool and a thirty-five-year-old hydraulic pump. If these tools are unable to perform the job there is no backup.

Beyond serviceability and strength, the compatibility of this system with other departments and our own apparatus is also of concern. Ellington Volunteer Fire Department currently uses a Hurst high-pressure hydraulic system (versus CLFD's low-pressure) and Hurst eDRAULIC tools. CLFD's tools are incompatible with both of these systems, which limits interoperability between the two departments.

For internal compatibility, the hydraulic tools will not be able to run off of new Engine Tanker 142 (ET-142) when it is delivered in 2024. The tools require a separate hydraulic pump unit to generate the pressure needed to operate the tools. This unit is often gas or electrically powered. Currently the hydraulic pumps on both trucks are powered by electric motors connected to the trucks' onboard generators. ET-142 will not have an onboard generator, therefore making it incapable of supporting the current tools. Excluding a generator from ET-142 allowed for a savings of \$20,000 on the overall cost of the truck. This decision was made based on the cost savings and the decreased need for generators on fire apparatus with the rise of battery powered equipment.

Based on the above discussion, CLFD will purchase Hurst E3 eDRAULIC tools, pictured in Appendix B, to replace the current tools. These tools are the latest model from Hurst, a company who has a long record of being a leading manufacturer of extrication tools. Table 2 shows the planned tools and their locations.

These tools are markedly improved over the current models. One of the greatest advantages is their versatility. The distance the current tools can be used from SQ-142 or ET-242 is a direct function of the length of hydraulic hose connecting to tool to the pump. It is not



possible to use the tools away from ET-242 because the electric pump must be connected to the generator. While SQ-142 has a portable gas-powered pump, it is very resource intensive to deploy because of its weight and size. This prohibits tools from operating in locations the pump cannot be carried to. With the eDRAULIC tools, an external pump is not required. This means the tool can operate anywhere it can be carried independently of a truck. If the situation were to arise, the tools could be put in any of CLFD's apparatus and brought to the incident scene. These tools have the additional capability of being able to operate under water as well.

Table 2: CLFD Proposed tools and locations

<i>Truck</i>	<i>Tool</i>
<i>SQ-142</i>	<i>Cutter</i>
	<i>Spreader</i>
	<i>Ram</i>
	<i>Combi</i>
<i>ET-242</i> <i>(Later ET-142)</i>	<i>Combi</i>

Also evident in Table 2 is the decrease from ten pieces of equipment to five with the new set of tools. This decrease is possible because of the eDRAULIC tools' independence from hydraulic pumps. The fifty percent reduction of total equipment has the added benefit of saving money on the overall cost of service.

The compatibility issues are also partially solved with these new tools. They will not only be functional on ET-142 but will be useable on all CLFD apparatus. The system is very similar to Ellington Fire's eDRAULIC system, which will increase interoperability between departments.

The bottom line is CLFD is currently operating with older equipment that is no longer serviceable and one broken part away from being rendered inoperable. While the department is doing everything in its power to keep these tools in good operating condition, the lack of parts and the inevitable consequences of age are insurmountable. In order to continue to dependably serve members and visitors to CLFD's and neighboring communities CLFD believes it is imperative to replace these tools before they are unable to perform in a victim's time of need.

## Rescue Struts

Rescue struts are just as important in extrication as the extrication tools themselves. The struts are used to stabilize the vehicle or even structure to keep the victim and firefighters safe during the incident. SQ-142 stores all four of CLFD's rescue struts. These struts are one of Res-Q-Jacks's original designs and have older features that have been improved in later models. See Appendix A for figures and a description of the current struts.

The current struts are adjusted and held in place using an outdated pin adjustment system. This system has metal pins with clips that are inserted through the telescoping sections of the strut to set the height. These pins are difficult to line up properly and increase the time needed to

# TOWN OF ELLINGTON ELIGIBLE ARPA SUBMISSIONS

CATEGORY	SUBMISSION DETAILS	COST	Category 1	Category 2	Category 3	HOLD	Round 2
HVAC/Facilities	All Schools and Town Buildings	\$ 900,000.00			HOLD	\$ 900,000.00	
	Senior Center Pavilion	\$ 100,000.00					
	Senior Center Fitness Center	\$ 60,000.00			\$ 100,000.00		
	EVAC Smart Board	\$ 8,200.00		\$ 8,200.00			
	Robert Tedford Memorial Park Upgrades (irrigation \$63k, rest unknown)	\$ 63,000.00			\$ 63,000.00		
Negative Economic Impacts Caused by the Public Health Emergency							
Water/Sewer/Infrastructure Projects	Senior Center Exercise Equipment Concrete Pad	\$ 30,000.00					\$ 15,000.00
	Ellington Historical Society Improvements	\$ 15,000.00			\$ 15,000.00		
	Vernon Pumpstation	\$ 2,500,000.00	\$ 2,500,000.00				
Replace Lost Public Sector Revenue	Cystal Lake Water study	\$ 75,000.00	\$ 75,000.00				\$ -
	Water, Sewer and Broadband Infrastructure- No further information provided						
	Cystal Lake Fire Truck	\$ 850,000.00	\$ 850,000.00				
	Police SUV	\$ 50,000.00	\$ 50,000.00				
	Pickup (45K) & Staff Vehicle (70K)	\$ 115,000.00	\$ 115,000.00				
	High School Track	\$ 630,000.00	\$ 630,000.00				
	Infield Grooming Unit	\$ 24,000.00			\$ 24,000.00		
	Town Hall Parking Lot	\$ 110,000.00		\$ 110,000.00			
	EVAC Exhaust Removal System	\$ 25,000.00		\$ 25,000.00			
	Middle School elevator replacement	\$ 95,000.00	\$ 95,000.00				
	CLFD Exication Tools and Rescue Struts	\$ 125,000.00					\$ 125,000.00
	DPW Superintendent Vehicle Replacement	\$ 50,000.00				\$ 50,000.00	
	Upgrade Town Security Cameras	\$ 59,000.00					\$ 59,000.00
	HML Air Handler Replacement Phase 3	\$ 20,000.00				\$ 20,000.00	
	Provide Premium Pay for essential workers						
Support Public Health Expenditures							
	EVFD Duty Vehicle	\$ 50,000.00				\$ 50,000.00	
	Arbor Park Exercise Equipment Concrete Pad	\$ 30,000.00					\$ 15,000.00
	Recreation/Human Services/Youth Services Vehicle	\$ 23,000.00					\$ 23,000.00
	EVAC Carpet Replacement	\$ 6,800.00					\$ 6,800.00
TOTALS PER CATEGORY:		\$ 6,014,000	\$ 4,200,000	\$ 258,200	\$ 162,000	\$ 1,020,000	\$ 243,800

Total ARPA Awarded	\$	4,873,418.26
Less - Priority 1	\$	(4,200,000.00)
	\$	673,418.26
Less - Priority 2	\$	(258,200.00)
	\$	415,218.26
Less - Priority 3	\$	(262,000.00)
	\$	153,218.26
Increase - Earned Interest	\$	103,263.83
	\$	256,482.09
Less - Round 2	\$	(293,800.00)
	\$	12,682.09
Less - Projects on HOLD	\$	(1,020,000.00)
(Over) Under Spent	\$	(1,007,317.91)

safely deploy the struts. The pins are also prone to breaking and getting lost, requiring spares to be carried on the truck.

In addition to providing static support, two of the four struts are capable of lifting loads. These struts accomplish this with a hand crank used in conjunction with adjusting the pins. Planning the placement of these struts requires very careful consideration to make sure the lifting capability is where it will be most effective and often involves tradeoffs. Once the struts are in place, it is nearly impossible to reset to a point where they can be moved to another location.

Based on this, CLFD would like to purchase a kit containing Res-Q-Jack Super X-Struts, which are pictured in Appendix B. These struts address all shortcomings of the current struts. The most notable feature of these struts is the working load limit. The current models have a load limit of 4,000 pounds. The new struts are approximately five times stronger with a working load limit of 19,300 pounds. This load limit allows the struts to be used to stabilize vehicles as large as a triaxle truck. These struts are also suitable to be used in structural collapses.

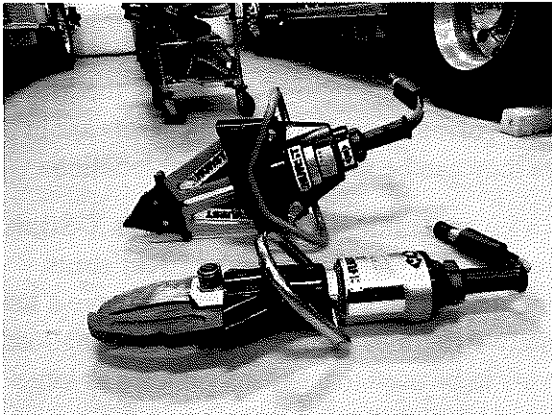
In addition to increased strength, the struts come with increased versatility. Instead of the integrated lift capability of two of the current struts, the new equipment uses a removable unit that allows all struts to provide lifting. This is paired with threaded collars around the telescoping shaft used to lock the strut at the desired height rather than the pin system. These two factors combine to make the new equipment much faster to deploy and more versatile for an evolving incident.

The replacement of the older struts will increase the safety of responders and victims when operating on scene. The increased strength gives a much higher margin of safety for passenger vehicles while expanding operational capabilities to larger commercial vehicles. The simplified operation of lifting and setting the height will decrease the setup time allowing for quicker access to the victim. All factors increase the scope and effectiveness of services CLFD can confidently and safely provide to those in need.

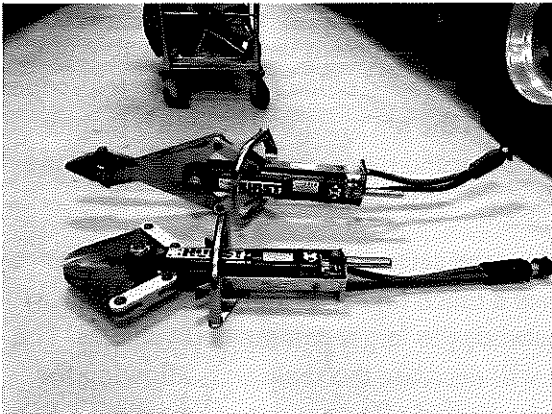
## Conclusion

Investing in an update of the rescue equipment will directly impact the safety of those living in, around, and visiting this community. Having dependable tools that can be relied upon in times of need is imperative to a successful operation. This project would replace equipment that could fail when failure is not an option and provide new equipment that is quicker to deploy and safer for all involved. Moving this project to ARPA funding will lower the total of Capital Improvement projects and provide the town with a debt and interest free purchase of much needed equipment.

## Appendix A



*Figure 1: Primary Cutter and Spreader*



*Figure 2: Secondary Cutter and Spreader*

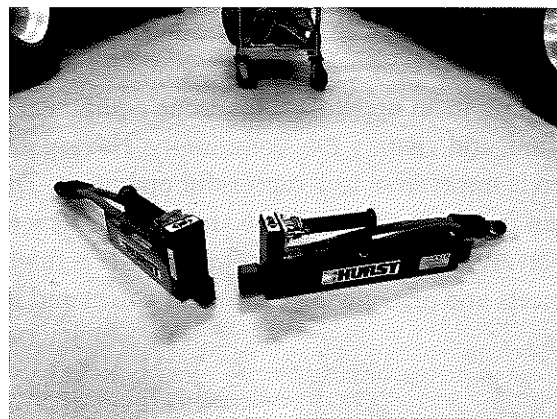
### Rams

Rams can be used in a similar manner to the spreaders. They are able to extend to spread apart material, but they cannot be used to crush. Figure 3 shows the current rams. One is a shorter model while the other is longer. These devices are limited in where they can be used based on their length and the space available to place them.

### Cutter and Spreader

The cutter pictured in the foreground of Figure 1 is used to make cuts through vehicle components. It is most often used around the windshield, roof line, between the front wheel well and the dash board, and to cut off doors. The tool can be used to make relief cuts or a purchase point for the spreader. The spreader, pictured in the background of Figure 1, is used to spread openings or crush down material to create better access.

The secondary cutter and spreader are shown in Figure 2. They are not as heavy duty as the primary set and lack the power needed to overcome the strength of modern vehicles.



*Figure 3: CLFD's two rams*

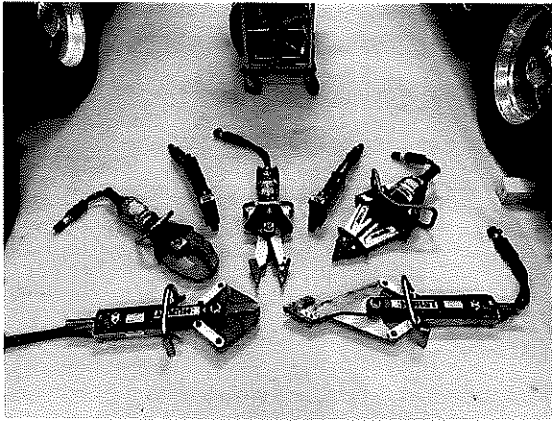


Figure 4: Combi Tool pictured in upper center

### Combi Tool

The Combi Tool combines the cutter and spreader into one package. While this tool cannot cut and spread as well as the dedicated tools, it is excellent to have due to its versatility. Figure 4 shows all extrication tools with the Combi being positioned in the upper center.

### Rescue Struts

Figure 5 shows a strut with lifting capabilities in the front and a static strut in the back. Three orange pins can be seen on the lifting jack. When deploying, these pins must be removed and reinserted one at a time to lock the jack in the desired position. As the height needs to be adjusted, the pins must be removed to make the adjustment and reinserted when the adjustment is finished.

The struts are most often used to stabilize a vehicle that has come to rest on its side which will want to fall towards its roof. The jacks are used on both sides to prevent the vehicle from tipping. They can also be used to lift an upside down vehicle so the roof can be removed without the force of the car resting on it.

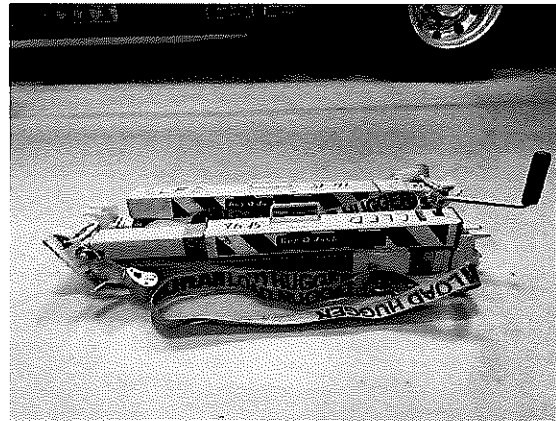
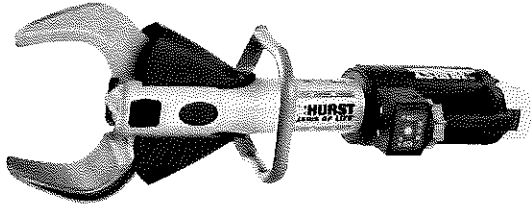
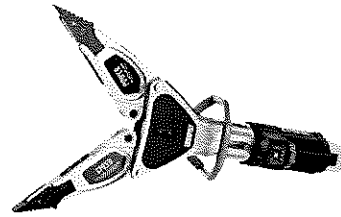


Figure 5: Rescue Struts

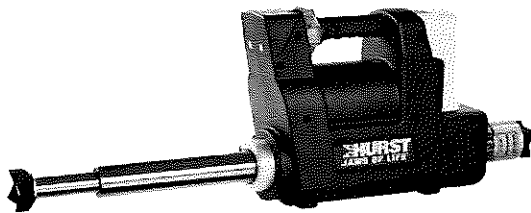
## Appendix B



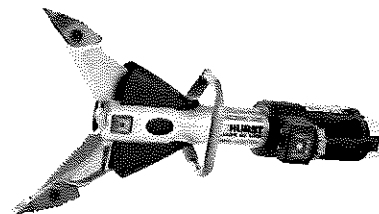
*Figure 6: Hurst E3 Cutter*



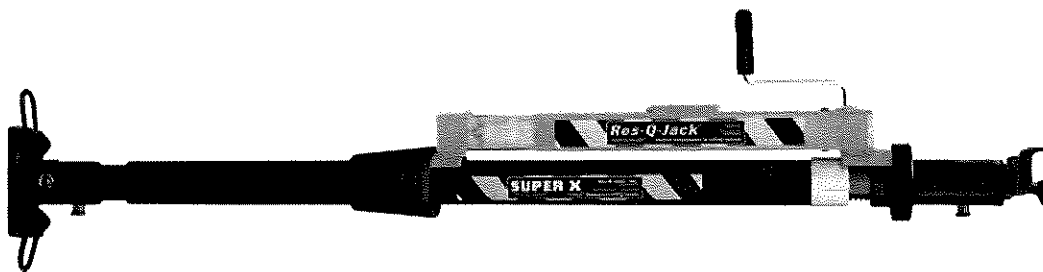
*Figure 7: Hurst E3 Spreader*



*Figure 8: Hurst E3 Ram*



*Figure 9: Hurst E3 Combi*



*Figure 10: Res-Q-Jack Super X-Strut*