FIFTEEN ROPE FERRY ROAD
WATERFORD, CT 06385-2886

PHONE: 860-442-0553
www.waterfordct.org

BOARD OF FINANCE
AGENDA

Waterford Town Hall
Budget Hearing

Monday, March 18, 2024
Town Hall, 7:00 p.m.

1. Call to Order
2. Public Comment
3. 10111 – Building Maintenance
4. 10130 – Public Works
5. 10138 – Capital Improvements
6. 10139 – Debt Service
7. 10140 – Transfers to Capital and Non-Recurring Expenditure Fund
8. Adjournment

Glenn Patterson, Chairman

TOWN OF WATERFORD
GENERAL FUND
2024 - 2025 PROPOSED BUDGET

DEPT/AGENCY: 10111 BUILDING MAINTENANCE

LINE ITEM	DESCRIPTION	2022/2023 ACTUAL EXPENDED	2023/2024 RTM APPROP.	2023/2024 ADDITIONAL/ TRANSFERS	ACTUAL EXPEND & ENCUMB AS OF 1/1/24	2024/2025 DEPT/ AGENCY REQUEST	2024/2025 BD OF SELECTMEN APPROVED (2/5/24)	BOS Approved $ Increase	BOS Approved % Increase
PERSONNEL COSTS									
51140	FACILITIES COORDINATOR	73,992	73,708		37,152	0	0	(73,708)	-100.00%
51810	OVERTIME	80	0		0	0	0	0	0.00%
51910	FRINGE BENEFITS	65	75		25	0	0	(75)	-100.00%
51920	F.I.C.A	5,402	5,639		2,699	0	0	(5,639)	-100.00%
	SUBTOTAL	79,539	79,422	0	39,876	0	0	(79,422)	-100.00%
SERVICES									
52040	SERVICE CONT. & REPAIRS	238,733	243,570		203,287	317,959	317,959	74,389	30.54%
52090	FUEL OIL/NATURAL GAS	130,748	130,000	9,098	32,076	30,000	30,000	(100,000)	-76.92%
52091 (NEW)	NATURAL GAS			0	0	95,000	95,000		
52100	ELECTRICITY	358,595	398,278	3,000	162,833	375,000	375,000	(23,278)	-5.84%
52110	WATER	21,332	15,725	4,725	11,891	20,450	20,450	4,725	30.05%
52120	SEWER	24,084	21,775	2,640	10,791	24,415	24,415	2,640	12.12%
	SUBTOTAL	773,492	809,348	19,463	420,878	862,824	862,824	53,476	6.61%
MATERIALS & SUPPLIES									
53020	OTHER SUPPLIES	6,393	6,000		3,961	8,000	8,000	2,000	33.33%
	SUBTOTAL	6,393	6,000	0	3,961	8,000	8,000	2,000	33.33%
IMPROVEMENTS									
55030	BUILDING IMPROVEMENTS	3,041	5,000		2,600	25,000	25,000	20,000	400.00%
	SUBTOTAL	3,041	5,000	0	2,600	25,000	25,000	20,000	400.00%
DEPARTMENT TOTAL		862,465	899,770	19,463	467,315	895,824	895,824	(3,946)	-0.44%

TOWN OF WATERFORD
FY2025 BUDGET REQUEST
Building Maintenance

BUDGET FUNCTION

Building Maintenance is more than answer a call to repair what doesn't work. It is management of utilities, space utilization, renovations and replacements. It requires the understanding of how the mechanical components interaction with each other. The task is more than Building Maintenance, it is Facility Management.

The goal of Facility Management is to provide a building that is inviting, providing a sense of welcome and arrival at the entrance. It must have a community orientation. Customers must feel comfortable using the services at the facility. The space also needs to be flexible so staff can focus on their current and future missions and not be concerned about the limitations of the bricks and mortar.

The vision for this Department must be proactive, not reactive. This will take several years due to the backlog of maintenance and repairs, lack of sufficient staff for the facilities effort and historical data only reaching back 3 years.

Components of a well-managed facilities program encompasses:

*Preventative Maintenance Schedules
*Repair Protocols
*Space needs programming
*Energy Audits
*Facility Inspections
*Alarm Testing
*Custodial Methods
*Live Safety Systems
*Security Systems
*ADA (Barrier Free Buildings)
*Environmental Permit Compliance
*Indoor Air Quality
*Building Code Compliance
*Capital Projects (New & Renovations)

The following facilities are assigned to this Department for Maintenance & Repairs:

- Town Hall
- Library
- Public Safety
- Community Center
- Youth & Family Services
- Police
- Municipal Complex (all buildings on the property, except Utilities Operations)
- Jordan Park House
- Nevins Cottage
- Eugene O'Neill Theater Center
- Southwest & Cohanzie Schools (vacant properties)

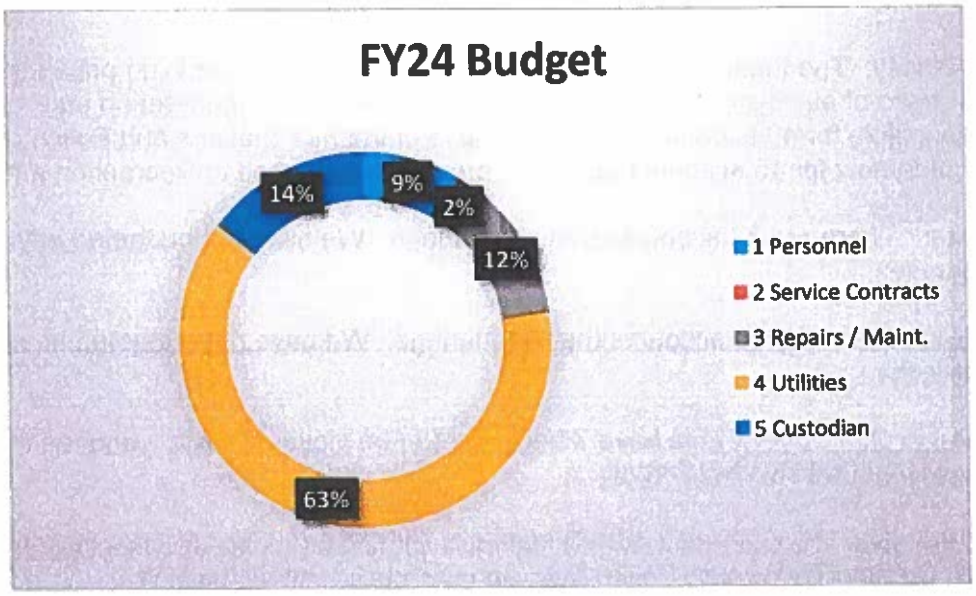
TOWN OF WATERFORD
FY2025 BUDGET REQUEST
Building Maintenance

The budget presented is primarily an operations (fixed costs) budget. The Department is obligated to pay utility bills (water, sewer, electricity, heating (oil and natural gas), comply with environmental permits, perform life safety inspections (sprinklers and fire alarms), manage intrusion alarms and contract for custodial services for approximately 250,000 square feet of municipal space. Funding for new construction, major replacements of equipment or renovations to the existing space are found in the Capital Improvement Program.

The Department is unable to provide a 5 year look back for this budget. Facilities expenses may have been combined with other expenses in each department's budget previous requests. Any attempt to separate out these costs would be labor intensive and questionable to its accuracy. We will build forward that data base ensuring proper accounting in each area. This budget request has 3 years of data.

This current year has been stressful with portions of HVAC systems failing at the Library, Police Station and Community Center. All were at the end or beyond their service life and impacted the operations of each facility. Operation accounts were used to fund temporary solutions while staff prepared CNR projects for the permanent repairs.

I believe the budget should be very clear what the funds are being requested for. I have put together a pie chart that shows the functional areas of the Building Maintenance expenditures. I believe by grouping all the costs into these functional areas, it provides a clear snapshot of our responsibilities and the costs associated with them.



Call Attention to:

- Electrical rates are stable based on the 5 year contract for power generation.
- No rate increases are forecasted for water or sewer.
- New this year is the separation of the natural gas from the heating oil budget.
- Accounts that were budgeted in the Recreation and Parks budget for FY24 are now found in this budget.

Staffing:
Facilities is managed through the Public Works Department under the leadership of the Director of Public Works.

Utilities:
Facilities is responsible for the utilities (Water, sewer, heating oil, natural gas and electricity) consumed at the buildings listed previously as well as the 5 Fire Stations. Consolidating all Utility billings under one department allows a savings in staff time for processing and a better capture of data.

- Electricity: The Finance Department has entered into a 5 year fixed price for the purchase of electricity. The rate is $.0919/kwh. This is for generation only. Facilities is responsible for 40 accounts to include those of the Fire Stations and Police radio sites (5), and now for 15 accounts that were previously assigned to Recreation and Parks.
- Water: There are 32 accounts that we manage. We have not budgeted any rate increases.
- Sewer: There are 22 accounts that we manage. We have not budgeted any rate increases.
- Heating Oil: Currently we have 7 buildings (5 Fire Houses, Library and the Jordan Park House) that receive heating oil.
- Natural Gas: We currently have 5 locations with Natural Gas (Municipal Complex, Town Hall, Community Center, Police Dept and the Public Safety building).

Waste Disposal:
Solid Waste/Recyclables: The Public Works Department provides the containers and collection services and pays for disposal. These costs are included in the Public Works budget and are not found in this budget.

Service Contracts:
This has been a major focus for the last fiscal year. Consolidation of these contracts allows us to ensure the preventative maintenance tasks are performed at all of the facilities. It also allows us to monitor the performance of the vendor.

Life Safety Inspections:
For those buildings with sprinklers and/or fire alarms, quarterly inspections are required to keep the Town in compliance with the Fire Code. From these inspections, items are identified to be tested or components repaired.

5100 SERIES

FY25 Request $0

5200 SERIES

10111-52040 – Service Contracts and Repairs

The primary method to minimize costly service calls are annual maintenance contracts. Contracts include HVAC maintenance, pest control, boiler and fire system inspections and generator maintenance.

Custodial services provided to Town Hall, Municipal Complex, Youth & Family Services, Community Center and the Public Safety Building are included in this line item. The Library and the Police Station provide these services in their budgets. Park & Recreation have a part time employee on their staff at the Community Center for the day cleaning. The contractor comes in to do the heavy cleaning in the afternoon through the evening. The cost of custodial services is offset by a funding agreement between the Town and Board of Education for services provided at Town Hall. These funds are listed in this budget as a revenue, unlike years of the past years when the funds were transferred into this line item.

TOWN OF WATERFORD
FY2025 BUDGET REQUEST
Building Maintenance

The following are charges included in this line item:

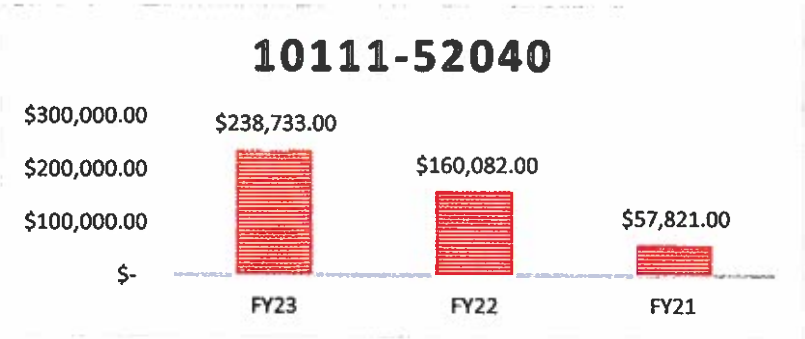
For all Facilities:

Company	Scope of Work		
Building 1 Facility Svcs	Cleaning	$	127,418.00
Action Air, Inc.	HVAC Maintenance PM Program	$	55,958.00
Northeast Generator	Generator Maintenance	$	7,228.00
Central Alarm (ITS)	Alarm Monitoring Agreement	$	8,200.00
Otis Elevator	Elevator @ Town Hall, Library & YSB	$	8,700.00
Mack Fire	HFPA-25 Sprinkler Inspections *	$	16,000.00
Waltham Chemical	PW, PD, YSB, Safey Complex, Town	$	9,345.00
		$	232,849.00

*Includes O'Neill Theater Center (15 buildings)

We also have on-call contractors for repairs that are not general maintenance. These are for plumbing, roofing, electrical issues, overhead doors, air quality companies.

$93,000



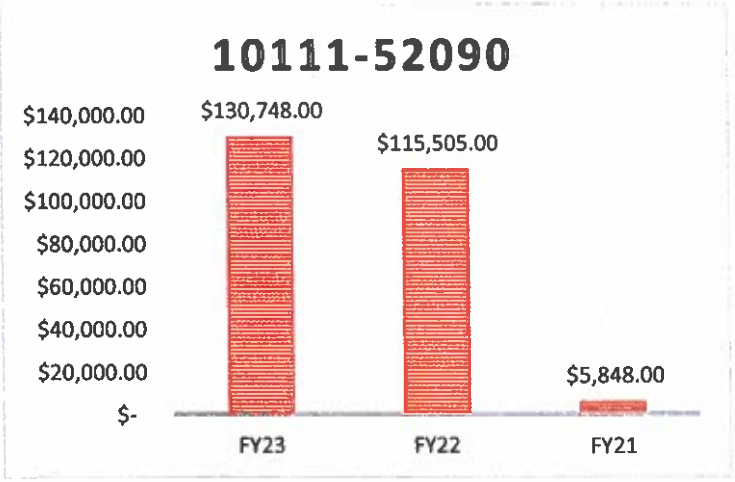
FY 24 Budget
$243,570

FY 25 Request **$317,959**

10111-52090 Heating Oil

This line item is for fuel to heat the town's facilities, whether it is for natural gas or heating oil. We are proposing this line item stay for heating oil and the natural gas charges move to a new line item.

Heating oil is for the 5 fire houses, the Library and Jordan Park House, as well as the amount previously found in the Recreation & Parks budget.



FY24 Budget

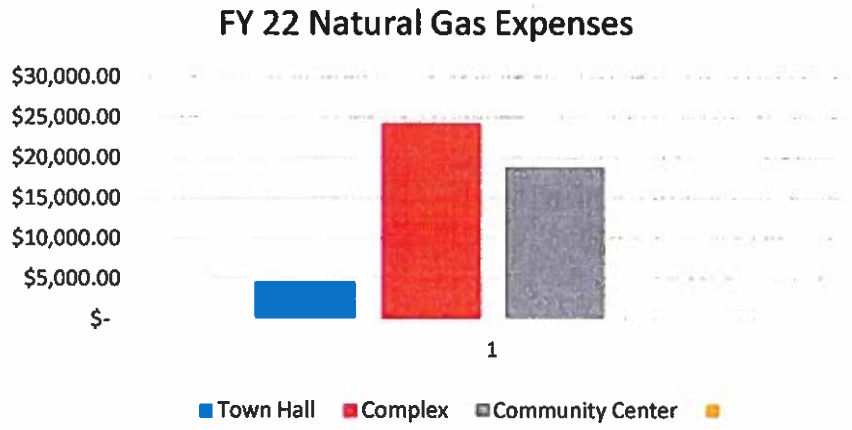
$130,000
*Includes Gas

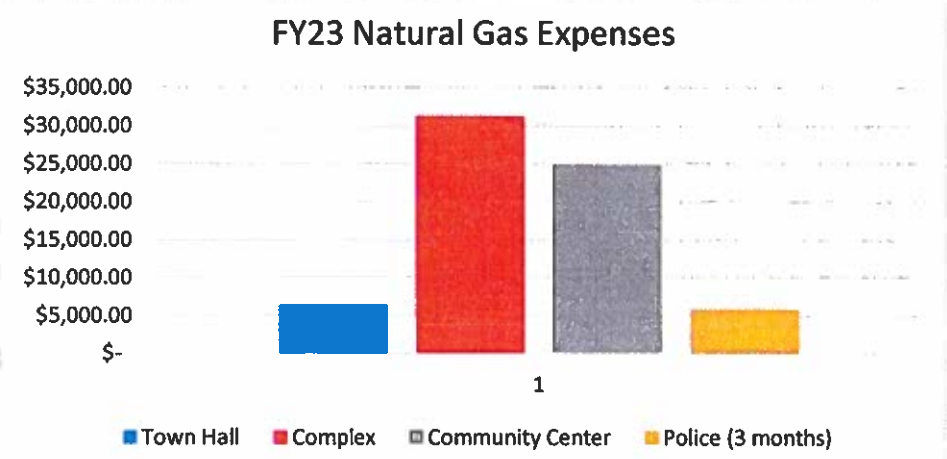
FY25 Request **$30,000**

10111-52091 – Natural Gas (proposed new line item)

We were instructed last year to separate natural gas from heating oil for a clearer picture. Currently there is natural gas at the Community Center, Police Dept., Public Safety, Municipal Complex and Town Hall.

FY25 Request **$95,000**


FY 22 Natural Gas Expenses
$30,000.00
$25,000.00
$20,000.00
$15,000.00
$10,000.00
$5,000.00
$-
1
Town Hall
Complex
Community Center

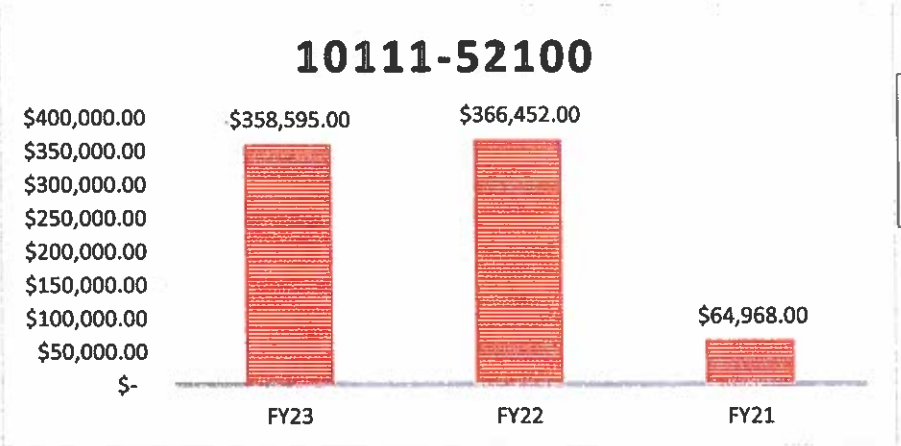

FY23 Natural Gas Expenses
$35,000.00
$30,000.00
$25,000.00
$20,000.00
$15,000.00
$10,000.00
$5,000.00
$-
1
Town Hall
Complex
Community Center
Police (3 months)

10111-52100 Electricity

The Town purchases electricity (generation, not distribution) through the Connecticut Conference of Municipalities (CCM) Purchasing Program. This program is designed to assist Towns in selecting the best available rates and contract terms for purchasing electricity. The kilowatt hour rate includes the CCM program participation fee. Electricity charges also include a distribution rate which is set by Eversource. The proposed budget for electricity in FY25 is based on the average paid so far in FY24 by this Department as well as the amount moved from Recreation & Parks budget.

Breakdown for Buildings:

	EVERSOURCE CHARGES	KWH HOURS USED ANNUAL	SUPPLY	DELIVERY
Electric				
Town Hall - 15 Rope Ferry Road	$45,419.29	280320	$25,761.41	$19,654.88
Police Dept - 41 Avery Lane	$61,006.45	364309	$33,415.00	$27,403.17
Dispatch - 204 Boston Post Road	$25,793.52	168615	$15,536.70	$10,308.72
YSB - 200 Boston Post Road	$14,761.45	85251	$7,832.12	$6,891.36
Community Center - 24 Rope Ferry Road	$57,916.16	101952	$28,602.21	$29,313.95
Library - 49 Rope Ferry Road	$28,380.64	138480	$12,726.32	$15,674.85
Municipal Complex - 1000 Hartford Turnpike	$49,278.17	270,089	$24,712.81	$24,360.81
Jordon Fire House - 89 Rope Ferry Road	$10,664.95	56761	$5,325.34	$5,359.61
Quaker Hill Fire - 17 Old Colchester Road	$8,580.80	38774	$3,599.35	$4,817.37
Goshen Fire Dept - 1 Palmer Road	$6,149.02	30470	$2,800.21	$3,648.81
Oswegatchie Fire Dept - 441 Boston Post Road	$13,567.15	88141	$7,579.92	$5,987.23
Cohanzie Fire Dept - 53 Dayton Road	$13,284.59	81135	$7,456.33	$5,828.17
TOTAL BUILDINGS	$334,802.19	1704297	$175,347.72	$159,248.93
MISC ELECTRIC ACCOUNTS	$ 23,793.00	15895		
TOTAL	**$358,595.19**			

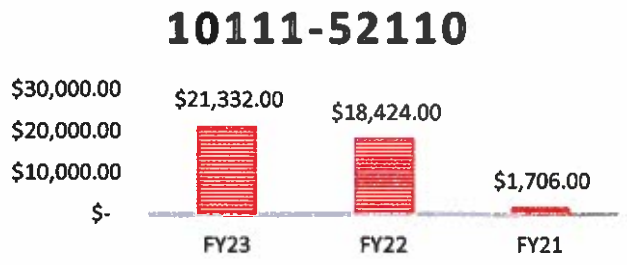


FY24 Budget
$398,278

FY25 Request **$ 375,000**

10111-52110 Water

This line item pays for water to Town Buildings and structures, including those locations moved from Recreation & Parks budget starting in FY25

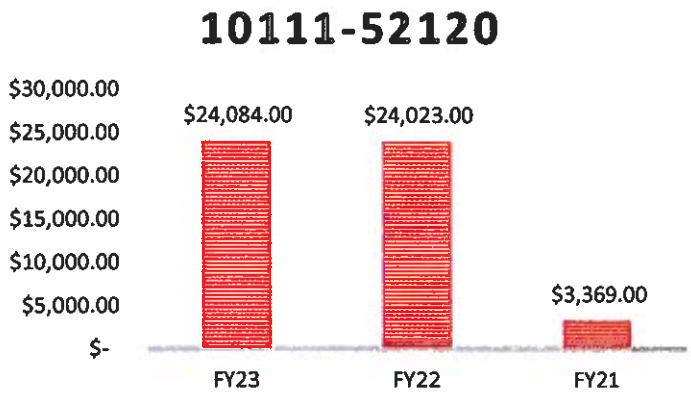


FY24 Budget
$15,725

FY25 Request $20,450

10111-52120 Sewer

50% of the sewer user fee is based on water consumption and 50% is a fixed cost related to the meter size. The requested amount is based on historic water consumption, plus the money moved from the Recreation & Parks budget.



FY24 Budget
$21,775

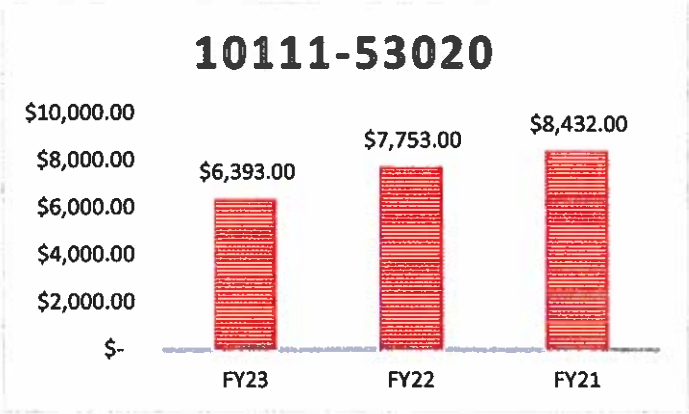
FY25 Request $24,415

5300 SERIES

10111-53020 – Other Supplies

Funds are used to pay for supplies related to building operation. This line item is now specifically for paper products needed for the Town Hall, Youth Service Building and the Municipal Complex.

OFFICE INVENTORY FY2023						
-	Description	Each	Order	Total	Cost	Value
	Towel Roll 1150 ft. Scott	6	23	138	$103.86	$2,388.78
	Towel 11X8 White	30	4	120	$39.70	$158.80
	Kitchen Towel Roll White	12	6	72	$41.28	$247.68
	Toilet Tissue Compact Coreless	36	22	792	$90.85	$1,998.70
	Tissue compact coreless roll	18	8	144	$70.72	$565.76
	Facial Tissue	30	2	60	$49.55	$99.10
	Hand wash Foam	2	24	48	$54.18	$1,300.32
	Purell Hand Sanitizer	2	4	8	$76.51	$306.04
	Liner Can Clear 24X33	10	4	40	$31.95	$127.80
	Liner Can Natural 24X33	20		0	$44.50	$0.00
	Liner Can Natural 40X48	10	2	20	$55.70	$111.40
	Liner Can Black 38X58	10	8	80	$49.62	$396.96
	Bags Waxed for Sanitary Napkin	10	2	20	$34.80	$69.60
	Urinal Screen	1		0	$13.10	$0.00
	Liner Can 23X31	20	4	80	$40.10	$160.40
						$7,931.34



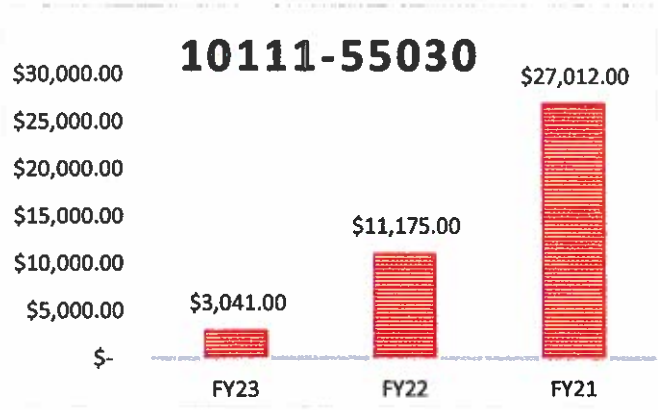
FY24 Budget
$6,000

FY25 Request **$8,000**

5500 SERIES

10111-55030 – Building Improvements

This line is used to pay for repairs to Town buildings for items that are not covered in preventive maintenance contracts. These funds cover materials for work completed for both materials and work performed by either BOE labor or outside contractors hired to complete specialty work. These projects are managed by Building Maintenance. This year we will focus on ADA exiting of the auditorium as well as improvements to the ramp inside Town Hall.



FY24 Budget
$5,000

FY25 Request **$ 25,000**

TOWN OF WATERFORD
FY2025 BUDGET REQUEST
Building Maintenance

These figures were supplied to us for history of the accounts we acquired from the Recreation & Parks Department.

Electric: CL&P and TransCanada incl.	FY'22	FY'23	FY'24
Civic Triangle/Vets Memorial Field	$1,000	$995	$1,250
Nevins Cottage	$120	$58	$50
Gazebo	$570	$560	$850
Jordan Park House + Street Light	$1,000	$952	$1,250
Leary Park	$1,150	$1,075	$1,500
Lisa Dedrick Field (Cohanzie)	$585	$583	$700
Mago Point	$1,100	$1,100	$1,500
Miner Lane Salt Shed	$528	$540	$700
Town Hall Basektball Courts	$875	$800	$1,100
Veteran's Maintenance Garage/Public Restroom	$2,300	$2,276	$3,000
Jordan War Memorial Park	$185	$183	$300
Town Hall War Memorial Park	$200	$188	$450
Waterford Beach Park			
Maintenance Building & Gatehouse	$1,005	$1,030	$2,200
Pavilions/Bathrooms/Concerts	$545	$1,500	$3,000
SUB TOTAL	$11,163	$11,840	**$17,850**

Heat			
Pricing: **$2.79** PAGE	FY'22	FY'23	FY'24
Jordan Park House - **$2.79** x 550 gallons	$919 ($1.67	1,359 ($2.4	$1,535
Annual Furnace Cleaning Parts(BOE performs service)	$50	$50	$50
Propane: **$3.71** PAGE			
Veteran's Maintenance Garage/Public restroom			
average 1050 gal/yr	2972($2.81	2,935 ($2.8	$3,896
Waterford Beach Park			
average 975 gallons	2750 ($2.81	2,760 ($2.8	$3,617
20	**SUB TOTAL**		**$9,098**

TOWN OF WATERFORD
FY2025 BUDGET REQUEST
Building Maintenance

Water	FY'21	FY'23	FY'24
Civic Triangle/Vets Memorial Field	$600	$590	$600
Jordan Park House	$80	$77	$80
Leary Park	$170	$171	$180
Lisa Dedrick Field (Cohanzie)	$475	$500	$500
Mago Point	$130	$126	$150
Ridgewood Park	$100	$90	$95
Veteran's Maintenance Garage/Public Restroom	$615	$600	$620
Waterford Beach Park			
Maintenance Building/Causeway Bathroom	$600	$800	$850
Pavilion/Group Picnic Bathroom	$55	$55	$55
Fire service 8" charge	$1,595	$1,595	$1,595
SUB TOTAL	$4,420	$4,604	**$4,725**

Sewer	FY'22	FY'23	FY'24
Jordan Park House	$200	$195	$200
Veteran's Maintenace Garage/Public Restroom	$1,175	$1,175	$1,175
Waterford Beach Park- Septic Tank cleaning (2)	$650	$650	$650
Dedrick Field	$750	$615	$615
SUB TOTAL	$2,775	$2,635	**$2,640**

TOWN OF WATERFORD
PROPOSED REVENUE BY DEPARTMENT
GENERAL FUND
2024-2025 FISCAL YEAR

All revenues from each department must be listed in the following categories. Please add any revenue lines that are not listed below.

DEPARTMENT: Building Maintenance

LINE ITEM	2021-2022 ACTUAL	2022-2023 ACTUAL	2023-2024 EXPECTED	2023-2024 YTD	2024-2025 PROPOSED	VARIANCE
Waterford Board of Education	63,937	67,795	73,218	**73,218**	**75,927**	**2,709**
Shared Use of Town Hall						**0**
						0
						0
						0
						0
TOTALS	**$ 63,937.00**	**$ 67,795.00**	**$ 73,218.00**	**$ 73,218.00**	**$ 75,927.00**	**$ 2,709.00**

TOWN OF WATERFORD
GENERAL FUND
2024 - 2025 PROPOSED BUDGET

DEPT/AGENCY: 10130 PUBLIC WORKS

LINE ITEM	DESCRIPTION	2022/2023 ACTUAL EXPENDED	2023/2024 RTM APPROP.	2023/2024 ADDITIONAL/ TRANSFERS	ACTUAL EXPEND & ENCUMB AS OF 1/1/24	2024/2025 DEPT/ AGENCY REQUEST	2024/2025 BD OF SELECTMEN APPROVED (2/5/24)	BOS Approved $ Increase	BOS Approved % Increase
PERSONNEL COSTS									
51110	ADMINISTRATION	339,575	338,287		168,853	360,257	360,257	21,970	6.49%
51130	ENGINEERING	0	5,558		0	5,558	5,558	0	0.00%
51210	CLERICAL/TECHNICAL	162,276	164,347		72,763	143,429	143,429	(20,918)	-12.73%
51510	EQUIPMENT MAINTENANCE	355,119	403,804		140,724	390,229	390,229	(13,575)	-3.36%
51520	HIGHWAY MAINTENANCE	814,093	927,036		397,976	920,994	920,994	(6,042)	-0.65%
51530	REFUSE COLLECTION & MAINT.	428,208	471,730		205,646	475,665	475,665	3,935	0.83%
51540	SNOW REMOVAL	26,578	56,000		0	56,000	56,000	0	0.00%
51810	OVERTIME	62,646	55,000		40,271	55,000	55,000	0	0.00%
51910	FRINGE BENEFITS	14,376	16,225		8,187	16,225	16,225	0	0.00%
51920	FICA	156,047	187,021		73,350	186,271	186,271	(750)	-0.40%
	SUBTOTAL	2,358,918	2,625,008	0	1,107,770	2,609,628	2,609,628	(15,380)	-0.59%
SERVICES									
52020	POSTAGE	606	400		509	800	800	400	100.00%
52030	PROFESSIONAL FEES	112,370	120,000		52,920	120,000	120,000	0	0.00%
52040	SERVICE CONT & REPAIRS	70,315	60,000		37,200	62,000	62,000	2,000	3.33%
52050	DUES, CONF. & EDUCATION	2,005	3,000		879	4,000	4,000	1,000	33.33%
52060	PRINTING	103	50		0	50	50	0	0.00%
52070	REIMBURSABLE EXPENSE	50	50			50	50	0	0.00%
52400	MEAL ALLOWANCE	808	2,300		72	2,000	2,000	(300)	-13.04%
52410	STREET TREE MAINTENANCE	0	500		500	5,000	5,000	4,500	900.00%
52450	SITE WORK	0	1,000		0	1,000	1,000	0	0.00%
52460	STREET LIGHTING	78,086	90,000		30,814	85,000	85,000	(5,000)	-5.56%
52470	SOLID WASTE DISPOSAL	874,192	940,000	(21,150)	330,874	1,019,932	1,019,932	79,932	8.50%
52475	RECYCLING PROGRAM	0	200		0	500	500	300	150.00%
52510	RENTAL OF EQUIPMENT	9,453	5,000	20,000	12,115	20,000	20,000	15,000	300.00%
52531	LANDFILL CAP MAINTENANCE	28,200	23,000	1,150	6,748	25,000	25,000	2,000	8.70%
	SUBTOTAL	1,176,188	1,245,500	0	472,631	1,345,332	1,345,332	99,832	8.02%

TOWN OF WATERFORD
GENERAL FUND
2024 - 2025 PROPOSED BUDGET

DEPT/AGENCY: 10130 PUBLIC WORKS

LINE ITEM	DESCRIPTION	2022/2023 ACTUAL EXPENDED	2023/2024 RTM APPROP.	2023/2024 ADDITIONAL/ TRANSFERS	ACTUAL EXPEND & ENCUMB AS OF 1/1/24	2024/2025 DEPT/ AGENCY REQUEST	2024/2025 BD OF SELECTMEN APPROVED (2/5/24)	BOS Approved $ Increase	BOS Approved % Increase
MATERIALS & SUPPLIES									
53010	OFFICE SUPPLIES	307	325		137	350	350	25	7.69%
53030	OPERATIONAL SUPPLIES	18,681	18,000		9,695	18,000	18,000	0	0.00%
53050	ENGINEER EQUIP & SUPPLIES	261	300		0	300	300	0	0.00%
53070	AUTOMOTIVE REPAIRS	236,498	205,000		88,781	230,000	230,000	25,000	12.20%
53090	FUELS & LUBRICANTS	413,807	327,790		118,603	324,713	324,713	(3,077)	-0.94%
53100	TIRES	40,868	35,000		22,421	40,000	40,000	5,000	14.29%
53250	TRAFFIC CONTROL MATERIALS	15,519	20,000		10,636	25,000	25,000	5,000	25.00%
53300	HIGHWAY MATERIALS	67,018	170,000		81,359	160,000	160,000	(10,000)	-5.88%
	SUBTOTAL	**792,959**	**776,415**	**0**	**331,632**	**798,363**	**798,363**	**21,948**	**2.83%**
EQUIPMENT									
54050	AUTOMOTIVE EQUIPMENT	47,584	26,755		18,502	11,795	11,795	(14,960)	-55.91%
54060	OFFICE FURNITURE	2,205	0		0	0	0	0	#DIV/0!
	SUBTOTAL	**49,789**	**26,755**	**0**	**18,502**	**11,795**	**11,795**	**(14,960)**	**-55.91%**
IMPROVEMENTS									
55010	TOWN AID ROADS-IMPROVED	218,517	321,120		53,836	321,120	321,120	0	0.00%
	SUBTOTAL	**218,517**	**321,120**	**0**	**53,836**	**321,120**	**321,120**	**0**	**0.00%**
DEPARTMENT TOTAL		**4,596,371**	**4,994,798**	**0**	**1,984,371**	**5,086,238**	**5,086,238**	**91,440**	**1.83%**

TOWN OF WATERFORD
FY2025 BUDGET REQUEST
Public Works

ENGINEERING
RECYCLING
STREETS
TRASH

SIDEWALKS
TRANSFER STATION
ROADWAY
TRAFFIC

SNOW REMOVAL
DRAINAGE
SERVICE REQUESTS
FLEET MAINTENANCE

The focus for Public Works is to maintain our roads, our Fleet and Mobile Equipment, manage the collection and disposal of solid waste and equally important to;

- Achieve a high level of customer service
- Comply with enviromental operating permits
- Respond to emergency management incidents

Public Works is about community. Every day, the Department touches thousands of residents and businesses, through solid waste collections, recycling programs, stormwater management, resurfacing roads, sidewalks, snow removal and storm response, just to name a few.

Public Works also plays a vital role in advancing the quality of life by seizing the opportunity to build for the future. Focusing each project on the new methods of service delivery, we address our needs staying focused are what makes this community a great place to live and work.

One of our abilities is to perform regular public works duties and be ready at a moment's notice to react as first responders during natural disasters with a common goal, to get the community back functioning. What is readily not known is that the role of Public Works as a first responder was codified in when President George W. Bush issued Homeland Security Presidential Directive 5 (HSPD-5), Management of Domestic Incindents in 2003 stating that all agency types must work to operate under the same National Incident Management System (NIMS). Thus, Public Works departments are considered part of the official ranks of first responders by the General Emergency Management Agency's guidelines for disasters.

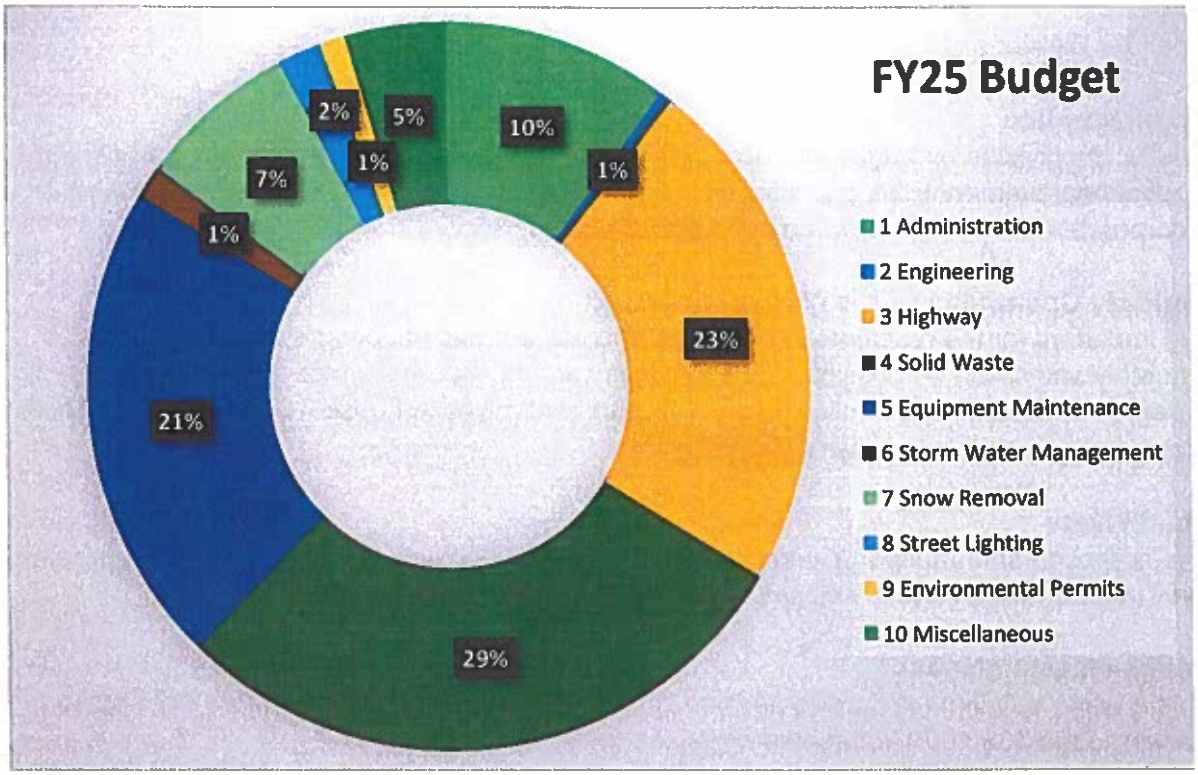
The costs of sanitation will provide us challenges in the raising costs of disposal. The Town, as members of the regional authority continue to enjoy cost effective disposal and recycling at the lowest tipping fees in the state, but tipping fees are increasing.

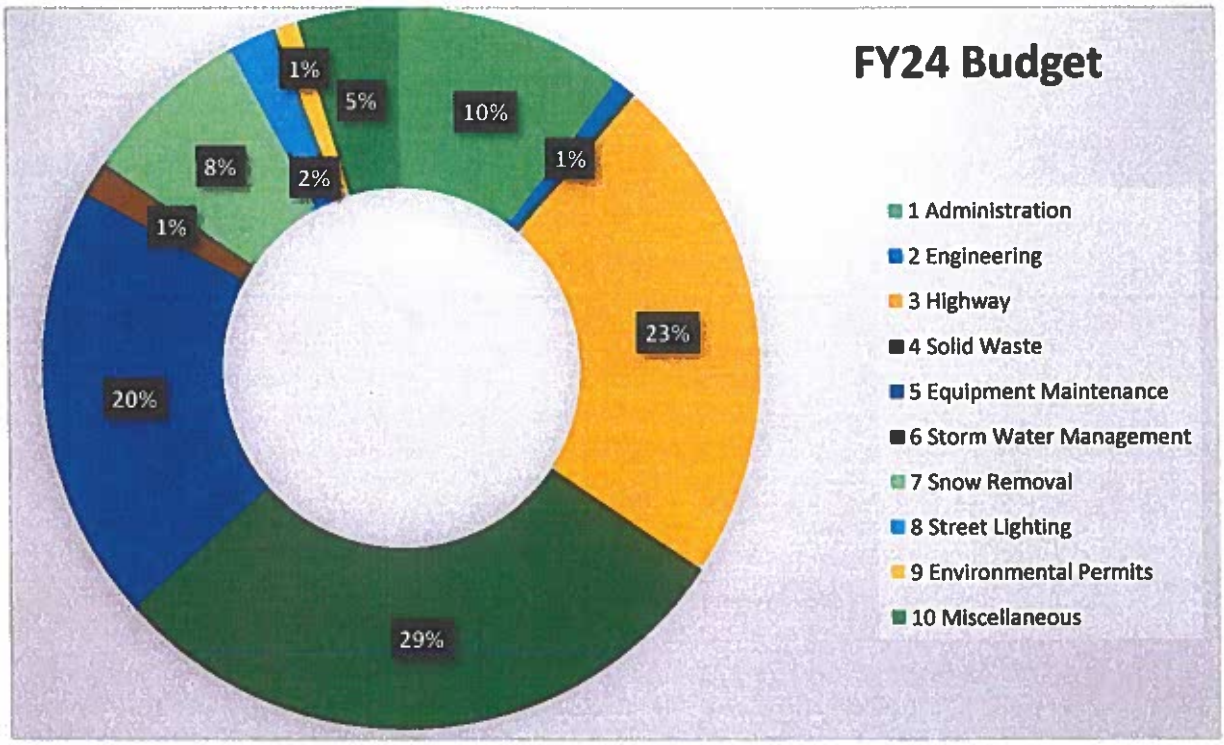
I believe the budget should be very clear what the funds are being requested for. I have put together a pie chart that shows the functional areas of the Public Works expenditures. I believe by grouping all the costs into these functional areas, it provides a clear snapshot of our responsibilities and the costs associated with them.

Budget Function

The budget is what is required to maintain the infrastructure. It is an operations budget with little flexibility. The Department is obliged to pay bills for waste disposal, environmental permitting and repairs. The roads must get plowed, diseased trees removed and our drainage systems kept clear.

TOWN OF WATERFORD
FY2025 BUDGET REQUEST
Public Works





The four Divisions of Public Works are:

Administration
Briefly, the division manages and accounts for our assets, manages personnel, prepares the Captial Improvement Plan, plans for emergency management and diaster mitigation and incorporates sustainable practices into public works practices.

Highway Operations (...it is not just the asphalt...)
It is important for the residents to have well-maintained roads to ensure that traffic flows as smoothly and safely as possible. This includes curbing, sidewalks tree care, drainage and mowing. In order to accomplish this, the Department mixes in-house with contracted work to provide a cost effective delivery of services.

Solid Waste
The collection and transportation of waste and recyclables to disposal sites and the operaton of the Transfer Station and the closed landfill all fall under this division.

Equipment Maintenance
This division's skilled mechanics perform services and reparis from the simple $125 weed wacker to the $390,000 automated collection truck.

FY2025 BUDGET

PERSONNEL COSTS

The personnel costs are based on actual costs, from current contracts, see attached Personnel Worksheet, pages 5-6

51110	**Administration**	**$ 360,257**
51130	**Engineering**	**$ 5,558**
51210	**Clerical/Technical**	**$ 143,429**
51510	**Equipment Maintenance**	**$ 390,229**
51520	**Highway Maintenance**	**$ 920,994**
51530	**Refuse Collection & Maintenance**	**$ 475,665**
51540	**Snow Removal (Overtime)**	**$ 56,000**
51810	**Overtime**	**$ 55,000**
51910	**Fringe Benefits**	**$ 16,225**
51920	**FICA** This is calculated on the attached Personnel Worksheet	**$ 186,271**
	DEPARTMENT PERSONNEL TOTAL	**$2,609,628**

TOWN OF WATERFORD
FY2025 BUDGET REQUEST
Public Works

TOWN OF WATERFORD
PERSONNEL WORKSHEET - 30 PUBLIC WORKS
2024-2025 FISCAL YEAR

LINE 51920

DATE OF HIRE	EMPLOYEE	HOURS WORKED/ WEEK	HOURLY RATE FY25	SALARY 2023/2024	SALARY 2024/2025	LONGEVITY FY25	TOTAL EMPLOYEE SALARY	PAYROLL TAXES (F.IC.A)
51110 - ADMINISTRATION								
11/04/2019	Director	40	N/A	122,425.68	125,969.04	N/A	125,969.04	9,636.63
04/22/2013	Assistant Director	40	N/A	115,625.12	118,971.63	$ 1,189.72	120,161.35	9,192.34
08/01/1983	General Foreman	40	N/A	108,476.16	111,615.61	$ 2,511.35	114,126.96	8,730.71
	TOTALS			346,526.96	356,556.28	3,701.07	360,257.34	27,559.69
51130 - ENGINEERING								
	AS NEEDED		N/A	5,558.00	5,558.00	N/A	5,558.00	425.19
	TOTALS			5,558.00	5,558.00	0.00	5,558.00	425.19
51210 - CLERICAL/TECHNICAL								
08/27/2001	Office Coordinator II	35	$ 37.0348	65,759.33	67,662.58	$ 500.00	68,162.58	5,214.44
07/31/2023	Clerk Typist III	35	$ 22.1140	38,448.23	40,402.20		40,402.20	3,090.77
06/11/2018	Clerk Typist III	35	$ 26.5267	45,963.60	48,464.33	$ -	48,464.33	3,707.52
	TOTALS			150,171.15	156,529.11	500.00	157,029.11	12,012.73
51510 - EQUIPMENT MAINTENANCE								
09/12/2011	Floor Leader - Mechanics	40	$ 47.4854	95,991.58	98,769.71	$ 250.00	99,019.71	7,575.01
03/15/2021	Mechanic	40	$ 33.7470	65,408.18	70,193.76	$ -	70,193.76	5,369.82
10/24/2011	Mechanic	40	$ 41.0197	82,921.07	85,320.90	$ 250.00	85,570.90	6,546.17
06/26/2023	Mechanic	40	$ 32.9774	64,970.88	68,592.96	$ -	68,592.96	5,247.36
VACANT	Mechanic	40	$ 32.1400	64,970.88	66,851.29	$ -	66,851.29	5,114.12
	TOTALS			374,262.60	389,728.61	500.00	390,228.61	29,852.49
51520 - HIGHWAY MAINTENANCE								
11/13/23	MAIN 2-Maintainer II	40	$ 24.1488	48,482.30	50,229.50	$ -	50,229.50	3,842.56
11/27/23	MAIN 2-Maintainer II	40	$ 24.1029	48,482.30	50,133.93	$ -	50,133.93	3,835.25
08/01/2023	MAIN 2-Maintainer II	40	$ 24.4704	48,482.30	50,898.47	$ -	50,898.47	3,893.73
06/17/2019	MAIN 2-Maintainer II	40	$ 27.8223	54,890.72	57,870.34	$ -	57,870.34	4,427.08
4/10/2023	MAIN 2-Maintainer II	40	$ 24.8610	48,482.30	51,710.80	$ -	51,710.80	3,955.88
02/01/2016	MAIN 3-Maintainer III	40	$ 29.9573	58,930.35	62,331.99	$ -	62,331.99	4,768.40
10/31/2022	MAIN 3-Maintainer III	40	$ 26.7254	52,018.17	55,588.77	$ -	55,588.77	4,252.54
06/03/2019	MAIN 3-Maintainer III	40	$ 27.7638	54,171.18	57,748.65	$ -	57,748.65	4,417.77
11/13/2006	MAIN 3-Maintainer III	40	$ 33.7470	68,219.42	70,193.76	$ 350.00	70,543.76	5,396.60
12/14/1998	MAIN 3-Maintainer III	40	$ 33.7470	68,219.42	70,193.76	$ 600.00	70,793.76	5,415.72
02/03/2014	MAIN 3-Maintainer III	40	$ 33.7470	68,219.42	70,193.76	$ 250.00	70,443.76	5,388.95
06/11/2007	MAIN 3-Maintainer III	40	$ 33.7470	68,219.42	70,193.76	$ 350.00	70,543.76	5,396.60
07/01/1998	MAIN 4-Maintainer IV	40	$ 37.2061	75,211.76	77,388.59	$ 600.00	77,988.59	5,966.13
03/20/2006	MAIN 4-Maintainer IV	40	$ 37.2061	75,211.76	77,388.59	$ 350.00	77,738.59	5,947.00
03/20/2006	MAIN 4-Maintainer IV	40	$ 37.2061	75,211.76	77,388.59	$ 350.00	77,738.59	5,947.00
06/08/2015	TDC TECH-Traffic Device Control	40	$ 29.0987	56,124.22	60,525.31	$ 250.00	60,775.31	4,649.31
01/30/2012	TOOL KPR-Toolkeeper	40	$ 33.7470	68,219.42	70,193.76	$ 250.00	70,443.76	5,388.95
	S MAINT-Seasonal Maintainer	LUMP 400	$ -					
	S MAINT-Seasonal Maintainer	LUMP 400	$ -					
	subTOTAL			1,036,796.26	1,080,172.32	3,350.00	1,083,522.32	82,889.46
	15% of Maintainance line moved to Refuse to cover time off						162,528.35	12,433.42
	TOTAL						920,993.97	70,456.04

TOWN OF WATERFORD
FY2025 BUDGET REQUEST
Public Works

51530 REFUSE COLLECTION & MAINT.								
08/11/2014	Recycle Route Operator	40	$ 33.7470	59,020.32	70,193.76	$ 250.00	70,443.76	5,388.95
02/24/2014	Recycle Route Operator	40	$ 32.1400	62,650.38	66,851.29	$ 250.00	67,101.29	5,133.25
04/04/2022	Refuse Truck Driver	40	$ 27.7638	54,171.18	57,748.65	$ -	57,748.65	4,417.77
07/17/2023	Refuse Truck Driver	40	$ 27.0546	53,451.63	56,273.61	$ -	56,273.61	4,304.93
10/21/2019	Refuse Truck Driver	40	$ 28.6200	56,124.22	59,529.70	$ -	59,529.70	4,554.02
	subTOTAL			285,417.73	310,597.00	500.00	311,097.00	23,798.92
	15% of Maintainance line moved to Refuse to cover time off						162,528.35	12,433.42
	TOTAL						473,625.35	36,232.34
51540 - SNOW REMOVAL								
	Previous years actual/estimate		approved FY24	56,000.00	56,000.00	$ -	56,000.00	4,284.00
	TOTALS			56,000.00	56,000.00	0.00	56,000.00	4,284.00
51810 - OVERTIME	calculated based on actuals as of 11/04/23			95,000.00	75,000.00	0.00	55,000.00	4,207.50
51910 - FRINGE/F.I.C.A.							16,225.00	1,241.21
TOTALS				2,349,732.71	2,430,141.32	8,551.07	2,434,917.39	186,271.18
BUDGET TOTAL W/F.I.C.A							2,621,188.57	

WORKDAYS 2024/2025	WEEKS TO BUDGET
261	52.2

TOWN OF WATERFORD
FRINGE BENEFITS WORKSHEET - 30 PUBLIC WORKS
2024-2025 FISCAL YEAR

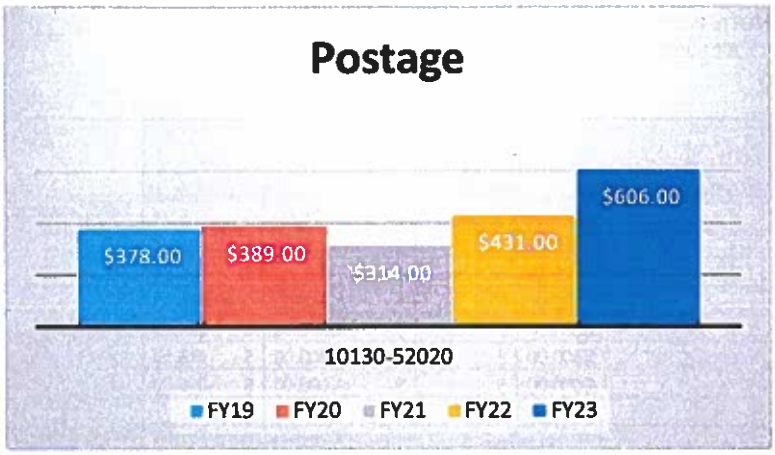
			LINE 51910	LINE 51920	
POSITION	CLOTHING ALLOWANCE	HRA FUNDING	TOTAL FRINGE BENEFITS	PAYROLL TAXES (F.I.C.A)	
Director	$ 75.0000	$ -	$ 75.00	$ 5.74	
Assistant Director	$ 75.0000	$ -	$ 75.00	$ 5.74	
General Foreman	$ 75.0000	$ -	$ 75.00	$ 5.74	
17 employees - 51520	$ 5,100.00	$ -	$ 5,100.00	$ 390.15	
5 employees - 51530	$ 1,500.00	$ -	$ 1,500.00	$ 114.75	
27 - 1303 CONTRACT SAFETY SHOES	$ 5,400.00	$ -	$ 5,400.00	$ 413.10	
mechanic uniforms & cleaning - 51510	$ 4,000.00	$ -	$ 4,000.00	$ 306.00	
			$ -	$ -	
TOTALS - FRINGE BENEFITS			16,225.00	1,241.21	***ADDED TO FICA ON PERSONNEL WORKSHEET

5200 Services

52020 Postage:

The postage requirements of Public Works have typically been for daily correspondence, mailing of equipment bid packages and bid correspondence and confirmation of Bulky Waste appointments. We also mail notices of projects to all residents adjacent to a construction site. This allows for greater awareness of project schedules and potential impacts to residents. Stamps will be going up to .68 cents for First Class mail as of January 1, 2024.

		Stamp Price
FY19	$378	(.50)
FY20	$389	(.55)
FY21	$314	(.55)
FY22	$431	(.58)
FY23	$606	(.60)



FY24 Budget
$400.00
(.63)

5 year average $424

FY 25 Request $800

52030 Professional Fees:

This appropriation as requested is to provide professional support to the Public Works function. In all projects, certain specific technical review is required to be provided from this appropriation as follows:

Employment Physicals & Random Drug/Alcohol testing- New employees and seasonal employees are provided a physical prior to starting work with the Town. Random drug and alcohol testing is performed on a quarterly basis for employees that hold a Commercial Driver's License (CDL). (Federal Requirement) **$5,800**

OSHA required audiology yearly tests. **$1,120**

Engineering/Architectural Fees and general on-call services - The Town has in place several on-call consultants that departments use for multiple services. **$12,500**

Catch Basin Cleaning: There are approximately 3200 catch basins, of which, 3,000 are under the MS4 mandate. The program contracts out the cleaning of approximately 1,000 catch basins each year. In FY24 the cost per basin was $25.35/each. **$25,350**

MS4 Permit Compliance: – Since 2004, the Town has been in compliance with general permit for Municipal Separate Storm Sewer Systems (MS4). The Town now falls under the new general permit (effective July 2017) with expanded requirements. DEEP has re-issued the permit and it will expire on September 30, 2025.

The Town will continue with the services of a consultant, to assist the Town in remaining compliant with the MS4 General Permit plan. Although Town staff will perform tasks whenever possible, many of the activities are technical or time sensitive.

Activities associated with mandated requirements in general are:

- Water Quality Sampling
- Review of Waterford's Stormwater Management Plan for compliance
- Ongoing inspections of catch basins and stormwater facilities
- Complete mapping of 15" diameter piping or less of the storm drainage system

MS4 Total **$50,000**

Environmental Compliance:
In addition to the MS4 permit, the Department is responsible for numerous environmental permits and regulatory obligations.

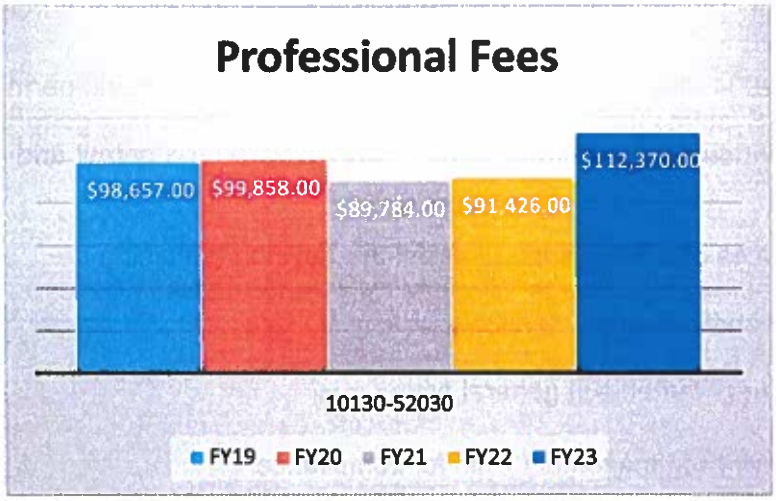
General Permits for the Discharge of Stormwater Associated with the Industrial Activity Permits (2), one at the Municipal Complex and another at the closed Miner Lane Landfill. In order for the Town to be in compliance with the regulations put forth by the DEEP, the Department requests funds for required environmental projects.

Environmental Total **$ 25,250**

Summary of Professional Fees:

Employment Physicals & Random Drug Testing	5,800
Hearing tests	1,120
Engineering/Architectural Fees	12,500
Catch Basin Cleaning	25,350
DEEP MS4 Compliance	50,000
Environmental Compliance	25,250
	$ 120,020

FY19	$ 98,657
FY20	$ 99,858
FY21	$ 89,784
FY22	$ 91,426
FY23	$112,370



FY24 Budget
$120,000

5 year average $98,419

FY 25 Request $ 120,000

52040 Service Contracts and Repairs:

Service contracts are for specific services which are either specialized, infrequent and cannot be performed by staff. These contracts or services are listed below.

- Traffic Signal Service – The Town has the responsibility to maintain the signals at the intersections of Cross Road with Parkway North and South, as well as the light at the Millstone Nuclear Power Station. Periodically the signals malfunction and a service call has to be made to the repair company by the Police Department Dispatch Center.
  $10,000

- The streetlights need maintenance for when they fail, or are knocked down.
  $15,000

- Office and Maintenance Equipment (leased and maintenance agreements) Public Works leases our photo copier, through a contract set up by the Purchasing Agent. The cost is approximately $163 a month, plus a charge for extra copies.
- The time clock also has yearly charges.
- The Vehicle Maintenance tank leases are for bottled industrial gases.
  $3,025

- Annual Services – There are 3 oil/water separators that need to be cleaned out annually. The scale also must be inspected yearly to meet requirements set forth by the State.
  $12,000

- Life Safety / Safety – Each truck has a fire extinguisher and inspections, maintenance and repairs are needed yearly. Mandated inspection of mobile and stationary lift equipment, harnesses, lifting slings & shop cranes are required by OSHA.
  $5,000

- Monthly Service – The department pays for phones for 5 staff members. This charge includes the charges for 3 I-Pads that the departments uses in the field. This also covers the cost of the cable connection at the municipal complex.
  $5,000

- On-Call Service Fixed Equipment - This is for equipment not permanently affixed to the building. (i.e. hot water heater in the wash bay)
  $10,000

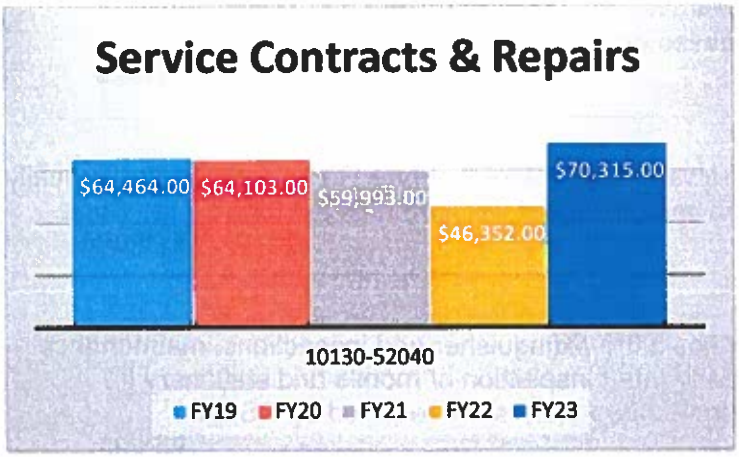
TOWN OF WATERFORD
FY2025 BUDGET REQUEST
Public Works

Our requests for Service Contracts & Repairs are as follows:

	Cost/year
Traffic Signals	$ 10,000
Street Light Repairs	$ 15,000
Leased Office and Maintenance Equipment	$ 3,025
Annual Services	$ 12,000
Life Safety / Safety	$ 5,000
Monthly Service	$ 5,000
On-Call Service Fixed Equipment	$ 10,000
	$ 60,025

The five year average for this line item is as follows:

FY19	$64,464
FY20	$64,103
FY21	$59,993
FY22	$46,352
FY23	$70,315



FY24 Budget
$60,000

5 year average $61,045 **FY 25 Request** **$ 62,000**

52050 Association Dues & Conferences:

Dues and Professional Fees:	
NICET Cert. Ass't. Director	$ 185
Training/Certs.for Ass't. Director (ACI, NETTCP)	1,800
American Public Works Assoc.(APWA) Director	205
CT.Assoc.Street & Hwy.Officials (CASHO) Director	50
Tree Warden Assoc. Director	60
	$ 2,300

Conferences / Training Seminars:

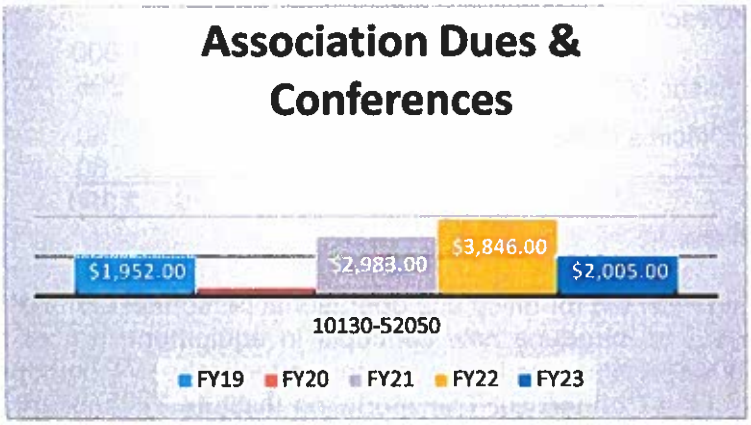
All workshops and training selected for office and operational personnel are related to job functions and are intended to introduce new concepts in equipment, procedures and policies that Public Works operations can provide more effectively. Workshops for the staff are provided through the Connecticut Transportation Institute Technology Transfer Center (T2), American Public Works Association (APWA). Also, we receive training through the Human Resources Department.

The Department would like to begin to send staff to an extensive training course through UCONN T2 center for the Public Works Academy. The cost for that program is $400/per person and includes multiple subjects to become a Road Scholar. I have included information on this training on page 38.

Annual OSHA Requirements for DPW Personnel:
Confined Space
Lockout/Tag out
Blood borne Pathogens
Hazmat
Protective Personnel Equipment
Bucket Truck / Forklift Certification – Every 3 years
Flagger Certifications – Every 4 years
DEEP - Class A & Class B certifications for Fuel Storage – Every 2 years (4 employees)

Other Technical Classes taken by DPW Staff:
ATSSA Traffic Safety Signs
Principals of Drainage
Managing Effective Teams
Mechanics Seminars for changing automotive techniques – 2 classes a year / 5 Mechanics
Transfer Station Volume Operator – DEEP required
Commercial Brake System
Air System Brake
ABS Brake Training

FY19	$1,952
FY20	$ 435
FY21	$2,983
FY22	$3,846
FY23	$2,005



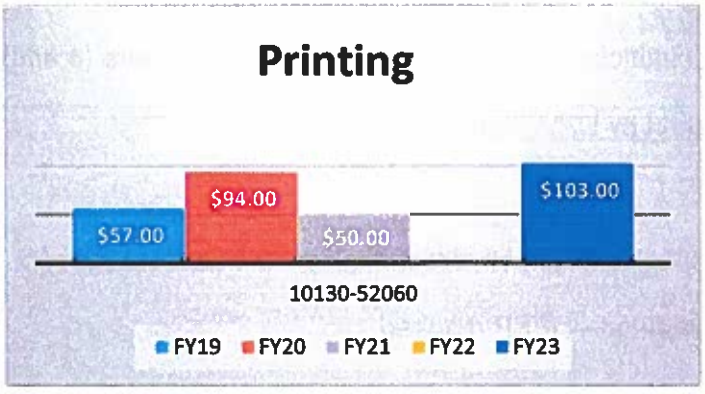
FY24 Budget
$3,000

5 yr. average $2,244 **FY 25 Request** **$ 4,000**

52060 Printing

The Town printing staff has been able to accommodate most of the Public Works printing requirements, at a reduced rate. The cost for the printing of the recycling calendars is .07 cents per color copy.

FY19	$57
FY20	$94
FY21	$50
FY22	$0
FY23	$103



FY24 Budget
$50.00

5 yr. average $61

FY 25 Request **$ 50.00**

52070 Reimbursable Town Expenses:

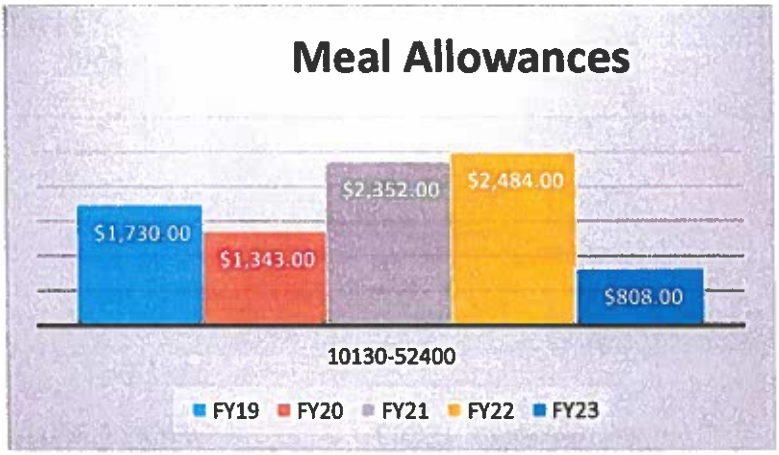
Includes unexpected out-of-pocket expenses

FY 25 Request $ 50

52400 Meal Allowances:

Meals are provided for all Local #1303 members required to work for emergencies such as snow removal. Expenditures are dependent upon the severity of the winter and the number of emergency responses each year.

FY19	$1,730
FY20	$1,343
FY21	$2,352
FY22	$2,484
FY23	$ 808



FY24 Budget
$2,300

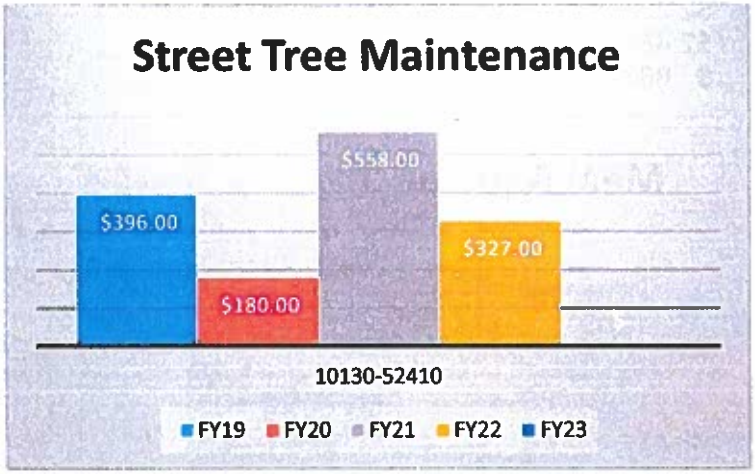
5 Year average $1,743 **FY 25 Request $ 2,000**

52410 Street Tree Maintenance:

The Town of Waterford has approximately 8,200 street trees along its 122 miles of roadways. At times there is a need to hire a Contractor to perform some of the trimming or tree removals. This is mostly due to excessive tree size, trees too close to structures or electrical lines. Eversource has assisted in the past with many removals, particularly around the power lines.

The average of the last three years is:

FY19	$ 396
FY20	$ 180
FY21	$ 558
FY22	$ 327
FY23	$ 0



FY24 Budget
$500

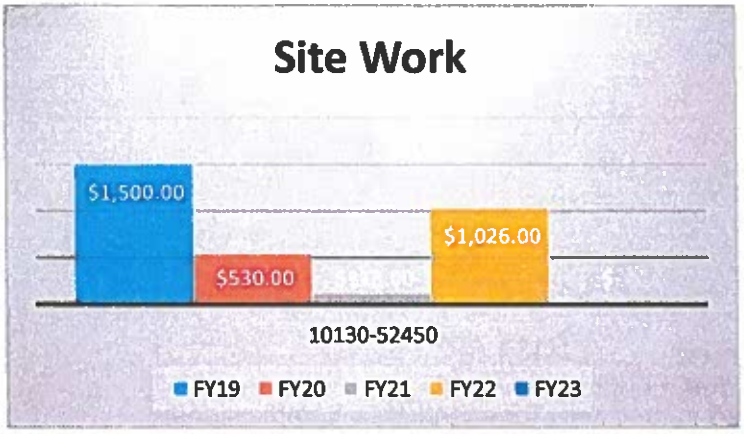
5 year average $292

FY25 Request $ 5,000

52450 Site Work:

This appropriation is requested for site repairs at the Municipal Complex such as miscellaneous landscape replacement, fence repairs, washouts and other site related improvements.

FY19	$1,500
FY20	$ 530
FY21	$ 113
FY22	$1,026
FY23	$ 0



FY24 Budget
$1,000

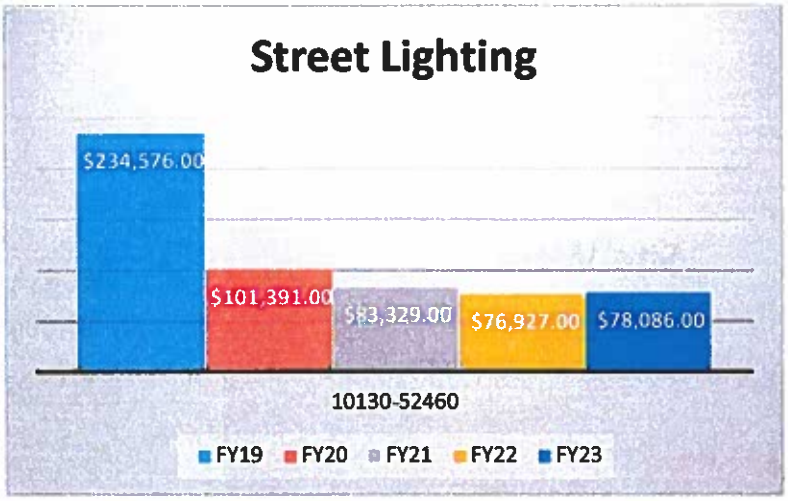
5 year average $ 634 **FY 25 Request $1,000**

52460 Street Lighting: Electricity Only

All non-metered street lighting is charged by Eversource based on the size of the street light. The Town is also responsible for the power to traffic signals at an intersection with Town and State roads.

There are 29 traffic signals. In most cases, the Town pays only the electrical usage and the State of Connecticut performs maintenance on them. Any signals at State road intersections are paid by the State and any private entrances to State or Town roads such as Stop & Shop at the Regal Cinemas are paid by the abutting property owner. There are 2,072 streetlights in Town.

FY19	$ 234,576
FY20	$ 101,391
FY21	$ 83,329
FY22	$ 76,927
FY23	$ 78,086



FY24 Budget
$90,000

5 year average $ 114,736*
*includes years prior to LED lights
Expecting increase in electricity for streetlights & traffic signals

FY 25 Request **$85,000**

52470 Solid Waste Disposal:

This Line Item is divided into two primary categories, services supported through a Municipal Services Agreement with the Southeastern Connecticut Regional Resources Recovery Authority (SCRRRA or the Authority) which the Town is a member of, and Town supported services. Both have costs and in some cases revenues associated with them. Waste generation tonnages may fluctuate significantly, making expenditures and revenues difficult to project.

The Schedule of Fees for the Transfer Station were last revised in November 2011. The Department is using this fee schedule for the estimate of revenues and charges for FY25.

A. Municipal Solid Waste

The Town brings all municipal solid waste to the Waste to Energy Facility located in Lisbon, CT in accordance with the Municipal Services Agreement with the Authority signed in October of 2019. The tipping fee or cost per ton has been established by the Authority at $67.81/Ton for FY25. Currently the Town is paying $63.00/Ton.

Listed below are the tonnages of record for the last five fiscal years.

FY	Curbside Collection Tons	Commercial Tons	Total Tons
19	7,326	5,267	12,593
20	7,510	4,745	12,255
21	7,776	4,834	12,610
22	7,529	4,602	12,131
23	7,477	4,296	11,773

We are using FY23 tonnage for this year

The proposed budget is 11,773 tons @ $67.81 **$ 798,327**

B. Single Stream Recycling

During FY23 we collected 1,959 tons of recyclables curbside. The Authority has taken on the cost for disposal of recyclable materials.

Recycling Collected Curbside	
FY19	2,202 Tons
FY20	2,022 Tons
FY21	1,658 Tons
FY22	2,031 Tons
FY23	1,959 Tons

What we collect from the curbside is taken to our compactor at the Transfer Station for disposal at Casella Waste in Willimantic for processing. Currently the compactor is rented from Casella Waste for $500/month. The contract is renewed each July and it is unknown if an increase will be proposed by Casella at this time.

$ 6,000

C. Bulky Waste (Transfer Station and Curbside Collection)

- Transfer Station: The Bulky Waste Transfer Station is located at the Municipal Complex. This facility serves only the Town of Waterford residents and businesses. A fee of $110/ton is charged for the disposal of the bulky waste.

  This resulted in a revenue of $106,161 for FY 23.

  We have a three year contract, starting in FY22, with a vendor to remove 1,000 tons of bulky waste a year at $105/ton. This contract also includes a price per pull (estimated at 67 pulls in one fiscal year) @ $450/each. **$135,000**

- Curbside Collection: We provide curbside bulky waste pickup and charge per the approved Fee Schedule. In FY23 we had 268 bulky stops.

  This resulted in a revenue of $5,360 in FY23.

D. Bulky Steel & Freon Removal

- Bulky Steel such as appliances, bicycles, siding, etc. are accepted at the Transfer Station. The value of scrap steel fluctuates greatly. Prior to processing appliances, all Freon refrigerants must be removed from the refrigerators, dehumidifiers, air conditioners, and be certified clean. SCRRRA includes Freon removal as part of services provided by the Authority to the member Towns at no cost.

- We received approximately $64,172 in revenues from scrap steel in FY23.

- Our 3 year contract starting in FY22 is in place with the Town receiving 71% of the auto bodies export price published in the New York American Metal market (1st issue of the month) but not less than $150/ton.

E. Yard Waste (Brush and Leaves)

- Leaves in biodegradable paper bags or loose may be deposited at the Transfer Station for free. Brush is also accepted. The Authority grinds the brush, at no cost to the Town. This allows the Town to provide the wood mulch for free to our residents. As the Authority provides this service to its 11 member town, at times, when a large quantity of debris accumulates, it is removed from the site to reduce the risk of fire. Leaves are transported by the Department to an out of town location.

- Revenues: We collected $16,164 for brush at the Transfer Station during FY23 and another $680 for curbside collection of brush totaling $16,844.

The appropriation requested for disposal is **$2,500**

F. Roll-Out Trash & Recycling Containers (Carts)

- These 96 gallon units are the roll out containers that the residents put their trash and recyclables in for their curbside pickup. We stock approximately 350 roll out containers as replacements and for new residents. Each household is able to have up to 3 blue & 3 green containers. The cost to the residents are $50 each and the Town delivers to the homeowner, if needed. We also stock parts to repair the carts, when possible. The original carts are beginning to break and the Town is having to replace these more often than ever before.
- The revenue from FY23 for these containers was $7,910.

The appropriation requested is **$ 50,000**

G. Street Sweepings / Catch Basin Cleaning

- The MS4 Stormwater permit requires monitoring and cleaning all catch basins and sweeping all streets once per year. We are responsible for 3200 catch basins and 240 lane miles of roads. This results in the disposal of approximately 375 tons of waste from the sweeping of roads and cleaning of catch basins.

- The estimated cost of disposal is $50/load x 500 loads = **$25,000**

H. Other costs associated with the operation of the Transfer Station

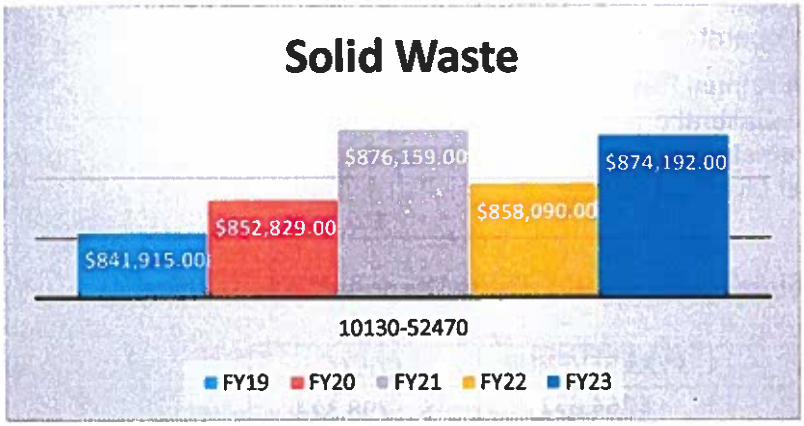
- These are related to the scale used for weighing vehicles in and out of the facility and the DEEP Permit to operate a Transfer Station. Those are:

DEEP Permit Annual Fee	$ 800
Annual Scale Calibration	$1,375
State scale registration fee	$ 250
Weigh Master Licenses for staff	$ 680
	$ 3,105

In summary, the appropriation requested for Solid Waste Disposal is as follows:

ITEM		FY23 REVENUE	COSTS
MSW (Tipping Fees)		$264,872	$ 798,327
Single Stream Recycling			$ 6,000
Bulky Waste (Transfer Station)		$106,161	$ 135,000
Bulky Waste (Curbside Pickup)		$5,360	
Bulky Steel (Scrap Metal)		$64,172	
Yard Waste/Brush		$16,844	$ 2,500
Roll Out Containers & replacement parts		$7,910	$ 50,000
Street Sweeping & Catch Basin Cleaning			$ 25,000
Scale Expenses/DEEP operating Permit			$ 3,105
TOTAL			$1,019,932

FY19 $841,915
FY20 $852,829
FY21 $876,159
FY22 $858,090
FY23 $874,192



FY24 Budget
$940,000

5 year average $860,637 **FY 25 Request** **$ 1,019,932**

52475 Recycling Program

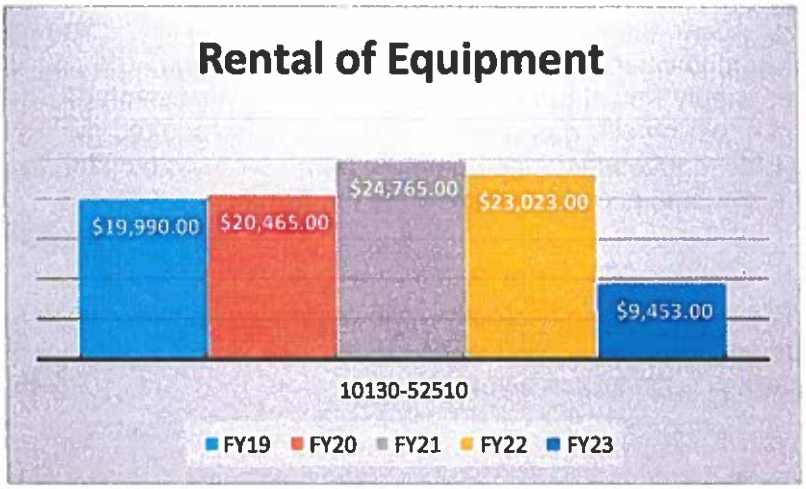
The Town purchases promotional items to inform and motivate residents to use less and recycle.

FY19	$250
FY20	$300
FY21	$0
FY22	$0
FY23	$0

5 year average $110 **FY 25 Request** **$ 500**

52510 Rental of Equipment:

There is, at times, the need to rent Public Works equipment to replace a large piece of equipment if it is down for an extended period of time for repairs. We have also been renting a skid steer to use for sidewalk snowplowing operations, as the machine we have is unsafe for employees. The paving project has been very aggressive and in an effort to keep the schedule with the water connections, we have rented a mini excavator for the Public Works portion of that project.



FY24 Budget
$5,000

FY19	$19,990		
FY20	$20,465		
FY21	$24,765		
FY22	$23,023		
FY23	$ 9,453		
5 year Average		$19,539	**FY 25 Request $ 20,000**

52531 Landfill Cap Maintenance

This line item includes all costs involving the closed, capped Waterford Landfill. The landfill (18 acres) has been officially closed since December 31, 2001. The DEEP permit requires the landfill to be maintained and monitored for 30 years after closure.

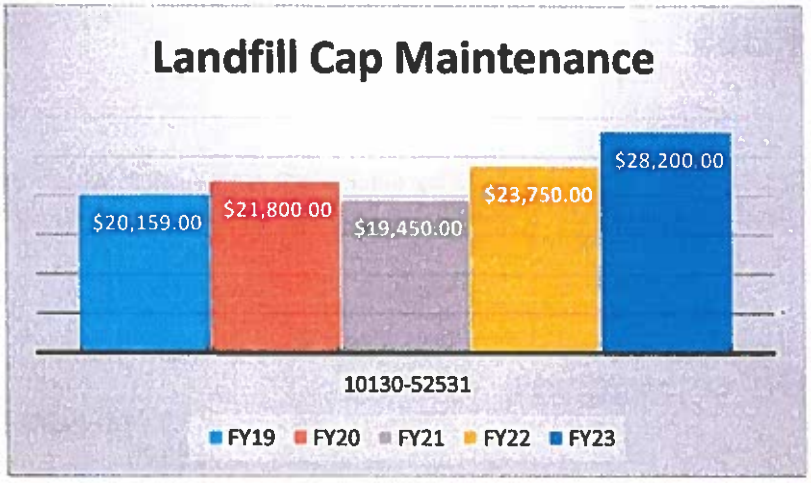
Landfill Well Monitoring – involves a monitoring program for testing, monitoring wells, domestic wells and surface water sites.

Currently, monitoring is performed twice a year, in November and May. The monitoring program consists of groundwater and surface water monitoring, plus the collection and sampling of the water supply well at the nearby pig farm. Decomposition gas monitoring is also required, at the two on-site gas ports. VOC testing is required during the May monitoring event. DEEP requires that a semi-annual report for each monitoring event be submitted, and also the submittal of an annual report in February. **$12,500**

Landfill Mowing – The closure Permit requires the landfill be mowed twice a year to prevent large vegetation growth and trees. The current bid for this work is $ 5,268 per mowing, and this mowing is done twice a year. **$ 10,536**

Landfill Maintenance There is a need for calcium chloride for dust control and bank run gravel for the approved processing pad and roadway access maintenance to a portion of the top of the closed landfill where we will continue to process brush and general yard waste. An allocation of $2,000 is requested for these items. **$2,000**

Summary	Landfill Monitoring	$ 12,500
	Landfill Mowing	10,536
	Landfill Maintenance	2,000
		$ 25,036



FY24, Budget
$23,000

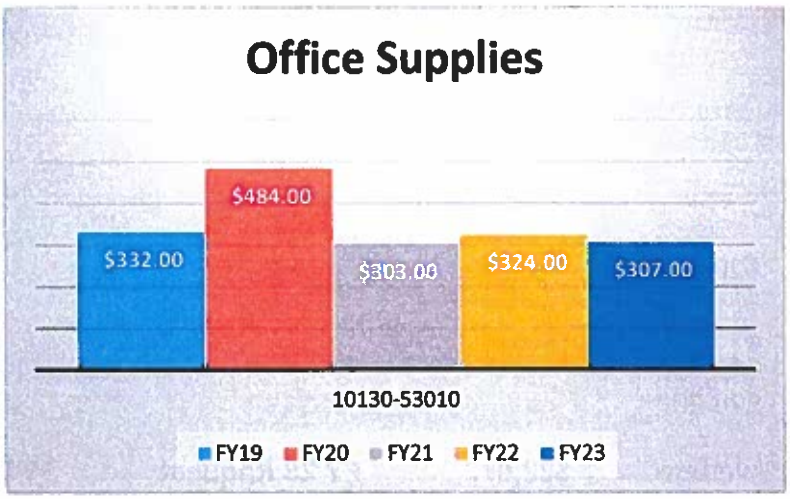
FY19	$20,159
FY20	$21,800
FY21	$19,450
FY22	$23,750
FY23	$28,200

5 year Average $22,672 **FY 25 Request** **$ 25,000**

MATERIALS & SUPPLIES

53010 Office Supplies:

This includes all office supplies not purchased by the Purchasing Agent, which are particular to departmental operations. These items include printing cartridges, diaries and other supplies.



FY24 Budget
$325

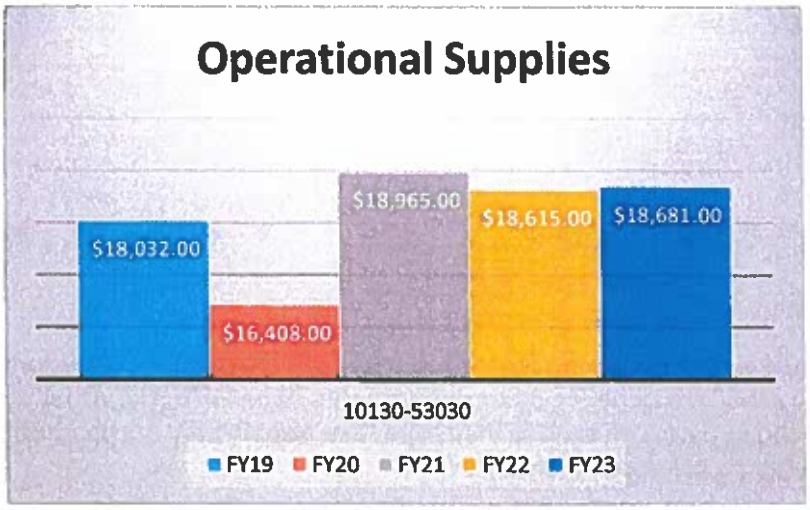
FY19 $332
FY20 $484
FY21 $303
FY22 $324
FY23 $307

5 year average $350

FY 25 Request $ 350

53030 Operational Supplies:

This line includes operational and various supplies. Operational supplies are hand tools, rain gear, safety equipment, chains, tarpaulins, paint, wiping rags, gloves, etc. used by highway maintenance personnel. Supplies include paper goods, trash bags, etc. and materials required for maintaining the Public Works Complex in an orderly manner. Equipment Maintenance supplies include specialized tools, safety gear, cleaners, oxygen, acetylene and welding accessories. Refuse Collection & Disposal supplies include gloves, wiping rags and other personal protective equipment.



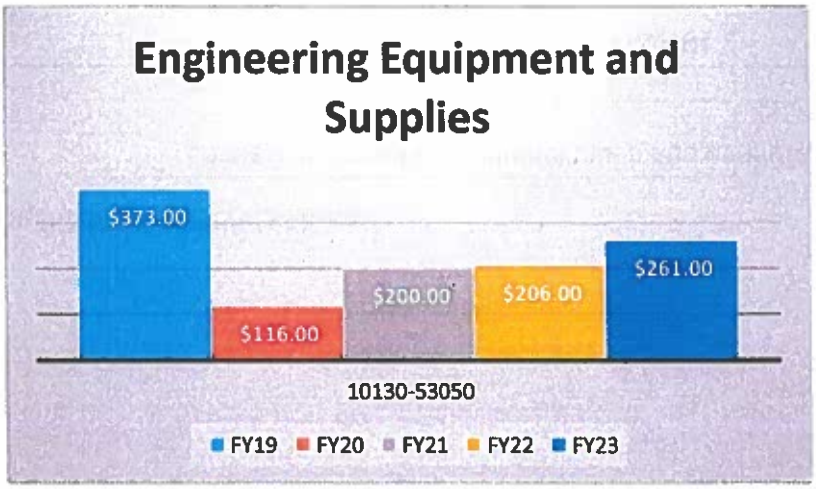
FY24 Budget
$18,000

FY19	$ 18,032
FY20	$ 16,408
FY21	$ 18,965
FY22	$ 18,615
FY23	$ 18,681

5 year average $18,140 **FY 25 Request $18,000**

53050 Engineering Equipment and Supplies:

This line item is for all expendable supplies used in the field by the staff, such as wooden stakes, paint, survey tape, etc. Also engineering equipment, engineering references, supplies such as plotting cartridges, paper and other appurtenances for software programs specific to engineering applications are purchased from this line item.



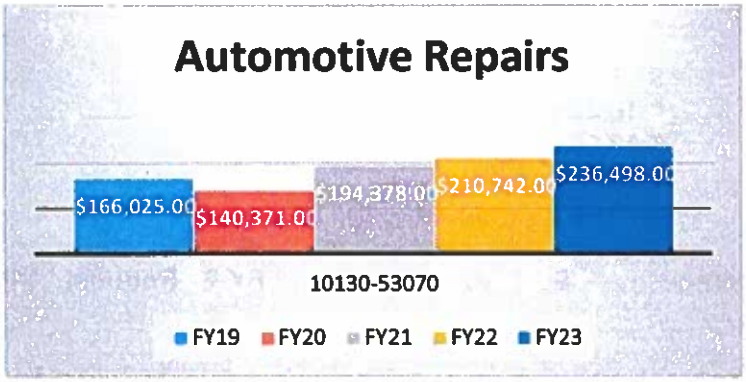
FY24 Budget
$300

FY19	$373
FY20	$116
FY21	$200
FY22	$206
FY23	$261

5 year average $231 **FY 25 Request $ 300**

53070 Automotive Repairs:

Includes all parts and sublet services required to maintain our pieces of equipment and vehicles. The repairs that are done for other departments have DPW perform the repairs, but the invoices for those parts are sent to the respective department for payment, except all administrative vehicles are paid for by DPW.



FY24 Budget
205,000

FY19	$ 166,025
FY20	$ 140,371
FY21	$ 194,378
FY22	$ 210,742
FY23	$ 236,498
5 year average	$ 189,603

The 5 year average doesn't take into account the pricing increases

FY 25 Request $ 230,000

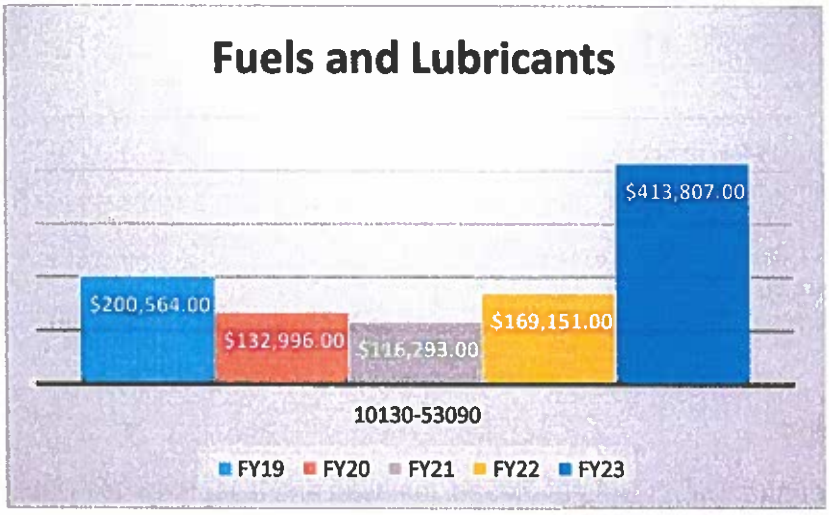
53090 Fuels and Lubricants:

This includes gasoline, diesel fuel, oils, grease and anti-freeze. Quantities shown below are the average usage for calendar years FY19 through FY23.

	FY19	FY 20	FY21	FY22	FY23
Unleaded (gal)	4,701	5,077	6,064	5,537	5,034
Diesel (gal)	64,462	59,995	62,516	60,414	57,240

5 year gallon averages
Unleaded – 5,283
Diesel – 60,925

Unleaded Fuel	5,283	**@2.4776/gallon**	=	$ 13,089
Diesel	60,925	**@4.35/gallon**	=	$265,024
Lubricants, DEF & Antifreeze			=	$ 46,600
			Total	$324,713



FY24 Budget
$327,790

FY19	$ 200,564
FY20	$ 132,996
FY21	$ 116,293
FY22	$ 169,151
FY23	$ 413,807

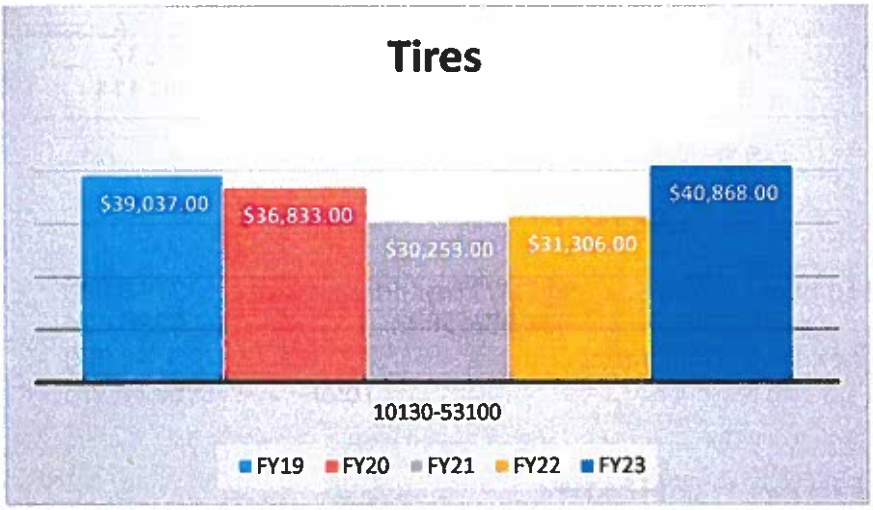
5 year average $206,562

Due to pricing fluctuations, we are using 5 year averages for product consumed instead of costs.

FY 25 Request $ 324,713

53100 Tires:

This appropriation is for purchases of new tires, recaps and tubes.



FY24 Budget
$35,000

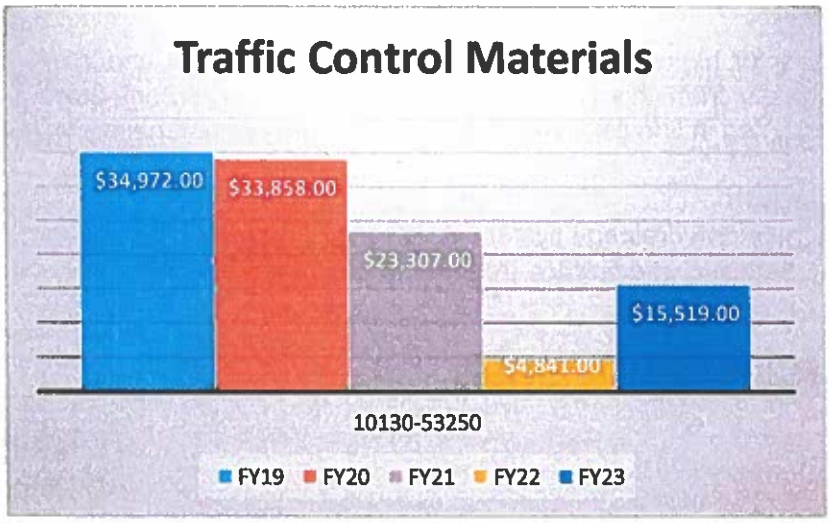
FY19	$ 39,037			
FY20	$ 36,833			
FY21	$ 30,253			
FY22	$ 31,306			
FY23	$ 40,868			
	5 year average	$35,659	**FY 25 Request**	**$40,000**

53250 Traffic Control Materials:

All traffic control and street name signs are purchased, installed and inventoried by Public Works staff, in consultation with the Police Department. Currently we maintain 1,944 Regulatory signs, 642 Warning signs, 12 Directional signs and 715 Street Name signs. Street sign sizes, lettering and symbols and reflectivity have been upgraded per the Federal Highway Administration (FHWA), as described in the Manual of Uniform Control Devices (MUTCD).

We maintain 521 Stop Bars, 44 Crosswalks, 4 Rail Road Crossing, 66 Turn Lane Arrows, and 30 Lane Dividers throughout the Town, using material purchased from this account.

All lane markings (center and edge markings) are contracted out. Water based centerlines are being replaced with epoxy paint on newly rehabilitated roads. Epoxy lasts approximately 5 years, while water based paint is repainted annually.



FY24 Budget
$20,000

FY19	$ 34,972
FY20	$ 33,858
FY21	$ 23,307
FY22	$ 4,841
FY23	$ 15,519

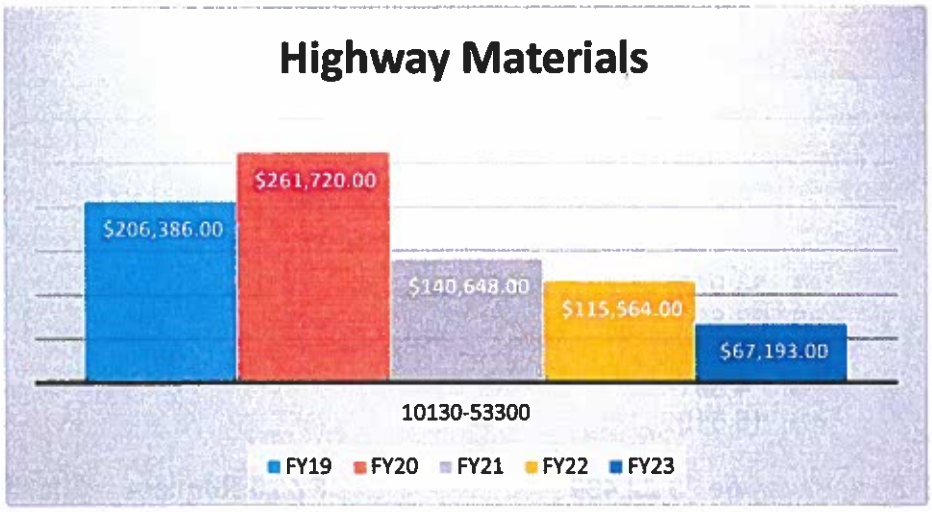
5 year average $ 22,499

FY 25 Request $25,000

53300 Highway Materials:

All materials utilized for highway maintenance, snow & ice control and small drainage projects are purchased from this line item as required to supplement State Town Aid appropriations presented in line item 10130-55010. Highway Maintenance includes:

- Guide rail repairs
- Repairs to the storm drainage system consisting of outfalls, pipe and catch basins.
- Crack seal, patching and surface treatments of asphalt surfaces



FY24 Budget
$170,000

FY19	$ 206,386
FY20	$ 261,720
FY21	$ 140,648
FY22	$ 115,564
FY23	$ 67,193

5 year average $158,302 **FY 25 Request $160,000**

EQUIPMENT

54050 Automotive Equipment:

The fleet is replaced through the Fleet Management Program funded individually outside the Public Works budget. Funds are necessary, however, for non-rolling stock items.

Non Rolling Stock: Many smaller or specialized pieces of motorized equipment not registered to be on the road also must be considered, such as chain saws, pumps, tampers and attachments which are essential to this department's operation. It also includes equipment for the Equipment Maintenance Division. The requests for non-rolling stock are broken down by divisions below.

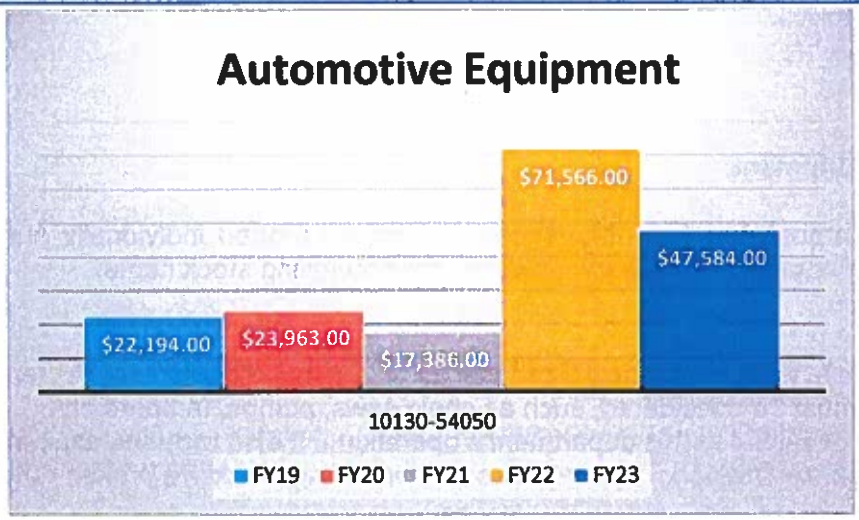
Highway Division

Misc. Small Tools for Highway	$ 4,000
Salsco Bucket	$ 7,000
	$ 1,100

Equipment Maintenance Division

5 Mechanics @ $500/each	$ 2,500
Small Tool repair/replacement	$ 5,000
1.5 ton pneumatic transmission/differential high lift jack	$ 3,195
	$10,695

Total Highway Division =	$ 1,100
Total Equipment Maintenance Division =	$ 10,695
	$ 11,795



FY24 Budget
$26,755

FY19	$ 22,194		
FY20	$ 23,963		
FY21	$ 17,386		
FY22	$ 71,566		
FY23	$ 47,584		
	5 year average	$36,539	**FY25 Request: $ 62,085**

54020 Office Equipment:

FY25 Request: $ 0

TOWN AID

55010 Town Aid - Improved Roads:

Town Aid funds are provided through a State of Connecticut allocation system to all municipalities for maintenance of Town roads. The 2024/2025 allocation to Waterford is estimated to be $321,120. We typically use these funds to purchase road salt and for roadway maintenance.

The total allocation requested is **$ 321,120**

The Board of Selectmen voted on 11/15/11 to make the following adjustment to the Transfer Station Fees effective July 1, 2012. Fees will be in effect all of FY 24.

IV. FEE SCHEDULE

A. The Board of Selectmen shall adopt a fee schedule, which will be effective for a minimum of one year from date of adoption unless circumstances warrant interim review.

B. SCHEDULE OF FEES

1. The Transfer Station **DOES NOT** Accept:
    1. Regular household trash, bottles & cans. These items are collected curbside during our normal weekly curbside collection.
    2. Household Hazardous Waste – Collection sites are provided Spring through Fall. Check newspapers or call Public Works for details.
    3. Grass Clippings: Compost or mulch on lawn.
    4. Rubble, stone, concrete, asphalt, dirt, stumps, rocks.

2. **COLLECTOR LICENSE FEE** – Annual $25 per truck

3. **TIRES**

Passenger Tires	$ 2/ea
Truck Tires 7:50 x 16 & up	$ 5/ea
Earth Moving Equipment Tires	$50/ea

4. **STUMPS**

Tree Stump (small) < 8"	No Longer Accepted
Tree Stump (large) > 8"	No Longer Accepted

5. **LOGS** $110/Ton

6. **BRUSH**

Pickup Truck	$ 5/load
Small Dump Truck/Small Dump Trailer(1-2 axle)	$10/load
Large Dump Truck	$15/load
Automobiles – Covered by passenger	

Load sizes for fee purposes are:

Pickup Truck	1 CY
Small Dump Truck/Small Dump Trailer (1-2 axle)	3 CY
Large Dump Truck	6 CY

Attendant will use judgment in setting fees for odd-size loads.

7. **DEMOLITION/CONSTRUCTION DEBRIS**

Demolition Debris/Shingles *$110/Ton*
$5.00 minimum Charge

8. **APPLIANCES**

Refrigerators, Freezers, Air Conditioners, Dehumidifiers	$15/ea

9. **OVERSIZED MSW (Curbside Pick Up Only)**

Sofas, Stuffed Chairs, Mattresses Box springs, Carpets	$10/ea

10. **ROLL OUT REFUSE CONTAINERS**

96 Gallon	$50
Rental	$10/month
Additional Containers 96 gallon	$50

Refuse Tipping Fee — $62/Ton for Municipal Solid Waste Delivered to SCRRRA in Preston by Contractors

Bulky Waste Curbside Collection

Call 860-444-5864 for information on how to get an appointment
$20/appt. for regular residential units. Plus applicable fees as shown above.

Brush Curbside Collection

Call 860-444-5864 for information on how to get an appointment
$20/appt. for regular residential units

Accounts over 30 days past due will accrue interest at 1.5% per month.

Accounts with a balance over 90 days will be suspended and access to the Facility will be denied until the balance is paid in full.

C. All fees shall be due and payable upon invoicing or may be paid immediately upon usage. Anyone with a balance due over sixty (60) days will be denied access to the disposal facility.

D. No charge will be made for:

1. Demolition material from a structure burned as Fire Department training
2. Used Motor Oil
3. Anti-freeze
4. Leaves (no plastic bags or grass clippings)
5. Batteries
6. Propane Tanks
7. Metal
8. Fluorescent Bulbs
9. Electronics Recycling

Computers; monitors, TV, Fax Machines, adding machines, printers, scanners, Stereos, speakers

E. Mixed loads of metal and oversized MSW shall be charged at the rate of *$110/Ton*

This is information for 10130-52050 – Education / Training

Public Works Academy

The Connecticut Public Works Academy is an introductory level training program for those public works staff that are new to public works and road maintenance. It is also an excellent opportunity to provide updated information on the latest in best practice and technologies to those employees new to professional development.
The program is comprised of a series of six (6) weekly sessions aimed at providing education on those core competencies necessary to be a successful public works professional. These sessions cover the following topics:

- Professionalism & Communication Skills
- Operational Safety
- Road Fundamentals
- Chainsaw Safety and Storm Clean Up
- Work Zone Safety and Flagger Certification
- Winter Operations and Safe Snow Plowing

Participants are required to complete all six (6) sessions in order to complete the Academy.

*The Academy is $400 per participant, for the series.

The following pages are backup for 10130-54050

United Ag & Turf NE
1376 Norwich Road
Plainfield, CT 06374
Phone: (860) 230-0130
Fax: (860) 230-0135
info@uatne.com

UNITED Ag & Turf
www.unitedagandturf.com

JOHN DEERE

PARTS QUOTATION

Invoice To Account No: 875273

TOWN OF WATERFORD
15 ROPE FERRY ROAD
WATERFORD CT 95386
US

Deliver To:

TOWN OF WATERFORD
15 ROPE FERRY ROAD
WATERFORD CT 95386

Home Ph: Mob Ph
Work Ph (860)444-5865

Quotation No: 1332957
Date: 10/27/2023
Page: 1 of 1

Supplied Quantity	Back Order Quantity	Part Number	Part Description	Bin Loc	List Price	Net Price	Extended Price
1.00	0	4283 011 1610 US	BR 600 X BACKPACK BLOWER	STIHL	649.99	649.99	$649.99
2.00	0	4180 200 0504 US	KM 111 R KOMBISYSTEM LOOP HANDL	STIHL	419.99	419.99	$839.98
2.00	0	4243 740 5007 US	FH KM POWER SCYTHE ATTACH 145 DI	STIHL	269.99	269.99	$539.98
2.00	0	1145 200 0308	MS 201 TCM 16 63PS3 4813 TOPHANDL		819.99	819.99	$1,639.98
1.00	0	4180 200 0506 US	FS 91 R TRIMMER LOOP HANDLE	STIHL	359.99	359.99	$359.99
1.00	0	5910 850 1100.	Tachometer EDT 9		44.49	44.49	$44.49
1.00	0	5203 750 7010	GRINDING WHEEL		8.49	8.49	$8.49
1.00	0	5202 750 7010	GRINDING WHEEL		8.99	8.99	$8.99
1.00	0	5203 750 7013	GRINDING WHEEL		8.49	8.49	$8.49
1.00	0	5203 750 7017	SHAPED GRINDING WHEEL		8.99	8.99	$8.99
1.00	0	PTSDISCOUNT	PARTS DISCOUNT ALLOWED		-410.93	-410.93	($410.93)

FY25

Customer PO No: STIHL QUOTE
Tax Exempt No: GOVT
Salesperson: DYLAN DESJARDINS
Delivery Note:

Sub Total:	$3,698.44
Sales Tax:	$0.00
Total:	$3,698.44
Deposit Received:	$0.00
Balance Due:	$3,698.44

EXCLUDES TAX

ALTA EQUIPMENT COMPANY

Alta Equipment Company
1897 Berlin Turnpike
Berlin, CT 06037

Proposal	Date	Expiration Date
QUO-05210-J4Z0K8	11/10/2023	12/10/2023

To Town of Waterford

Attention: Ken

Sales Rep: BRIAN MURRAY

Quantity	Product	Serial Number	Price
1	Salsco Side Dump Bucket- SSL Coupler		$7,000

Equipment Specification

OUTSIDE BUCKET DIMENSIONS:

84-1/2" Long x 30-1/4" Wide x 17" High

Just over 3/4 Cu. Yd. Capacity

Pricing Summary

Total Proposal (Before Tax)	$7,000
Sales Tax	n/a
Total	$7,000

FIFTEEN ROPE FERRY ROAD WATERFORD, CT 06385-2886

INTER-OFFICE CORRESPONDENCE

DATE: November 7, 2023

TO: Gary Schneider, Director of Public Works

FROM: Garon VanOverloop, Lead Fleet Mechanic

RE: FY25 Budget Request

For the FY25 budget year I am proposing the following maintenance shop continuations & improvements.

1. 1 ½ ton, pneumatic transmission/differential high lift jack. $3,195
2. Fore & aft lift kits with storage carts for our mobile vehicle lifts. This will allow one medium duty sized truck to be picked up with two lifts instead on four lifts. This will allow the shop to utilize the 6 mobile lifts on three different units simultaneously. $9,790
3. $5,000 small tool, repair and replacement line.
4. $40,500 to replace up to three all season body conveyor troughs that are found on the 5 ton dump/plow trucks. I will designate which units that need the trough replacement following their annual inspections.

Garon VanOverloop
Lead Fleet Mechanic

Snap-on Tools Quote

Quote Date - 8/22/2023 10:24:14

Stephen Besade & Sons,LLC
Sold By: Steve Besade
Address: 126 Fog Plain Rd P.O.BOX 771
WATERFORD, CT 06385-

Phone: 860-884-6007

Sold To: TOWN OF WATERFORD DPW
Address: 1000 HARTFORD ROAD
WATERFORD, CT 06385-

Phone: 860-444-5867

Account Type: RA
Invoice #: 082223110015Q

Tax Exempt #: EXEMPT

PO #: 220038

Part #	Qty	Description	Line Type	Price	Discount	Total	Tax
TJA100	1	1/2T AIR TRANS JACK	Sale	3,755.00	560.00	3,195.00	0.00

- Wear safety goggles
- Use the right tool
- Use the tool properly
- Maintain the tool regularly

SubTotal	3,195.00
0.00 % Tax	0.00
Freight	0.00
Grand Total	3,195.00

REMIT TO: STEPHEN BESADE & SONS,LLC
P.O.BOX 771 WATERFORD,CT 06385-0771

AccountType	Previous Balance	Balance as of	Purchases	Total	Payment	New Balance
RA	584.45		3,195.00	3,779.45	0.00	3,779.45

Your Next RA Payment Will Include:	0.00
Your Agreed Upon Weekly Payment Is:	13.80
Your Next RA Payment Will Be:	13.80

For value received, the Purchaser, as continuing security for the repayment of all obligations now or hereafter owing to the Franchisee, including, without limitation, the prompt payment, as and when due, of the purchase price of the PMSI Collateral (as hereinafter defined), and the performance of all of the obligations, covenants and warranties of the Purchaser to the Franchisee hereunder, hereby grants to the Franchisee a continuing specific and fixed purchase money security interest in all products supplied, sold or provided to the Purchaser by the Franchisee, including the tools listed above, and including all accretions, substitutions, replacements, additions and accessions thereto and all Proceeds thereof (the "PMSI Collateral"). I agree that the Franchisee named above or its assigns shall retain a Purchase Money Security Interest in the PMSI Collateral until I have made all the promised payments, at which time Franchisee's security interest shall be released. If I fail to make any of the payments specified, I agree to return the PMSI Collateral to the Franchisee or its assigns on demand. Until all payments are made, I agree to retain the PMSI Collateral in my possession in good condition and to notify the Franchisee of any changes in employment or home address. In the event that I fail to make the promised payments and the Franchisee must resort to civil litigation to obtain return of or payment for the PMSI Collateral, I shall be held responsible for the costs of such litigation including reasonable attorneys' fees.

x _____ x _____

Page 1 of 1

TOWN OF WATERFORD
PROPOSED REVENUE BY DEPARTMENT
GENERAL FUND
2024-2025 FISCAL YEAR

All revenues from each department must be listed in the following categories. Please add any revenue lines that are not listed below.

DEPARTMENT: Public Works

LINE ITEM	2021-2022 ACTUAL	2022-2023 ACTUAL	2023-2024 EXPECTED	2023-2024 YTD	2024-2025 PROPOSED	VARIANCE
Bulky Waste Fees	116,521	111,521	**110,000**	7,241	**112,000**	$ **2,000.00**
Interest/Lien Fees	81	88	**50**	46	**90**	$ **40.00**
Rentals	62,531	730,404	**50,000**	0	**0**	$ **(50,000.00)**
Sale of Recyclables	45,844	64,172	**45,000**	4,839	**50,000**	$ **5,000.00**
Tipping Fees	288,193	264,872	**275,000**	43,792	**275,000**	$ -
Versa Kart/Blue Box Purchases	11,135	7,910	**10,000**	4,000	**8,000**	$ **(2,000.00)**
Curbside Brush Pickup	640	680	**600**	260	**600**	$ -
Town Aid	316,431	321,120	**321,120**	160,680	**321,120**	$ -
Excavation Permits	5,855	1,975	**3,000**	450	**2,000**	$ **(1,000.00)**
						$ -
						$ -
TOTALS	**$ 847,231.00**	**$ 1,502,742.00**	**$ 814,770.00**	**$ 221,308.00**	**$ 768,810.00**	$ **(45,960.00)**

TOWN OF WATERFORD
CAPITAL IMPROVEMENT PLAN
PROJECT CONSOLIDATION FORM FY 2025-2029

	DEPARTMENT/ AGENCY:							
DEPT PRIORITY	PROJECT NAME	FUNDING SOURCE	FISCAL YEAR 2024-2025	FISCAL YEAR 2025-2026	FISCAL YEAR 2026-2027	FISCAL YEAR 2027-2028	FISCAL YEAR 2028-2029	TOTAL
1	Revaluation	3	125,000	125,000	100,000	100,000	100,000	550,000.00
								-
								-
								-
								-
								-
								-
								-
								-
								-
								-
	TOTALS		125,000.00	125,000.00	100,000.00	100,000.00	100,000.00	550,000.00

INDEX TO FUNDING SOURCES,

1 CURRENT YEAR CAPITAL IMPROVEMENTS
2 UTILITY BUDGET/SEWER CAPITAL MAINTENANCE FUND
3 TRANSFER TO CAPITAL & NONRECURRING.
4 SHORT AND LONG TERM DEBT FINANCING
5 LoCIP
6 CNR UNDESIGNATED FUND BALANCE
7 FEDERAL/STATE GRANTS
8 OTHER FUNDING

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY	**CONTACT PERSON**
ASSESSOR	Paige Walton
PROJECT NAME	**DEPARTMENT PRIORITY**
Revaluation	1

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	State mandated town-wide revaluation of all real property to include the special use property fee appraisal of Dominion Nuclear Power Plant. Effective with the 10/1/2023 Grand List, Section 7 of Public Act 22-74 five Revaluation Zones and a new five-year revaluation schedule has been instituted, redistributing the number of revaluations to be performed annually. The project is undertaken to remain compliant with Connecticut law and to insure uniformity in real property valuations. Funding requested annually for Waterford's next two mandated revaluations, scheduled for October 2026 & October 2029.
2	**PROJECT STATUS IF IN PROGRESS**
	2022 Revaluation completed
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
	N/A
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
	N/A
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
	N/A
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	2026 Revaluation will be an update - current average cost is ≈ $20/per parcel. Waterford parcel count = 9300
7	**COST/FUNDING SOURCE**

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR		125,000	125,000	100,000	100,000	100,000
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**0**	**125,000**	**125,000**	**100,000**	**100,000**	**100,000**

Building Maintenance Department

Memo

To: Robert Brule, First Selectman

From: Gary J Schneider, Director of Public Works

cc: Kimberly Allen, Finance Director

Date: November 17, 2023

Re: Building Maintenance CIP 25-29

Enclosed please find the proposed Capital Program for Building Maintenance.

For this year, the focus is on addressing the condition of the HVAC systems at the Public Safety Building, roof repairs at the Eugene O'Neill Theater Center and Police Station and the installation of Public Sewers at O'Neill.

TOWN OF WATERFORD
CAPITAL IMPROVEMENT PLAN
PROJECT CONSOLIDATION FORM FY 2025-2029

	DEPARTMENT/ AGENCY:	Building Maintenance						
DEPT PRIORITY	PROJECT NAME	FUNDING SOURCE	FISCAL YEAR 2024-2025	FISCAL YEAR 2025-2026	FISCAL YEAR 2026-2027	FISCAL YEAR 2027-2028	FISCAL YEAR 2028-2029	TOTAL
1	HVAC - Town Facilities	~~3~~	500,000		800,000		300,000	1,600,000.00
2	Roofs - Town Facilities	~~3~~	170,000		750,000		750,000	1,670,000.00
3	Eugene O'Neill Sewers	~~1~~	153,000					153,000.00
4	Municipal Parking Lots	~~1~~	450,000	600,000				1,050,000.00
5	Cohanzie / Vacant School	~~3~~	30,000		500,000		750,000	1,280,000.00
6	UST - Community Center	6						-
7	Jordan Park House	6						-
								-
								-
								-
								-
								-
	TOTALS		1,303,000.00	600,000.00	2,050,000.00	-	1,800,000.00	5,753,000.00

INDEX TO FUNDING SOURCES.

1 CURRENT YEAR CAPITAL IMPROVEMENTS
2 UTILITY BUDGET/SEWER CAPITAL MAINTENANCE FUND
3 TRANSFER TO CAPITAL & NONRECURRING.
4 SHORT AND LONG TERM DEBT FINANCING
5 LoCIP
6 CNR UNDESIGNATED FUND BALANCE
7 FEDERAL/STATE GRANTS
8 OTHER FUNDING

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY: Building Maintenance	CONTACT PERSON: Gary J. Schneider
PROJECT NAME: HVAC - Town Facilities	DEPARTMENT PRIORITY: 1

1 DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)

A project for the Public Safety is being proposed. Recent studies completed in January of 2020 have identified the need to replace and modernize the equipment. The January 2020 report found that most of the equipment at Public Safety is "operating beyond their useful service life". Although the boilers have been replaced as part of the natural gas conversion, the underground tank has been removed and the roof top unit has been replaced, the remainder of the system must be addressed. This project will address the remaining components at the Public Safety Building, a critical facility housing the Emergency Services Divisions. FY 27 is for Police Station, FY 29 replacement of a Chiller at Community Center

2 PROJECT STATUS IF IN PROGRESS

Studies have been completed for the Police Station, Public Safety and the Community Center.

3 LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST

None

4 DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)

None

5 GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)

None

6 ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)

Attached expanded narrative, SPA Opinion of Probable Construction Cost 2020

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance		500,000		800,000		300,000
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	0	500,000	0	800,000	0	300,000

TOWN OF WATERFORD
MEMORANDUM

PUBLIC WORKS
DEPARTMENT

To: File

From: Gary J Schneider

Date: November 13, 2023

Re: Heating, Ventilation and Air Conditioning – Town Facilities

The Town Hall, Youth Service Bureau and Municipal Complex HVAC systems have been mechanically addressed, but are lacking any central monitoring and control of the systems. The Police Station and Public Safety have systems that need total renovation to include the central monitoring and control. A project for the Community Center has been funded and is currently underway. The Library is currently in the process of the design of the project to renovate or replace the HVAC systems. That will include connecting this building into the BMS system.

Recent studies completed in January of 2020 for the Police Station and Public Safety have identified the need to replace and modernize the equipment. The January 2020 report found that most of the equipment at Public Safety is "operating beyond their useful service life". Although the boilers have been replaced as part of the natural gas conversion, the underground tank has been removed and the roof top unit has been replaced, the remainder of the system must be addressed. For the Police Station; "...existing equipment such as the exhaust systems, cabinet unit heaters and radiant ceiling panels throughout the building are original to the 1990 construction. A large quantity of the equipment mentioned are nonfunctional". Although the natural gas conversion replaced the burner on the boiler and removed the underground tank, here too, the rest of the system at the Police Station must be addressed.

All buildings will be connected to the Building Management System (BMS) to monitor, control the use of energy, equipment run time and identify equipment failures.

This project will address the remaining components at the Public Safety Building, a critical facility housing the Emergency Service Divisions for the Town.

OPTION #1

9,400 APPROXIMATE TOTAL NET SQUARE FOOTAGE (Area of Work)

SECTION NUMBER	WORK CATEGORIES/DESCRIPTIONS	QTY.	UNIT	MATERIAL & LABOR COST UNIT COST	MATERIAL & LABOR COST TOTAL		TOTAL $
	OTHER COSTS						
	Permit (0.5% of construction cost)	1	LS				$2,809
	Bonds (1.5% of construction cost)	1	LS				$8,383
	Insurance (0.25% of construction cost)	1	LS				$1,397
				OTHER COSTS SUBTOTAL =		$12,590	
	DIVISION 2 - DEMOLITION						
	Dumpsters	3	EA	$1,000.00	$3,000.00		$3,000
				DIVISION 2 SUBTOTAL =		$3,000	
	DIVISION 23 - HVAC/MECHANICAL						
	Demolition	1	LS		$35,250.00		$35,250
	Rooftop Units	1	LS		$143,400.00		$143,400
	Air Handling Unit with DX, Hot Water Duct Coil, VFD	1	LS		$36,400.00		$36,400
	Refrigerant Piping	1	LS		$4,700.00		$4,700
	Ductwork, Duct Insulation & Duct Accessories	1	LS		$15,000.00		$15,000
	VAV Terminal Units	1	LS		$38,058.75		$38,059
	Exhaust Fans	1	LS		$9,400.00		$9,400
	Underground Fuel Oil Storage Tank	1	LS		$60,760.00		$60,760
	Fuel Oil Piping - Interior & Exterior	1	LS		$9,000.00		$9,000
	Electronic Guaging & Leak Detection	1	LS		$9,500.00		$9,500
	Boilers	1	LS		$42,000.00		$42,000
	Hot Water System Pumps	1	LS		$23,625.00		$23,625
	Hot Water Piping, Pipe Insulation & Pipe Accessories	1	LS		$8,500.00		$8,500
	Hot Water Fintube Radiation	1	LS		$28,500.00		$28,500
	Controls	1	LS		$47,000.00		$47,000
	Duct Cleaning	1	LS		$1,600.00		$1,600
	Testing and Balancing	1	LS		$10,000.00		$10,000
	Crane Service	1	LS	$5,000.00	$5,000.00		$5,000
				DIVISION 23 SUBTOTAL =		##########	
	DIVISION 26 - ELECTRICAL						
	Demolition	1	LS		$2,000.00		$2,000
	Electrical wiring, conduits, connections, etc	1	LS		$12,000.00		$12,000
				DIVISION 26 SUBTOTAL =		$14,000	
	DIVISION 31						
	Earth Moving	1	LS		$16,000.00		$16,000
				DIVISION 31 SUBTOTAL =		$16,000	
	DIVISION 32						
	Turf & Grass	1	LS		$1,205.00		$1,205
				DIVISION 32 SUBTOTAL =		$1,205	
				SUBTOTAL =			$574,489
				CONTINGENCY		10.00%	$57,449
				GEN. CONDITIONS		5.00%	$28,724
				OVERHEAD		10.00%	$57,449
				PROFIT		10.00%	$57,449
				CONSTRUCTION TOTAL =			$775,560

SILVER/PETRUCELLI + ASSOCIATES
Architects / Engineers/ Interior Designers
3100 Whitney Avenue, Hamden, CT 06518
Tel: 203 230 9007 Fax: 203 230 8247
www.silverpetrucelli.com

CPI Inflation Calculator

$ 396,067.00

in November 2019

has the same buying power as

$473,955.19

in September 2023

Calculate

11/7/2023

SPA Opinion of Construction Cost – 11/26/2019

Subtotal =	$293,384.00
10% Cont =	$29,338.00
5% Gen Con =	$14,669.00
Overhead 10% =	$29,338.00
Profit 10% =	$29,338.00
	$336,067.00 - 11/26/19
	$473,955.00 - 09/23

Enor 8% of $293,384.00 - $23,470.00

$497,425.00

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Building Maintenance	**CONTACT PERSON** Gary J. Schneider
PROJECT NAME Roofs - Town Facilities	**DEPARTMENT PRIORITY** 2

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	The Police Station continues to have problems with the roof. The Police Station was re-roofed in 2013, but the acceptance of a change of the original plans (a credit for the deletion of a waterproofing membrane in the valleys) has resulted in leaks in several areas of the building. These areas (valleys) will be addressed. Eugene O'Neill Theater Center (the Barn) continues to lose asphalt shingles causing leaks. A portion of the structure was addressed with a new roof in 2019. This section was not. FY 27 is to replace the Library roof. FY29 is for the Community Center Roof.
2	**PROJECT STATUS IF IN PROGRESS**
	None
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
	None
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
	None
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
	None
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	Estimating Sheet dated Nov, 2023

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance		170,000		750,000		750,000
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**0**	**170,000**	**0**	**750,000**	**0**	**750,000**

TOWN OF WATERFORD
MEMORANDUM

PUBLIC WORKS
DEPARTMENT

To: File

From: Gary J Schneider

Date: November 9, 2023

Re: Roofs – Town Facilities

The Department has addressed the roofs at the Public Safety Building, Hammond Mansion (Eugene O'Neill Theater Center). We need to continue this effort on the other facilities. To assist in this effort, the roofs at the Community Center, Town Hall, and Library were inspected by using infrared scanning of the roofs.

- Town Hall (2003): condition fair
- Community Center (2003): condition fair
- Library (1995) condition: poor

In addition to the facilities above, the

- The Police Station continues to have problems with the roof. The Police Station was re-roofed in 2013, but the acceptance of a change of the original plans (a credit for the deletion of a waterproofing membrane in the valleys) has resulted in leaks in several areas of the building
- Eugene O'Neill Theater Center (the Barn) continues to lose asphalt shingles causing leaks. A portion of the structure was addressed with a new roof in 2019. This section was not.

This funding request will address the Police Station and the Theater.

11/9/2023

Police Station

72' x 30 = 2,160 SF x 30/SF = $64,800.00

8% Plans/Spec - $5,100.00

3% Inflation - $72,000.00

11/9/2023

"Barn"

85 x 22 – 1,870 SF

26 x 25 – 650 SF

2,520 SF

3/10/23 – ($26/SF)

$4.50/SF Plywood sheathing replace assume 1,000 SF

2,520 x $26 = $65,520.00

1,000 x $4.50 = $ 4,500.00

$70,000.00

Plans/Bid/Contract/Admin - $15,000.00

$95,000.00

1.03 Inflation - $97,850.00

Building Envelope Condition Assessment

HAMMOND MANSION

10-Mar-23

TAG NO.	ASSESSMENT	SYSTEM/ CODE REFERENCE	RANKING					CORRECTIVE ACTION	ITEMIZED ESTIMATED COST	REMARKS
			4	[illegible]	2	1	n/a			
SITE CONDITIONS										
S01	Site grading and surface drainage review		4					Ensure proper drainage.	$0	Minor items
ARCHITECTURE CONDITIONS										
EXTERIOR ENVELOPE SURVEY										
A01	Basement foundation stone masonry is in generally good condition.			[illegible]				Minor repair/repointing of foundation	$2,500	
A02	Windows and doors in fair condition		4					Not in scope	$0	
A03	Clapboard siding and trim, areas of rotted wood including roof edge assemblies					1		Remove and replace rotted wood. Reconstruct roof edge as needed.	$65,000	Full extent of repairs to be determined.
A04	Upper stories (second and third floors) and misc areas, wood siding and trim require painting				2			Prep, Prime and Painting of upper stories (second and third floors) and misc areas.	$95,000	Includes scaffolding
A05	Brick chimneys in fair condition, tarred at bases				2			Brick chimney repointing and new step flashing	$16,000	
A06	Low slope membrane roof nearing end of life expectancy					1		Full roof replacement, flashings and drainage. Replace rotted deck replaced as needed.	$100,000	Approx. 2,000 SF
A07	Shingle roofs and wood shingle mansard in poor condition, weathered and damaged.					1		Full roof replacement, flashings and drainage. Replace rotted deck replaed as needed. Rebuild built-in gutter system.	$260,000	Approx. 10,000 SF

$376,000
65,000
440,000

(c) Silver Petrucelli + Associates, Inc.

10-Mar-23										
TAG NO.	ASSESSMENT	SYSTEM/ CODE REFERENCE	RANKING					CORRECTIVE ACTION	ITEMIZED ESTIMATED COST	REMARKS
MECHANICAL SYSTEMS										
M01	Bird screening on the exhaust vents					1		Provide screen mesh on the existing vents or provide new vents with screening.	$500	
ELECTRICAL SYSTEMS										
E01	West side floodlight	General			2			Remove and reinstall floodlight on new siding.	$500	
E02	Replace broken exterior light	General				1		Replace the broken egress light at the second floor door with a new fixture to match fixtures which are remaining.	$600	
E03	Reroute existing phone lines	General			2			Reroute the existing exterior phone lines to the interior of the building.	$2,000	Approximately 7 lines
E04	New exterior junction box	General				1		Provide new junction box and cover on bottom ledger board near transformer.	$1,000	Provide gasketed box.
E05	Reseal conduit penetrations	General			2			All conduit penetrations should be resealed.	$1,000	

LEGEND PRIORITY - RANK

1	Urgent priority - These items should be corrected as soon as possible and most likely encompass code, health and life safety issues.
2	High priority - These items should be corrected within a reasonable amount of time after the highest priorities referenced above. These may be associated with high priority maintenance issues or accessibility issues for the physically challenged. Maintenance items have a remaining useful life from 1-3 years.
3	Moderate priority – These items may be associated with aesthetic or general maintenance issues. Remaining useful life of 3-5 years.
4	Low priority – These items include maintenance and aesthetic issues that are not in current need of replacement, but should continue to be monitored on a regular basis. These items typically have a remaining useful life of 5-10 years or greater.

Comment: As priorities are grouped in phases, then estimates have to be marked up for contractor's overhead and profit.

(c) Silver Petrucelli + Associates, Inc.

11/9/23

Library

17,900 SF

1,995 (est)

Last Report 10/1/2021

Poor – fair condition

Replace $35/SF = $626,500.00

8% Arch/Bin = $ 50,120.00

$676,620.00

BLS - $747,812.00

CPI Inflation Calculator

$ 676,620.00

in October 2021

has the same buying power as

$747,812.26

in July 2023

Calculate

1) (6) Six roofing sections (1000sf): removal all found wet roofing materials to the roof decking
2) Mechanically fasten new insulation to the roof decking matching existing
3) Fully adhere new cover-board
4) Fully adhere new Hypolan membrane to area and heat-weld all edge terminations to existing roof membrane & metals
5) Budget: $24,000

Restoration Solutions

Alpha Guard BIO Full Reinforced Roof Restoration (1,2,4): Powerwash all roofing areas clean if all debris & oils. Replace all found wet insulation areas and replace in kind. Apply Alpha Guard BIO Base coat to all roofing areas at 3gl/sq embedding reinforcements to all roofing areas. After initial coat has cured properly, install Alpha Guard Top coat at 2gl/sq to all roof surfaces to complete. Provide a 20year QA Watertight Warranty with inspections at years 2, 5, 10, & 15. On year 20, the Tremco Field Advisor will provide warranty extension or recoat solutions to prolong the existing roof system.

Replacement Sections 3 & 5: Remove all roofing materials to roof decking, install new tapered insulation, fully adhere new cover-board, fully adhere new Alpha Guard Plus roof membrane. Apply 30 year roof warranty with maintenance inspections.

ROOF CATEGORY: **Restoration and Replacement**
BUDGET ESTIMATE:

Roof Name	Roof Square Feet	Restoration	Replacement
YEAR 2020			
1	1000	$16,000	$35,000
2	8500	$135,000	$255,000
3	350	NA	$18,000
4	3400	$60,000	$125,000
5	4700	NA	$150,000

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Building Maintenance	CONTACT PERSON Gary J. Schneider
PROJECT NAME Eugene O'Neill Sewers	DEPARTMENT PRIORITY 3

1	DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)
	This funding request would complete the design and construction of the sewer line to the Production House through the existing gravity sewer to the Log Cabin. The lower part of the Theater will be sewered by the installation of duplex grinder pump station which will connect to the existing on site low pressure system. When completed, the existing septic field will be properly abandoned.
2	PROJECT STATUS IF IN PROGRESS
	MCA Consulting Engineers analysis of the site and opinions to investiagate further dated November 3, 2023. Funding was approved in FY 23 for this efffort.
3	LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST
	None
4	DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)
5	GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)
	None
6	ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)
	Attached expanded narrative memorandum. MCA Consulting Engineers letter dated Nov 3, 2023

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital	43,500					
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance		153,000				
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	43,500	153,000	0	0	0	0

TOWN OF WATERFORD
MEMORANDUM

PUBLIC WORKS
DEPARTMENT

To: File

From: Gary J Schneider

Date: November 13, 2023

Re: Eugene O'Neill Center Sewers

The area known as the "sunken garden" contains the leaching field for the buildings known as the Production House, lower part of the Theater and possibly the Hammond Mansion (main office, housing and cafeteria). The White Mansion has its own tank and field (primary and reserve) and the Farm House has its own tank and field. All of the other buildings that have water service are connected to the internal sewer system through a system of 8" pipes and manholes that discharge to the public sewer.

The leaching field located in the sunken garden has failed. Inspection of the distribution box shows heavy tree root intrusion. Attempts by a local plumber to clean roots by cutting 16 feet or so has not solved the problem of the liquid breaching the surface. The field needs to be abandoned and the Production House and the lower Theater must be connected to the Public Sewer.

From an investigation and from plans:

- The Mansion has a tank that serves as holding tank for the liquids from the septic tank at the Mansion. This tank has a submersible pump that may pump to a leaching field. It is unknown where the leaching field is or if this pump still works.
- The Production House and the lower Theater are connected by gravity to a series of holding tanks, each having a submersible pump that pumps up to the sunken garden leaching field. Currently the Department is engaging the services of a septic hauler to pump the holding tank.

Any flow into the leaching field must be directed to the sanitary service.

A previous phase (Phase 1) of the sewer construction program connected the new cottages, Log Cabin, and the upper portion of the Theater to the sewer line. A Phase 2 that would have completed the sewer to the rest of the buildings on site was never funded.

A consulting engineering firm was engaged to document existing conditions and propose options to sewer the existing buildings that are currently not connected to the public sewer in the area.

This funding request would complete the design and construction of the sewer line to the Production House through the existing gravity sewer to the Log Cabin. The lower part of the Theater will be sewered by the installation of duplex grinder pump station which will connect to the existing on site low pressure system. When completed, the existing septic field will be properly abandoned.

Future phases would connect the Hammond Mansion to a new gravity sewer and connect the White Mansion and Farm House to the duplex grinder pump station.

Item	Length	Number	Unit Price	Total	
Duplex Grinder Pump		LS		$35,000	Installed
Electrical		LS	$25,000	$25,000	Assumes there is a panel available at Barn
				$0	
Gravity Sewer 1		80	$150	$15,000	From the Production Building to the public sewer just outside the Log Cabin
Gravity Sewer 2		60	$150	$9,000	From the lower Barn to Duplex Grinder Pump
Site Work		LS		$25,000	Pavement restoration, loam/seed
Building Permit				$2,000	
Engineering		1		$37,000	Plans for bidding/ building permits to be issued
Legal		1		$5,000	
				$153,000	

Notes: MCA proposal dated November 3, 2023 used for concept

MCA
MARTINEZ COUCH & ASSOCIATES, LLC
CONSULTING ENGINEERS & SURVEYORS

1084 Cromwell Avenue Suite, A-2
Rocky Hill, CT 06067
Tel: 860-436-4364
Fax: 860-436-4626
www.martinezcouch.com

November 3, 2023

Gary Schneider
Town of Waterford Public Works
1000 Hartford Turnpike
Waterford, Connecticut 06385

RE: THE EUGENE O'NEILL THEATRE CENTER
SANITARY SEWER PROJECT
MCA Project No. 2023-252

Dear Mr. Schneider:

Martinez Couch & Associates LLC (MCA) is pleased to present this proposal to complete professional services for the above-referenced project.

After our meeting at the Public Works offices, and walk though of the complex on the 7th, I am submitting the following as our understanding of the scope required, and the associated fees to complete the work. If the scope should be modified or corrected please let me know and I will make the necessary adjustments.

Project Understanding

The Town of Waterford, as the land owner with land lease requirements to the facility known as the Eugene O'Neill Theater Center, herein referred to as the Center, seeks to disconnect buildings at the Center currently using subsurface septic sewage disposal systems. MCA understands the Center was partially connected to the Town owned Sanitary Sewer in 2014. Documents reviewed for that project show indicate a sanitary sewer from Great Neck Road to the Northern half of the Center was constructed. The intent of the current project is to connect the remaining buildings on septic systems for wastewater disposal to the sanitary sewer.
To review the existing conditions at the Center as an aid in the preparation of this proposal MCA visited the Center on September 7th. Specific information was identified from Center Maintenance staff including access to buildings and parole evidence of existing septic systems and other utility services. From the site walk the following buildings are identified for connection to sanitary sewer,

- "Farm House"
- "White House"
- "Main Barn (Southern Half)"
- "Production Building"
- "The Mansion"

From visual inspections of building interiors, the locations of sanitary drain outlets were identified at the subject buildings. A full description of items reviewed is not included here but the following items are of note for the connection of the reference buildings to on-site sanitary sewer.

- The Farm House – The building is currently served by a septic system consisting of holding tank and leach fields immediately to the East of the building. Replumbing of the basement level was identified to be an option for connection to a sanitary sewer lateral to the West of the building
- The White House – In the basement level there is a bathroom which is currently served by an ejector pump to the buildings septic system. The relative depth of the building basement and elevation of the existing sanitary drain discharge would not permit the basement of this building to be provided with gravity sanitary sewer service to existing onsite connection to Great Neck Road.
- The Main Barn – The slab on grade level of the buildings Southern half has below slab piping for two bathrooms and a sink. The exit location of this piping was not able to be field verified. A building drain outlet through the slab was identified at the Southwest Corner.
- The Mansion – At the site walk with Center Maintenance staff the sanitary piping was identified to exit the building at one location on the Southwest side of the building just above the basement slab level.
- Production Building – The building sewer exits at the Southeast corner of the building to a tank onsite. The configuration of drainage from this tank to a leach field is not known. The replumbing of building interior piping was identified as an option for connection of this building.

After buildings have been disconnected from the onsite subsurface sewage disposal systems the existing holding tanks, distribution structures, leaching fields, and any ancillary equipment will require decommissioning in accordance with State of Connecticut Department of Public Health Regulations as well as the local health department, Ledge Light, criteria.

Project Approach

In review of drawings provided by the Town for the existing sewer installation two Sanitary sewer stubs are present onsite located to the Northeast and Northwest of the Main Barn building's Northern face. In a desktop review of prior site surveys, site visit data, and project review with town to date, the connection to both stubs in two corridors is identified as the most practical approach for disconnecting the five subject buildings to town owner sanitary sewers.

In review with Utilities Commision staff a preferred approach of sewer connection is outlined as follows,

A. Farm House, Main Barn (South), and White House - Construct a common sewerage collection point from the three buildings at which a duplex grinder station is proposed.

The station is proposed to connect to an existing 2" Force main on site owned by the Town and used for sanitary facilities at the Town Beach. The force main is connected to an onsite town owned sanitary sewer manhole.

B. Production Building - Reconfigure internal sanitary drain piping in Production Building to drain to the Northwest corner of the building for a new building sewer exit. After exiting the building connect to the pipe stub to the Northwest of the Main Barn Building.

C. The Mansion – Construct a sewer connection to the West to a town owned Sanitary Sewer on the adjacent property Camp Harkness. The connection is preferred to be gravity sewerage but the need for a pumped forcemain is pending final design and survey.

Task 1. Coordination with Town Staff and Ledge Light Health District.

MCA will coordinate with Public Works, the Waterford Utility Commission, and where appropriate, the Ledge Light Health District as the project advances. The abandonment of the leaching systems will need to be completed with the health department.

Task 2. Preliminary Design (30% Submission).

MCA will develop a 30% design plan. The intent is to ensure that the necessary areas of the property are fully included. The plan will be prepared from existing and available mapping as a base. The design will show:

- Existing buildings
- Existing utilities from existing mapping sources including gas, water, electric, and telecommunications.
- Existing septic systems including holding tanks and grease traps.
- Other pertinent items in the area of the proposed activity.

A conceptual layout of a sanitary design utilizing the preferred approach will be completed. It is understood that a pumped system can only be utilized if a gravity system cannot be achieved. The goal is to establish a discharge for all buildings and sources to an existing sanitary manhole in order to eliminate all subsurface treatment of sewage effluent. MCA will work with the town to establish a proposed layout of the sanitary sewer extensions onsite acceptable to the Public Works, Utility Commission prior to proceeding with a detailed design.

Task 3. Design Development (60% Submission).

Using the layout in Task 2, MCA will complete a limited topographic survey.. The area for survey is anticipated to be for a width of approximately 25 feet along the routes of the proposed sanitary services identified in Task 2. An allowance for the field survey effort is identified with the areas to be determined in Task 2.

- Finished floor elevations of all buildings that are to be sewered will be surveyed, as well as a limited exterior footprint.

- The location of utilities will be updated where appropriate from the survey field effort. In review at the September 7th site walk a Town CBYD markout of utilities is proposed for survey location of markout. MCA could complete a utility location survey along the areas of proposed activity for the noted allowance. This would be a level B where the horizontal location would be identified and marked on the ground to enable location by survey. The location would be dependent upon a utility with a transmissible conduit, such as a metalic pipe. or a working electric service.
- It is assumed no building electric service upgrades will be required and existing electric panel boards used for power to any required pump stations.

Subsurface Geotechnical Exploration: MCA will engage a geotechnical engineer and boring contractor to complete test borings along proposed alignment of sewer for rock/ledge elevations and soil conditions. Two days of soils borings are anticipated with 6 test borings.
Using the updated survey, the design will be developed to show the following:

- Achievable gravity connections to sanitary manholes in plan and profile
- Location of necessary pump chambers to sewer a structure and discharge location in plan and profile
- Building Plans for interior sanitary piping re-routing anticipated at the Farm House and Production Building.

The 60% design submission is intended for used in permit submissions to applicable agencies. Based on a review of Town data, an unnamed watercourse and Wetlands are adjacent to the area to the East of the Farm House and the White House which have an upland review area. Anticipated septic tank decommissioning and leach field abandonment activities in this area may encroach upon the review area. The project is anticipated to require a Municipal Project 8-24 referral for a Coastal Site Plan Review with the construction activity onsite occurring inside the Coastal Boundary.

Task 4. Final Design (100% Submission)
Using the updated design from Task 3, MCA will prepare the final design documents. The final documents will include plans and specifications suitable for use in construction.
Drawings are anticipated to include the following, Site Demolition Plan, Sedimentation and Erosion Control Plan, Site Restoration Plan, Utility Plan and Profile Plans, Sedimentation and Erosion Control Notes and Details, as well as project specific and site restoration details.
MCA will prepare technical specifications in three-part CSI format for the proposed sitework, utility, and the necessary specification sections to support the sewer installation and ancillary work. It is anticipated that the project will be solicited for public bid that the Town will provide a standard general condition's of the contract.

Task 5. Meetings

MCA will attend meetings with the town to discuss design progress. 4 virtual meetings are assumed.

MCA will attend in-person Inland Wetland Commission site walk. One (1) site walk is assumed.

MCA will attend in-person Inland Wetland Commission evening meetings. Two (2) evening meetings are assumed.

Task 6. Bid, Inspections, Construction Administration

Excluded from this proposal are Engineering services during construction. The scope of these services as needed by the town are expected to be developed at a later date. The project is assumed to be advertised for public bid. The solicitation of the project is assumed to be through the Towns Finance department.

Summary of scope

Initial research
Site walk through. Identify buildings that require sanitary services
Coordinate with the Town and local agencies
Complete 30% Design and Submit to Town for Review and Comment
Complete survey and Field Investigations
Develop 60% Design, with Sewer Design in Plan and Profile
Evaluate electrical capacity
Submit to Town Regulatory Agencies for necessary permitting
Complete 100% Design
Conclude all site design, with demolition, S&E, utilities, electrical
Specification
Engineers Opinion of Probable Cost
Bid and CA not included
No Allowance for Survey of Lease Area

FEES FOR ENGINEERING SERVICES

MCA will complete the services above for the following fees. MCA proposes completing work on a Lump Sum Basis based on the included scope. Variations will be presented for a modification of fee at an appropriate opportunity.

Task 1	Coordination and Initialization	$13,014
Task 2	Preliminary Design	$22,140
Task 3	Design Development	$27,966
Task 4	Final Design	$44,118
Task 5	Meetings and Permitting	$7,224
	Subtotal Base Engineering Services	**$114,462**

MCA shall not be responsible for performance of services in addition to the scope of work outline above, without written authorization and an increase in total fee. The fee for services is outlined above in accordance with the terms and conditions of the Agreement. See below for a level of effort breakdown by personnel classification (as described in our on-call contract)

Subcontracts/Allowances NOT included in base fee

Topographic Survey Allowance	$8,225
Wetland Delineation and Report	$3,000

Utility Location using MCA SUE Assumes 2 days @ $5,000/day		$10,000
Geotechnical Borings		$10,000
Reproduction – minor only, not for bidding or public meetings		$500

1.	**Task 1. Coordination and initialization.**		**$13,014**
	Project Manager	17 hrs @$222	$3,774
	Snr. Project Engineer	8 hrs @ $198	$1,584
	Project Engineer	44 hrs @ $174	$7,656
2.	**Develop a 30% design.**		**$22,140**
	Project Manager	10 hrs @$222	$2,220
	Snr. Project Engineer	24 hrs @ $198	$4,752
	Project Engineer	40 hrs@ $174	$6,960
	Staff Engineer	72 hrs @ $114	$8,208
3.	**Prepare a 60% Design.**		**$27,966**
	Project Manager	9 hrs @$222	$1,998
	Snr. Project Engineer	44 hrs @ $198	$8,712
	Project Engineer	52 hrs @ $174	$9,048
	Staff Engineer	72 hrs @ $114	$8,208
4.	**100% Design.**		**$44,118**
	Project Manager	29 hrs @$222	$6,439
	Snr. Project Engineer	50 hrs @ $198	$9,900
	Project Engineer	102hrs @$174	$17,748
	Project Engineer	88 hrs @ $114	$10,032
5.	**Meetings and Permitting**		**$7,224**
	Project Manager	4 hrs @ $222	$888
	Snr. Project Engineer	32 hrs @ $198	$6,336

Note Subcontractors and Allowances not listed

We appreciate the opportunity to be part of the team for this project. Please contact me at 860-436-4364 if you have any questions or comments.

Sincerely,
Martinez Couch & Associates, LLC

Richard E. Couch, PE
LLC Member

Schedule of Billing Rates:

Staff Level	Rate
Principal	$250.00
Senior Technical Specialist	$250.00
Senior Project Manager	$233.00
Project Manager	$222.00
Senior Project Engineer	$198.00
Project Engineer	$174.00
Staff Engineer	$114.00
Survey Project Manager/LLS	$162.00
Senior CADD Technician	$110.00
CAD Technician	$ 88.00
Field Technician	$ 88.00
2 Person Survey Crew	$190.00
Senior Construction Inspector	$124.00
Construction Inspector	$98.00
GIS Specialist	$118.00
GIS Analyst	$104.00
Senior Administrator	$140.00
Administrator	$80.00

ODCs, Reproduction and Special Equipment Rates:

Item	Rates
Mileage	Federal Rate
Premium for Evening Meetings	Hourly Rate Portal to Portal
Mylar (Xerographic)	$50.00/24x36 Sheet
Vellum	$20.00/24x36 Sheet
Blueprints (CAD Plots)	$5.00/24x36 Sheet
Reproduction 8 ½ X 11"	$.10 per sheet
Reproduction 8 ½ X 11" (Color)	$.30 per sheet
Reproduction 11 ½ x 17"	$.10 per sheet
Reproduction 11 ½ x 17" (Color)	$.80 per sheet
1" Binder	$2.50 each
2" Binder	$5.00 each
>2" Binder	$8.00 each
Unlisted Consultants	Cost +10%
Special Equipment Hire	Cost +10%
Maintenance and Protection of Traffic	At Cost

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Building Maintenance	CONTACT PERSON Cary J. Schneider
PROJECT NAME Municipal Parking Lots	DEPARTMENT PRIORITY 4

1 DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)

Funds requested for FY 25 will complete the main area of the Police/Public Safety/YSB parking lots. The request for funds for the Police Station lot will be in FY 26.

2 PROJECT STATUS IF IN PROGRESS

Funding is in place to bid the first half of the parking areas in spring of 2023.

3 LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST

None

4 DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)

None

5 GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)

None

6 ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)

Sketch of area, Expanded narrative

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital	416,620					
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance		450,000	600,000			
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**416,620**	**450,000**	**600,000**	**0**	**0**	**0**

TOWN OF WATERFORD
MEMORANDUM

PUBLIC WORKS
DEPARTMENT

To: File

From: Gary J Schneider

Date: November 13, 2023

Re: Municipal Parking Lots

The Department is responsible to manage the condition of parking lots at Town Hall, Community Center, Library, Municipal Complex and Public Safety (YSB, Police, and Dispatch).

The projects would include paving, line striping, signage, lighting, drainage and curbing.

Those parking lots in need of reconstruction are:

- The Police/YSB/Public Safety lots: Previous years have set aside funds for the design and construction. These funds did not take into account the need for additional parking space at the Police Department. The common space at this complex is the result of adding additional uses without a plan of traffic management, parking or stormwater. There are several options:
    - Address the entire paved areas. It would reduce the number of parking spaces, increase secured parking for the police, provide safe traffic flow throughout the entire area, and provide for storm water treatment and proper security lighting. Estimated cost $1.5 million.
    - Resurface the existing common paved areas. Estimated cost $600,000.
    - Resurface and add additional parking spaces behind the secured fenced area at the Police Station. Estimated cost $417,000

- The other parking lots in need of maintenance are:
    - Town Hall parking lot. Curb replacement, new surface course, lighting, signage and line striping would be addressed.
    - Library needs basic repairs.
    - Community Center needs basic repairs.

Existing funds will be used to bid the reconstruction of a portion of the Public Safety/YSB/Police site. Funds requested for FY25 will complete the main area. The request for funds for the Police Station lot will be in FY26.

TOWN OF WATERFORD

PUBLIC SAFETY COMPLEX IMPROVEMENTS

200 BOSTON POST ROAD

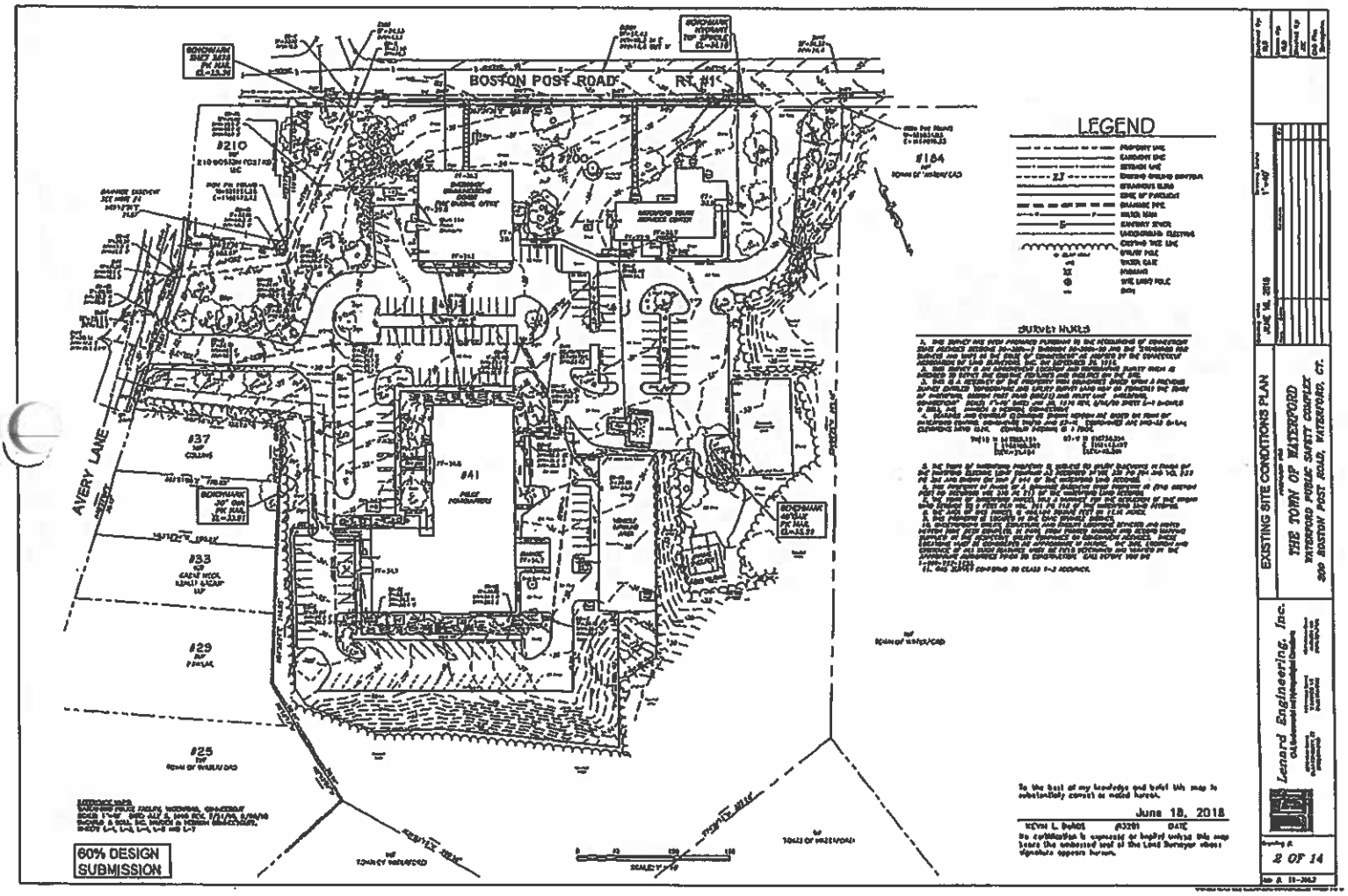
LIST OF DRAWINGS

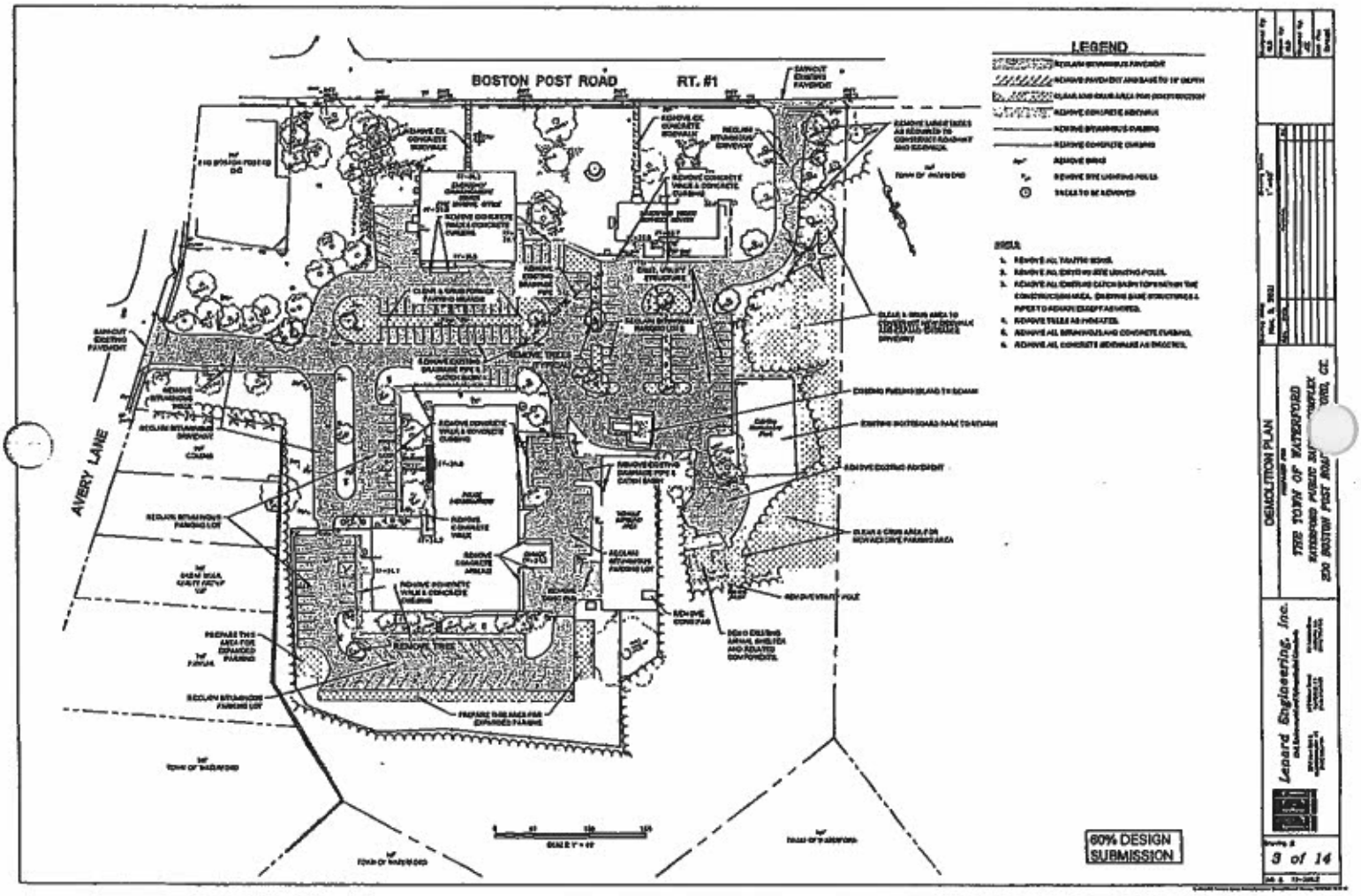
SHEET	TITLE
1	COVER
2	EXISTING CONDITIONS PLAN
3	DEMOLITION PLAN
4	LAYOUT & DRAINAGE PLAN
5	GRADING PLAN
6	PAVEMENT PLAN
7	SIDEWALKS PLAN 1
8	SIDEWALKS PLAN 2
9	RETAINING WALL PLAN
10	LIGHTING PLAN 1
11	LIGHTING PLAN 2
12	SITE DETAILS
13	SITE DETAILS
14	SITE DETAILS

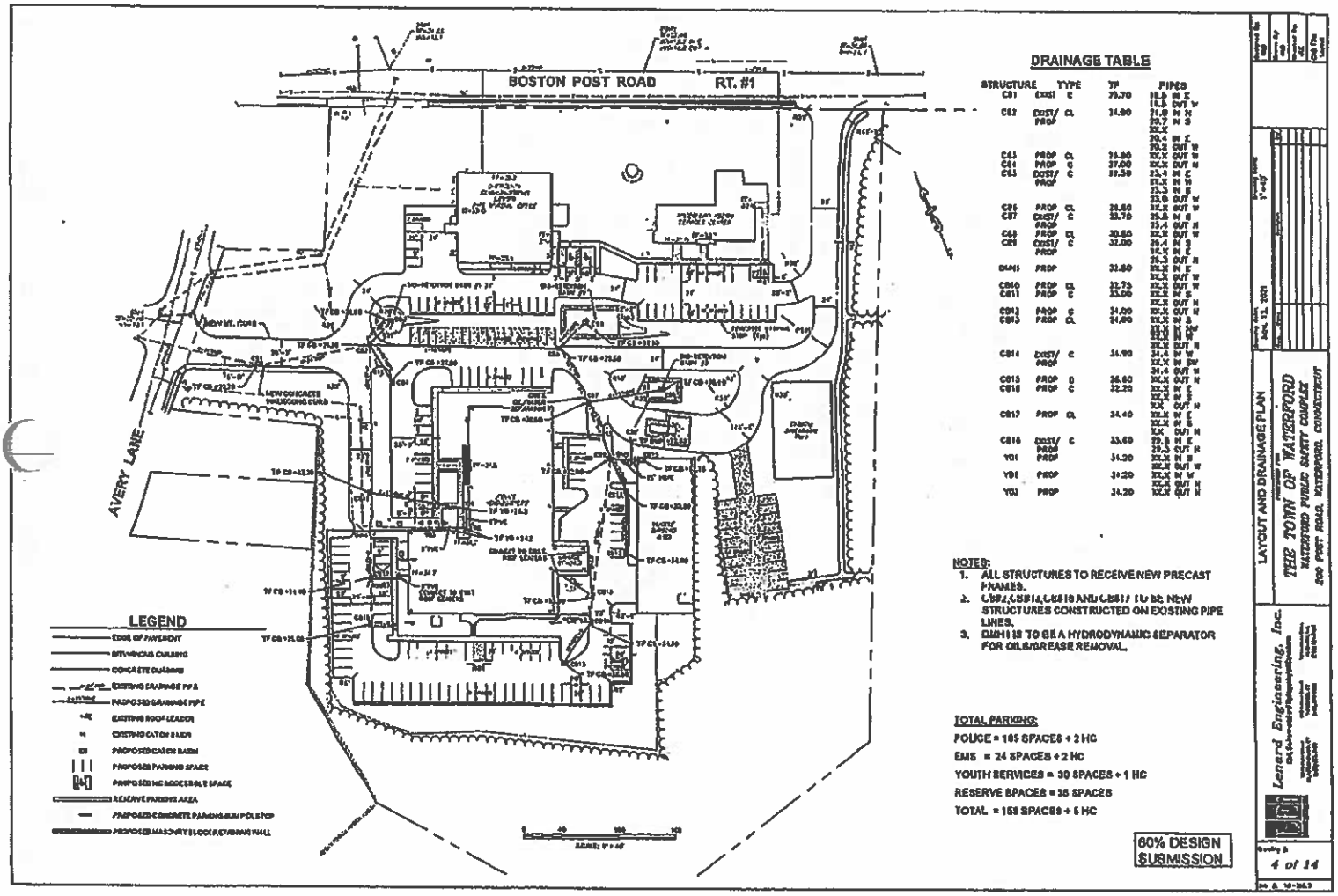
60% SUBMISSION

NOVEMBER 12, 2021

Lenard Engineering, Inc.
Civil, Environmental and Hydrogeological Consultants


BOSTON POST ROAD
RT. #1
AVERY LANE
#210
#184
#37
#41
#33
#29
#25
LEGEND
PROPERTY LINE
EASEMENT LINE
SETBACK LINE
EXISTING CONTOUR ELEVATION
STORMWATER MAIN
EDGE OF PAVEMENT
DRAINAGE PIPE
WATER MAIN
SANITARY SEWER
UNDERGROUND ELECTRIC
OVERHEAD WIRE LINE
UTILITY POLE
WATER GATE
HYDRANT
SITE LIGHT POLE
SURVEY NOTES
60% DESIGN SUBMISSION
June 18, 2018
EXISTING SITE CONDITIONS PLAN
THE TOWN OF WATERFORD
WATERFORD PUBLIC SAFETY COMPLEX
300 BOSTON POST ROAD, WATERFORD, CT.
Leonard Engineering, Inc.
2 OF 14


BOSTON POST ROAD
RT. #1
AVERY LANE
LEGEND
NOTES
DEMOLITION PLAN
60% DESIGN SUBMISSION
Leard Engineering, Inc.
3 of 14



DRAINAGE TABLE

STRUCTURE	TYPE		TF	PIPES
CB1	EXIST	C	75.70	15.5 IN E
				15.5 OUT W
CB2	EXIST/ PROP	CL	74.90	21.0 IN N
				20.7 IN S
				IN/X
				20.4 IN E
				20.1 OUT W
CB3	PROP	CL	73.80	IN/X OUT W
CB4	PROP	C	37.00	IN/X OUT W
CB5	EXIST/ PROP	C	39.50	23.4 IN E
				IN/X IN W
				23.3 IN S
CB6	PROP	CL	33.60	23.0 OUT W
CB7	EXIST/ PROP	C	33.70	IN/X OUT W
				23.6 IN S
CB8	PROP	CL	33.60	23.4 OUT N
CB9	EXIST/ PROP	C	33.00	IN/X IN S
				IN/X IN E
DMH1	PROP		33.80	23.3 OUT N
				IN/X OUT W
CB10	PROP	CL	33.73	IN/X OUT W
CB11	PROP	C	33.00	IN/X IN S
				IN/X OUT N
CB12	PROP	C	34.00	IN/X OUT N
CB13	PROP	CL	34.00	IN/X IN S
				IN/X IN W
CB14	EXIST/ PROP	C	34.90	IN/X OUT N
				IN/X IN W
				IN/X IN SW
CB15	PROP	D	36.60	24.6 OUT N
CB16	PROP	C	32.20	IN/X IN S
				IN/X OUT N
CB17	PROP	CL	34.40	IN/X IN S
				IN/X IN E
CB18	EXIST/ PROP	C	33.60	23.8 IN E
				23.5 OUT N
YD1	PROP		34.20	IN/X IN E
				IN/X OUT N
YD2	PROP		34.20	IN/X IN W
				IN/X OUT N
YD3	PROP		34.20	IN/X OUT N

NOTES:

1. ALL STRUCTURES TO RECEIVE NEW PRECAST FRAMES.
2. CB2, CB13, CB18 AND CB17 TO BE NEW STRUCTURES CONSTRUCTED ON EXISTING PIPE LINES.
3. DMH1 IS TO BE A HYDRODYNAMIC SEPARATOR FOR OIL&GREASE REMOVAL.

TOTAL PARKING:

POLICE = 105 SPACES + 2 HC
EMS = 24 SPACES + 2 HC
YOUTH SERVICES = 30 SPACES + 1 HC
RESERVE SPACES = 35 SPACES
TOTAL = 159 SPACES + 5 HC

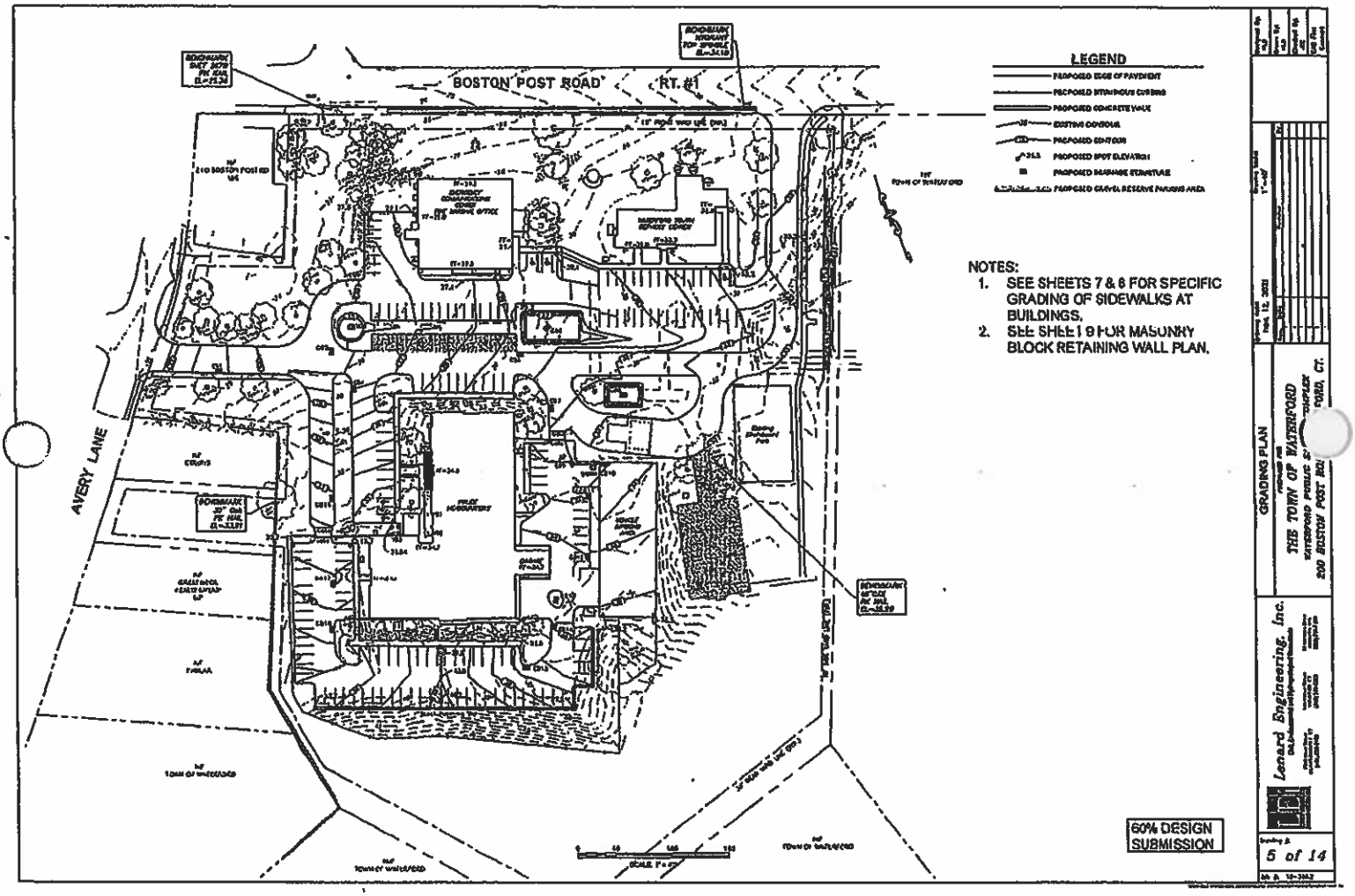
60% DESIGN SUBMISSION

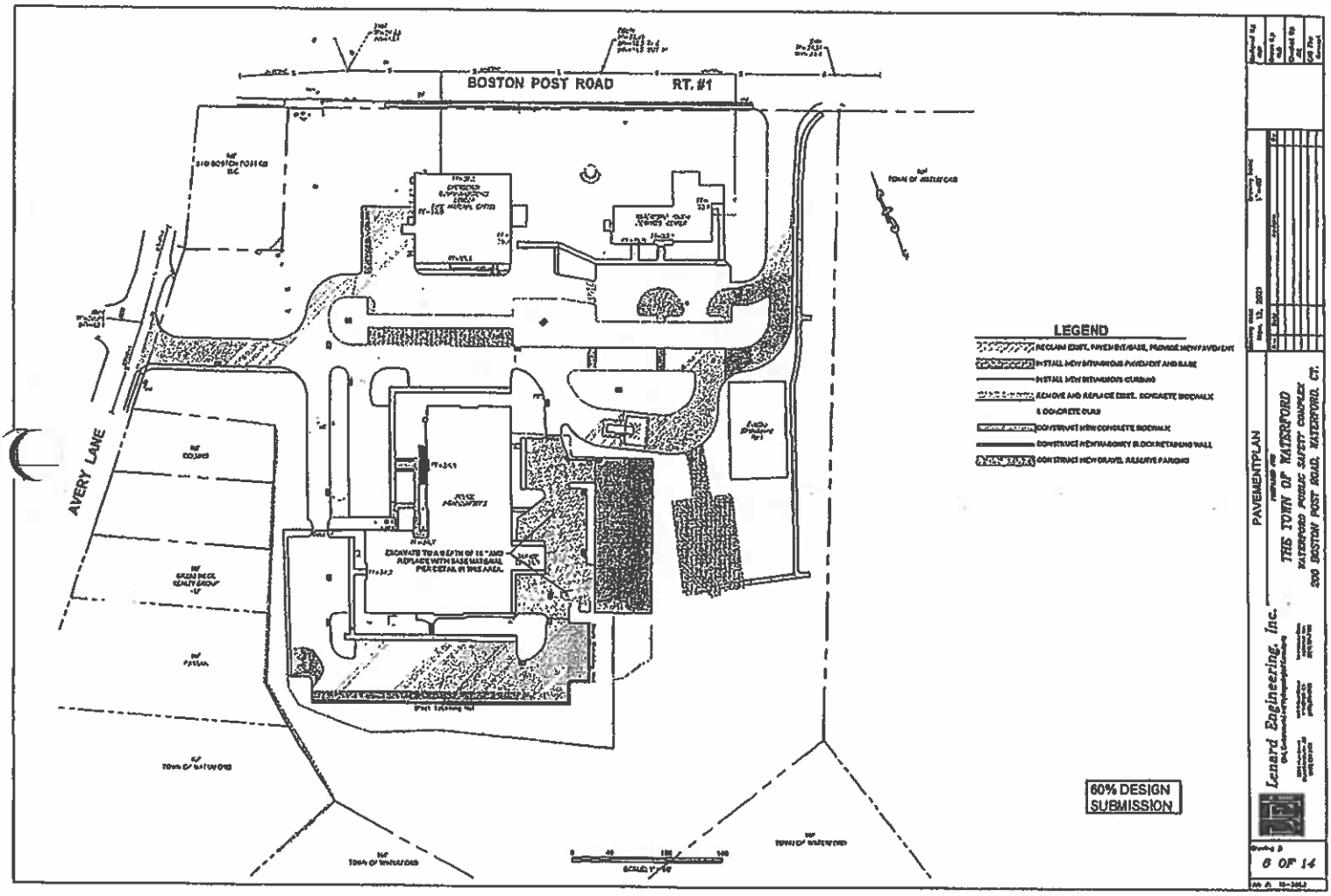
LAYOUT AND DRAINAGE PLAN

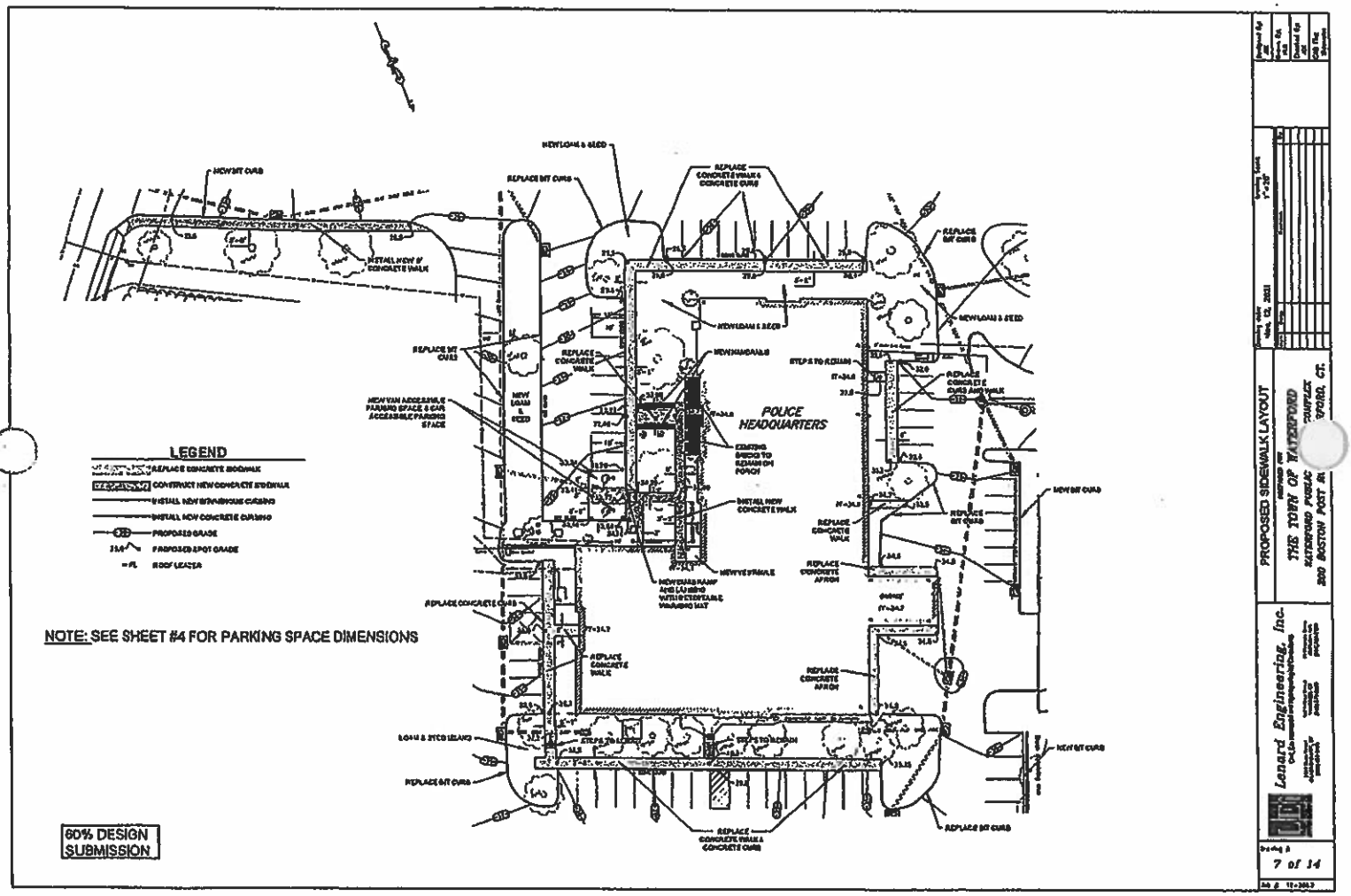
THE TOWN OF WATERFORD
WATERFORD PUBLIC SAFETY COMPLEX
200 POST ROAD, WATERFORD, CONNECTICUT

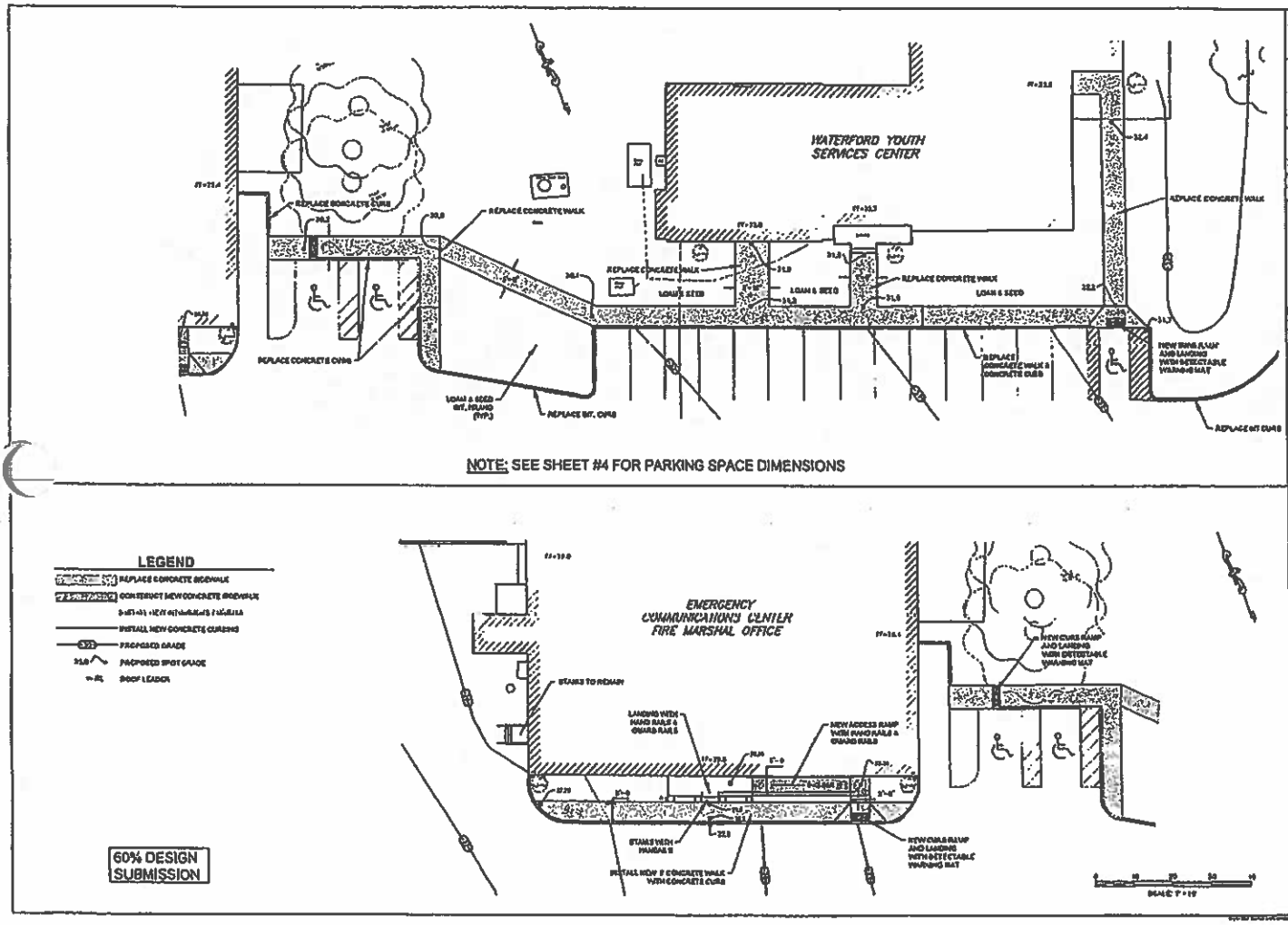
Leonard Engineering, Inc.

Sheet 4 of 14


BOSTON POST ROAD
RT. #1
AVERY LANE
LEGEND
PROPOSED EDGE OF PAVEMENT
PROPOSED BITUMINOUS CURBING
PROPOSED CONCRETE VAULT
EXISTING CONTOUR
PROPOSED CONTOUR
PROPOSED SPOT ELEVATION
PROPOSED DRAINAGE STRUCTURE
PROPOSED GRAVEL RESERVE PARKING AREA
NOTES:
1. SEE SHEETS 7 & 8 FOR SPECIFIC GRADING OF SIDEWALKS AT BUILDINGS.
2. SEE SHEET 9 FOR MASONRY BLOCK RETAINING WALL PLAN.
60% DESIGN SUBMISSION
GRADING PLAN
THE TOWN OF WATERFORD
200 BOSTON POST RD.
Leonard Engineering, Inc.
5 of 14


BOSTON POST ROAD RT. #1
AVERY LANE
LEGEND
INSTALL NEW EXTENSION PAVEMENT AND BASE
INSTALL NEW EXTENSION CURBING
REMOVE AND REPLACE EXIST. CONCRETE SIDEWALK & CONCRETE CURB
CONSTRUCT NEW CONCRETE SIDEWALK
CONSTRUCT NEW MASONRY BLOCK RETAINING WALL
CONSTRUCT NEW GRAVEL ASSURE PARKING
60% DESIGN SUBMISSION
PAVEMENTPLAN
THE TOWN OF WATERFORD
WATERFORD PUBLIC SAFETY COMPLEX
200 BOSTON POST ROAD, WATERFORD, CT.
Lenard Engineering, Inc.
6 OF 14


POLICE HEADQUARTERS
LEGEND
NOTE: SEE SHEET #4 FOR PARKING SPACE DIMENSIONS
60% DESIGN SUBMISSION
PROPOSED SIDEWALK LAYOUT
THE TOWN OF WATERFORD
Lenard Engineering, Inc.
7 of 14



NOTE: SEE SHEET #4 FOR PARKING SPACE DIMENSIONS

LEGEND

- REPLACE CONCRETE SIDEWALK
- CONSTRUCT NEW CONCRETE SIDEWALK
- INSTALL NEW CONCRETE CURBING
- PROPOSED GRADE
- PROPOSED SPOT GRADE
- ROOF LEADER

60% DESIGN SUBMISSION

PROPOSED SIDEWALK LAYOUT

THE TOWN OF WATERFORD

WATERFORD PUBLIC SAFETY COMPLEX

200 BOSTON POST ROAD, WATERFORD, CT.

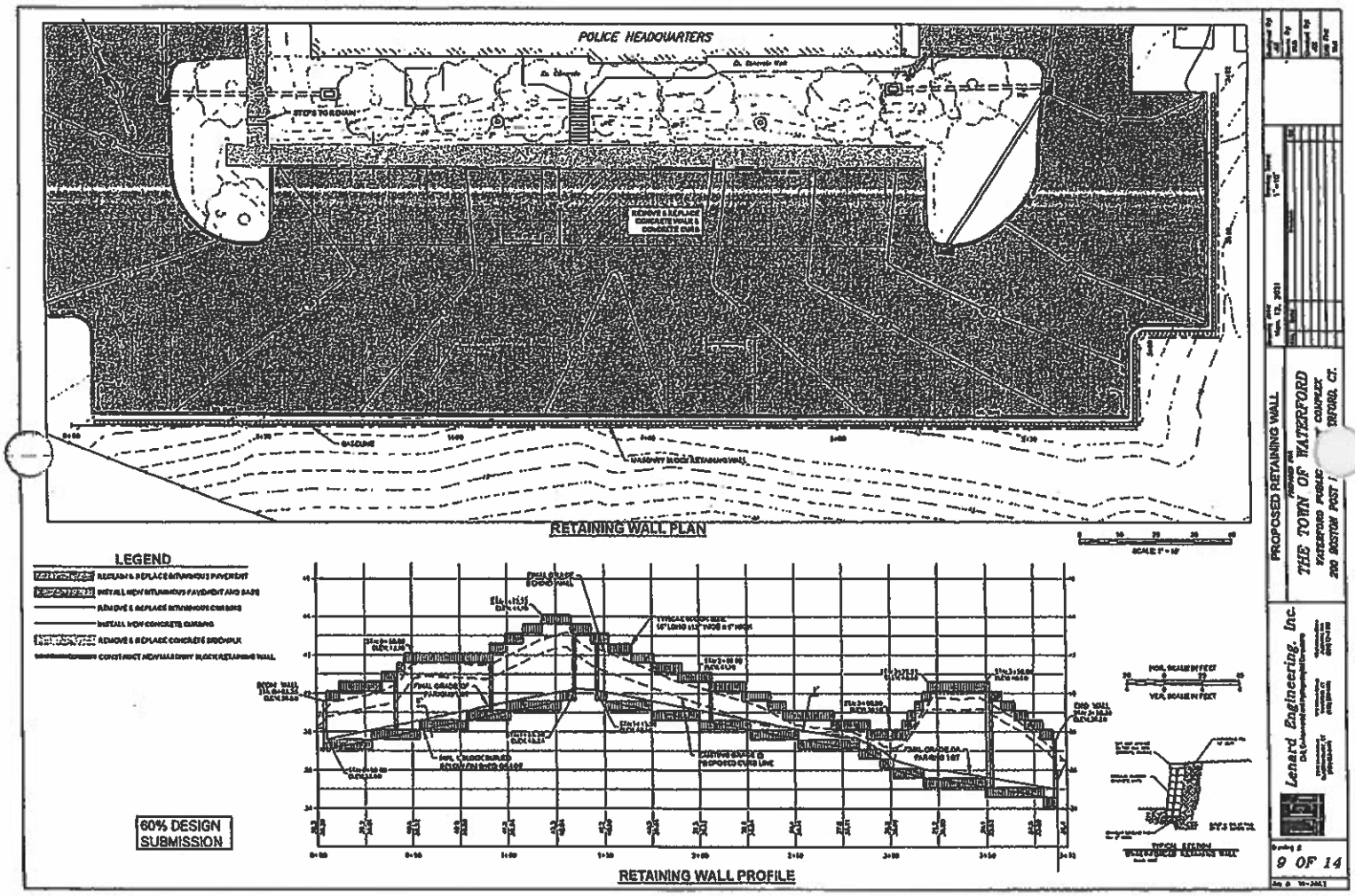
Lenard Engineering, Inc.

Civil Engineers • Land Surveyors • Environmental Consultants

Drawing #

8 of 14

Job #: 16-166.2


POLICE HEADQUARTERS
STEPS TO BOWEN
REMOVE & REPLACE CONCRETE WALK & CONCRETE CURB
GASOLINE
TAILWAY ROCK RETAINING WALL
RETAINING WALL PLAN
SCALE 1" = 10'
LEGEND
REMOVE & REPLACE BITUMINOUS PAVEMENT
INSTALL NEW BITUMINOUS PAVEMENT AND BASE
REMOVE & REPLACE BITUMINOUS CURBING
INSTALL NEW CONCRETE CURBING
REMOVE & REPLACE CONCRETE SIDEWALK
CONSTRUCT NEW MULTI-TIERED BLOCK RETAINING WALL
60% DESIGN SUBMISSION
RETAINING WALL PROFILE
PROPOSED RETAINING WALL
THE TOWN OF WATERFORD
WATERFORD PUBLIC SAFETY COMPLEX
200 BOSTON POST ROAD
WATERFORD, CT.
Leonard Engineering, Inc.
9 OF 14

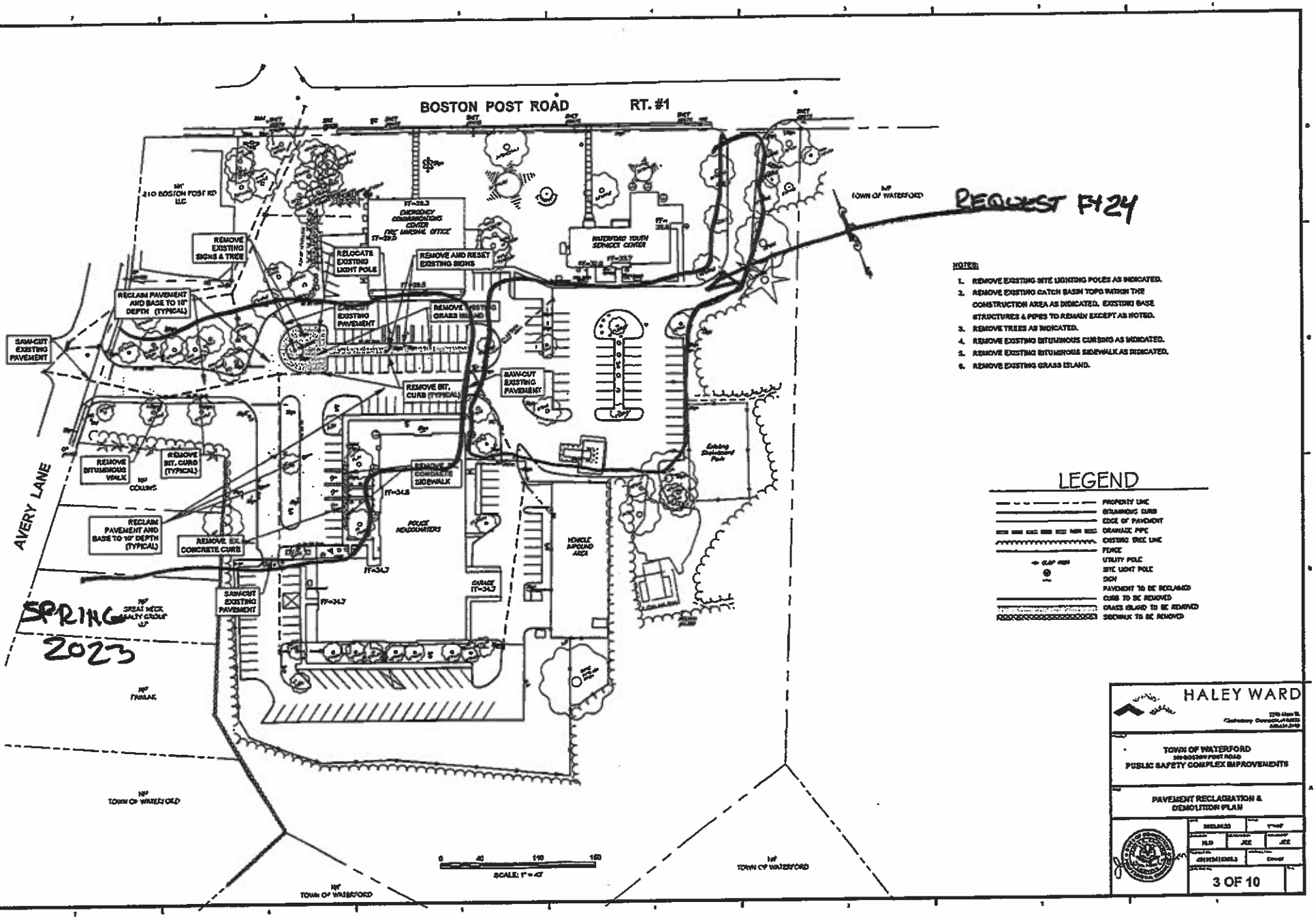
Lenard Engineering, Inc.
2210 Main Street
Glastonbury, CT 06033-6088

OPINION OF PROBABLE COST
Public Safety Complex
Site Work and Lighting Improvements
Waterford, CT

Revised Estimate 2-9-2022
LEI Job No. 19-386.2
Prepared By: JEE

	Total Item	Estimated Quantity and Unit Measure	Estimated Unit Price	Extended Price
1	Mobilization and Project Closeout	LS	$50,000	$50,000
2	Catch Basin Protection	LS	$3,000	$3,000
3	Sediment and Erosion Control Measures	LS	$10,000	$10,000
4	Maintenance & Protection of Traffic	LS	$5,000	$5,000
5	Trafficperson	500 HR	$37	$18,500
6	Tree Removal	16 EA.	$500	$8,000
7	Clearing and Grubbing	1 Acres	$5,000	$5,000
8	Construction Fencing	LS	$5,000	$5,000
9	Removal of Concrete/ Bit. Curbing	5500 LF	$8	$46,200
10	Removal of Concrete Sidewalk	715 SY	$36	$25,597
11	Pavement and Base Material Removal (Non-Reclaimed Areas)	200 CY	$30	$6,000
12	Removal of Gravel Base Material at Impound Area	1100 GY	$10	$11,000
13	Environment Testing of Impound Area Soil	1 LS	$5,000	$5,000
14	Disposal of Impound Area Soil	1 Allowance	$10,000	$10,000
15	Pavement and Base Reclamation	12,320 SY	$4	$43,120
16	Earth Excavation	500 CY	$20	$10,000
17	Provide Gravel Parking Areas	1200 SY	$35	$42,000
18	Install New HMA Pavement (3" thick)	2200 Ton	$140	$308,000
19	Remove and Relocate Signs	31 EA.	$100	$3,100
20	Install New Concrete Sidewalk	7600 SF	$13	$98,800
21	Install New Concrete Curbing	950 LF	$32	$30,020
22	Install New Pavement Roadbase (Non-Reclaimed Areas)	1500 CY	$30	$45,000
23	Concrete ADA Sidewalk Ramp	4 EA.	$3,000	$12,000
24	Construct New Bioretention Basins	3 EA.	$10,000	$30,000
25	Construct New Bioretion Swales	100 LF	$75	$7,500
26	Remove Existing Catch Basins	3 EA.	$1,000	$3,000
27	Provide New Catch Basin Tops- Type C	2 EA.	$800	$1,600
28	Provide New Catch Basin Tops- Type CL	0 EA.	$800	$0
29	Provide New Catch Basin- Type C	9 EA.	$4,000	$36,000
30	Provide New Catch Basin- Type CI	7 EA.	$4,000	$28,000
31	Provide New Drain Manhole- Hydrodynamic Seperator	1 EA.	$15,000	$15,000
32	Install 6" PVC Drainage Piping	300 LF	$30	$9,000
33	Install 15" HDPE Drainage Piping	400 LF	$80	$32,000
34	Install 18" HDPE Drainage Piping	200 LF	$85	$17,000
35	Grass Surface Restoration	6000 SY	$9	$54,000
36	Remove Existing Light Fixtures, Wires, Conduits	1 LS	$5,000	$5,000
37	Provide New Poles and Light Fixtures	35 EA.	$2,400	$84,000
38	Install New Poles, Conduits and Circuits	1 LS	$100,000	$100,000
38	Electrical Connections for New Lighting	1 LS	$40,000	$40,000
39	Landscaping Design	1 LS	$10,000	$10,000
40	Construct New Versa-Lok Retaining Wall	1 LS	$75,000	$75,000
41	Install New Trees and Landscaping	1 Allowance	$40,000	$40,000
	Sub-Total - Items 1-41			$1,387,437
	Rock-in-Trench Excavation, if encountered	CY	$200	$0
	Remove unsuitable soil, replace with gravel fill (if encountered)	CY	$25	$0
	Estimated Construction Cost			$1,387,437
	10% Contingency			$138,744
	Estimated Construction Cost w/Contingency			$1,526,181

Say $ 1.53 million


BOSTON POST ROAD
RT. #1
AVERY LANE
REQUEST FY24
SPRING 2023
REMOVE EXISTING SIGNS & TREE
RELOCATE EXISTING LIGHT POLE
REMOVE AND RESET EXISTING SIGNS
RECLAIM PAVEMENT AND BASE TO 10" DEPTH (TYPICAL)
SAW-CUT EXISTING PAVEMENT
REMOVE BIT. CURB (TYPICAL)
REMOVE BITUMINOUS WALK
REMOVE BIT. CURB (TYPICAL)
RECLAIM PAVEMENT AND BASE TO 10" DEPTH (TYPICAL)
REMOVE EX. CONCRETE CURB
SAW-CUT EXISTING PAVEMENT
REMOVE CONCRETE SIDEWALK
POLICE HEADQUARTERS
HOMELAND SECURITY AREA
WATERFORD YOUTH SERVICES CENTER
EMERGENCY COMMUNICATIONS CENTER
FIRE MARSHAL OFFICE
TOWN OF WATERFORD
NOTES:
1. REMOVE EXISTING SITE LIGHTING POLES AS INDICATED.
2. REMOVE EXISTING CATCH BASIN TOPS WITHIN THE CONSTRUCTION AREA AS INDICATED. EXISTING BASE STRUCTURES & PIPES TO REMAIN EXCEPT AS NOTED.
3. REMOVE TREES AS INDICATED.
4. REMOVE EXISTING BITUMINOUS CURBING AS INDICATED.
5. REMOVE EXISTING BITUMINOUS SIDEWALK AS INDICATED.
6. REMOVE EXISTING GRASS ISLAND.
LEGEND
PROPERTY LINE
BITUMINOUS CURB
EDGE OF PAVEMENT
DRAINAGE PIPE
EXISTING TREE LINE
FENCE
UTILITY POLE
SITE LIGHT POLE
SIGN
PAVEMENT TO BE RECLAIMED
CURB TO BE REMOVED
GRASS ISLAND TO BE REMOVED
SIDEWALK TO BE REMOVED
SCALE: 1" = 40'
HALEY WARD
TOWN OF WATERFORD
300 BOSTON POST ROAD
PUBLIC SAFETY COMPLEX IMPROVEMENTS
PAVEMENT RECLAMATION & DEMOLITION PLAN
3 OF 10

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Building Maintenance	CONTACT PERSON Gary J. Schneider
PROJECT NAME Cohanzie School Buildings - Vacant	DEPARTMENT PRIORITY 5

1 DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)

The building continues to deterioate. The roof has been breached, all the windows have been boarded up and the front door has now been chained shut. Due to the roof breach, the floors had water damage and the indoor air quality is questionable. Funds are requseted to engage in a consulting engineer to develop abatement and demolition plans and cost estimates to complete the demolition at Cohanize School site, which involves the removal of building and its foundations, removal of asphalt pavements, final grading and loaming and seeding of the site and the capping of the sanitary sewer and removal of the water service. The request for demoliation funds in FY 27 is an estimate based on 7,000 sf at $70/sf.

2 PROJECT STATUS IF IN PROGRESS

None

3 LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST

None

4 DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (Include cost estimate if applicable)

None

5 GRANT FUNDING/OTHER FUNDING, If applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)

None

6 ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)

None

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance		30,000		500,000		
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	0	30,000	0	500,000	0	0

TOWN OF WATERFORD
MEMORANDUM

PUBLIC WORKS
DEPARTMENT

To: File

From: Gary J Schneider

Date: Draft November 13, 2023

Re: Cohanzie School Building

Demolitions of vacant structures will eliminate funding yearly building operating (including security measures) costs, avoids any future costs to stabilize the buildings, reduces the town's potential liability (risk avoidance) and consolidates our real estate footprint.

It also provides the opportunity for further redevelopment or reuse of the sites that are in tune with the changing dynamics of the Town addressing long-term community needs and goals.

The current condition of the building is deteriorating. The roof has been breached, all the windows have been boarded up and the front door has now been chained shut. Due to the roof breach, the floors had water damage and the indoor air quality is questionable.

Estimated costs to complete the demolition at Cohanzie School site, which involves the removal of building and its foundations, removal of asphalt pavements, final grading and loaming and seeding of the site is $195,000. The capping of the sanitary sewer and removal of the water service.

This request is to engage in a consulting engineer to develop abatement and demolition plans and cost estimates.

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Building Maintenance	CONTACT PERSON Gary J. Schneider
PROJECT NAME UST Community Center	DEPARTMENT PRIORITY 6

1	DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)
	Underground storage tanks must be removed when they have reached their service life. The Town has several locations that will require the existing to be removed and if another heating source is not available, an above ground heating oil tank installed. Not only does the tank need to be removed, all the underground piping and soil testing must be completed to properly close out the removal. This requires the certification of a LEP. • Community Center (2033)
2	PROJECT STATUS IF IN PROGRESS
	None
3	LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST
	None
4	DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)
	The issue is not operational budgets, but the possible of the DEEP issuing a Notice of Violation and the costs associated with possible fines and attorney fees.
5	GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)
	None
6	ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (If none, simply state that in the area below)
7	COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	0	0	0	0	0	0

TOWN OF WATERFORD
MEMORANDUM

PUBLIC WORKS
DEPARTMENT

To: File

From: Gary J Schneider

Date: November 13, 2023

Re: Underground Storage Tanks (UST)

A UST must be removed when they have reached their end of service life. The Town has one remaining location that will require the existing tanks to be removed by 2033. The tanks (2) are used as a secondary fuel source for the three boilers at the Community Center/Friendship School. Not only does the tank need to be removed, all the underground piping and soil testing must be completed to properly close out the removal. This requires the certification of a Licensed Environment Professional (LEP).

The location for general government buildings are:

- Community Center/Friendship School

Note: The Fire Houses and Waterford Utility Commission are not covered under this project.

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Building Maintenance	CONTACT PERSON Gary J. Schneider
PROJECT NAME Jordan Park House	DEPARTMENT PRIORITY 7

1	DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)
	The Historic Properties Commission has identified maintenance concerns to the structure and the surrounding area. Work to this structure must adhere to standards for historic properties. Work on the surrounding area can be accomplished with Town Forces, the work to the building itself must be performed by craftsmen skilled in historic properties work. The work to be performed is not restoration work, it is work that must be performed to keep the integrity of the structure sound.
2	PROJECT STATUS IF IN PROGRESS
	None
3	LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST
	None
4	DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)
	None
5	GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)
	None
6	ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)
	Letter dated September 30, 2022 from the Historic Propterties Commission Chair

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital	25,000					
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	25,000	0	0	0	0	0

TOWN OF WATERFORD
MEMORANDUM

PUBLIC WORKS
DEPARTMENT

To: File

From: Gary J Schneider

Date: November 13, 2023

Re: Jordan Park House

The Historic Properties Commission has identified several maintenance concerns to the structure that must be addressed. They are;

- Chimney
- Portico post, east
- Portico gutter, east
- Stair railings
- Roof Slates
- Window Glazing
- Exterior Oil Tank
- Trim trees

Work to this structure must adhere to standards for historic properties performed by craftsmen skilled in historic properties work.

The work to be performed is not restoration work. This work is required to keep the structure sound.

Funding was appropriated in FY23 to start of this work. It is anticipated that additional funds will be required to complete the work.

FIFTEEN ROPE FERRY ROAD
WATERFORD, CT 06385-2886

PHONE: 860-442-0553
www.waterfordct.org

September 30, 2022

Robert J. Brule
First Selectman
Town of Waterford

Dear Rob:

A major concern of the Historic Properties Commission is the deteriorating condition of the Jordan Park House, formerly the Waterford Public Library. We are asking, therefore, for $15,000 - $20,000 to be included in the FY '24 Capital Plan for repairs and site work.

Other than the temporary repair of the basement-entry roof, no maintenance of any consequence has been performed since 2001-2002.

Features in need of attention/repair (See photos):
- Chimney (urgent)
- Portico post, east (liability, urgent)
- Portico gutter, east
- Stair railings
- Roof slates (repair/replace missing/damaged)
- Window glazing (primarily south-facing sashes)
- Oil Tank (code?)
- Trim trees, north boundary
- Other?

The Park House is one of the most historically and architecturally significant buildings in town and is an established historic property pursuant to CGS 7-147p – 7-147y and Ch. 2.86, Code of Ordinances. Both the building and the land were gifts to the town, the former by Anna Rumrill Hammond, and the latter by the Nevins sisters, on both Great Neck Road and the present park site. (See "Jordan Park House"). Continuing to ignore the condition of the building is nothing short of irresponsible and an insult to civic-minded women to whom we should honor.

Furthermore, the Waterford Historical Society has brought increasing attention to the park (commonly called the "green") in recent years with programs and events for all ages. The Historical Society, in fact, still has use of the Park House albeit on a limited basis. Its maintenance, therefore, is all the more important especially in light of liability issues.

Meanwhile funding possibilities will be explored for a much-needed structural condition assessment and feasibility study.

Thank you for your consideration and interest.

Respectfully,

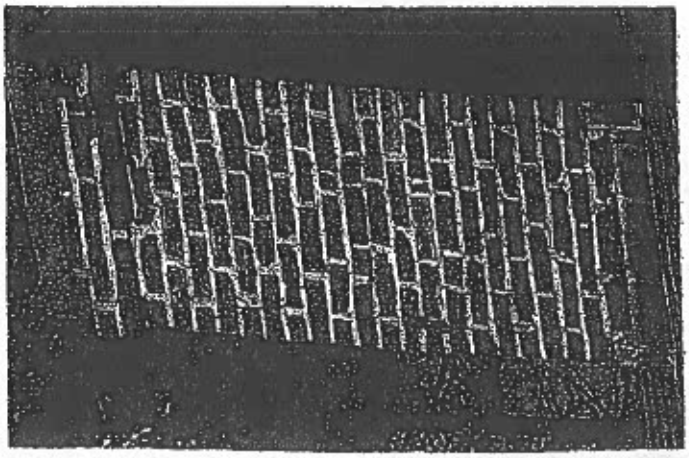
John J. O'Neill, Jr., Historic Properties Commission Chairman

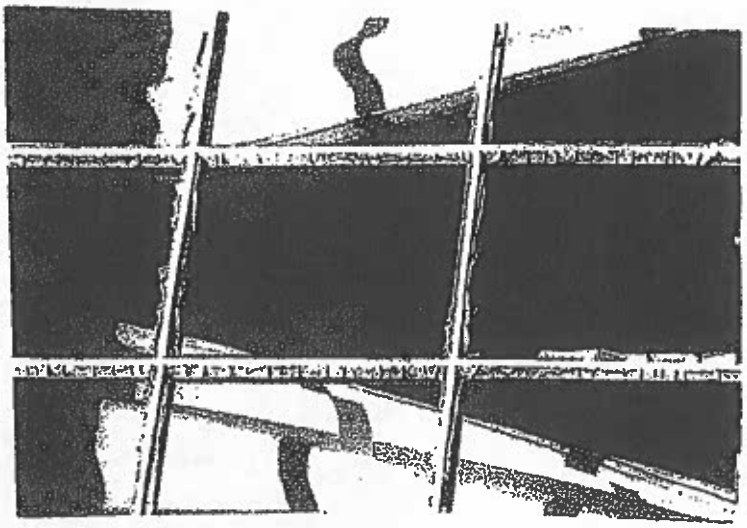
Robert M. Nye, Municipal Historian

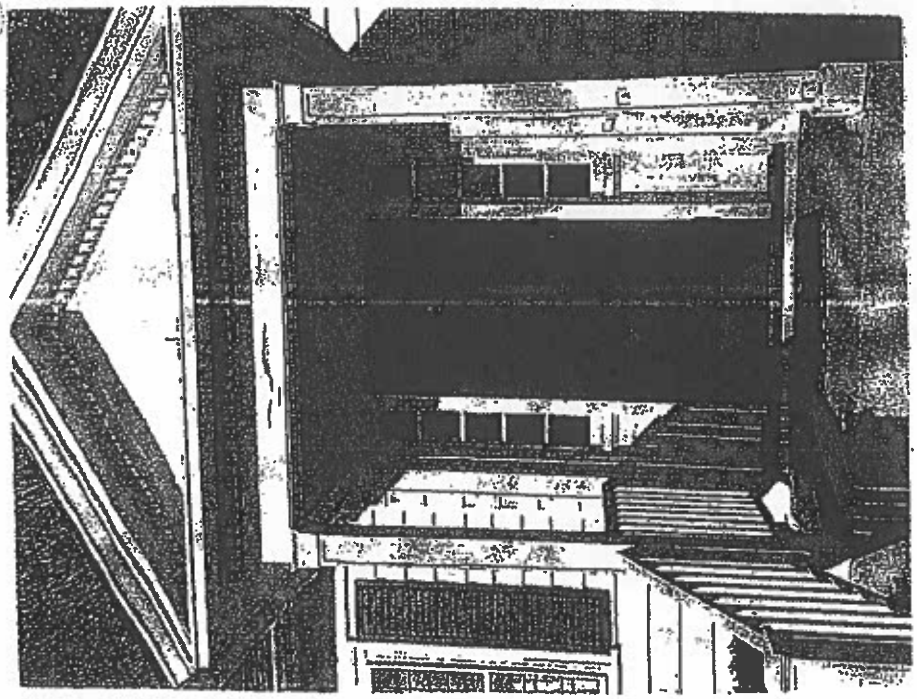
Attachments: "Jordan Park House" (included in the 1999 application for historic property designation).
Photos.

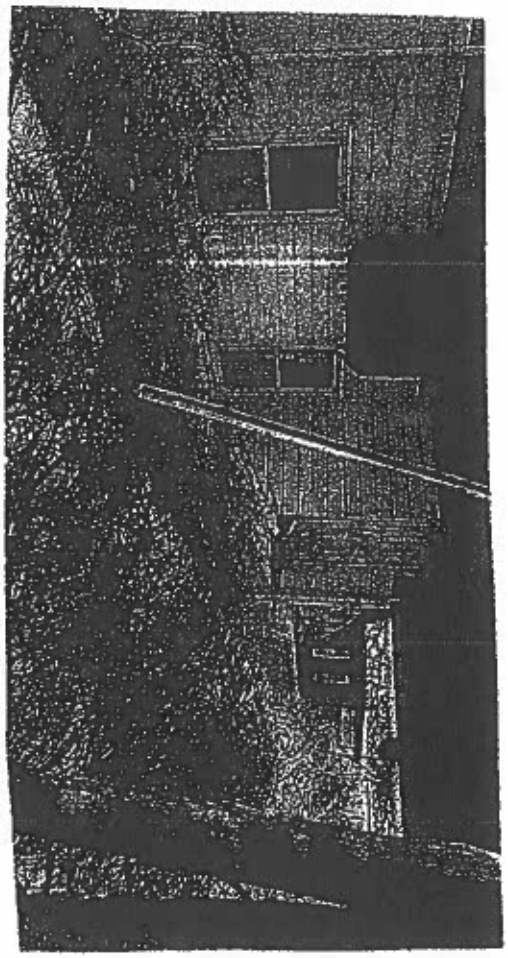
c.c.: Gary Schneider, Director, Public Works Department
Abby Piersall, Director, Planning & Development
Brian Flaherty, Director, Recreation & Parks
Kristen Widham, President, Waterford Historical Society

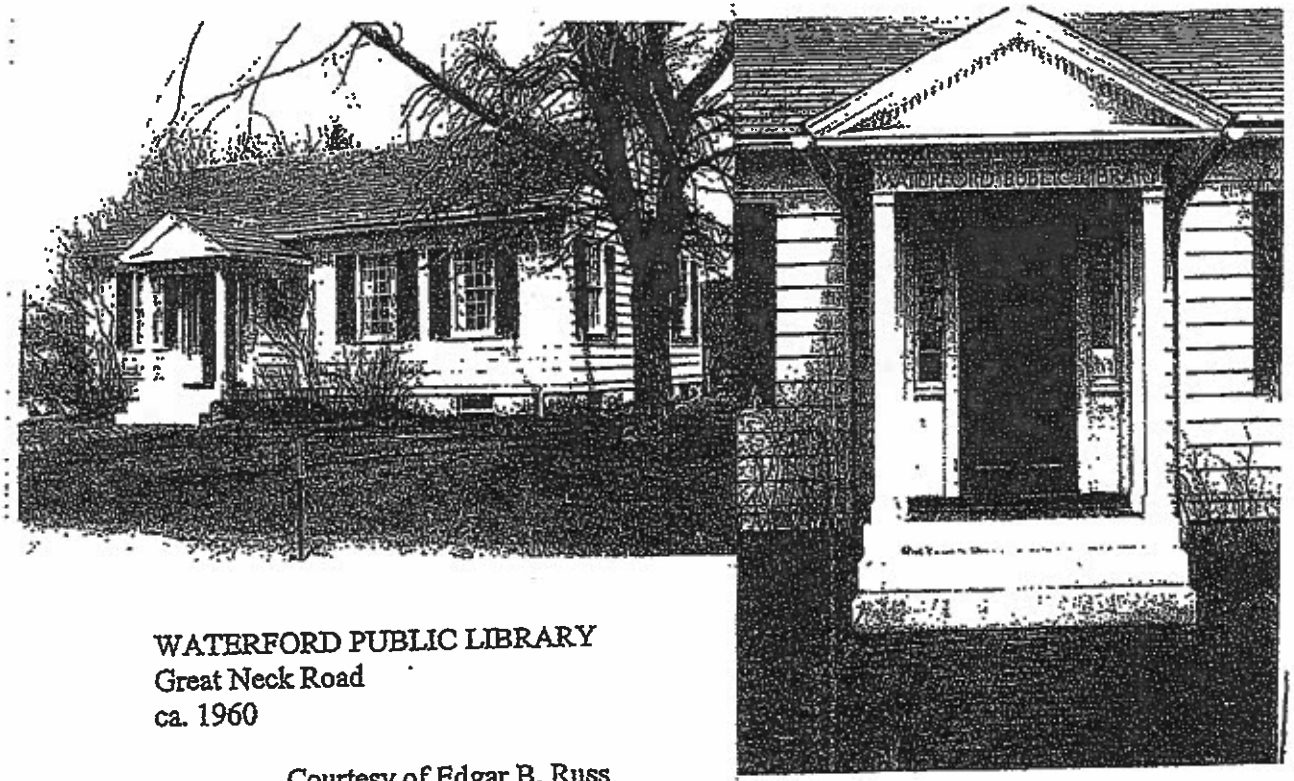
RECEIVED
OCT 3 2022
PUBLIC WORKS











WATERFORD PUBLIC LIBRARY
Great Neck Road
ca. 1960

Courtesy of Edgar B. Russ

FIFTEEN ROPE FERRY ROAD

Town of Waterford

WATERFORD, CT 06385-2886

NOTE; The following was included as part of the application for historic property designation, 1999.

JORDAN PARK HOUSE

Proposed Historic Property

The proposed historic property is the Jordan Park House located at 65 Rope Ferry Road. Constructed in 1928, the building was the town of Waterford's first purpose-built library. Originally located approximately a quarter of a mile to the south on Great Neck Road, the building was moved to its present site in 1961. Today the Park House houses the offices of the Waterford Historical Society and is used extensively by a variety of community groups.

Historical Significance

Realizing the need for a public library, both for the school children and the adults of the town, a group of civic-minded citizens met at the Jordan School on May 3, 1922 and voted to form a library association. The following year, on May 22, 1923, the articles of incorporation were signed. With donated furnishings and a collection numbering 1,302 books, the town's first library opened on March 1, 1924 in a shed on the property of Mrs. William (Rose) Saunders at 90 Rope Ferry Road in Jordan Village. (The ca. 1889 building was originally the shop of carriagemaker Orlando Gilbert).

In an effort to obtain a more adequate facility, a building fund was established, which by early 1927 amounted to $473.52. Meanwhile, Mrs. Edward Crowninshield Hammond announced to the library committee her intention of giving a library to the town in memory of her parents, James and Anna Chapin Rumrill.

Anna Rumrill Hammond's father was the Vice-president of the Boston and Albany Railroad which was founded by her grandfather, Chester W. Chapin of Springfield, Massachusetts. The Rumrills built a summer "cottage" at Goshen Farm in the late 1870s. The property included part of today's Harkness Memorial State Park as well as the farm to the west, recently conveyed to the state by Ostrom Enders. The Rumrill's summer residence burned around 1916, though the brick garage survives today on the Harkness property.

After their marriage in 1905, Edward C. Hammond brought Anna to his Walnut Grove Farm, today's Eugene O'Neill Memorial Theater Center. Hammond was president of the New London Northern Railroad and was active in civic affairs, serving the town in the state legislature and chairing the town's first board of finance. He was a driving force behind the building of the town's first hall of records (1936) on Boston Post Road.

Meanwhile, Anna Hammond acquired a little over a quarter of an acre "on the northeasterly side of the highway leading from Jordan Village to Great Neck" from the Nevins sisters, Anna Louise, Cornelia Leonard, and Marian Nevins MacDowell, wife of the noted composer, the late Edward MacDowell. The new library building was formally opened on September 8, 1928.

By the post-World War II years, however, the library became hard-pressed to meet the demands of Waterford's mushrooming population. When the State Highway Department condemned it for the new railroad overpass and realignment of Great Neck Road in January 1959, the building had already outgrown itself. On March 14, 1961, the library re-opened in temporary quarters at 91 Rope Ferry Road in the recently vacated post office (across the street from its original 1924 site in Jordan Village). The present library, across from the Nevins homestead, was opened February 25, 1966.

In the meantime, the library association had donated their building to the town on August 7, 1961. It was moved later that year to its present site, the northwest corner of Jordan Village Park, a 3.8 acre gift of land from Anna L. Nevins to the town (1952). At the Representative Town Meeting of August 6, 1962, it was resolved that: "The Old Waterford Library Building, now located in Jordan Park be hereafter known as Jordan Park House." The building was formally re-opened as a community house the following month on September 30. Until 1984 the Park House served as the offices of the Department of Recreation and Parks and since then, the Waterford Historical Society, Inc.

Architectural/Cultural Significance

The Jordan Park House is a fine example of the Colonial Revival style. Notable features include 12-over-12 windows, an interior end chimney which services the large fireplace, and a denticulated cornice at the eaves of the slate-covered, gable roof. The entrance bay and vestibule are defined by a pedimented gable carried on square posts. A lunette window fills the west gable end.

The interior has plastered walls, chair rail and hand hewn ceiling beams. The fireplace is well-proportioned with vertical pine paneling above. A painting by Waterford resident Henry C. White, an original member of the Old Lyme art colony, at one time hung over the fireplace (it now hangs in the present library). The

landscape oil was a gift of Henry and his son Nelson C. White in 1929. Anna Rumrill Hammond reportedly furnished the library "entirely in the colonial manner," even to the extant lighting fixtures and hooked rugs. Today, a print of the old library building by another Old Lyme impressionist (and former Waterford resident), the late Roger Dennis, hangs over the fireplace mantel.

National Register of Historic Places

The inventory of Jordan Village, which included the Jordan Park House, was completed and submitted to the Connecticut Historical Commission in early 1990. Later that same year, the Jordan Village Historic District was listed on the National Register of Historic Places. Architectural historian Mary E. McCahon was retained by the Jordan Village Historic District Committee to conduct the survey and prepare the nomination application. The attached inventory of the Park House was completed by Waterford Municipal Historian Robert M. Nye and reflects some minor changes and corrections to Ms. McCahon's original submission.

11/27/2023

TOWN OF WATERFORD
CAPITAL IMPROVEMENT PLAN
PROJECT CONSOLIDATION FORM FY 2025-2029

	DEPARTMENT/ AGENCY:							
DEPT PRIORITY	PROJECT NAME	FUNDING SOURCE	FISCAL YEAR 2024-2025	FISCAL YEAR 2025-2026	FISCAL YEAR 2026-2027	FISCAL YEAR 2027-2028	FISCAL YEAR 2028-2029	TOTAL
1	Goshen Roof replacement	1	125,000					125,000.00
1	Quaker Hill Roof Replacement	1		50,000				50,000.00
2	Bunk Room Reno/Jordan	6		55,000				55,000.00
2	Bathroom Reno/Jordan	6		65,000				65,000.00
1	Shylight replacment Comp 5	1	30,000					30,000.00
								-
								-
								-
								-
								-
								-
								-
	TOTALS		155,000.00	170,000.00	-	-	-	325,000.00

INDEX TO FUNDING SOURCES,

1 CURRENT YEAR CAPITAL IMPROVEMENTS
2 UTILITY BUDGET/SEWER CAPITAL MAINTENANCE FUND
3 TRANSFER TO CAPITAL & NONRECURRING.
4 SHORT AND LONG TERM DEBT FINANCING
5 LoCIP
6 CNR UNDESIGNATED FUND BALANCE
7 FEDERAL/STATE GRANTS
8 OTHER FUNDING

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Waterford Fire services	**CONTACT PERSON** Chief Michael J. Howley
PROJECT NAME Company 3 Roof replacement	**DEPARTMENT PRIORITY** 1

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	Goshen fire station roof has been giving us problems for the last three years. Contractor has been out making repairs/patches as needed. Both the flat roofing 2/3 of roof and pitched shingle roof 1/3 needs to be replaced. Contractor stating membrane material is at life end and showing signs of severe aging. The single ply materials are streching, delaminating and tenting. This materials is becoming brittle and causing holes and getting worse.Leaks are being caused by voids in membrane. Leaks are causing damage on the interior insulation and tiles. Repairs have been made to carry us through the winter.
2	**PROJECT STATUS IF IN PROGRESS**
	Repairs have been made again in fall of FY 24 hoping this will get us through the winter months. Getting quotes/estimates for roof project for FY 25 budget.
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
	Normal budget process will not cover cost of roof replacment project.
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
	Budget process will not cover roof replacment. Working on estimates with contractors for CIP FY 25. Project estimates will be attached.
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
	N/A
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	Attached
7	**COST/FUNDING SOURCE**

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital		125,000				
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**0**	**125,000**	**0**	**0**	**0**	**0**

Office of the Director
Waterford Fire Department
204 Boston Post Road
Waterford CT. 06385

11/27/23

First Selectman Rob Brule
15 Rope Ferry Road
Waterford, CT 06385

RE: Backup Material for Goshen Roof Replacement Project

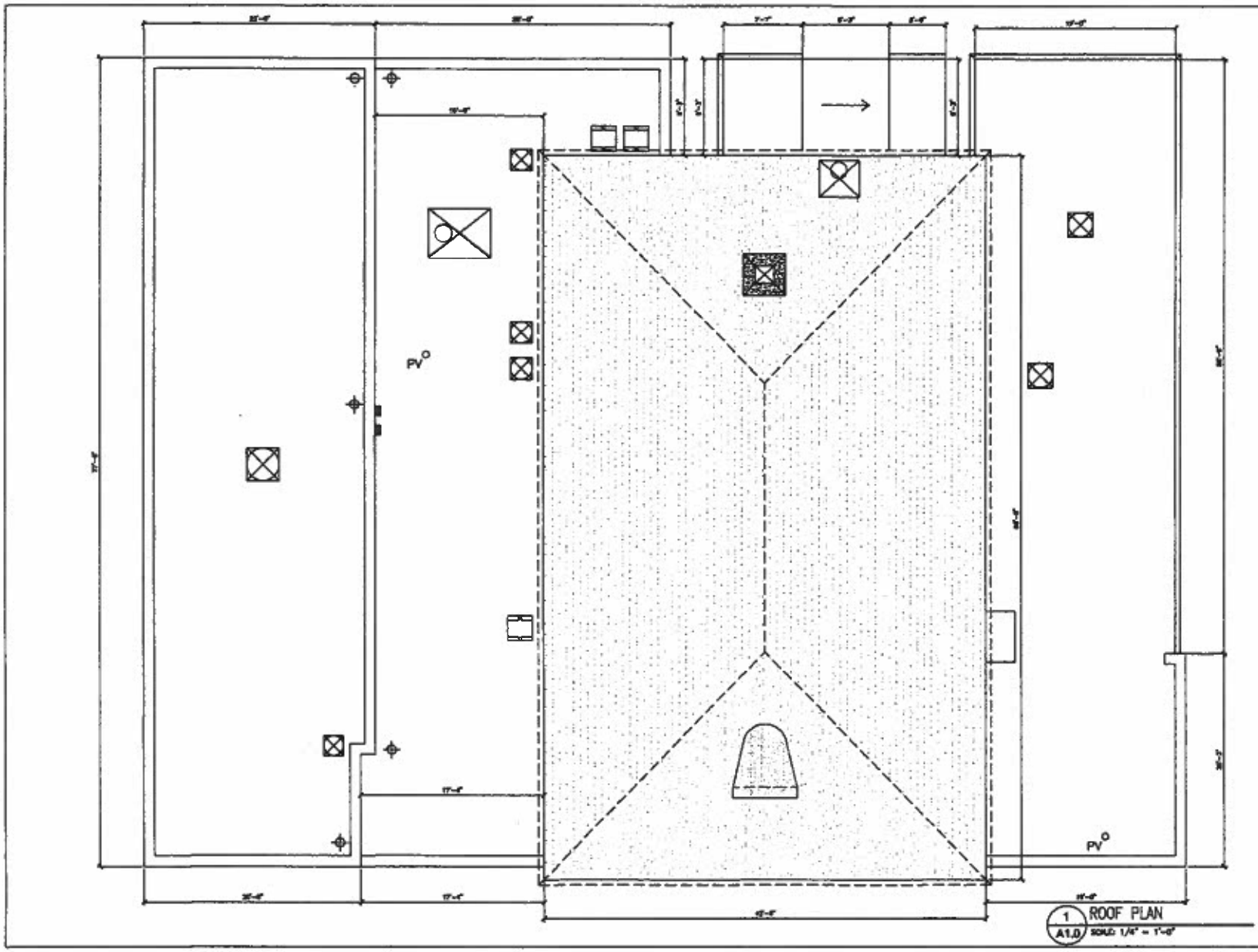
As the Director of Fire Services I am submitting this backup material for the Goshen Fire House Roof replacement project. Our Fire Stations are the stability in our Community and the need to maintain these facilities is great. This roof has had many repairs over the last couple years and recommended to replace. I have attached plan layout and photos to support project. I would recommend once approved project go out to bid ASAP in the F/Y

Director Fire Services,

M.J.H.

Chief, Michael J. Howley

C. C. file



TREMCO

Goshen Fire Department Inc

63 Goshen Rd.
Roof Replacements

63 Goshen Rd, Waterford, CT 06385

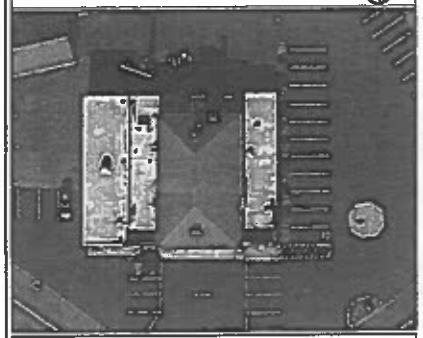
DATE	No.	REVISIONS

Issued for Review:
26 OCT 2023

Roof Plan

A1.0

SITE LOCUS PLAN



EXISTING ROOF CONSTRUCTION

CORE "A"

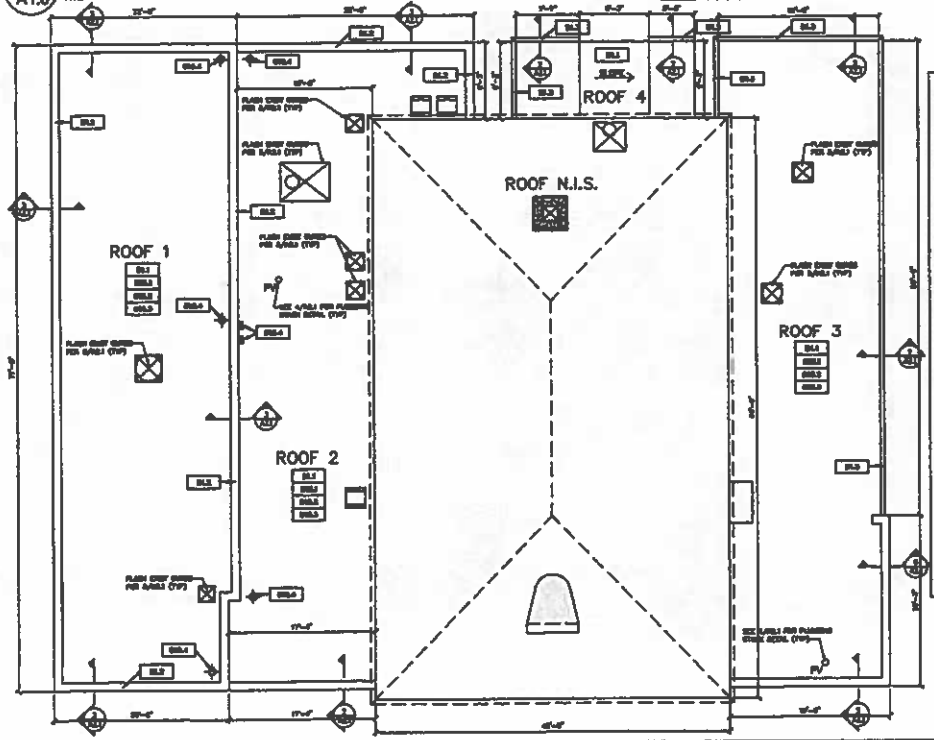
DECKING:	METAL DECK
VAPOR BARRIER:	N/A
SUBSTRATE BOARD:	1/2" PERLITE
INSULATION:	1 1/2" POLYISOCYANURATE INSULATION
COVER BOARD:	1/2" HD30 FIBER BOARD
ROOF:	TPO/PVC

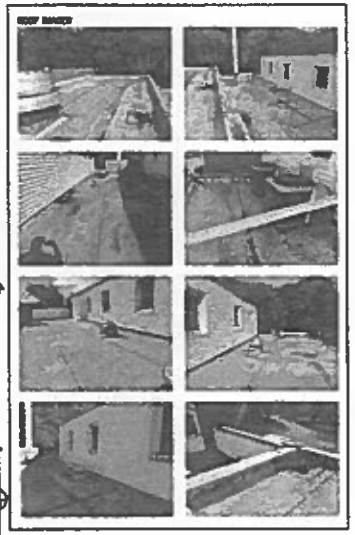
DEMOLITION GENERAL WORK NOTES:

GENERAL CONSTRUCTION NOTES:

1 A1.0 ROOF WORK PLAN

NTS





TREMCO
Building & Building Maintenance

Project Owner: Goshen Fire Department Inc

Project: 63 Goshen Rd
Roof Replacements

Location: 63 Goshen Rd, Waterford, CT 06385

DATE	No.	REVISIONS

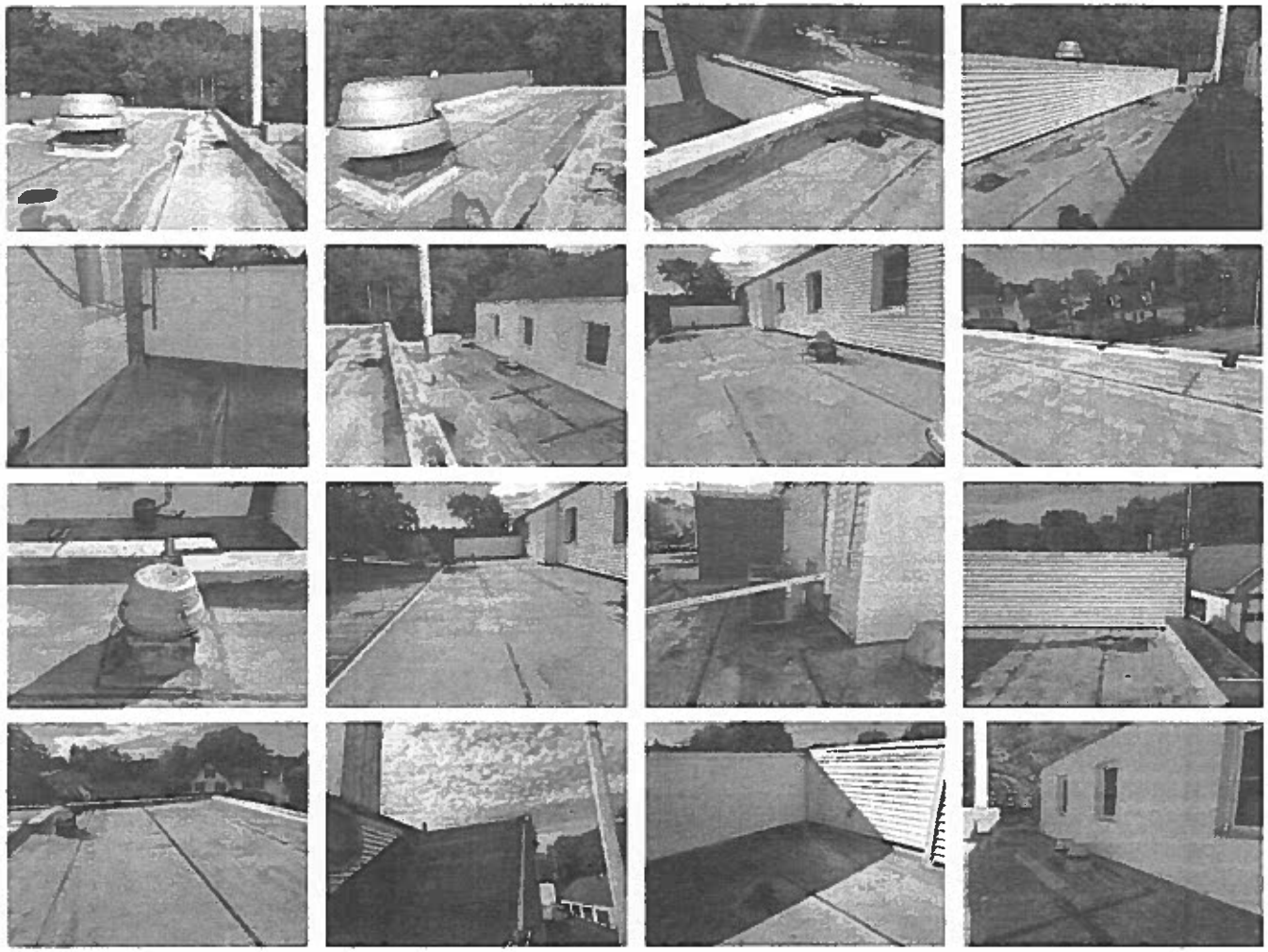
DRAWN BY: CDS | APPROVED: M.BONDERSKI | DATE: 26 OCT 2023

DRAWING STATUS:
Issued for Review:
26 OCT 2023

DRAWING NAME:
Roof Work Plan
& General Notes

DRAWING NUMBER:
A1.1

ROOF IMAGES



TREMCO
Roofing & Building Maintenance

Project Owner: Goshen Fire Department Inc

PROJECT: 63 Goshen Rd
Roof Replacements

LOCATION: 63 Goshen Rd, Waterford, CT 06385

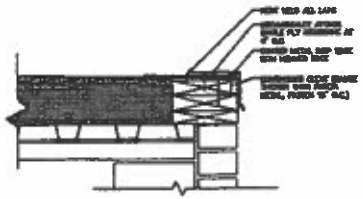
DATE	No.	REVISIONS

DRAWN BY	APPROVED	DATE
CDS	M SANDMANN	26 OCT 2023

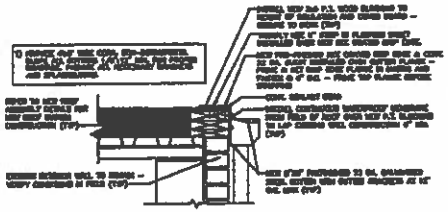
DRAWING STATUS:
Issued for Review:
26 OCT 2023

DRAWING NAME:
Roof Images

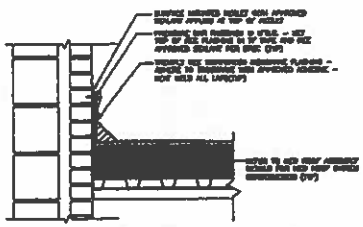
DRAWING NUMBER:
A1.2



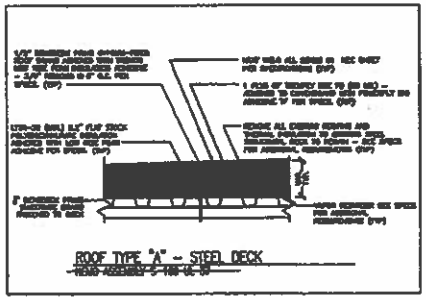
3 / A2.1 TYPICAL FASCIA DETAIL



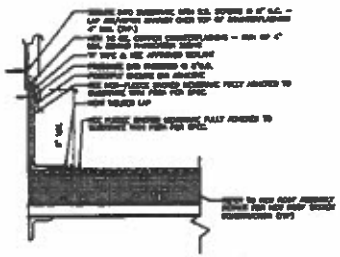
2 / A2.1 TYPICAL GUTTER FLASHING DETAIL



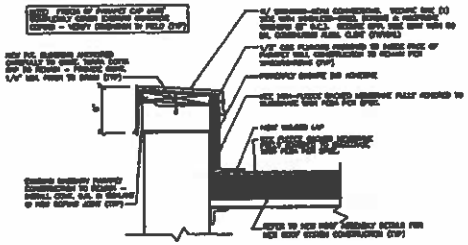
1 / A2.1 COUNTER-FLASHING @ MASONRY WALLS



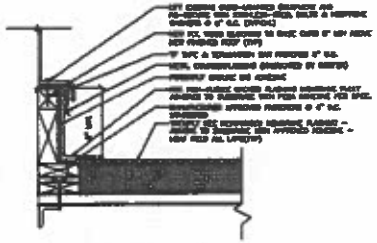
ROOF TYPE "A" – STEEL DECK



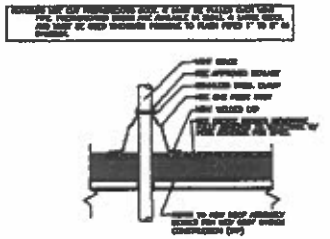
7 / A2.1 WALL COUNTERFLASHING DETAIL



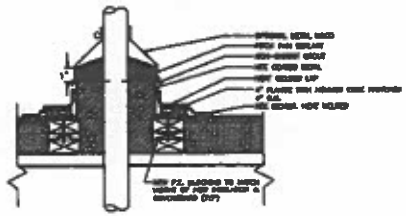
8 / A2.1 PARAPET COPING DETAIL



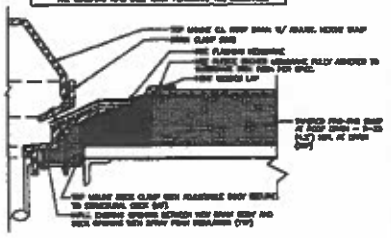
5 / A2.1 CURB FLASHING DETAIL



4 / A2.1 PREFORMED PIPE FLASHING



9 / A2.1 PITCH POCKET FLASHING DETAIL



6 / A2.1 ROOF DRAIN DETAIL

TREMCO
Roofing & Building Maintenance

Project Name: Goshen Fire Department Inc

PROJECT: 63 Goshen Rd Roof Replacements

LOCATION: 63 Goshen Rd, Waterford, CT 06385

DATE	NO.	REVISIONS

DRAWN BY	APPROVED	DATE
CDS	M BOUDREAU	26 OCT 2023

DRAWING STATUS:
Issued for Review:
26 OCT 2023

DRAWING NAME:
Roof Details

DRAWING NUMBER:
A2.1

Goshen Fire Department

Organized September 1927 — Incorporated February 1928
63 GOSHEN ROAD
WATERFORD, CONNECTICUT 06385-3731

October 13, 2023

Robert Brule
First Selectman
Town of Waterford
15 Rope Ferry Road
Waterford, CT 06385

Dear First Selectman Brule,

We are writing regarding the Town of Waterford Capital Improvement Plan. In budget year 2020/2021, the Goshen Fire Department's second floor replacement plan was included in the amount of $15,000. The project was included in the Capital Improvement Plan for the years 2021/2022, 2022/2023 and 2023/2024, however, the project was never funded. The Goshen Fire Department understands that other town projects were given priority. The department did our own fund raising, reached out to corporate sponsors and we have completed the project. It can be removed from the Capital Improvement Plan.

At this time, we have an issue that needs attention. Our department has many flat roofs which have had leaks and repairs over the years. When the repairs were done, we were told that the roofs needed replacement. The main lobby area that was repaired is part of the original fire station built in 1947. The boat bay area that was repaired was built in 1980. We now have an additional area in the bunkroom which has 3 active leaks. The bunkroom is part of the 1980 addition.

We are requesting that this project be added to the Capital Improvement Plan and given funding approval. If there are any questions, please contact us.

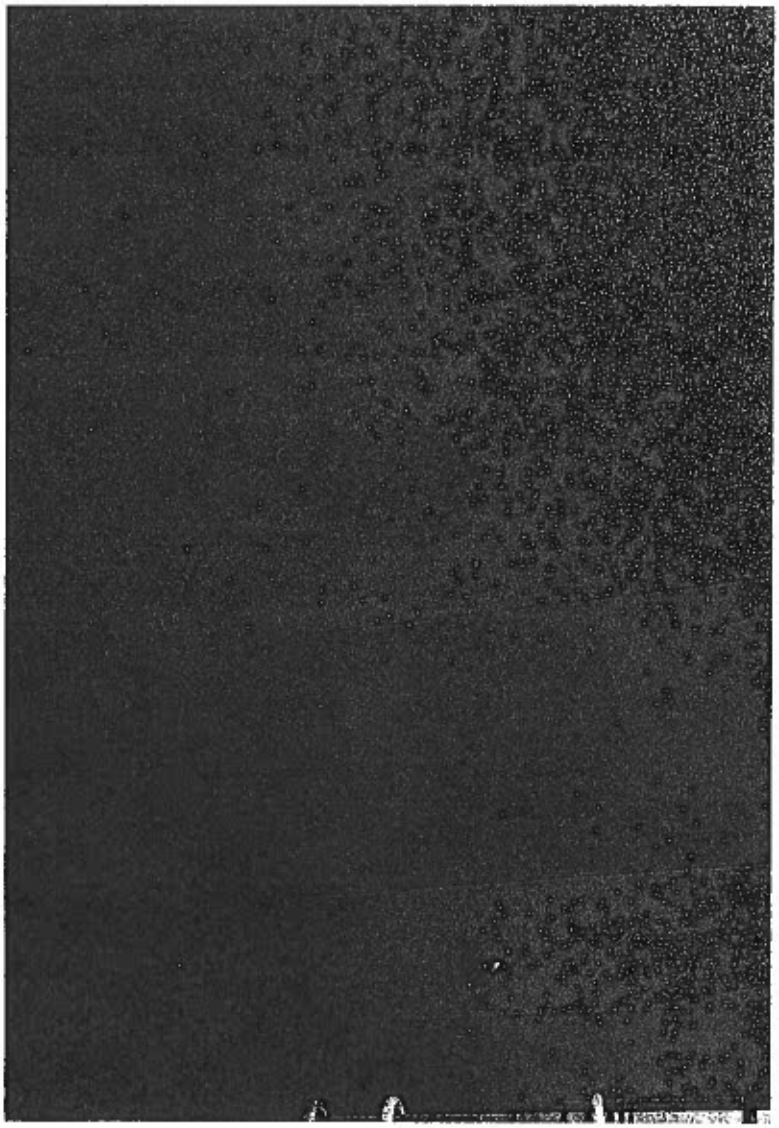
Respectfully submitted,

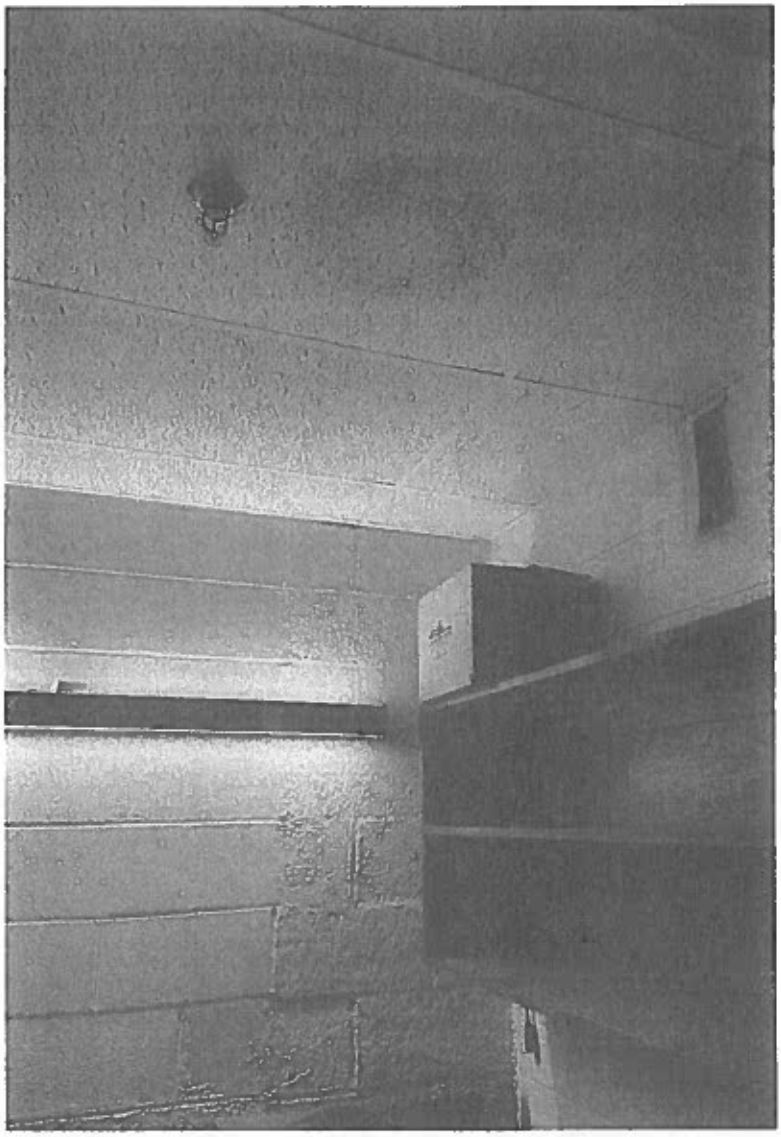
Todd A. Patton
Todd Patton
Chief, Goshen Fire Department

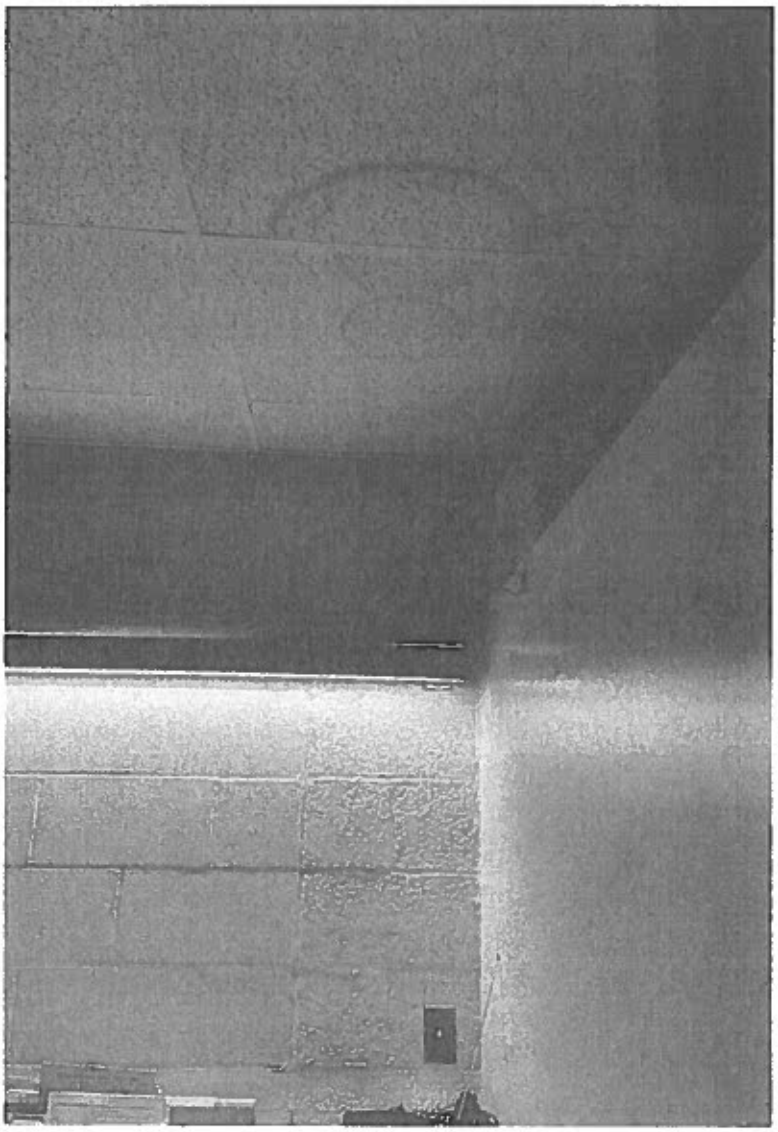
Thomas Dembek
Executive Board, Goshen Fire Department

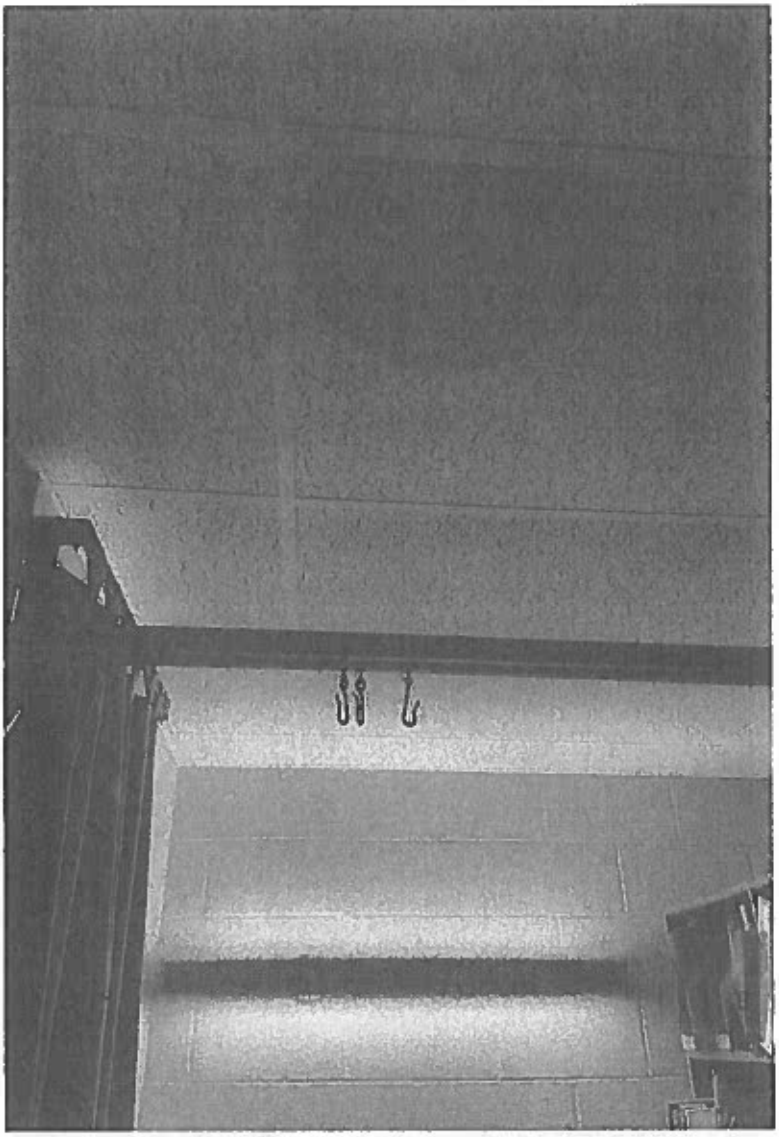
CC: Kim Allen, Finance Director
Michael Howley, Director of Fire Services

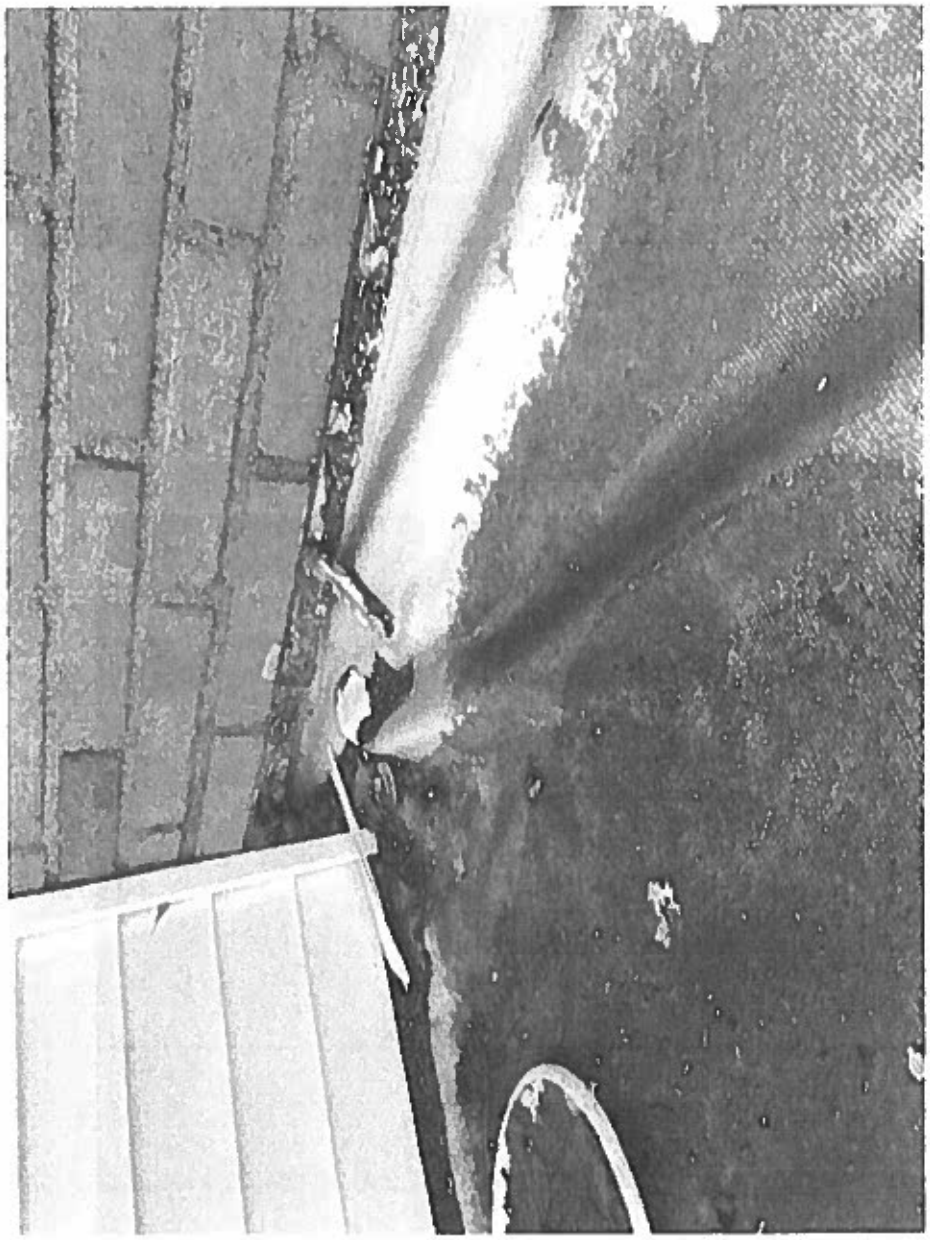
Bunkroom Leaks

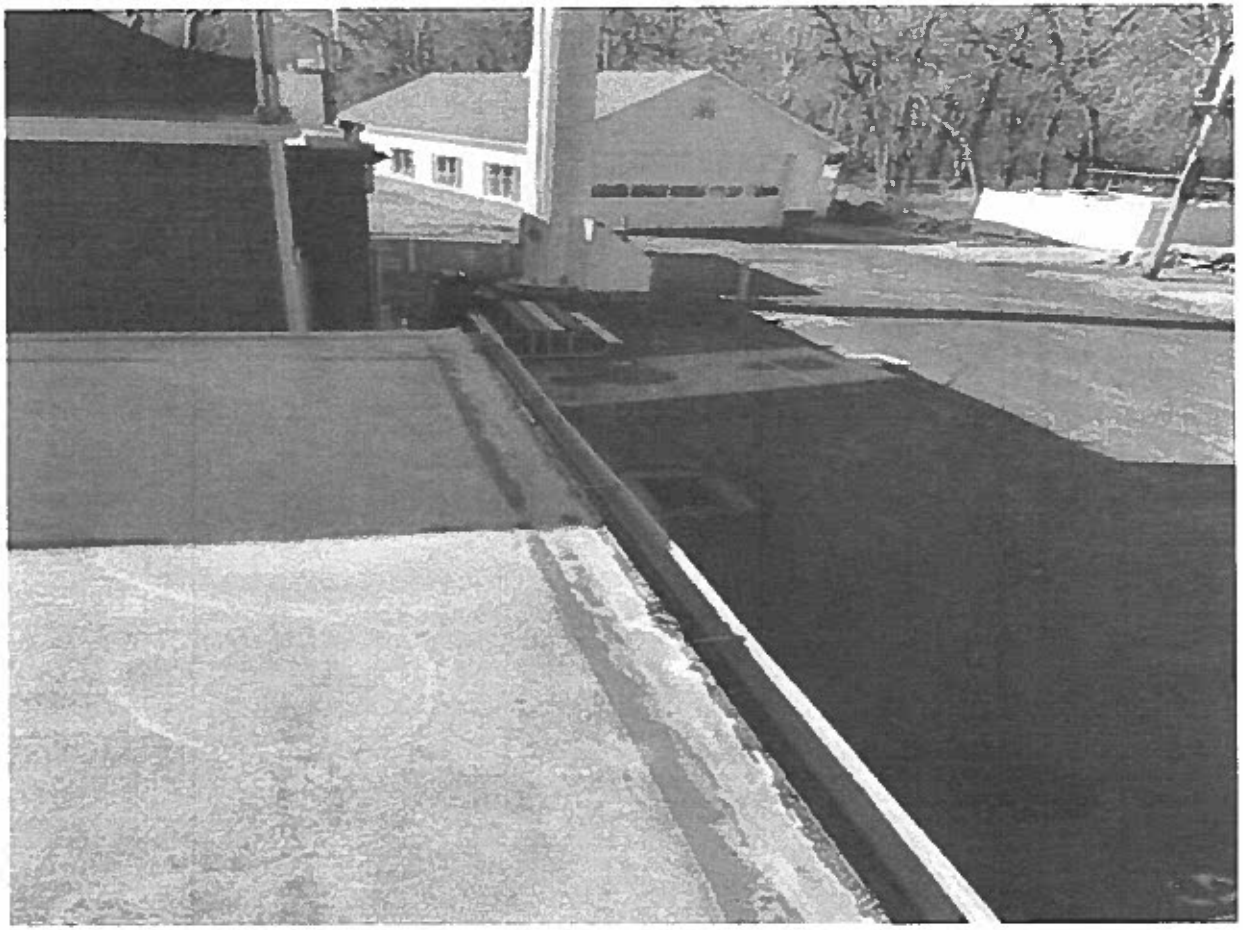












TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Fire Services	**CONTACT PERSON** Chief Michael J. Howley
PROJECT NAME Quaker Hill Partial Roof Replacement	**DEPARTMENT PRIORITY** 1

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	The current roof was partially replaced by an insurance claim in 2021. At that time recommendations to replace flat roof area soon. Showing signs of deterioration.
2	**PROJECT STATUS IF IN PROGRESS**
	Aquiring quotes
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
	Operating budget would not be able to handle this replacment
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
	N/A
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	N/A

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital	0		50,000			
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**0**	**0**	**50,000**	**0**	**0**	**0**

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY	**CONTACT PERSON**
Fire Services	Chief Michael J. Howley
PROJECT NAME	**DEPARTMENT PRIORITY**
Bunk Room Renovations Jordan	2

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	Bunk room at our busleast station is in need of renovations, carpeting, painting, new lighting, new bunks, and lockers for firefighters. These bunk room area has not been updated in 25 years and in need to meet our current and future growth needs
2	**PROJECT STATUS IF IN PROGRESS**
	Aquiring quotes
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
	Operating budget would not be able to handle this renovations
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
	N/A
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	N/A

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital	0	55,000				
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**0**	**55,000**	**0**	**0**	**0**	**0**

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY	**CONTACT PERSON**
Fire Services	Chief Michael J. Howley
PROJECT NAME	**DEPARTMENT PRIORITY**
Jordan Bathroom Renovations	2

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	Bathroom at our busieast station is in need of renovations, painting, new lighting, new fictures. New shower facilities to meet new standards.These bathrooms has not been updated in 35 years and in need to meet our current and future growth needs
2	**PROJECT STATUS IF IN PROGRESS**
	Aquiring quotes
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
	Operating budget would not be able to handle this renovations
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
	N/A
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	N/A

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital	0	65,000				
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**0**	**65,000**	**0**	**0**	**0**	**0**

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY	**CONTACT PERSON**
Fire Services	Chief Michael J. Howley
PROJECT NAME	**DEPARTMENT PRIORITY**
Chohanzie Bay area Shylights	1

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	The Skylights in the apparatus area are original to that addition built in 1977 and in very poor shape causing leaks. Replacment needed on all six units. The wood framing on the interior is rotted and also needs to be replaced.These shylights give us significant savings on lighting in the apparatus area and should be replaced.
2	**PROJECT STATUS IF IN PROGRESS**
	Aquiring quotes
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
	Operating budget would not be able to handle this renovations
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
	N/A
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	Attached backup and area of work

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital	0	30,000				
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**0**	**30,000**	**0**	**0**	**0**	**0**

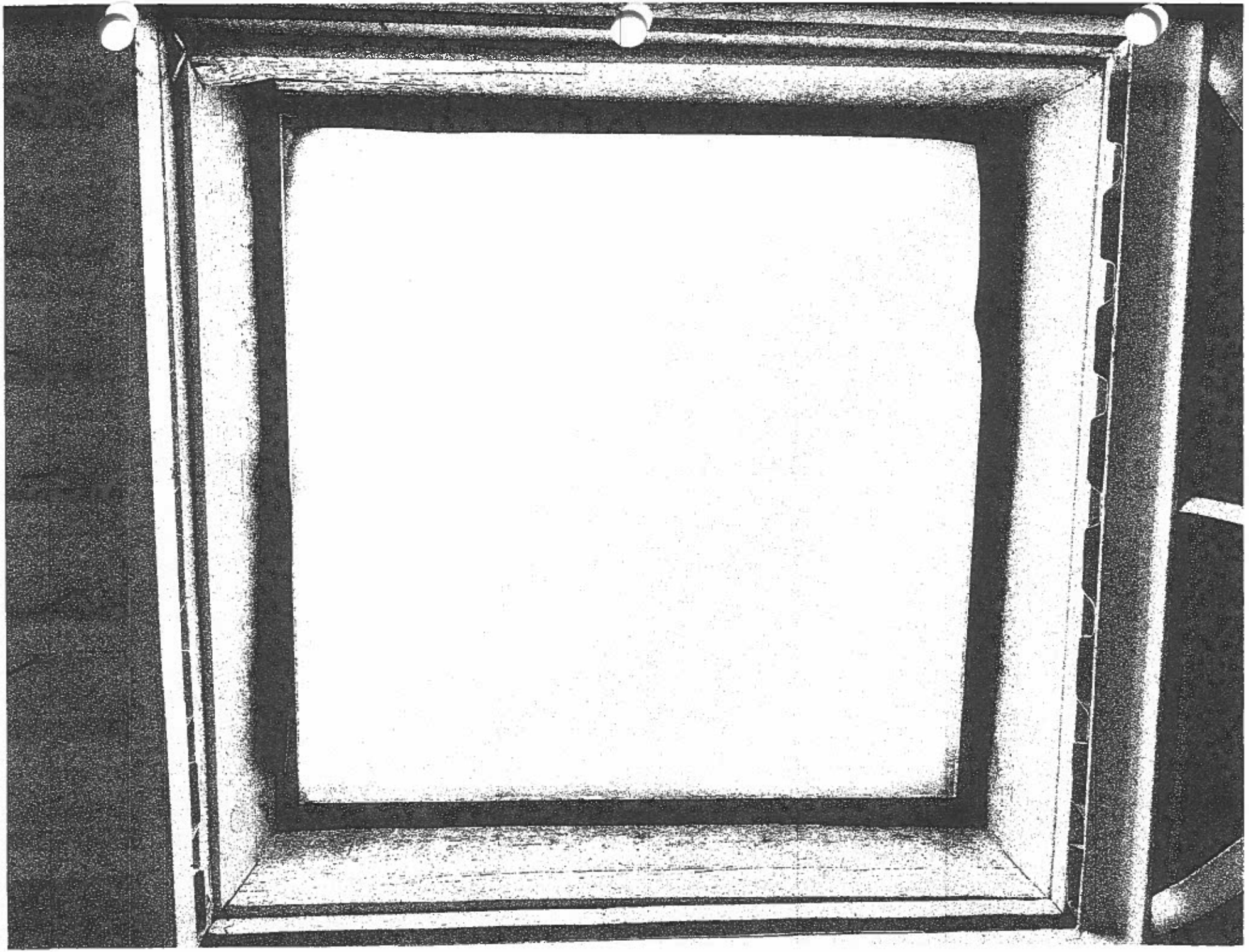
BAY RESTORATION LLC
550 NEW HAVEN AVE
MILFORD, CT 06460
203.693.2141

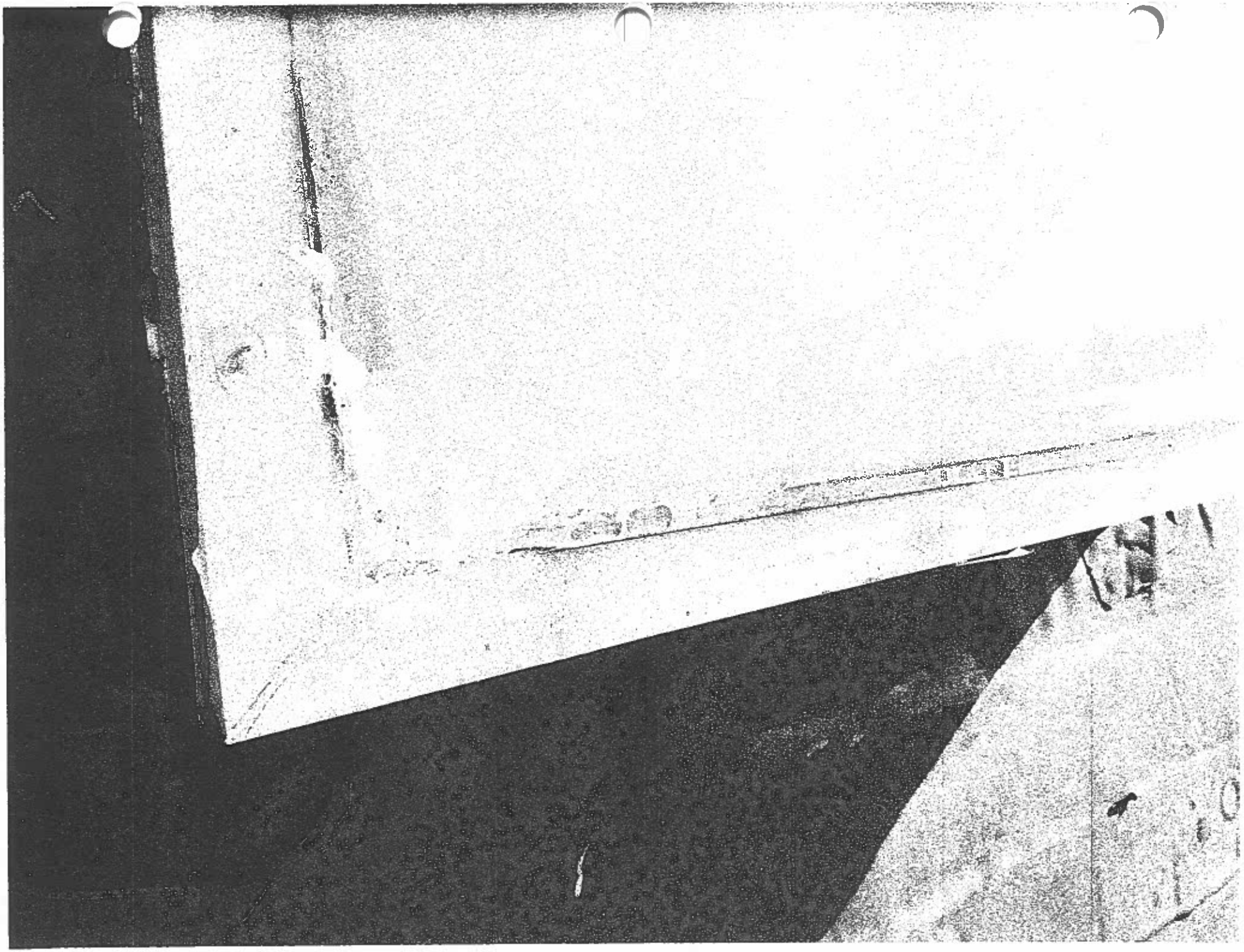
(REVISED) Quote

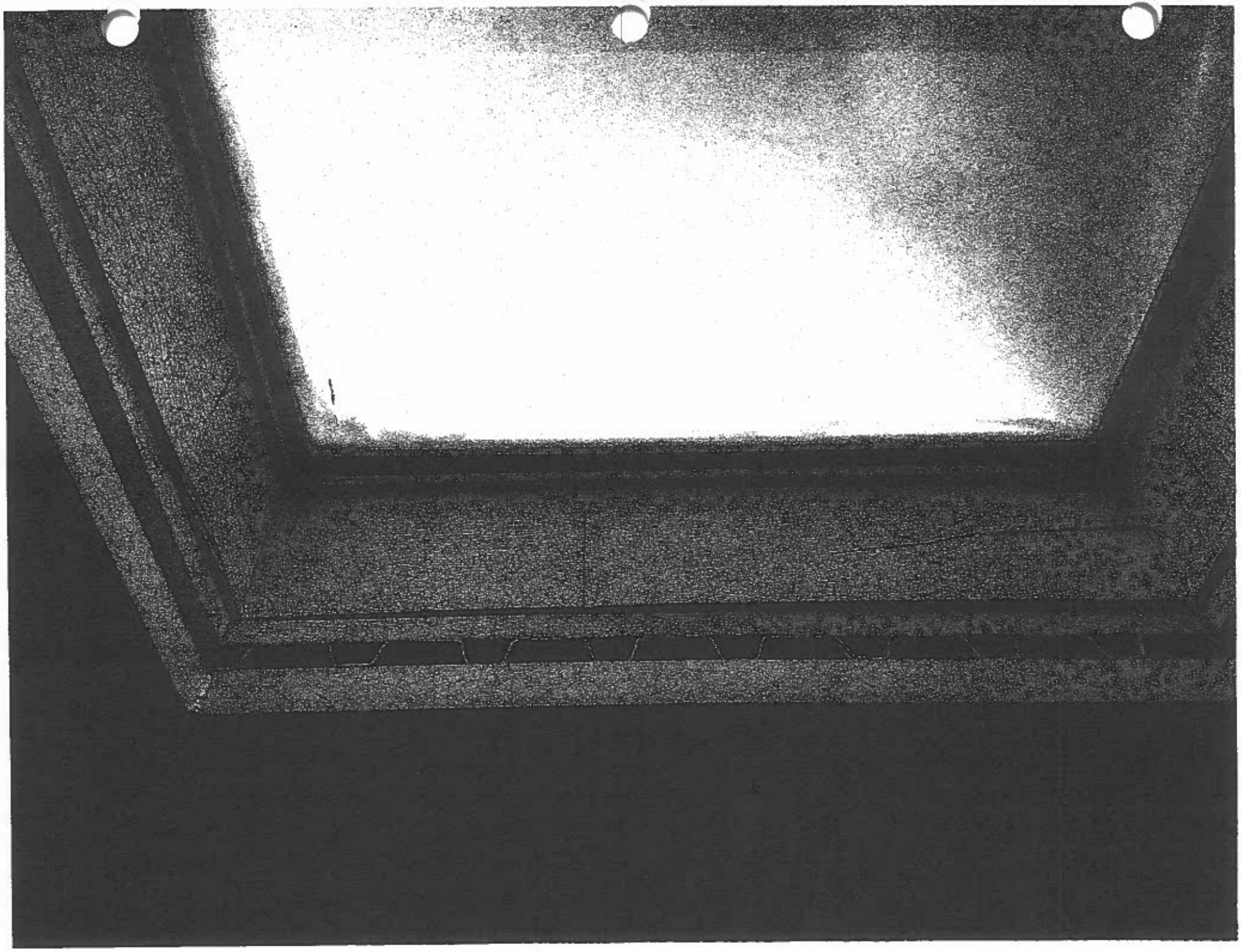
Bill To MICHAEL HOWLEY
RE: WATERFORD FIRE DEPT
53 DAYTON ROAD
WATERFORD, CT

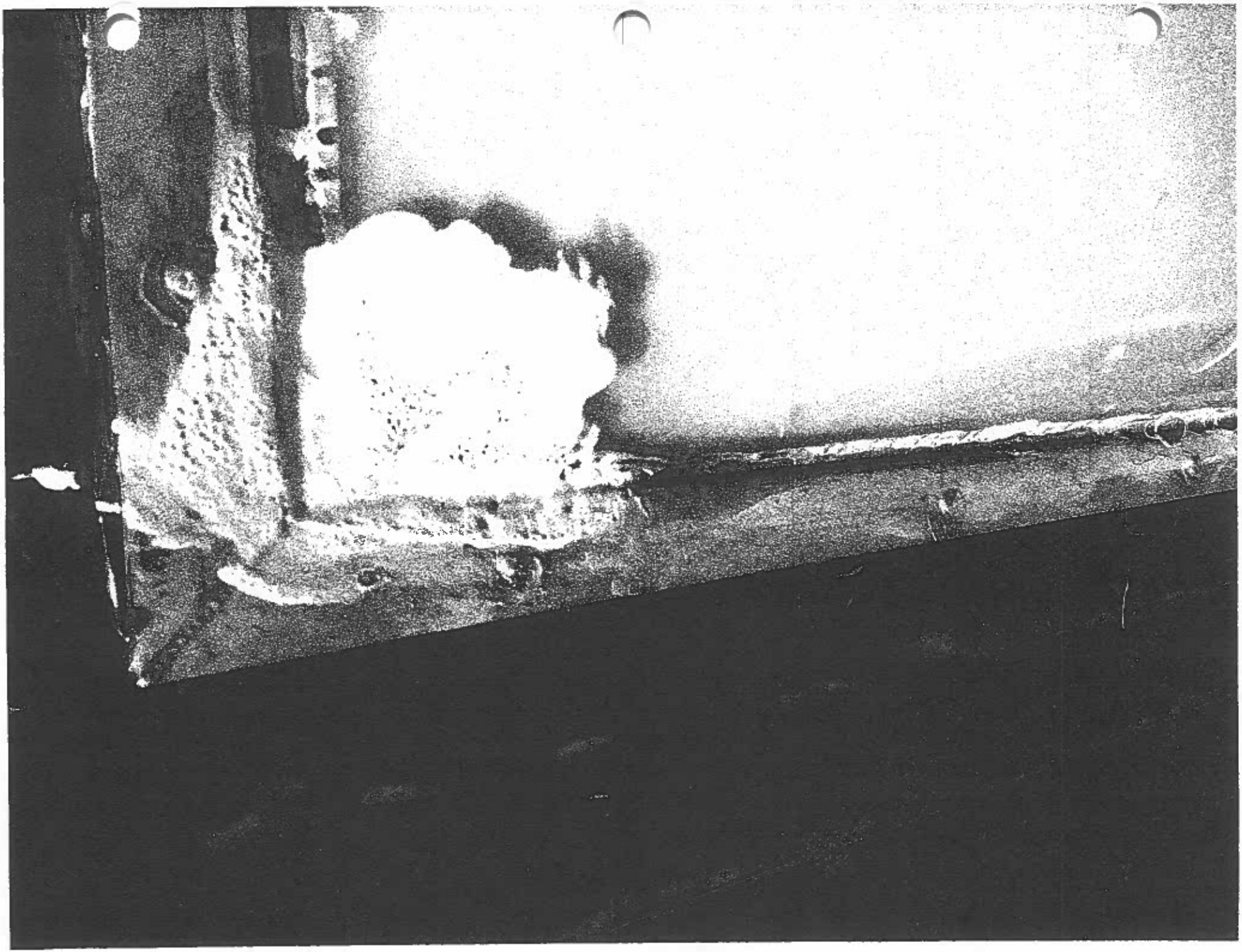
Quote no. 118
Date 11/30/2023

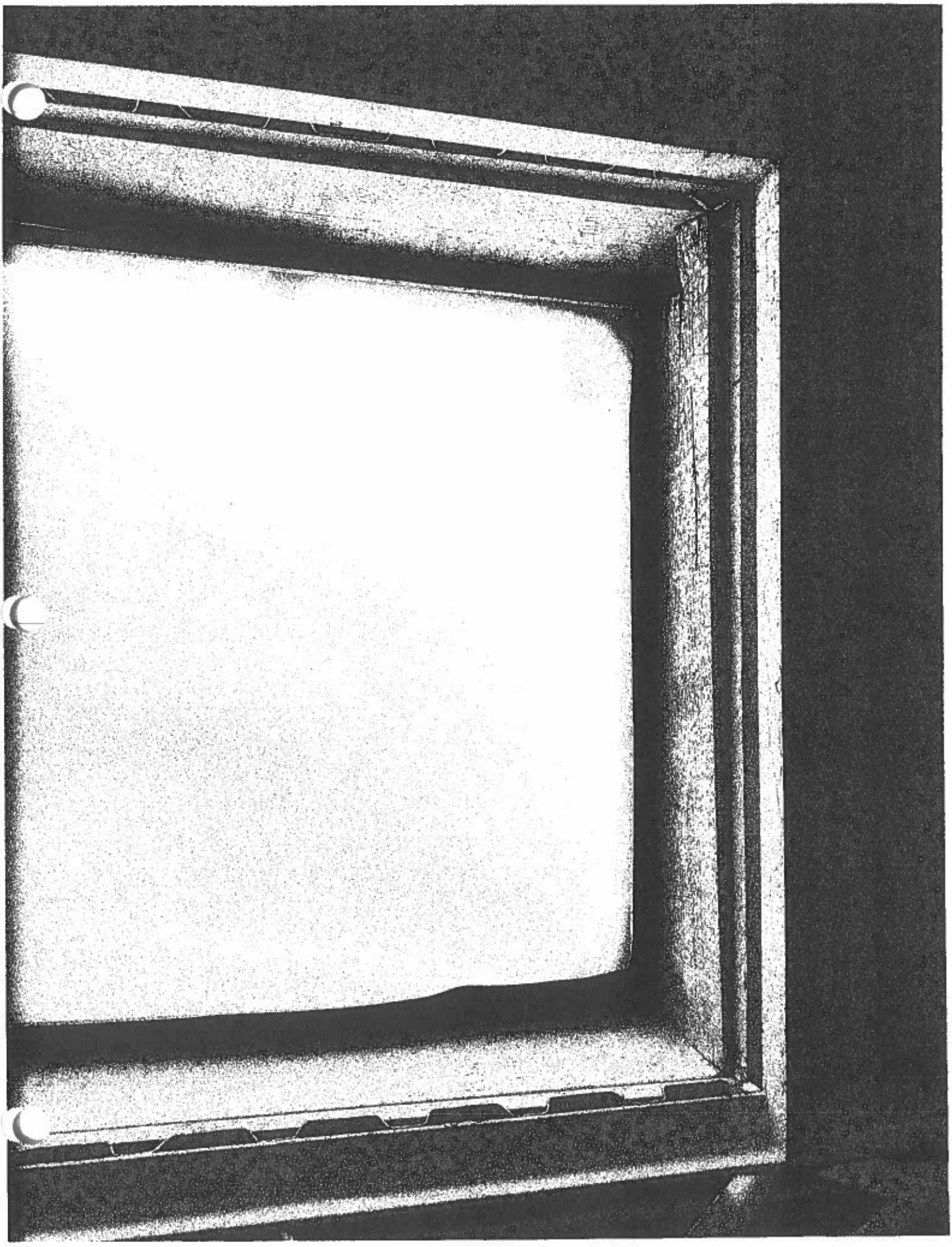
Description	Quantity	Unit price	Amount
(6) VELEZ SKYLIGHTS WITH CURBS	1	$13,800.00	$13,800.00
REFLASH TO NEW ROOF	1	$0.00	$0.00
REPLACE ROTTEN WOOD ON INTERIOR	1	$9,700.00	$9,700.00
		Total Due	$23,500.00











TOWN OF WATERFORD
CAPITAL IMPROVEMENT PLAN
PROJECT CONSOLIDATION FORM-FY 2025-2029

	DEPARTMENT/ AGENCY:							
DEPT PRIORITY	**PROJECT NAME**	**FUNDING SOURCE**	**FISCAL YEAR 2025**	**FISCAL YEAR 2026**	**FISCAL YEAR 2027**	**FISCAL YEAR 2028**	**FISCAL YEAR 2029**	**TOTAL**
1	Firearms/Laser Site Transition	1	53,289					**53,289**
2	Cell Block Renovation	1	25,575					**25,575**
	Marine Unit Updates (1/2) with ELPD	1		40,000				**40,000**
	Kitchen Renovation	1			35,000			**35,000**
	Locker Rooms Update (3 Year Plan)	3				73,000	73,000	**146,000**
								0
								0
								0
	TOTALS		**78,864**	**40,000**	**35,000**	**73,000**	**73,000**	**299,864**

INDEX TO FUNDING SOURCES.

1 CURRENT YEAR CAPITAL IMPROVEMENTS
3 UTILITY BUDGET/SEWER CAPITAL MAINTENANCE FUND
3 TRANSFER TO CAPITAL & NONRECURRING.
4 SHORT AND LONG TERM DEBT FINANCING
5 LoCIP
6 CNR UNDESIGNATED FUND BALANCE
7 FEDERAL/STATE GRANTS
8 OTHER FUNDING

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Police Department	**CONTACT PERSON** Chief Marc Balestracci
PROJECT NAME Firearms/Laser Site Transition	**DEPARTMENT PRIORITY** 1

1 DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)

The Waterford Police Department is seeking to transition to laser sites on all department issued handguns. This transition, which has been completed by many agencies across the state, is partially a result of the Bristol PD incident in which two officers were killed and the suspect was later shot by an injured officer. It also provides benefits to the officer, nearby citizens and the town.

During the Bristol incident, confirmed through their Chief of Police, the officer who shot the person responsible for murdering two officers, was using a laser site handgun. Without that specialized equipment, many believe that the injured officer may not have been able to neutralize the suspect, may have hit others nearby and could have delayed controlling the situation.

In many police involved shootings, the psychophysical response to the body can cause the officers to miss their targets when firing their weapons. Even with regular and intense training, the body's natural reaction can create an environment in which a highly trained officer can miss their intended target causing grave concerns for those in and around the incident. In addition, if this equipment can reduce the likelihood of a missed target during a shooting, the town's liability will be significantly reduced.

From local departments we have been in contact with, we have learned that adding this equipment has significantly improved qualification scores of most officers as well. In addition, our firearms instructors have been testing these items for several months to ensure that the benefits were accurate and that this transition would be of value to our officers and the public we serve.

This project covers the cost of trading in our current firearms for new, receiving the laser sites and housing attachments, as well as purchasing a new holster for all 52 officers.

2 PROJECT STATUS IF IN PROGRESS

3 LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST

4 DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)

5 GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)

6 ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital		53,289				
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS		**53,289**	**0**	**0**	**0**	**0**

Witmer
PUBLIC SAFETY GROUP, INC.

101 Independence Way
Coatesville, PA 19320
www.wpsginc.com
ecarlson@officerstore.com
(860) 818-0437

Quote

Quote#	QUO134311
Date	11/08/2023
Exp. Date	12/08/2023

Bill To:
Waterford Police Department Ct
41 Avery Ln
Waterford, CT 06385-2202
United States

Ship To:
JAKE NICKERSON
Town Of Waterford Police Dept
41 Avery Ln
Waterford CT 06385-2202
United States

Glock 45MOS,

ID	Name	Terms	Sales Rep	Shipping Method
13249	Waterford Police Department Ct	Net 30	Erik Carlson	FedEx Ground

#	Item Name	Description	Quantity	Unit Price	Amount
1	GLOCK-PA455S202MOS	GLOCK 45MOS, GEN5, Fixed Sights, 3-17Rd Mags, BL GLOCK, Model 45, Semi-Auto, 9mm Front Slide Serrations, Blue Label	52	429.00	22,308.00
2	CHP-GL-RSH	C&H Precision GLOCK MOS V4 MIL / LEO to RMR / SRO / Holosun 407C / 507C / 508T	52	67.00	3,484.00
	TRIJ-SRO1-C-2500003	Trijicon SRO Sight Adj Led 5 Moa Red Dot	52	547.00	28,444.00
4	GL-506	Ameriglo Glock 3XL Tall MOS / Suppressor set (17-41) Black serrated .365" FRONT, Flat Black .451" REAR	52	41.00	2,132.00
5	Trade In SKU for Quote	----- CREDITS FOR ITEMS TRADED IN ----- QTY 49 - Glock 45 - $275.00 *** Trade-In Items Must be Returned within 60 days of New Product Delivery ***		-13,475.00	-13,475.00

ACCEPTANCE OF QUOTATION

The above prices,specifications, and conditions are satisfactory and are hereby accepted.

Freight charges are estimated at the time of quote. Applicable freight costs will apply at time of shipment.

Quotation is valid until Dec 08,2023

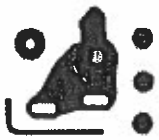
Signature: _____ Date: _____

Subtotal:	42,893.00
Discount:	0.00
Tax Total:	0.00
Freight:	35.00
Total:	**42,928.00**

← CONTINUE SHOPPING

LOGIN

YOUR CART



MODEL 6006 ALS® GUARD

SKU 1330191 **PART** 6006-2-21 **MODEL** 6006

Typically ships within 21 business days. Special order items may take longer.

DRAW HAND: Right

PRICE	$17.25
QUANTITY	− 52 +
TOTAL	$897.00
REMOVE	×

7395RDS - 7TS™ ALS® LOW-RIDE LEVEL I RETENTION™ DUTY

Stay Up to Date!

FREE SHIPPING UNLOCKED!

LIGHT	Streamlight TLR-1HL
OPTIC	Large Enclosed Emitters Similar to Aimpoint ACRO
COLOR	Black
DRAW HAND	Right
FINISH	Plain

PRICE	$182.00
QUANTITY	52
TOTAL	$9,464.00
REMOVE	X

Free shipping unlocked!

Subtotal: $10,361.00

CHECKOUT

Shipping and taxes calculated at checkout

Military, First Responder, Government Employee and Teacher discount available. Verify with GovX ID to instantly unlock your savings.

GOVX ID

What is GovX ID?

FREE SHIPPING UNLOCKED!

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Police Department	**CONTACT PERSON** Chief Marc Balestracci
PROJECT NAME Prisoner Processing Update	**DEPARTMENT PRIORITY** 2

1 DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)

The Waterford Police Department cell block is in very poor condition. The counters used for processing, the shelving and counters near the sink and fingerprinting area are original to the building and present several concerns to include safety and the ability to properly clean for biohazard contaminations. The area is poorly lit and the walls and floor all need to be repainted.

This project will replace all counters with stainless steel to match the safety upgrades made in the cells and create a cleaner environment for those being processed after arrest. It will replace all shelving, install new lighting and paint the common area walls and floor.

This project includes at 10% contingency in the event of unforeseen circumstances.

2 PROJECT STATUS IF IN PROGRESS

3 LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST

4 DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)

5 GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)

6 ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital		25,575				
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS		**25,575**	**0**	**0**	**0**	**0**

FRAMING

- Once cabinetry is removed, will assess framing for replacement cabinets and will restructure as needed.

PLUMBING

- Disconnect plumbing from 3 sinks to allow for new cabinets and countertops
- Supply and install one new eye wash station
- Install 3 new single handle kitchen faucets
- Reconnect water and drains to new sinks

ELECTRICAL

- Install three 48" LED strip lights in processing room over fingerprint desk areas
- Building wall brackets to hold LED lights to block walls
- Replacing plugs and switches in three kitchenette areas
- Remove and replacing any old wires as needed
- Add any new outlets in the kitchenette areas as needed

PAINT

- Paint Processing Room walls and floor

TRIM & PAINT

- Install Trim in new areas as needed
- Prime and finish paint trim as needed

CABINETRY & COUNTERTOP

- Install new prefabricated cabinets and countertops in proposed areas per drawing:
  - Processing Room
    - L Countertop in formica of choice and cabinet
    - 3 Finger print wall mounted counter tops in stainless steel
    - 2 wall mounted storage organizers

- Conference Room
  - Small kitchenette upper and lower prefabricated cabinets
  - Solid Surface countertop
- Break Room
  - Upper and lower prefabricated cabinetry for kitchenette area
  - Lower custom cabinetry for second wall
  - Solid Surface countertops on both sets of cabinets

APPLIANCES

- Supply and install the following appliances in the renovated areas: Allowance $3,000
  - Refrigerator comparable to existing style
  - Glass front mini beverage fridge
  - 2 Microwave ovens
  - 4 burner Range cooktop
  - Range hood vent
  - Toaster Oven

COMPLETION

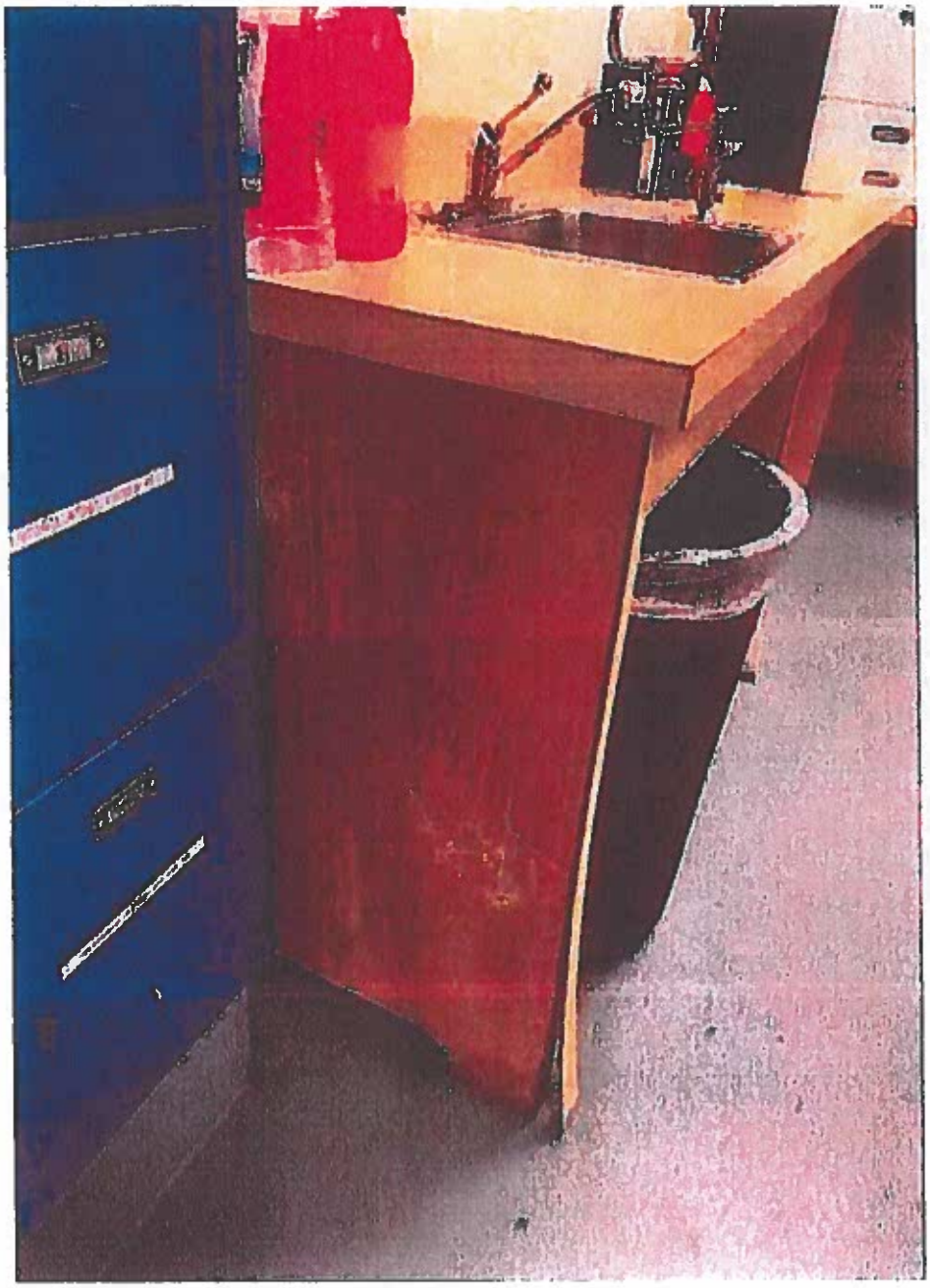
- Remove all debris from the jobsite.
- Thoroughly clean all areas of work.

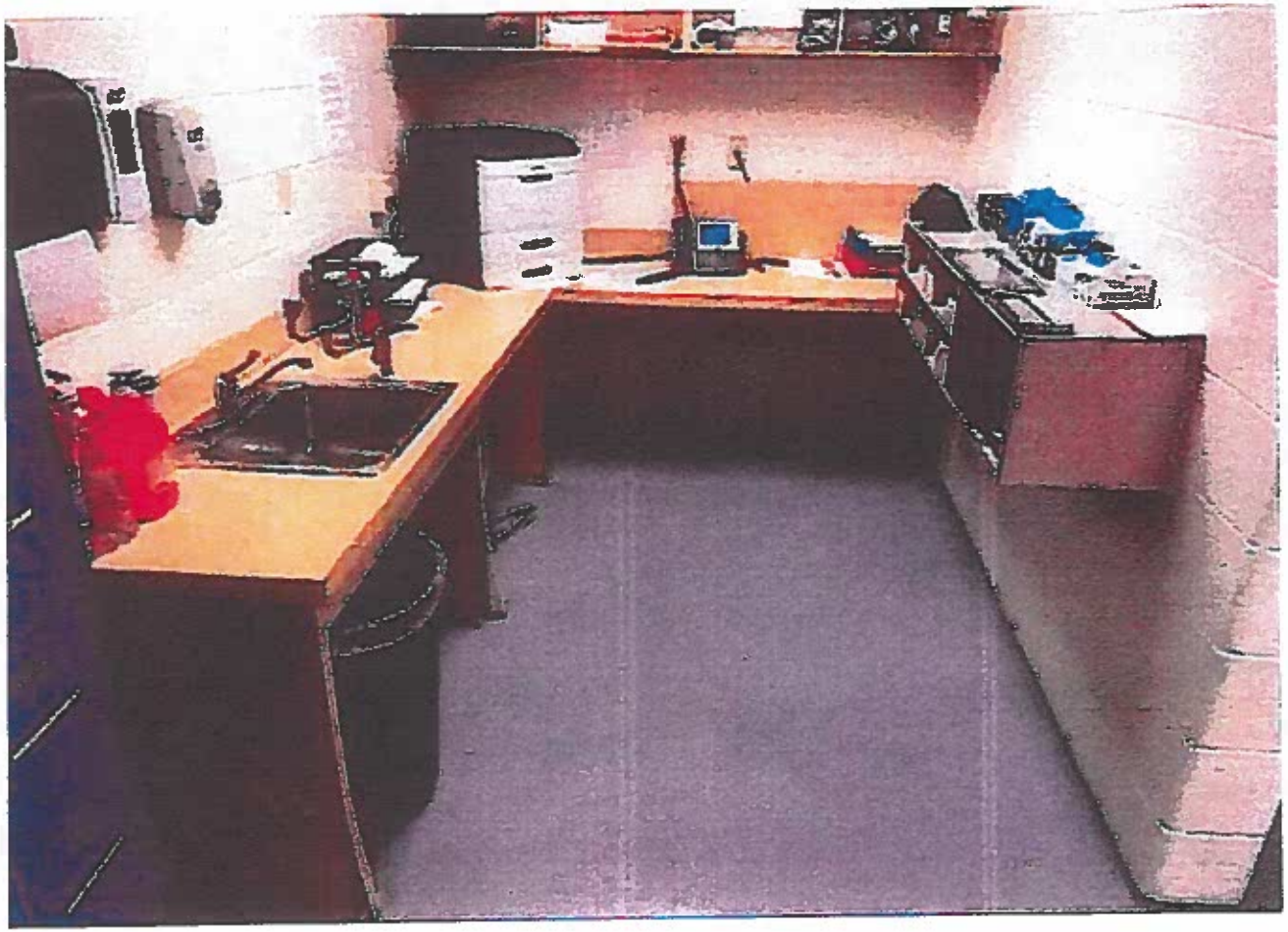
**** Cost for above scope of work including all materials, labor, and sales tax $59,250**

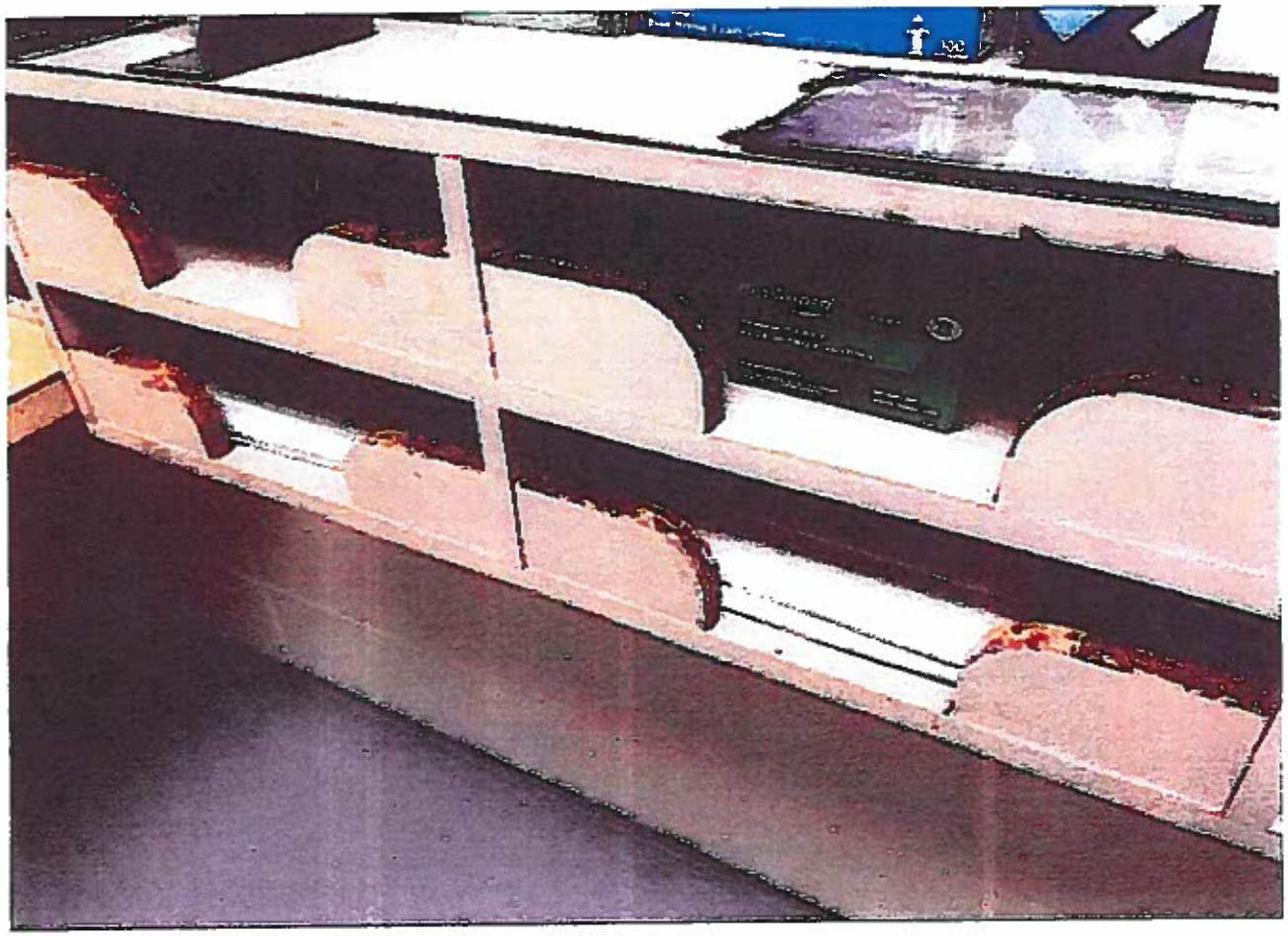
Processing Room	**$23,250**
Conference Room	**$14,800**
Break Room	**$21,200**

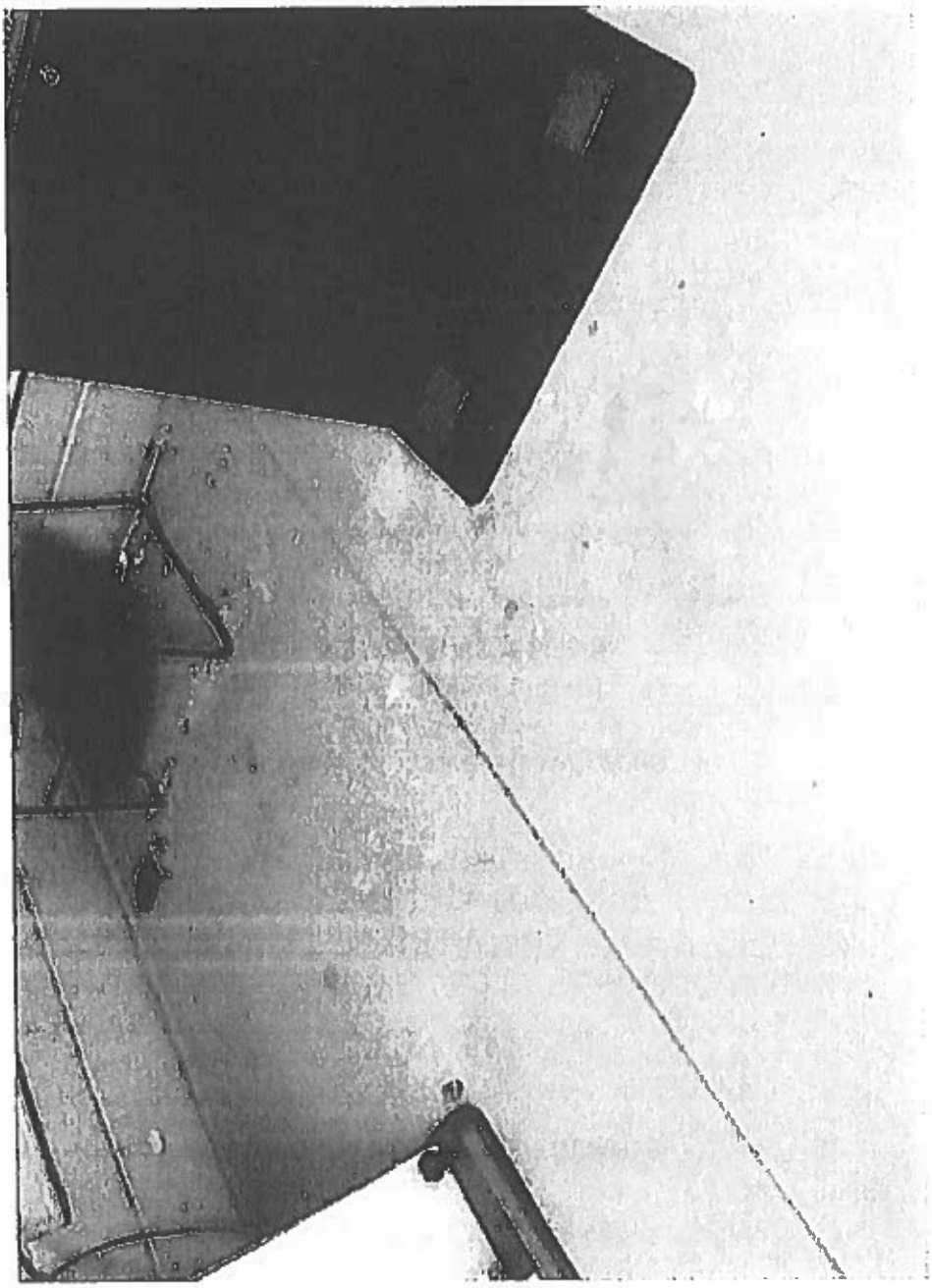
Sincerely,

Jeff Reagan
Owner
Ct. Lic. #0643733









REAGAN
CONSTRUCTION GROUP LLC
860.625.5870

Proposal For Renovations

October 5th 2023

Waterford Police Department
41 Avery Ln
Waterford, CT 06385

Specifications and Allowances

GENERAL CONDITIONS

- Obtain a building permit (Permit cost included)
- Supply sanitary facilities for tradespeople if needed
- Provide roll-off service as necessary
- Take all precautions to protect all undisturbed areas

DEMO

- Remove existing appliances and cabinetry in proposed areas:
  - Processing Room
    - L Countertop and cabinet
    - 3 Fingerprint wall mounted countertops
    - 2 wall mounted storage organizers
  - Conference Room
    - Small kitchenette upper and lower cabinets
  - Break Room
    - Upper and lower cabinets from kitchenette area
    - Lower Cabinets from second wall

FRAMING

- Once cabinetry is removed, will assess framing for replacement cabinets and will restructure as needed.

PLUMBING

- Disconnect plumbing from 3 sinks to allow for new cabinets and countertops
- Supply and install one new eye wash station
- Install 3 new single handle kitchen faucets
- Reconnect water and drains to new sinks

ELECTRICAL

- Install three 48" LED strip lights in processing room over fingerprint desk areas
- Building wall brackets to hold LED lights to block walls
- Replacing plugs and switches in three kitchenette areas
- Remove and replacing any old wires as needed
- Add any new outlets in the kitchenette areas as needed

PAINT

- Paint Processing Room walls and floor

TRIM & PAINT

- Install Trim in new areas as needed
- Prime and finish paint trim as needed

CABINETRY & COUNTERTOP

- Install new prefabricated cabinets and countertops in proposed areas per drawing:
  - Processing Room
    - L Countertop in formica of choice and cabinet
    - 3 Finger print wall mounted counter tops in stainless steel
    - 2 wall mounted storage organizers

- Conference Room
  - Small kitchenette upper and lower prefabricated cabinets
  - Solid Surface countertop
- Break Room
  - Upper and lower prefabricated cabinetry for kitchenette area
  - Lower custom cabinetry for second wall
  - Solid Surface countertops on both sets of cabinets

APPLIANCES

- Supply and install the following appliances in the renovated areas: Allowance $3,000
  - Refrigerator comparable to existing style
  - Glass front mini beverage fridge
  - 2 Microwave ovens
  - 4 burner Range cooktop
  - Range hood vent
  - Toaster Oven

COMPLETION

- Remove all debris from the jobsite.
- Thoroughly clean all areas of work.

**** Cost for above scope of work including all materials, labor, and sales tax $59,250**

Processing Room	**$23,250**
Conference Room	**$14,800**
Break Room	**$21,200**

Sincerely,

Jeff Reagan
Owner
Ct. Lic. #0643733

ADVANCED GROUP

This Estimate is Prepared For:

Waterford Police Department

41 Avery Lane,
Waterford CT 06320

61 W Main St | Mystic, CT 06355
[O] 860-536-7663 |[F] (860) 536-7674 |[E] info@advimpllc.com |

Advanced Improvements LLC HIC #0607800 NIC #0011904

ADVANCED GROUP

Date 10/23/23

Proposal for the Waterford Police Department

Job Location: 41 Avery Lane, Waterford CT 06320

This estimate is for a variety of remodels throughout the department.
Price includes labor and material

Mobilize

Total Labor & Material: $1,375

Kitchen/ Coffee Area

- Remove existing kitchen cabinets, countertop, sink, and coffee area
- Clean Up
- Paint area behind demo area
- Install new kitchen cabinets
- Install solid surface counter including sink and faucets
- Install fan sink and faucet
- Install microwave
    - Allowance: $250
- Install cabinets with solid counter for coffee area
- Install open shelving above cabinets in counter area

Total Labor & Material: $23,864.50

Processing Area

- Sand all areas of floor of processing
- This area does not include closed cells
- Prep all walls in processing area
- Primer with concrete paint for all floors
- Paint with two coat finish
- Decision maker's choice of color
- Install three LED lights in three station processing areas
- Install stainless desktop working areas

Note: This price does not include steel doors, tables, or stainless-steel area.

Total Labor & Material: $27,735

61 W Main St | Mystic, CT 06355
[O] 860-536-7663 |[F] (860) 536-7674 |[E] info@advimpllc.com |

Advanced Improvements LLC HIC #0607800 NIC #0011904

ADVANCED GROUP

Supply Station Area

- Install new counter (laminate)
- Install new sink and eye wash area
- Install open shelves

Total Labor & Material: $7,892.50

Training Area

- Remove existing kitchenette, counter, refrigerator, and sink
- Install new cabinets
- Install solid surface countertop
- Install sink and faucet
- Install small refrigerator

Total Labor & Material: $14,190

Permit & Dumpster

- Haul Away Debris

Total Labor & Material: $1,375

Customer Courtesy Discount for Public Safety Service: - $2,000

Advanced Group proposes to furnish all material & labor complete in accordance with specifications above.

Grand Total ***$74,432***

*This price does not include sales tax. If sales tax is applicable, it will be added to each invoice.

**Any additional scope of work beyond listed scope of work will be considered a change order & billed separately to the client.

*** Advanced Group recommends a professional lawn care company be contacted to ensure proper regrowth of disturbed areas.

****There may be multiple colors available but are not stock items and would require longer lead times and additional cost.

*****This proposal is subject to change as the cost and availability of material is not stable at the present time.

******Appliances are not Advanced responsibility to install or adjust.

61 W Main St | Mystic, CT 06355
[O] 860-536-7663 | [F] (860) 536-7674 | [E] info@advimpllc.com |

Advanced Improvements LLC HIC #0607800 NIC #0011904

Public Works Department

Memo

To: Robert Brule, First Selectman

From: Gary J Schneider, Director of Public Works

cc: Kimberly Allen, Finance Director

Date: November 17, 2023

Re: Public Works CIP 25-29

Enclosed please find the proposed Capital Program for Public Works. For this year again, the focus is on addressing the condition of our roads.

The paving plan is extensive. First, in order to complete the permanent repairs and resurfacing for the remaining 25 roads that Eversource installed the natural gas mains in years 2019 and 2020, the Department is proposing all the roads be funded in FY 25. It may be a push to complete all these roads in one construction season, having the funding in place will allow the Department to engage our contractors early in their scheduling. Larger projects are more attractive to our large contractors who perform the work. In order to propose this, the Department postponed several roads planned last year for FY25 that were outside this area. Eversource has agreed to fund resurfacing half the roads and is awaiting word from the Town.

Second, it also includes several roads in the Mago Point Area that will augment the development and improvements that is occurring in the area. With funding in place, we can address those roads after the parking lot improvements (State funded) and the private property street improvements are completed.

Third, Vivian and Norman are the last two roads in this neighborhood that need to be resurfaced. Different from the others, here there are asphalt sidewalks up against the asphalt curb that sits on top of the deteriorated asphalt pavement. This all must be completed at the same time. This would be contracted out. Plans are at the 90% level of development.

Fourth, the remaining roads in the areas of the Eversource gas mains. To pass over an abutting road is not good planning.

Another area within our right of way that are nearing the end of their service life is the concrete curbing along many of our roads. Deteriorating after decades of salt intrusion, in many areas there is no reveal left and in some instances, iron rebar is exposed causing a serious safety hazard.

TOWN OF WATERFORD
CAPITAL IMPROVEMENT PLAN
PROJECT CONSOLIDATION FORM FY 2025-2029

	DEPARTMENT/ AGENCY:	Public Works						
DEPT PRIORITY	PROJECT NAME	FUNDING SOURCE	FISCAL YEAR 2024-2025	FISCAL YEAR 2025-2026	FISCAL YEAR 2026-2027	FISCAL YEAR 2027-2028	FISCAL YEAR 2028-2029	TOTAL
1	Eversource Affected Roads	~~6~~ 3	1,753,517					1,753,517.00
2	Paving Project	~~6~~ 3	1,147,997					1,147,997.00
3	Minor Road Reconstruction	~~6~~ 3	950,000		35,000		600,000	1,585,000.00
4	Bridges/Culverts	~~6~~ 1	15,000		90,000			105,000.00
5	Sidewalk Replacement	~~6~~ 1	25,000					25,000.00
6	Concrete Curbs (Millstone east)	~~6~~ 3	650,000		650,000			1,300,000.00
7	Risk Assessment - Roadways	~~6~~ 1	55,000					55,000.00
	Transfer Station	~~6~~ 1		125,000				125,000.00
	Traffic Signals	~~6~~ 1		35,000		250,000	250,000	535,000.00
	Dumpsters/Enclosures	~~6~~ 1			25,000			25,000.00
	EV Charging Stations	~~6~~ 1			21,000			21,000.00
	Retaining Walls	~~6~~ 1		35,000				35,000.00
	Roadside Barriers	~~1~~ 1			50,000		50,000	100,000.00
	Realignment of Major Intersections	~~6~~ 1				55,000		55,000.00
	Huntsbrook Bridge	~~6~~ 3					2,900,000	2,900,000.00
	Wooden Streetlight Pole	6						-
	TOTALS		**4,596,514.00**	**195,000.00**	**871,000.00**	**305,000.00**	**3,800,000.00**	**9,767,514.00**

INDEX TO FUNDING SOURCES,

1 CURRENT YEAR CAPITAL IMPROVEMENTS
2 UTILITY BUDGET/SEWER CAPITAL MAINTENANCE FUND
3 TRANSFER TO CAPITAL & NONRECURRING.
4 SHORT AND LONG TERM DEBT FINANCING
5 LoCIP
6 CNR UNDESIGNATED FUND BALANCE
7 FEDERAL/STATE GRANTS
8 OTHER FUNDING

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Public Works	CONTACT PERSON Gary J. Schneider
PROJECT NAME Eversource Affected Roads	DEPARTMENT PRIORITY 1

1 DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)

The Town had agreed to allow Eversource to leave the gas main trenches temporarily patched for three years while Eversource attempts to sell gas services and then connect the property owner to the main. Their reasoning was to avoid the cost of opening a newly restored pavement to install their lateral. The Town and Eversource have agreed that for some of the roads instead of Eversource performing what is required by the Ordinance, they will deposit with the Town a sum that will be used in conjunction with Town funds to address the entire width of the road. The roads are in a condition that the entire width should be milled and overlaid with asphalt not just half of the road or the trench.

2 PROJECT STATUS IF IN PROGRESS

Eversource has released the roads and agreed to deposit with the Town funds for their portion of the road work.

3 LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST

None

4 DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)

Minor impact. Current practice is just to make the road condition safe. Minor saving in pot hole patching materials.

5 GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)

Eversource to deposit with the Town funds to restore the roads in lieu of performing the work themselves.

6 ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (If none, simply state that in the area below)

See attached expanded narrative and map identifying the roads

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance		1,753,517				
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	0	1,753,517	0	0	0	0

TOWN OF WATERFORD
MEMORANDUM

PUBLIC WORKS
DEPARTMENT

To: File

From: Gary J Schneider

Date: November 13, 2023

Re: Eversource Affected Roads

The Town had agreed to allow Eversource to leave the gas main trenches temporarily patched for three years while they attempted to sell gas services and connect the property owner to the main. Their reasoning was to avoid the cost of opening a newly restored pavement to install the lateral. Those three years are up.

These roads are in a condition that require the entire width be milled and overlaid with asphalt, not just half of the road or the trench.

The Town and Eversource have agreed that for the roads still not restored, instead of Eversource performing what is required by the Ordinance, Eversource will deposit with the Town a sum that will be used in conjunction with Town funds to address the entire width of the road.

Background: Review of Chapter 12.04 Street Use Regulations of the Code of Ordinances and the "Town of Waterford Board of Selectmen Policies for Restoring Utility Trench Excavations Pursuant to Chapter 12 Section 10.04.041 of the Waterford Code of Ordinances governs the approach and requirements to restore the roads. (Attachment 2)

In the paragraph, UTILITY DISTRIBUTION AND COLLECTION EXCAVATIONS, it states "following guidelines shall be implemented when any utility distribution and collection excavation is approved within the Town right of way after **following the permanent trench pavement replacement** stated above". The gas mains are a utility distribution system.

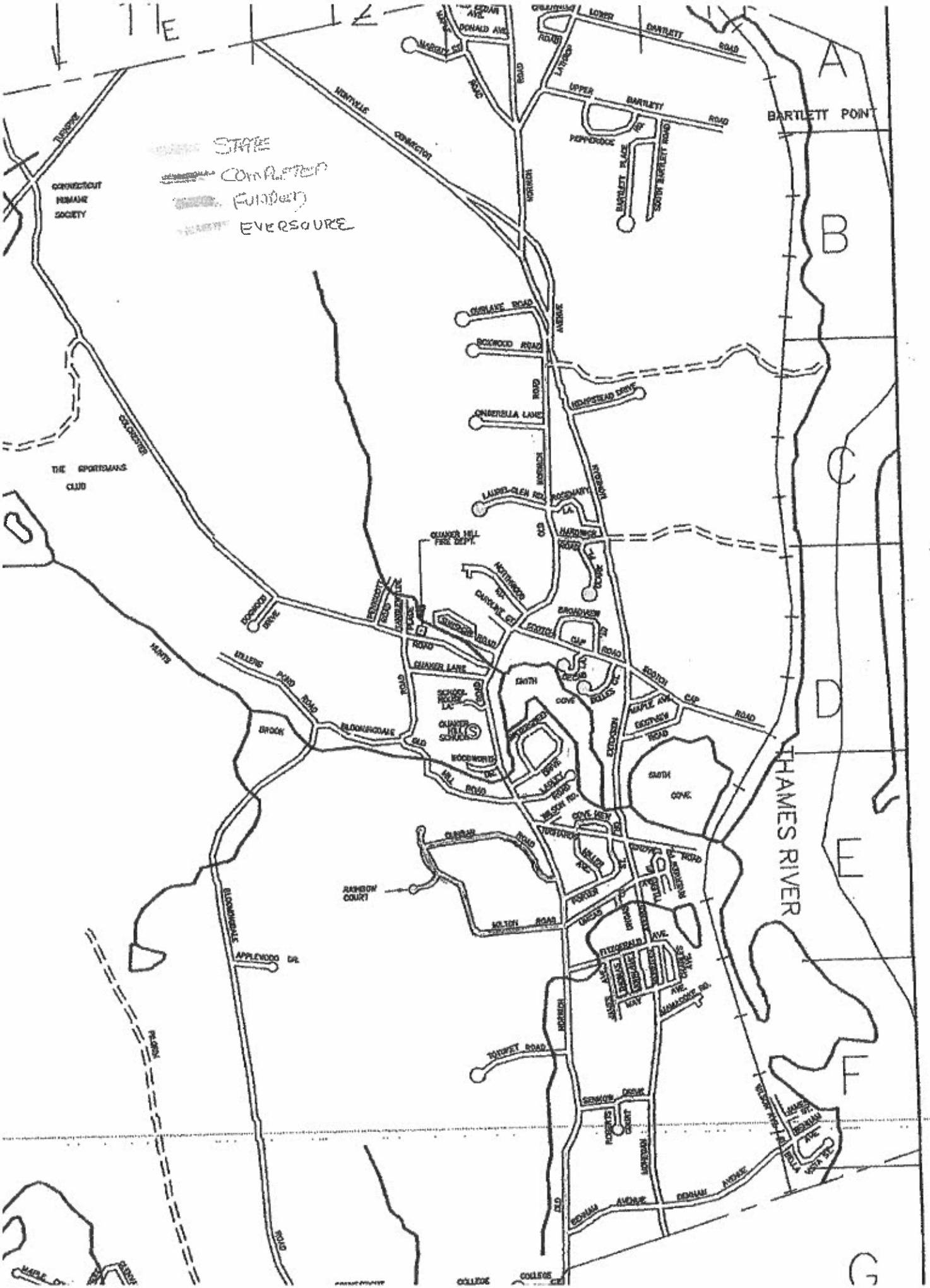
One must go to this section first, PERMANENT TRENCH PAVEMENT REPLACEMENT before we apply the section noted above. "This process will include the immediate placement of a comparable depth of bituminous concrete and gravel as per Town of Waterford specifications as determined by the Director of Public Works or his designee. Emphasis must be placed on the backfilling and compaction of the original trench to avoid any settlement. Original pavement edges shall be saw cut to neat, straight lines to a depth necessary to remove all

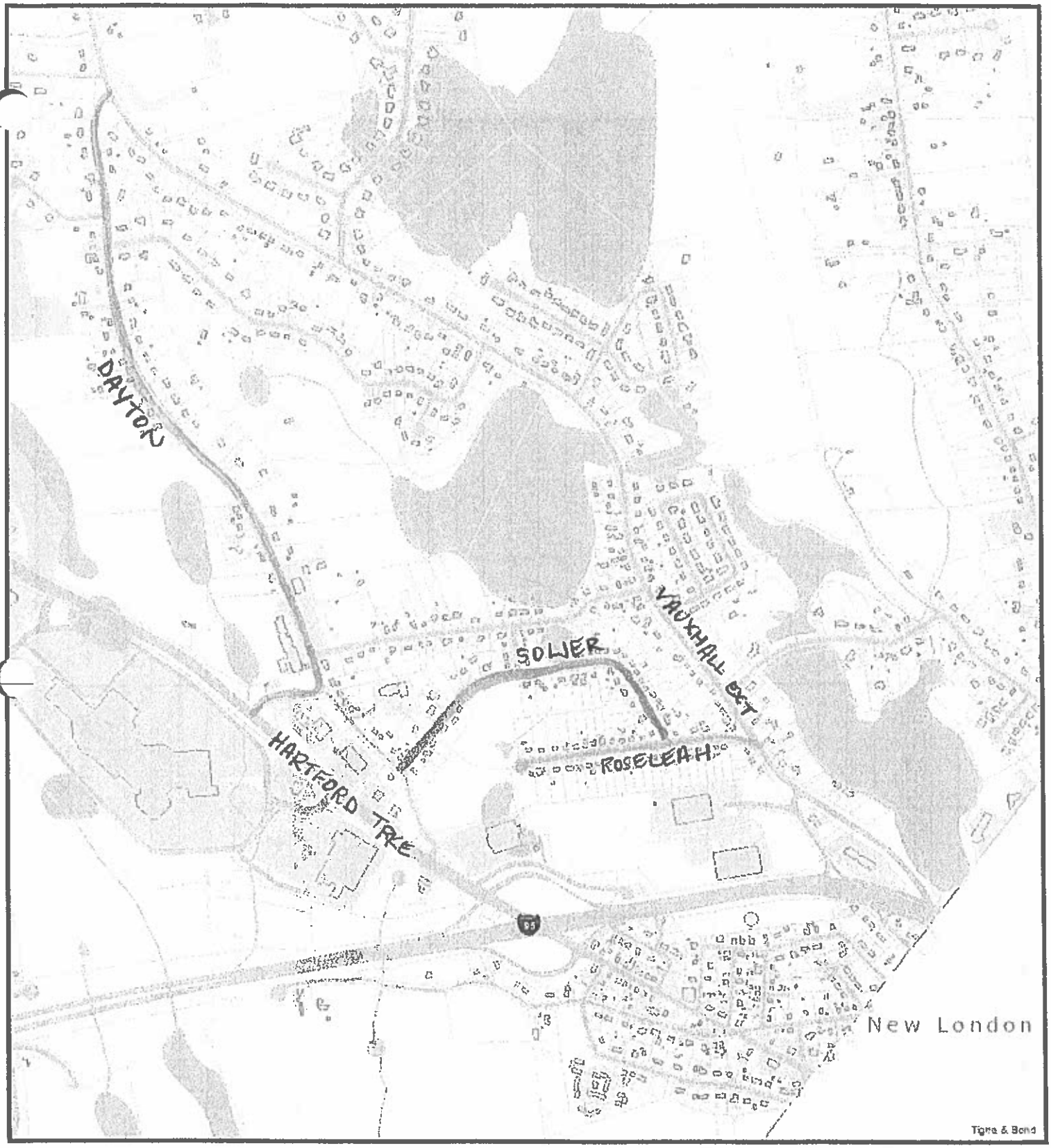
pavement and tack coated. Pavement joints shall be sealed with an approved asphaltic material filling with a nozzle from the bottom up. Full depth replacement is required for pavement removed during the excavation."

After this has been completed, the remainder of the section for UTILITY DISTRIBUTION AND COLLECTION EXCAVATIONS is followed requiring "milling of 1 ½ of pavement from the center line to the curb and replaced with a bituminous concrete overlay. Lastly, the joints must be sealed."

Proposed (Roads to be resurfaced are only for those roads on the west side of Route 32)

- FY 25
  - Pennicott Road
  - Tanglewylde
  - Senkow, Roberts Court, Fitzgerald, James, John, Thomas, May, Uncas Court, Uncas Ave, Porter, Miller, Cove View, Ladley & Wintergreen
  - Dayton Road, Roseleah, Soljer
  - Laurel Glen Road, Hardwick Road, Clark Place, Broadview Court, Decab Lane, Bolles Court


STATE
COMPLETED
EVERSOURCE
BARTLETT POINT
THAMES RIVER
CONNECTICUT HUMANE SOCIETY
THE SPORTSMANS CLUB
QUAKER HILL FIRE DEPT.
QUAKER HILL SCHOOL
RAINBOW COURT
A
B
C
D
E
F
G



DAYTON
SOLIER
ROSELEAH

11/15/2023 2:55:06 PM

Scale: 1"=1000'

Scale is approximate

The information depicted on this map is for planning purposes only. It is not adequate for legal boundary definition, regulatory interpretation, or parcel-level analyses.

11/7/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Cove View Drive		1,750.00	Sq Yd	$4.00	$7,000.00
TOTALS		1,750.00	Sq Yd		**$7,000.00**
Paving (3")(Milling)		1,750.00	X 0.0575	X 3" X $110	**$33,206.25**
		~ 300 Tons			
Tack Coat		200	**Gals**	$7.00	$1,400.00
		Total Milling and Paving			**$41,606.25**
Reset Manholes		3.00	EA	$1,400.00	$4,200.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		40.00	SF	$6.00	$240.00
		10% Contingency			**$4,604.63**
	Total Milling/Reclaiming and Paving/Striping				**$50,650.88**

11/7/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Fitzgerald Avenue(west of Rte 32)		2,900.00	Sq Yd	$4.00	$11,600.00
TOTALS		2,900.00	Sq Yd		**$11,600.00**
Paving (3")(Milling)		2,900.00	X 0.0575	X 3" X $110	**$55,027.50**
		~ 500 Tons			
Tack Coat		250	**Gals**	$7.00	$1,750.00
		Total Milling and Paving			**$68,377.50**
Reset Manholes		17.00	EA	$1,400.00	$23,800.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines		1,075.00	LF	$1.00	$1,075.00
Stop Bars		35.00	SF	$6.00	$210.00
		10% Contingency			**$9,346.25**
	Total Milling/Reclaiming and Paving/Striping				**$102,808.75**

11/7/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
James Avenue		2,200.00	Sq Yd	$4.00	$8,800.00
TOTALS		2,200.00	Sq Yd		**$8,800.00**
Paving (3")(Milling)		2,200.00	X 0.0575	X 3" X $110	**$41,745.00**
		~ 380 Tons			
Tack Coat		200	**Gals**	$7.00	$1,400.00
		Total Milling and Paving			**$51,945.00**
Reset Manholes		8.00	EA	$1,400.00	$11,200.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		20.00	SF	$6.00	$120.00
		10% Contingency			**$6,326.50**
	Total Milling/Reclaiming and Paving/Striping				**$69,591.50**

11/7/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
John Avenue		1,500.00	Sq Yd	$4.00	$6,000.00
TOTALS		1,500.00	Sq Yd		**$6,000.00**
Paving (3")(Milling)		1,500.00	X 0.0575	X 3" X $110	**$28,462.50**
		~ 260 Tons			
Tack Coat		150	**Gals**	$7.00	$1,050.00
		Total Milling and Paving			**$35,512.50**
Reset Manholes		4.00	EA	$1,400.00	$5,600.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		40.00	SF	$6.00	$240.00
		10% Contingency			**$4,135.25**
	Total Milling/Reclaiming and Paving/Striping				**$45,487.75**

11/7/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Ladley Road		2,100.00	Sq Yd	$4.00	$8,400.00
TOTALS		2,100.00	Sq Yd		**$8,400.00**
Paving (3")(Milling)		2,100.00	X 0.0575	X 3" X $110	**$39,847.50**
		~365 Tons			
Tack Coat		250	**Gals**	$7.00	$1,750.00
		Total Milling and Paving			**$49,997.50**
Reset Manholes		5.00	EA	$1,400.00	$7,000.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines		50.00	LF	$1.00	$50.00
Stop Bars		20.00	SF	$6.00	$120.00
		10% Contingency			**$5,716.75**
	Total Milling/Reclaiming and Paving/Striping				**$62,884.25**

11/7/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
May Avenue(west of Rte 32)		1,100.00	Sq Yd	$4.00	$4,400.00
TOTALS		1,100.00	Sq Yd		**$4,400.00**
Paving (3")(Milling)		1,100.00	X 0.0575	X 3" X $110	**$20,872.50**
		~ 200 Tons			
Tack Coat		100	**Gals**	$7.00	$700.00
		Total Milling and Paving			**$25,972.50**
Reset Manholes		5.00	EA	$1,400.00	$7,000.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines		100.00	LF	$1.00	$100.00
Stop Bars		20.00	SF	$6.00	$120.00
		10% Contingency			**$3,319.25**
	Total Milling/Reclaiming and Paving/Striping				**$36,511.75**

11/7/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Miller Avenue		2,200.00	Sq Yd	$4.00	$8,800.00
TOTALS		2,200.00	Sq Yd		**$8,800.00**
Paving (3")(Milling)		2,200.00	X 0.0575	X 3" X $110	**$41,745.00**
		~ 380 Tons			
Tack Coat		200	**Gals**	$7.00	$1,400.00
		Total Milling and Paving			**$51,945.00**
Reset Manholes		4.00	EA	$1,400.00	$5,600.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		40.00	SF	$6.00	$240.00
		10% Contingency			**$5,778.50**
	Total Milling/Reclaiming and Paving/Striping				**$63,563.50**

11/7/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Porter Street		3,500.00	Sq Yd	$4.00	$14,000.00
TOTALS		3,500.00	Sq Yd		**$14,000.00**
Paving (3")(Milling)		3,500.00	X 0.0575	X 3" X $110	**$66,412.50**
		~ 600 Tons			
Tack Coat		250	**Gals**	$7.00	$1,750.00
		Total Milling and Paving			**$82,162.50**
Reset Manholes		8.00	EA	$1,400.00	$11,200.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		40.00	SF	$6.00	$240.00
		10% Contingency			**$9,360.25**
	Total Milling/Reclaiming and Paving/Striping				**$102,962.75**

11/7/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Roberts Court		1,300.00	Sq Yd	$4.00	$5,200.00
TOTALS		1,300.00	Sq Yd		**$5,200.00**
Paving (3")(Milling)		1,300.00	X 0.0575	X 3" X $110	**$24,667.50**
		~230 Tons			
Tack Coat		150	**Gals**	$7.00	$1,050.00
		Total Milling and Paving			**$30,917.50**
Reset Manholes		3.00	EA	$1,400.00	$4,200.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		20.00	SF	$6.00	$120.00
		10% Contingency			**$3,523.75**
	Total Milling/Reclaiming and Paving/Striping				**$38,761.25**

11/7/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Senkow Drive		3,000.00	Sq Yd	$4.00	$12,000.00
TOTALS		3,000.00	Sq Yd		**$12,000.00**
Paving (3")(Milling)		3,000.00	X 0.0575	X 3" X $110	**$56,925.00**
		~ 525 Tons			
Tack Coat		300	**Gals**	$7.00	$2,100.00
		Total Milling and Paving			**$71,025.00**
Reset Manholes		15.00	EA	$1,400.00	$21,000.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines		825.00	LF	$1.00	$825.00
Stop Bars		20.00	SF	$6.00	$120.00
		10% Contingency			**$9,297.00**
	Total Milling/Reclaiming and Paving/Striping				**$102,267.00**

11/7/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Thomas Avenue		1,500.00	Sq Yd	$4.00	$6,000.00
TOTALS		1,500.00	Sq Yd		**$6,000.00**
Paving (3")(Milling)		1,500.00	X 0.0575	X 3" X $110	**$28,462.50**
		~ 275 Tons			
Tack Coat		150	**Gals**	$7.00	$1,050.00
		Total Milling and Paving			**$35,512.50**
Reset Manholes		4.00	EA	$1,400.00	$5,600.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		40.00	SF	$6.00	$240.00
		10% Contingency			**$4,135.25**
	Total Milling/Reclaiming and Paving/Striping				**$45,487.75**

11/7/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Uncas Avenue(west of Rte 32)		2,800.00	Sq Yd	$4.00	$11,200.00
TOTALS		2,800.00	Sq Yd		**$11,200.00**
Paving (3")(Milling)		2,800.00	X 0.0575	X 3" X $110	**$53,130.00**
		~ 500 Tons			
Tack Coat		200	**Gals**	$7.00	$1,400.00
		Total Milling and Paving			**$65,730.00**
Reset Manholes		8.00	EA	$1,400.00	$11,200.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines		100.00	LF	$1.00	$100.00
Stop Bars		35.00	SF	$6.00	$210.00
		10% Contingency			**$7,724.00**
	Total Milling/Reclaiming and Paving/Striping				**$84,964.00**

11/7/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Uncas Court		450.00	Sq Yd	$4.00	$1,800.00
TOTALS		450.00	Sq Yd		**$1,800.00**
Paving (3")(Milling)		450.00	X 0.0575	X 3" X $110	**$8,538.75**
		~ 90 Tons			
Tack Coat		50	**Gals**	$7.00	$350.00
		Total Milling and Paving			**$10,688.75**
Reset Manholes		2.00	EA	$1,400.00	$2,800.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		15.00	SF	$6.00	$90.00
		10% Contingency			**$1,357.88**
	Total Milling/Reclaiming and Paving/Striping				**$14,936.63**

2023 Roadway Milling/Paving					
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Bolles Court(milling)		1,100.00	Sq Yd	$4.00	$4,400.00
Paving		1,100.00	X 0.0575	X 3" X $110	$20,872.50
			~200Ton		
Tack Coat (gallons)	80	80.00		$7.50	$600.00
		Total Milling and Paving			$25,872.50
Reset Manholes		6.00	EA	$1,400.00	$8,400.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		15.00	SF	$6.00	$90.00
Topsoil and seed			Sq Yd	$8.00	$0.00
Pave Aprons	Not needed (within curb lines)				
		10% Contingency			**$3,436.25**
		Total Milling and Paving/Striping			$37,798.75

2023 Roadway Milling/Paving					
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Broadview Court(milling)		2,900.00	Sq Yd	$4.00	$11,600.00
Paving		2,900.00	X 0.0575	X 3" X $110	$55,027.50
			~ 500 Ton		
Tack Coat (gallons)		200.00	Gals	$7.00	$1,400.00
		Total Milling and Paving			$68,027.50
Reset Manholes		9.00	EA	$1,400.00	$12,600.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		30.00	SF	$6.00	$180.00
Topsoil and seed			Sq Yd	$8.00	$0.00
Pave Aprons	Not needed (within curb lines)				
				10% Contingency	**$8,080.75**
		Total Milling and Paving/Striping			$88,888.25

2023 Roadway Milling/Paving					
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Clark Place(milling)		3,000.00	Sq Yd	$4.00	$12,000.00
Paving		3,000.00	X 0.0575	X 3" X $110	$56,925.00
			~ 520 Ton		
Tack Coat (gallons)	125	125.00	**GAL**	$7.00	$875.00
		Total Milling and Paving			$69,800.00
Reset Manholes		6.00	EA	$1,400.00	$8,400.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		16.00	SF	$6.00	$96.00
Topsoil and seed			Sq Yd	$8.00	$0.00
Pave Aprons	Not needed (within curb lines)				
				10% Contingency	**$7,829.60**
		Total Milling and Paving/Striping			$86,125.60

2023 Roadway Milling/Paving					
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Decab Lane(milling)		1,200.00	Sq Yd	$4.00	$4,800.00
Paving		1,200.00	X 0.0575	X 3" X $110	$22,770.00
			~ 210 Ton		
Tack Coat (gallons)	80	80.00	Gals	$7.00	$560.00
		Total Milling and Paving			$28,130.00
Reset Manholes		6.00	EA	$1,400.00	$8,400.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		20.00	SF	$6.00	$120.00
Topsoil and seed			Sq Yd	$8.00	$0.00
Pave Aprons	Not needed (within curb lines)				
				10% Contingency	**$3,665.00**
		Total Milling and Paving/Striping			$40,315.00

2023 Roadway Milling/Paving					
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Hardwick Rd(milling)		1,800.00	Sq Yd	$4.00	$7,200.00
Paving		1,800.00	X 0.0575	X 3" X $110	$34,155.00
			~ 310 Ton		
Tack Coat (gallons)	100	100.00		$7.00	$700.00
		Total Milling and Paving			$42,055.00
Reset Manholes		9.00	EA	$1,400.00	$12,600.00
Epoxy Painted Yellow Lines		100.00	LF	$1.00	$100.00
Stop Bars		30.00	SF	$6.00	$180.00
Topsoil and seed			Sq Yd	$8.00	$0.00
Pave Aprons	Not needed (within curb lines)				
				10% Contingency	**$5,493.50**
		Total Milling and Paving/Striping			$60,428.50

2023 Roadway Milling/Paving					
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Laurel Glenn Rd(milling)		1,700.00	Sq Yd	$4.00	$6,800.00
Paving		1,700.00	X 0.0575	X 3" X $110	$32,257.50
			~ 300 Ton		
Tack Coat (gallons)	150	150.00		$7.00	$1,050.00
		Total Milling and Paving			$40,107.50
Reset Manholes		5.00	EA	$1,400.00	$7,000.00
Epoxy Painted Yellow Lines		25.00	LF	$1.00	$25.00
Stop Bars		15.00	SF	$6.00	$90.00
Topsoil and seed			Sq Yd	$8.00	$0.00
Pave Aprons	Not needed (within curb lines)				
				10% Contingency	**$4,722.25**
		Total Milling and Paving/Striping			$51,944.75

2023 Roadway Milling/Paving					
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Tanglewylde Place (milling)		1,100.00	Sq Yd	$4.00	$4,400.00
Paving		1,100.00	X 0.0575	X 3" X $110	$20,872.50
			~ 200 Ton		
Tack Coat (gallons)	80	80.00		$7.00	$560.00
		Total Milling and Paving			$25,832.50
Reset Manholes		4.00	EA	$1,400.00	$5,600.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		15.00	SF	$6.00	$90.00
Topsoil and seed			Sq Yd	$8.00	$0.00
Pave Aprons	Not needed (within curb lines)				
				10% Contingency	**$3,152.25**
		Total Milling and Paving/Striping			$34,674.75

11/7/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Dayton Road (From Rte 85 to Dayton Place)		4,000.00	Sq Yd	$4.00	$16,000.00
TOTALS		4,000.00	Sq Yd		**$16,000.00**
Paving (3")(Milling)		4,000.00	X 0.0575	X 3" X $110	**$75,900.00**
		~ 230 Tons			
Tack Coat		150	**Gals**	$7.00	$1,050.00
		Total Milling and Paving			**$92,950.00**
Reset Manholes		7.00	EA	$1,400.00	$9,800.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines		100.00	LF	$1.00	$100.00
Stop Bars		40.00	SF	$6.00	$240.00
		10% Contingency			**$10,309.00**
	Total Milling/Reclaiming and Paving/Striping				**$113,399.00**

11/7/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Roseleah Drive		6,300.00	Sq Yd	$4.00	$25,200.00
TOTALS		6,300.00	Sq Yd		**$25,200.00**
Paving (3")(Milling)		6,300.00	X 0.0575	X 3" X $110	**$119,542.50**
		~ 365 Tons			
Tack Coat		150	**Gals**	$7.00	$1,050.00
		Total Milling and Paving			**$145,792.50**
Reset Manholes		14.00	EA	$1,400.00	$19,600.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines		100.00	LF	$1.00	$100.00
Stop Bars		40.00	SF	$6.00	$240.00
		10% Contingency			**$16,573.25**
	Total Milling/Reclaiming and Paving/Striping				**$182,305.75**

11/7/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Soljer Drive		8,200.00	Sq Yd	$4.00	$32,800.00
TOTALS		8,200.00	Sq Yd		**$32,800.00**
Paving (3")(Milling)		8,200.00	X 0.0575	X 3" X $110	**$155,595.00**
		~ 1500 Tons			
Tack Coat		800	**Gals**	$7.00	$5,600.00
		Total Milling and Paving			**$193,995.00**
Reset Manholes		15.00	EA	$1,400.00	$21,000.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		40.00	SF	$6.00	$240.00
		10% Contingency			**$21,523.50**
	Total Milling/Reclaiming and Paving/Striping				**$236,758.50**

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY: Public Works	CONTACT PERSON: Gary J. Schneider
PROJECT NAME: Paving Projects FY25	DEPARTMENT PRIORITY: 2

1 DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)

This project supports surface transportation projects which encompass roads, street accessories, sidewalks, and bridges. The objective is to provide safe, attractive, and efficient public transportation ways and infrastructure systems that support them.
All roads identified in this project fall under the definition of needing structural improvement or rehabilitation. This is defined as milling the top two inches of old asphalt from the surface and replacing with new asphalt or full depth reclamation, where the asphalt is ground up and mixed with the base to establish a new base and then resurfaced with three inches of new asphalt.

2 PROJECT STATUS IF IN PROGRESS

Department has identified the areas to address using the recently completed Pavement Management 2020 Update (October 2020), prepared by VHB, consulting engineering.

3 LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST

None

4 DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)

Minor impact. Current practice is just to make the road condition safe. Minor savings in pot hole patching materials

5 GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)

None

6 ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)

Attached expanded narrative memorandum, cost estimates.

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance		1,147,997				
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	0	1,147,997	0	0	0	0

TOWN OF WATERFORD
MEMORANDUM

PUBLIC WORKS
DEPARTMENT

To: File

From: Gary J Schneider

Date: November 13, 2023

Re: Paving Program

The Town needs to balance available funding to save our relatively good collector roads with the need to address years of delayed work of resurfacing roads in our neighborhoods. This balance also needs to address the base rehabilitation (reclaiming and milling the road) roads that account for 57% of the backlog with those roads that require just routine, preventative maintenance (patching and crack sealing).

Funding for our road program is programmed from two sources. The operations budget using TAR funding from the State will be used for routine maintenance and minor local repairs such as crack sealing and pothole repairs. Programed for CIP and CNR funding are the thin overlay, full width milling and overlay; and reclaiming and overlay methods.

To guide us, a pavement management update was completed for the entire network. This formal evaluation provided a systematic, consistent approach to the evaluation of the present condition of the road surface. It is used to prioritize the repairs. It is not intended to replace sound engineering judgment, which should dictate specific needs for an individual project.

The Departments previous approach has been to address local roads that carry a good volume of traffic. Classified as major and minor collector streets, most have been addressed over the last 10 years. Our effort will move more into the neighborhoods, where multiple roads will be addressed requiring a variety of methods.

Starting with the older neighborhoods is challenging because they have a mix of road widths, multiple types of curbing, asphalt sidewalks that abut the asphalt curbing, driveway aprons constructed of concrete, asphalt and stone, drainage structures and sewer manholes. These roads take longer to complete a project than that a long collector road.

All roads identified in this project fall under the definition of needing structural improvement or rehabilitation. This is defined as milling the top two inches of old

asphalt from the surface and replacing with new asphalt or full depth reclamation, where the asphalt is ground up and mixed with the base to establish a new base and then resurfaced with three inches of new asphalt.

The Department is working with Utilities to ensure the water services have been addressed before resurfacing.

Due to the need to complete all the roads that were affected by Eversource installing the natural gas mains, the Department is reducing the request for roads that are totaling funded by local funds for FY 25.

Proposed Connector Roads

- FY 25 Old Colchester Road (Dogwood to Old Norwich Road)
- FY 26 Goshen
    - Spinnaker, Country Club
- FY 27 Cross Road
    - Melanie Drive
    - Marilyn
    - Beverly
    - Rock Ridge Road
- FY 28 Quarry Road
    - Leary Drive
- FY 29 (To be determined)

Proposed Neighborhood Roads (Roads to be resurfaced are only for those roads on the west side of Route 32)

- FY 25:
    - Mago Point Way, Ave B, First Street, Second Street
    - From the intersection of Old Colchester South
        - College, Totoket
    - From the intersection of Old Colchester North
        - Cinderella Lane, Rosemary Lane, Northwood Road, Scotch Cap Road, Sunshine Road, Caroline Court
- FY 26:
    - David Street/Wild Rose Place and Avenue, Avenue A, Summer Street, William Street
    - East Wharf Road, Croyden Court, East Street, High Ridge Drive, Marlin Drive, Albacore Drive,
    - First/Second Ave/ Middle Street from Daniels to First Ave.
    - Third Ave. /Middle Street from Daniels to Fourth Ave
    - Pine Street, Strosberg Road, Hamast Ave, Woodland Road
- FY 27:
    - Gunshot Road, Race Rock Road, Lanyard Lane, Windward Way, Millstone Road East

- Alice Street, Linda Ave, Oak Road, Lee Road, Betty Street
- Longview Street, Sunset Street, Soundview Drive, Butler Ct
- Marguy Street, Maple Road, Red Cedar Ave, Comstock Ave, Pepperridge Drive, South Bartlett Road, Bartlett Place, Burlake Road, Roxwood Road, Hempstead Drive, Rosemary Lane

- FY 28: (Reserved for Contract 10 roads)
- FY 29:
  - Stone Street, Fulmore Drive, Paula Lane, Ina Blvd, Doyle Road, Pamela Way, Manatuck Drive

11/7/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Mago Point Way		3,100.00	Sq Yd	$4.00	$12,400.00
TOTALS		3,100.00	Sq Yd		**$12,400.00**
Paving (3")(Milling)		3,100.00	X 0.0575	X 3" X $110	**$58,822.50**
		~ 550 Tons			
Tack Coat		350	**Gals**	$7.00	$2,450.00
		Total Milling and Paving			**$73,672.50**
Reset Manholes		15.00	EA	$1,400.00	$21,000.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		30.00	SF	$6.00	$180.00
		10% Contingency			**$9,485.25**
	Total Milling/Reclaiming and Paving/Striping				**$104,337.75**

11/7/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Avenue B		1,700.00	Sq Yd	$4.00	$6,800.00
TOTALS		1,700.00	Sq Yd		**$6,800.00**
Paving (3")(Milling)		1,700.00	X 0.0575	X 3" X $110	**$32,257.50**
		~ 300 Tons			
Tack Coat		200	**Gals**	$7.00	$1,400.00
		Total Milling and Paving			**$40,457.50**
Reset Manholes		10.00	EA	$1,400.00	$14,000.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		60.00	SF	$6.00	$360.00
		10% Contingency			**$5,481.75**
	Total Milling/Reclaiming and Paving/Striping				**$60,299.25**

11/7/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Second Street		500.00	Sq Yd	$4.00	$2,000.00
TOTALS		500.00	Sq Yd		**$2,000.00**
Paving (3")(Milling)		500.00	X 0.0575	X 3" X $110	**$9,487.50**
		~ 100 Tons			
Tack Coat		70	**Gals**	$7.00	$490.00
		Total Milling and Paving			**$11,977.50**
Reset Manholes		2.00	EA	$1,400.00	$2,800.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		30.00	SF	$6.00	$180.00
		10% Contingency			**$1,495.75**
	Total Milling/Reclaiming and Paving/Striping				**$16,453.25**

11/7/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Fourth Street		1,200.00	Sq Yd	$4.00	$4,800.00
TOTALS		1,200.00	Sq Yd		**$4,800.00**
Paving (3")(Milling)		1,200.00	X 0.0575	X 3" X $110	**$22,770.00**
		~ 210 Tons			
Tack Coat		100	**Gals**	$7.00	$700.00
		Total Milling and Paving			**$28,270.00**
Reset Manholes		4.00	EA	$1,400.00	$5,600.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		45.00	SF	$6.00	$270.00
		10% Contingency			**$3,414.00**
	Total Milling/Reclaiming and Paving/Striping				**$37,554.00**

11/14/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Sunshine Road		4,400.00	Sq Yd	$4.00	$17,600.00
TOTALS		4,400.00	Sq Yd		**$17,600.00**
Paving (3")(Milling)		4,400.00	X 0.0575	X 3" X $110	**$83,490.00**
		~ 800 Tons			
Tack Coat		200	**Gals**	$7.00	$1,400.00
		Total Milling and Paving			**$102,490.00**
Reset Manholes		14.00	EA	$1,400.00	$19,600.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		40.00	SF	$6.00	$240.00
		10% Contingency			**$12,233.00**
	Total Milling/Reclaiming and Paving/Striping				**$134,563.00**

11/14/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Scotch Cap Road (west of Rte 32)		5,350.00	Sq Yd	$4.00	$21,400.00
TOTALS		5,350.00	Sq Yd		**$21,400.00**
Paving (3")(Milling)		5,350.00	X 0.0575	X 3" X $110	**$101,516.25**
		~950 Tons			
Tack Coat		450	**Gals**	$7.00	$3,150.00
		Total Milling and Paving			**$126,066.25**
Reset Manholes		11.00	EA	$1,400.00	$15,400.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines		1,500.00	LF	$1.00	$1,500.00
Stop Bars		40.00	SF	$6.00	$240.00
		10% Contingency			**$14,320.63**
	Total Milling/Reclaiming and Paving/Striping				**$157,526.88**

11/14/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Rosemary Lane		2,500.00	Sq Yd	$4.00	$10,000.00
TOTALS		2,500.00	Sq Yd		**$10,000.00**
Paving (3")(Milling)		2,500.00	X 0.0575	X 3" X $110	**$47,437.50**
		~ 450 Tons			
Tack Coat		150	**Gals**	$7.00	$1,050.00
		Total Milling and Paving			**$58,487.50**
Reset Manholes		7.00	EA	$1,400.00	$9,800.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		40.00	SF	$6.00	$240.00
		10% Contingency			**$6,852.75**
	Total Milling/Reclaiming and Paving/Striping				**$75,380.25**

11/14/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Northwood Road		1,900.00	Sq Yd	$4.00	$7,600.00
TOTALS		1,900.00	Sq Yd		**$7,600.00**
Paving (3")(Milling)		1,900.00	X 0.0575	X 3" X $110	**$36,052.50**
		~ 320 Tons			
Tack Coat		125	**Gals**	$7.00	$875.00
		Total Milling and Paving			**$44,527.50**
Reset Manholes		8.00	EA	$1,400.00	$11,200.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		20.00	SF	$6.00	$120.00
		10% Contingency			**$5,584.75**
	Total Milling/Reclaiming and Paving/Striping				**$61,432.25**

11/14/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Cinderella Lane		1,600.00	Sq Yd	$4.00	$6,400.00
TOTALS		1,600.00	Sq Yd		**$6,400.00**
Paving (3")(Milling)		1,600.00	X 0.0575	X 3" X $110	**$30,360.00**
		~ 280 Tons			
Tack Coat		100	**Gals**	$7.00	$700.00
		Total Milling and Paving			**$37,460.00**
Reset Manholes		2.00	EA	$1,400.00	$2,800.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		20.00	SF	$6.00	$120.00
		10% Contingency			**$4,038.00**
	Total Milling/Reclaiming and Paving/Striping				**$44,418.00**

11/14/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Caroline Court		610.00	Sq Yd	$4.00	$2,440.00
TOTALS		610.00	Sq Yd		**$2,440.00**
Paving (3")(Milling)		610.00	X 0.0575	X 3" X $110	**$11,574.75**
		~ 500 Tons			
Tack Coat		150	**Gals**	$7.00	$1,050.00
		Total Milling and Paving			**$15,064.75**
Reset Manholes		2.00	EA	$1,400.00	$2,800.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		20.00	SF	$6.00	$120.00
		10% Contingency			**$1,798.48**
	Total Milling/Reclaiming and Paving/Striping				**$19,783.23**

11/7/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
College Court		1,850.00	Sq Yd	$4.00	$7,400.00
TOTALS		1,850.00	Sq Yd		**$7,400.00**
Paving (3")(Milling)		1,850.00	X 0.0575	X 3" X $110	**$35,103.75**
		~ 110 Tons			
Tack Coat		250	**Gals**	$7.00	$1,750.00
		Total Milling and Paving			**$44,253.75**
Reset Manholes		3.00	EA	$1,400.00	$4,200.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		20.00	SF	$6.00	$120.00
		10% Contingency			**$4,857.38**
	Total Milling/Reclaiming and Paving/Striping				**$53,431.13**

11/7/2023	2023 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Totoket Road		3,500.00	Sq Yd	$4.00	$14,000.00
TOTALS		3,500.00	Sq Yd		**$14,000.00**
Paving (3")(Milling)		3,500.00	X 0.0575	X 3" X $110	**$66,412.50**
		~ 610 Tons			
Tack Coat		300	**Gals**	$7.00	$2,100.00
		Total Milling and Paving			**$82,512.50**
Reset Manholes		9.00	EA	$1,400.00	$12,600.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines			LF	$1.00	$0.00
Stop Bars		20.00	SF	$6.00	$120.00
		10% Contingency			**$9,523.25**
	Total Milling/Reclaiming and Paving/Striping				**$104,755.75**

11/14/2023	2024 Roadway Milling/Paving				
Road	**Square Feet**	**Square Yards**	**Unit**	**Unit Price**	**Total**
Old Colchester from Dogwood Drive to Old Norwich		9,450.00	Sq Yd	$4.00	$37,800.00
TOTALS		9,450.00	Sq Yd		**$37,800.00**
Paving (3")(Milling)		9,450.00	X 0.0575	X 3" X $110	**$179,313.75**
		~ 1650 Tons			
Tack Coat		700	**Gals**	$7.00	$4,900.00
		Total Milling and Paving			**$222,013.75**
Reset Manholes		20.00	EA	$1,400.00	$28,000.00
Pave Aprons			Sq Yd	$20.00	$0.00
Epoxy Painted Yellow Lines		2,650.00	LF	$1.00	$2,650.00
Stop Bars		20.00	SF	$6.00	$120.00
		10% Contingency			**$25,278.38**
	Total Milling/Reclaiming and Paving/Striping				**$278,062.13**

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY	**CONTACT PERSON**
Public Works	Gary J. Schneider
PROJECT NAME	**DEPARTMENT PRIORITY**
Minor Road Reconstruction	3

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	This project supports surface transportation projects which encompass roads, street accessories, sidewalks, and bridges. The objective is to provide safe, attractive, and efficient public transportation ways and infrastructure systems that support them. The minor reconstruction for Vivian Street and a portion of Norman Street would involve the removal of the asphalt sidewalk, driveway aprons and road, regrading and compaction, resurfacing of the road, installation of asphalt curbs, driveway aprons, resetting of manholes and catch basins. A section of Vauxhall Street (aprox. 3,200 ft) from the Montville Town line south to the transmission lines was never reconstructed. It currently is a narrow road with numerous rock formations next to the travel lanes. It is anticipated that there is ledge under the existing pavement that would need to be removed before resurfacing can take place. Drainage systems are mostly open ditches along the sides of the road.
2	**PROJECT STATUS IF IN PROGRESS**
	None
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
	None
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
	Minor impact. Current practice is just to make the road condition safe. Minor savings in pothole patching materials
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
	None
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	Attached expanded narrative memorandum. Probable Cost Estimate, Lenard Engineering November 3, 2021. BLS Inflation Calulator.

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance		950,000		35,000		600,000
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**0**	**950,000**	**0**	**35,000**	**0**	**600,000**

TOWN OF WATERFORD
MEMORANDUM

PUBLIC WORKS
DEPARTMENT

To: File

From: Gary J Schneider

Date: November 13, 2023

Re: Minor Road Reconstruction

A minor reconstruction could involve the removal of some rock, trees, guard rail installation, the widening of the road in various locations to meet a 24 foot minimum width and the re-grading of side slopes before resurfacing can take place. It could also involve off street parking pads, sidewalks that abut the curbing and driveway aprons that are integral to the walks.

Vivian Street and a portion of Norman Street are unique to the Town in that:

- Asphalt sidewalks are next to the asphalt curbing
- Small residential lots resulting in a large amount of driveway aprons to address
- Off street parking areas that are not driveways, but abut the sidewalks.

To resurface these two roads, the entire right of way must be addressed. Asphalt sidewalks, curbing and roads would be reclaimed and regraded to provide proper drainage. Driveway aprons need to be matched to existing driveways and utility manholes adjusted. It follows "once in, all done" goal of the Department. Plans and cost estimates have been prepared. Once funding for construction is authorized, this project can be placed out to bid.

A section of Vauxhall Street (approximately 3,200 ft.) from the Montville Town line south to the transmission lines was never reconstructed. It currently is a narrow road with numerous rock formations next to the travel lanes. It is anticipated that there is ledge under the existing pavement that would need to be removed before resurfacing can take place. Drainage systems are mostly open ditches along the edges of the road.

This project requires consultant engineering support to prepare a proper plan, cost estimates and bid packages for construction.

Lenard Engineering, Inc.
2210 Main Street
Glastonbury, CT 06033-6088

OPINION OF PROBABLE COST
Norman St. and Vivian St.
Roadway and Sidewalk Improvments
Waterford, CT

Estimate 11/3/21
LEI Job No. 21-366
Prepared By: JED

Total Item		Estimated Quantity and Unit Measure	Estimated Unit Price	Extended Price
	Mobilization and Project Closeout	1 LS	$70,000.00	$70,000.00
	Catch Basin Protection	1 LS	$10,000.00	$10,000.00
	Maintenance & Protection of Traffic	1 LS	$35,000.00	$35,000.00
	Trafficperson	500 HR	$37.00	$18,500.00
	Removal of Bituminous Concrete Curbing	4690 LF	$4.40	$20,636.00
	Removal of Bituminous Concrete Sidewalk	825 SY	$32.20	$26,565.00
	Paving HMA S0.375	1180 TONS	$140.00	$165,200.00
	Paving HMA S0.5	1180 TONS	$120.00	$141,600.00
	Full Depth Road Reclamation	8100 SY	$4.50	$36,450.00
	Bituminous Sidewalk	1300 SY	$60.00	$78,000.00
	Bituminous Concrete Driveway	4310 SF	$18.60	$80,166.00
	Concrete Sidewalk Ramp	850 SF	$22.80	$19,380.00
	Detectable Warning Pad	10 EA.	$247.00	$2,470.00
	Saw Cutting	1300 LF	$5.40	$7,020.00
	Bituminous Concrete Curbing	4470 LF	$7.40	$33,078.00
	Demolition - Catch Basin	2 EA.	$750.00	$1,500.00
	Install Type "C" Catch Basin	2 EA.	$3,400.00	$6,800.00
	Adjust CB Top	9 EA.	$500.00	$4,500.00
	Replace CB top w/MH Top	1 EA.	$1,000.00	$1,000.00
	Grass Surface Restoration	1500 SY	$9.00	$13,500.00
	Sub-Total - Items 1-40			**$771,365.00**
	Rock-in-Trench Excavation, if encountered	CY	$200.00	$0.00
	Remove unsuitable soil, replace with gravel fill (if encountered)	CY	$25.00	$0.00
	Estimated Construction Cost			**$771,365.00**
	10% Contingency			**$77,137.00**
	Estimated Construction Cost w/Contingency			**$848,502.00**

Say $850,000.00

CPI Inflation Calculator

$ 850,000.00

in November 2021

has the same buying power as

$941,257.54

in September 2023

Calculate

12/1/2022 11:07:55 AM

Scale: 1"=250'

Scale is approximate

The information depicted on this map is for planning purposes only. It is not adequate for legal boundary definition, regulatory interpretation, or parcel-level analyses.

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Public Works	CONTACT PERSON Gary J. Schneider
PROJECT NAME Bridges/Culverts Under 20'	DEPARTMENT PRIORITY 4

1	DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)
	From the rains that were the result of Ida, the bridge over the brook at Old Norwich Town Road, (bridge #15004) may have experienced some scour that would need to be corrected. Also identified were a major safety issues. On the downstream side, only a chain link fence is keeping vehicles from a 15 foot drop into the brook; on the upstream side, unsecured small concrete blocks were placed at the edge of the road. Both don't meet acceptable safety structures for crossings. Funds are being requested to correct the issues identified at the bridge (#15004) on Old Norwich Road at the Hunts Brook crossing. Funds are requested for design in FY 25 with construction funds requested for FY 27.
2	PROJECT STATUS IF IN PROGRESS
	No Department resources expended to date on this project.
3	LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST
	None
4	DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)
	No impact to the Department's budget.
5	GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)
	None
6	ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)
	See attached expanded narrative, LEI inspection report dated Sept 3, 2021 and LEI proposal dated Oct 15, 2021. It has been revised to reflect the current On-Call Engineering agreements and BLS inflation rates.
7	COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance		15,000		90,000		
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	0	15,000	0	90,000	0	0

TOWN OF WATERFORD
MEMORANDUM

PUBLIC WORKS
DEPARTMENT

To: File

From: Gary J Schneider

Date: November 9, 2023

Re: Bridges/Culverts Under 20'

The Town has 13 bridges/culverts that the State of Connecticut field screened in 2018. The State no longer provides inspections of these structures. That task falls back onto the Town. These structures are not on the National Bridge Inventory as the span is 20 feet or less, but they still carry traffic over our water courses. As with our larger bridges, serious problems such as load restrictions and closures can be prevented by programming renovation work.

The goal is to address the issues on the bridges/culverts before the need for repair or rehabilitation is urgent or in the worst case, the necessary to close the road until corrective action is taken.

When these structures are renovated, the Department will analyze not only tho structure, but items such as width of road at the crossing making them safe for vehicles using the structure and adding protection to the water course that flows through them. Such measures may include compliant guard rail systems, bank stabilization and alignment of the watercourse to the road. These projects would be consistent with Town of Waterford Hazard Mitigation Plan December 2017 and MS4 General Permit.

From the rains that were the result of Ida, the bridge over the brook at Old Norwich Town Road, (bridge #15004) may have experienced some scour that would need to be corrected. Also identified was a major safety issue. On the downstream side, only a chain link fence is keeping vehicles from a 15 foot drop into the brook; on the upstream side, unsecured small concrete blocks were placed at the edge of the road. Both don't meet acceptable safety structures for crossings.

The remaining bridge/culvert locations will be addressed in future years when the funding would retain the services of a qualified bridge engineering firm to fully inspect the structures and specify the required repairs with construction funding requested in the following years.

Lenard Engineering, Inc.

2210 Main Street
P.O. Box 1098
Glastonbury, CT 06033
Tel: 860 659-3100
Fax: 860 659-3103

1348 Conantville Road
P.O. Box 580
Storrs, CT 06268
Tel: 860 429-5400
Fax: 860 429-1367

140 Willow Street
Suite 8
Winsted, CT 06098
Tel: 860 379-6669
Fax: 860 738-1272

15 Midstate Drive
Suite 208
Auburn, MA 01501
Tel: 508 721-7600
Fax: 508 721-7610

www.lenard-eng.com

Civil, Environmental and Hydrogeological Consultants

October 15, 2021

Mr. Gary Schneider
Director of Public Works
Town of Waterford
15 Rope Ferry Road
Waterford, CT 06385

RE: *Proposal for Professional Services, Prepare Design Plans for Guard Rail Improvements at Old Norwich Road Bridge over Hunts Brook, Waterford, CT*

Dear Mr. Schneider:

As requested, Lenard Engineering, Inc. (LEI) is pleased to submit this proposal for the Towns review and acceptance.

SCOPE OF SERVICES

1) Wetland Delineation – As the work will take place within the upland review area for wetlands and watercourses, LEI will retain a certified soil scientist to delinate the limits of wetlands adjacent to Hunts Brook, within 75' of Old Norwich Road, both upstream and downstream.

2) Conduct Field Survey and Base Mapping - LEI will conduct up to one day of field survey, to locate the roadway, existing railing and fencing components, marked utilities, wetland flags and other physical items that could impact the design and construction.

   LEI will prepare a base map at an appropriate scale, utilizing NAD 83 elevation datum.

3) Prepare Design Plans and Technical Specifications - LEI will prepare design plans for replacement of the existing guard rails on the north side of the road with a DOT traffic rated guard rail barrier system.

   On the south side of the road, LEI will evaluate options to upgrade the existing galvanized posts and chain link fencing with a DOT traffic rated system. If feasible, LEI will design a replacement system for the south side of the road.

   LEI will prepare a set of technical specifications which reference DOT Form 818 standards.

4) Construction Cost Estimate – LEI will conduct quantity takeoffs and prepare a construction cost estimate, using bid prices from recent projects, as well as DOT unit prices.

5) Review Meeting and Final Revisions

LEI will attend one review meeting, either virtually or in-person, to review the plans, specs and cost estimate, and solicit your comments and ideas. We will make one set of revisions to all documents, and provide the Town with both PDF and paper copies of the final plans, specifications and cost estimate, for your use in bidding and constructing the project.

PROPOSED FEES

We propose to complete work as specified above for a lump sum fee of $ 10,500, broken down as follows:

Task 1 – Wetland Delineation	$ 1,000
Task 2- Survey and Base Mapping	$ 3,000
Task 3- Preliminary Design Plans, Specifications	$ 4,500
Task 4- Cost Estimate	$ 500
Task 5- Review Meeting, Final Revisions	$ 1,500
TOTAL FEE	$ 10,500

We hope the Town finds our proposal acceptable, and we look forward to continuing to serve Waterford on this project. If you or others at the Town have any questions or comments, I am at your service.

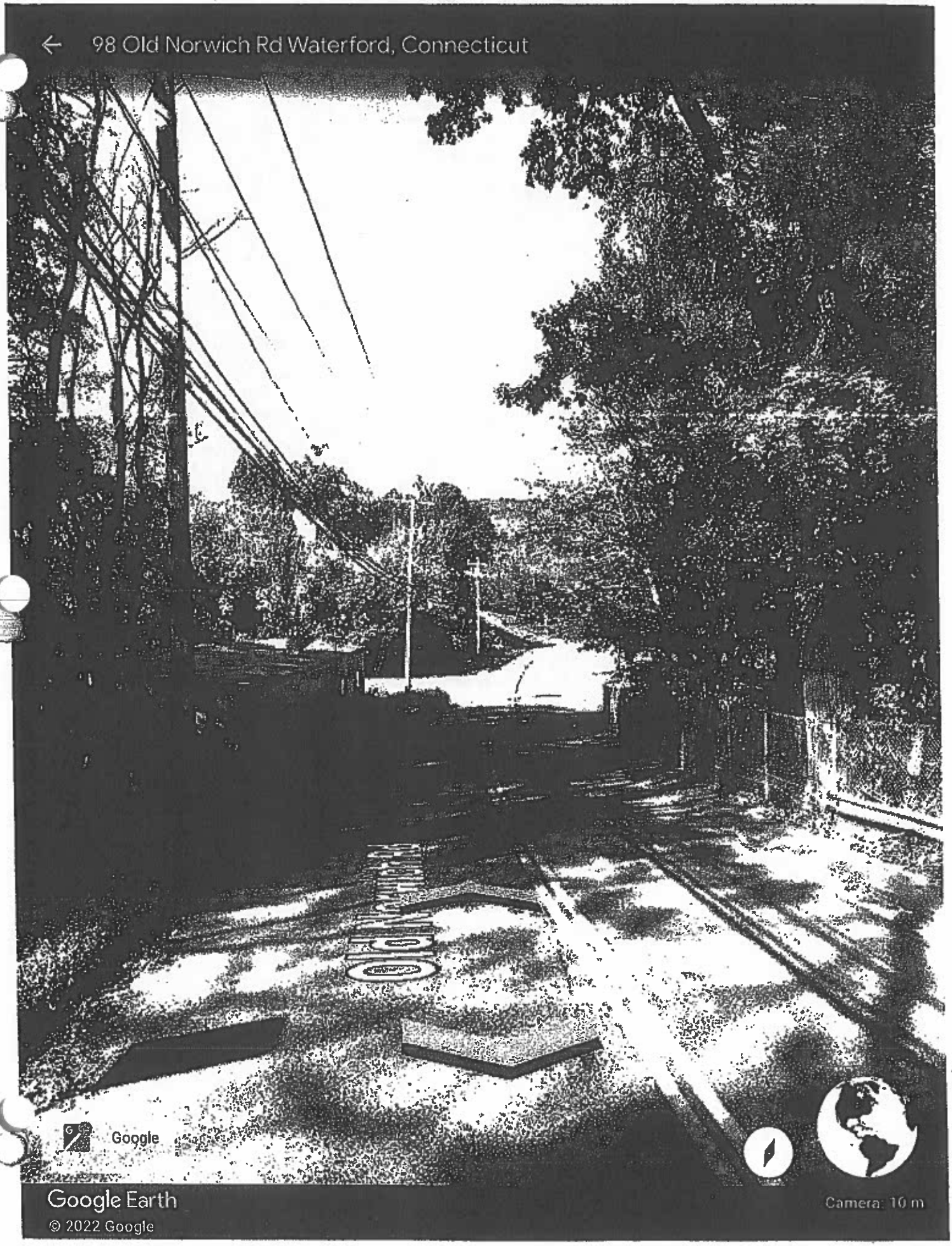
Respectfully submitted,
Lenard Engineering, Inc.

Jim Ericson

James E. Ericson, PE
Vice President

ACCEPTED BY: _____

DATE: _____


98 Old Norwich Rd Waterford, Connecticut
Google
Google Earth
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Camera: 10 m

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Public Works	CONTACT PERSON Gary J. Schneider
PROJECT NAME Sidewalk Replacement	DEPARTMENT PRIORITY 5

1 DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)

Niantic River Road Sidewalk: Schematic Design has been completed. Although the entire length of Niantic River Road has sidewalks, this project starts at the intersection of Old Niantic River Road and ends at the intersection of West Street. There are areas mostly between 6th and 10 Avenues where there is conflict with two fixed objects restricting the width to under 36 inches. These areas must be further investigated to determine if the objects are on town property or if a permanent easement must be acquired. In both cases, the restriction must be resolved. The next phase is to determine what course of action to take to eliminate this restrictions and make it ADA compliant.

2 PROJECT STATUS IF IN PROGRESS

None

3 LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST

None

4 DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)

Minor impact. Current practice is just to make the condition safe.

5 GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)

None

6 ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (If none, simply state that in the area below)

See attached expanded narrative. Haley Ward letter dated September, 2023

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance		25,000				
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	0	25,000	0	0	0	0

TOWN OF WATERFORD
MEMORANDUM

PUBLIC WORKS
DEPARTMENT

To: File

From: Gary J Schneider

Date: November 13, 2023

Re: Sidewalk Replacement

This Capital project supports surface transportation projects which encompass roads, street accessories, sidewalks, and bridges. The objective is to provide safe, attractive, and efficient public transportation ways and infrastructure systems that support them.

With many sidewalks around the Town in need of repair and replacement, this project will request funding for multiple years to repair sidewalks, improve walkability, and increase pedestrian safety throughout our community. The Town has an extensive network of sidewalks not only in neighborhoods, but connecting neighborhoods with each other and other town parks, local businesses and community services. Sidewalks also provide a visual character of community, equal to what a good road provides. By providing a safe walkway, we will be encouraging people to use this healthy and environmentally sustainable mode of travel and more attractive place to live and work.

This project will provide funds to replace sections of concrete and asphalt sidewalks that are not salvageable, eliminating trip hazards and missing portions of the walks.

Also included in this project will be the replacement or installation of ADA ramps, address structure constrictions within the sidewalk and properly locate crosswalks where required. Sidewalks will be replaced with like material, concrete for concrete, asphalt for asphalt.

It is recommended that this multi-year project be a mix of local neighborhood sidewalks and connecting sidewalks. Once these areas have been addressed, the project will move to the sidewalks on State Roads. As the Department moves into replacing sidewalks, the plan will comply current ADA guidelines.

Niantic River Road Sidewalk: Schematic Design has been completed. Although the entire length of Niantic River Road has sidewalks, this project starts at the intersection of Old Niantic River Road and ends at the intersection of West Street. There are areas mostly between 6th and 10 Avenues where there is conflict with two fixed objects restricting the width to under 36 inches. These areas must be further investigated to determine if the objects are on town property or if a permanent easement must be acquired. In both cases, the restriction must be resolved. The next phase is to determine what course of action to take to eliminate this restrictions and make it ADA compliant.

HALEY WARD.

ENGINEERING | ENVIRONMENTAL | SURVEYING

September 5, 2023

Mr. Gary Schneider
Director of Public Works
Town of Waterford
15 Rope Ferry Road
Waterford, CT 06385

RE: ***Proposal for Professional Services, Prepare Final Plans, Specifications, Easement Maps for Niantic River Road Sidewalk Improvements, Waterford, CT***

Dear Mr. Schneider:

As requested, Haley Ward, Inc. (Haley Ward) is pleased to submit this proposal for the Town's review and acceptance. As discussed, due to the high cost of replacing all the sidewalk on Niantic River Road, we will focus our final design efforts between 6th and 10th Streets, the area with the most obstacles.

SCOPE OF SERVICES

1) Hold Initial Review Meeting– We will meet with you and other Town officials to discuss the current situation and design options for providing an improved sidewalk width and layout within the project area.

2) Conduct Additional Land Record Research Survey and Base Mapping – Haley Ward's licensed land surveyor will conduct additional land record research for properties where easements or taking are required for sidewalk construction. We will update town road right-of-way and private property boundary information in these areas.

3) Update Preliminary Design Plans and Cost Estimate- LEI will prepare revised plans showing proposed sidewalk improvements. We will generate construction details and technical specifications. We will calculate construction quantities and generate construction cost estimates.

4) Prepare Preliminary Easement or Taking Maps- For those private properties where easements or land taking is proposed, we will generate preliminary easement or taking maps, for the Town's use in reviewing these with those property owners. We have included one revision to these maps, based on

2210 Main Street, P.O. Box 1088, Glastonbury, CT 06033
T: 860.659.3100 | HALEYWARD.COM

comments received by the Town. We will prepare final easement or taking map mylars, for the Town's use in recording these on the land records.

We have included up to four Easement or Taking Maps in our Scope.

5) Review Meeting, Final Revisions and Deliverables

We will attend one review meeting, either virtually or in-person, to review the plans, specs and cost estimate, and solicit your comments and ideas. We will make one set of revisions on the design plans, details, and technical specifications.

We will provide the Town with PDF copies of the final plans, technical specifications and bid form, for your use in advertising and constructing the project.

6) Service During Bidding – We will provide services during one bidding event of 45 days or less. We will attend one pre-bid meeting, answer bidder questions, issue addenda if required, review bid and low three bidder qualifications and issue an award recommendation.

PROPOSED FEES

We propose to complete work as specified above for a lump sum fee of $ 6,200, broken down as follows:

Task 1 – Initial Review Meeting	$ 600
Task 2- Additional Land Record Research	$ 2,000
Task 3 – Update Plans. Prepare Technical Specifications and Cost Estimate	$ 7,500
Task 4- Prepare Easement or Taking Maps	$ 6,000
Task 5- Services During Bidding	$ 3,000
TOTAL FEE	$ 19,100

We hope the Town finds our proposal acceptable, and we look forward to continuing to serve Waterford on this project. If you or others have any questions or comments, I am at your service.

Respectfully submitted,
Haley Ward, Inc.

James E. Ericson, PE
Regional Manager | Vice President

Haley Ward, Inc.
2210 Main Street
Glastonbury, CT 06033-6088

TABLE 1 -OPINION OF PROBABLE COST
Niantic River Road.
Sidewalk Replacement and Associated Construction
Waterford, CT

Estimate 4/28/23
LEI Job No. 22-3689
Prepared By: JEE

	Total Item	Estimated Quantity and Unit Measure	Estimated Unit Price	Extended Price
1	Mobilization and Project Closeout	1 LS	$60,000.00	$60,000.00
2	Catch Basin Protection	1 LS	$5,000.00	$5,000.00
3	Maintenance & Protection of Traffic	1 LS	$30,000.00	$30,000.00
4	Trafficperson	500 HR	$37.00	$18,500.00
5	Removal of Concrete Sidewalk	3000 SY	$35.80	$107,400.00
6	Remove and Relocate Guidance Signs	1 LS	$10,000.00	$10,000.00
7	Remove Existing Concrete Curb (40 % of total)	2500 LF	$10.00	$25,000.00
8	Remove Existing 24" CMP Drainage	165 LF	$50.00	$8,250.00
9	Remove Old Catch Basins and Drain Manholes	3 EA.	$500.00	$1,500.00
10	Relocate Timber Retaining Wall	90 LF	$30.00	$2,700.00
11	Construct Block Retaining Wall	30 LF	$30.00	$900.00
12	Bituminous Concrete Driveway Repairs	30 EA.	$300.00	$9,000.00
13	New Concrete Sidewalk	28000 SF	$13.00	$364,000.00
14	Concrete Sidewalk Ramp	36 EA.	$3,000.00	$108,000.00
15	Install New Drainage Structures	3 EA.	$5,000.00	$15,000.00
16	Install New 24" HDPE Drain Piping	165 LF	$100.00	$16,500.00
17	Install New Concrete Curb	2500 LF	$30.00	$75,000.00
18	New Curb Paving	5000 SF	$10.00	$50,000.00
19	New Painted Crosswalks	3 EA.	$1,000.00	$3,000.00
20	Grass Surface Restoration	1000 SY	$9.00	$9,000.00
	Sub-Total - Items 1-20			**$918,750.00**
	Rock-in-Trench Excavation, if encountered	20 CY	$200.00	$4,000.00
	Remove unsuitable soil, replace with gravel fill (if encountered)	100 CY	$25.00	$2,500.00
	Estimated Construction Cost			**$925,250.00**
	20 % Contingency			**$185,050.00**
	Estimated Construction Cost w/Contingency			**$1,110,300.00**
	SAY			**$ 1.1 million**

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Public Works	**CONTACT PERSON** Gary J. Schneider
PROJECT NAME Concrete Curbs	**DEPARTMENT PRIORITY** 6

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	Deteriorated sections of concrete curbing in the Millstone East Neighborhood must be addressed before the road can be scheduled to be resurfaced. The concrete curbing has spalled to a point with the steel rebar is being exposed and is becoming a hazard to tires or the walking public. Patching the spalled concrete is not cost effective as the water and salt has already reached the untreated steel and the spalling will continue until all affected sections have been removed. The deteriorated sections would be removed and precast concrete sections installed. Modern concrete mixes are formulated stand up to salt (chlorides) intrusion. • Gunshot, Lanyard, Race Rock, Windward and Millstone East roads
2	**PROJECT STATUS IF IN PROGRESS**
	Department has identified areas of curbing needs to be addressed before the roads are resurfaced.
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
	Paving of the roads will be held off until the curbing condition is addressed.
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
	Minor impact. Current practice is just to make the condition safe.
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
	None
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	See attached expanded narrative, LEI estimated cost per linear foot dated 11/2022.

7 **COST/FUNDING SOURCE**

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance		650,000		650,000		
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**0**	**650,000**	**0**	**650,000**	**0**	**0**

TOWN OF WATERFORD
MEMORANDUM

PUBLIC WORKS
DEPARTMENT

To: File

From: Gary J Schneider

Date: November 13, 2023

Re: Concrete Curb Replacement

This project supports surface transportation projects which encompass roads, street accessories, sidewalks, and bridges. The objective is to provide safe, attractive, and efficient public transportation ways and infrastructure systems that support them.

Our existing roadside curbing is either asphalt or concrete. Asphalt curbing typically is addressed when the road is resurfaced. Deteriorated sections are removed in mass just before the new surface is placed and then the curbs are reinstalled. Deteriorated sections of concrete curbing must be addressed before the road is scheduled to be resurfaced. You don't want to pave a road and then cut out the section of the new pavement in the gutter to remove the old curb and install the new.

The concrete curbing in many areas has spalled to a point where the steel rebar is being exposed and is becoming a hazard to tires or the walking public. Patching the spalled concrete is not cost effective as the water and salt has already reached the untreated steel and the spalling will continue until there is nothing left.

The deteriorated sections would be removed and precast concrete sections would be reinstalled. Modern concrete mixes are formulated to stand up to salt (chlorides) intrusion.

The first round of concrete curb replacement was funded for Sandy Hollow Drive in FY 24. The unit price (bid and Engineer's estimate) for that work was $100/lf.

Road	Length	2x Total L	Unit Price	Total
Gunshot	867	1734	$100	$173,400
Race Rock	1016	2032	$100	$203,200
Landyard	807	1614	$100	$161,400
Millstone E	1659	3318	$100	$331,800
Windward	2324	4648	$100	$464,800
				$1,334,600

Notes:

Unit price based on Bids received for Sandy Hollow Road, 9/2023
Length based on VHB Pavement Management 2020 Update, dated October 2020

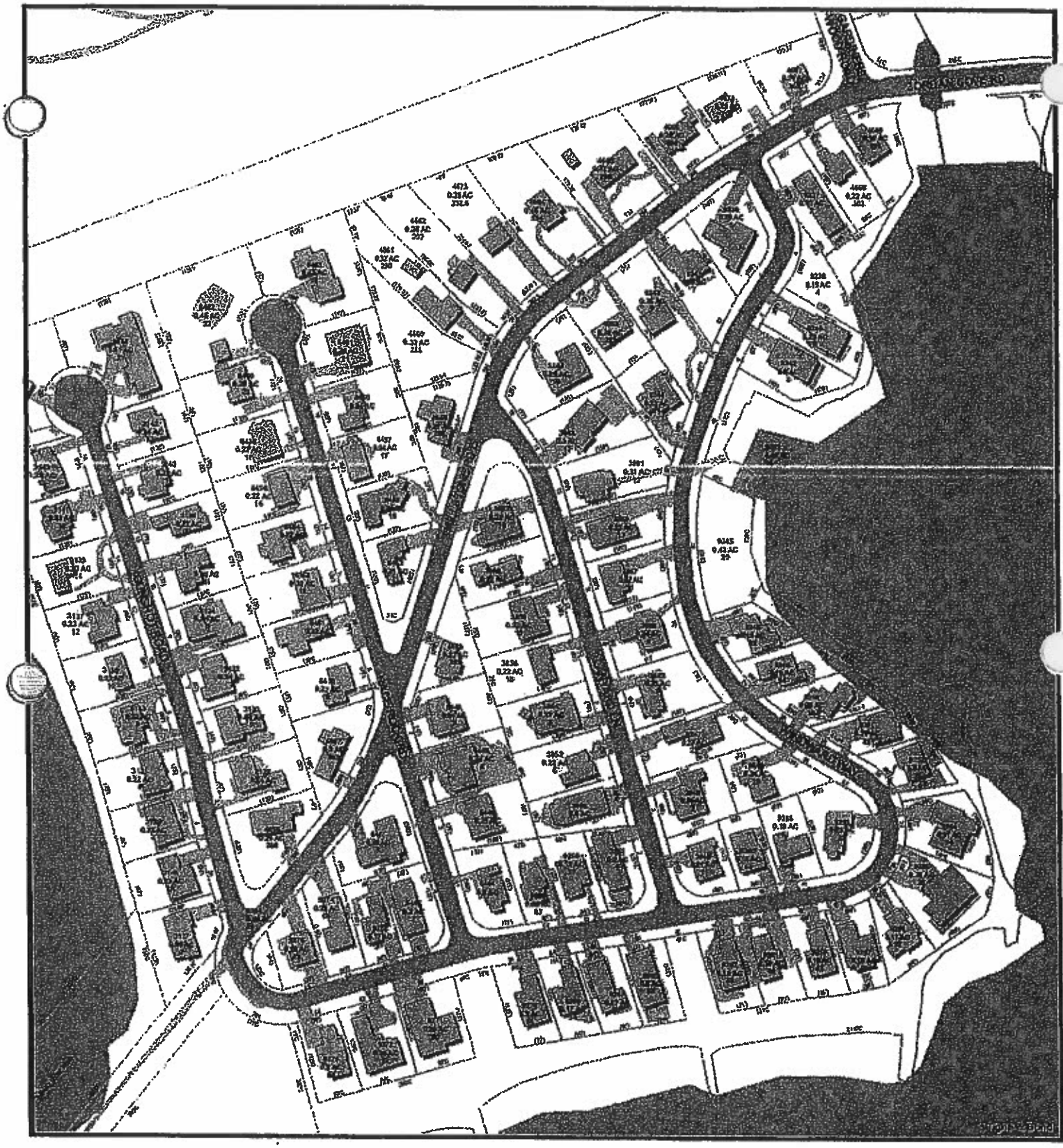
Lenard Engineering, Inc./ Haley Ward
2210 Main Street
Glastonbury, CT 06033-6088

OPINION OF PROBABLE COST
Curbing Replacement Project
Sandy Hollow Drive
Waterford, CT

Estimate 11-23-2022
LEI Job No. 22-360
Prepared By: JEE

	Total Item	Estimated Quantity and Unit Measure	Estimated Unit Price	Extended Price
1	Mobilization and Project Closeout	LS	$20,000	$20,000
2	Catch Basin Protection	LS	$1,000	$1,000
3	Maintenance & Protection of Traffic	LS	$5,000	$5,000
4	Concrete Curbing Removal	2950 LF	$15	$44,250
5	Install Pre-Cast Concrete Curbing - Straight Sections	~~2450 LF~~	$50	$122,500
6	Install Pre-Cast Concrete Curbing - Driveway Transition Sections	180 LF	$60	$10,800
7	Install Pre-Cast Concrete Curbing- Curved Sections	290 LF	$60	$17,400
8	Bituminous Concrete Pavement Replacement- Town Road	550 SY	$50	$27,500
9	Bituminous Concrete Pavement Replacement- Private Driveways	120 SY	$60	$7,200
10	Grass Surface Restoration	600 CY	$20	$12,000
	Sub-Total - Items 1-10			$267,650
	10% Contingency			$26,765
	Estimated Construction Cost w/Contingency			$294,415
			Say	**$300,000**

$100/LF



12/1/2022 8:34:48 AM

Scale: 1"=200'

Scale is approximate

The information depicted on this map is for planning purposes only. It is not adequate for legal boundary definition, regulatory interpretation, or parcel-level analyses.

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Public Works	**CONTACT PERSON** Gary J. Schneider
PROJECT NAME Risk Assessment - Roadways	**DEPARTMENT PRIORITY** 7

1 DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)

In 2017 Waterford completed a Climate Change Risk Vulnerability, Risk Assessment and Adaptation Study. Section F, Adaptation Strategies – Roadways, identified 6 (four town, 2 state) areas on the "network of evacuation and emergency access routes that should be strengthened to improve the Town's resilience to flooding".

- Oswegatchie Road
  - o Near Point Comfort Road, raise roadway
  - o Reinforce Roadway Embankments at Keeny Cove
- Niantic River Road – Reinforce Roadway Embankments
- Gardiners Wood Road - Elevate /redesign (Separate CIP project)
- Old Norwich Road – Elevate roadway near Old Colchester Road

Funding for the Niantic River Road will involve the services of a consulting engineer to identify and recommend options to address the issues identified in the report.

2 PROJECT STATUS IF IN PROGRESS

2017 Waterford completed a Climate Change Risk Vulnerability, Risk Assessment and Adaptation Study by Kleinfelder Northeast, Inc.

3 LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST

None

4 DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)

None

5 GRANT FUNDING/OTHER FUNDING, If applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)

Grants may be available for a portion of these projects.

6 ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (If none, simply state that in the area below)

See attached expanded narrative and excerpts from the Climate Change Risk Vulnerability. Risk Assessment and Adaption Study, as well as a memo prepared by the Town's Environmental Planner Maureen Fitzgerald.

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance		55,000				
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	0	55,000	0	0	0	0

TOWN OF WATERFORD
MEMORANDUM

PUBLIC WORKS
DEPARTMENT

To: File

From: Gary J Schneider

Date: November 13, 2023

Re: Risk Assessment Roadways

In 2017 Waterford completed a Climate Change Risk Vulnerability, Risk Assessment and Adaptation Study. Section F, Adaptation Strategies – Roadways, identified 6 (four town, 2 state) areas on the "network of evacuation and emergency access routes that should be strengthened to improve the Town's resilience to flooding".

Those four locations are:

- Oswegatchie Road
  - Near Point Comfort Road, raise roadway
  - Reinforce Roadway Embankments at Keeney Cove
- Niantic River Road – Reinforce Roadway Embankments
- Gardiners Wood Road - Elevate /redesign
- Old Norwich Road – Elevate roadway near Old Colchester Road (Note, this section of the road flooded due the 5-8 inches of rain from IDA.)

FY 25 would be funding to hire a consulting engineer to evaluate the issues concerning the extent of coastal embankment and shoreline erosion along portions of Niantic River Road and at Grimsey Beach.

CIP REQUEST

Survey & Engineering Services to Evaluate Alternatives for Shoreline & Embankment Stabilization Along the Niantic River

Locations: Niantic River Road Shoreline: Daniels to 4th Avenue and Grimsey Beach: 47 Oswegatchie Road

Purpose: To evaluate the degree and extent of coastal embankment and shoreline erosion along portions of the Niantic River between Daniels Avenue and 4th Avenue and the shoreline at Grimsey Beach where municipal infrastructure including roadway, utilities and public beachfront lie close to eroding shorelines. The evaluation will include a detailed survey of existing conditions and engineered alternatives and associated cost estimates for reinforcing shorelines and embankments and incorporate living shoreline elements that promote establishment of tidal wetlands to absorb wave energy and reduce erosive forces.

The Town completed a Climate Change Risk Vulnerability, Risk Assessment and Adaptation Study in 2015 identified these areas as vulnerable to coastal flooding and erosion. Adaptation strategies identified for Niantic River Road include reinforcement of roadway embankments to prevent erosion of the roadway embankment during major storms.

A report was submitted by the Waterford Flood & Erosion Control Board dated December 1, 2021 documenting concerns of embankment erosion along Niantic River Road in the vicinity of 3rd an 4th Avenues and recommending a survey of the area and solutions to prevent damage to the roadway.

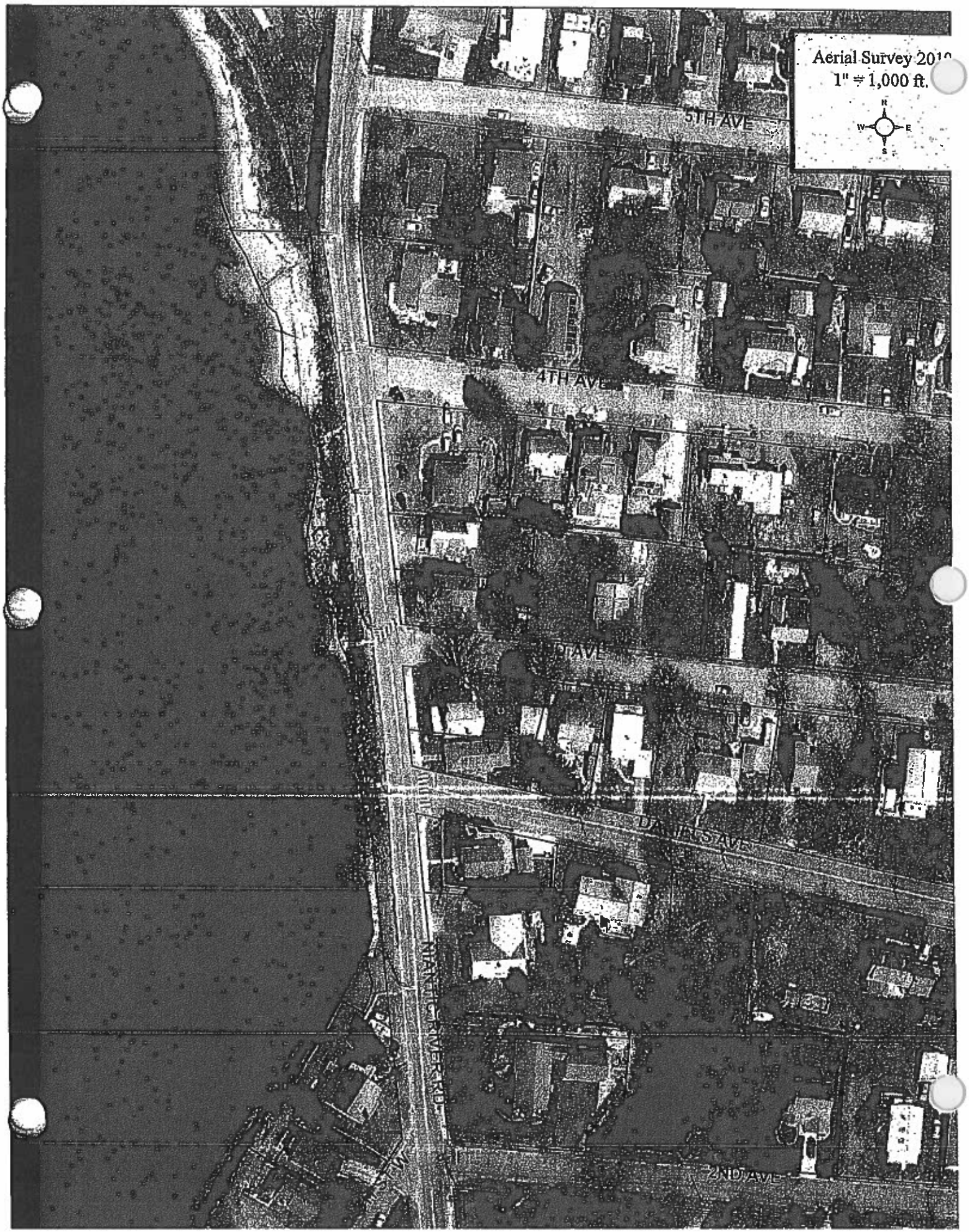
Adaptation strategies for Oswegatchie Road near Grimsey Beach, south of Point Comfort Road, include raising portions of the roadway or reinforcing roadway embankments. (Refer to report excerpts attached). The Grimsey Beach shoreline is a good location to implement living shoreline features to restore and enhance natural coastal vegetation, attenuate wave energy and currents, and reduce soil erosion as well as reinforcing the stone block retaining wall that supports the access drive.

Scope of Work:

1) Survey of coastal area features, tidal wetlands, submerged aquatic vegetation, existing shoreline structure locations and elevations, topography, CTDEEP Coastal Jurisdiction Line, and identification of eroding areas. Survey mapping should be consistent with necessary documentation and mapping for State of CT DEEP permitting requirements.

2) Engineered assessment of coastal dynamic wave forces and storm–induced waves affecting the stability of the coastal shoreline embankments and rates of erosion.

3) Design alternatives for reinforcing eroding shoreline areas and supporting municipal infrastructure, including evaulation of implementing living shoreline features to attenuate wave energy and enhance/restore coastal riparian habitats.


Aerial Survey 201
1" = 1,000 ft.
N
W
E
S
5TH AVE
4TH AVE
DANIELS AVE
2ND AVE

Waterford Flood and Erosion Control Board
Niantic River Road Erosion Report
Approved December 1, 2021

To the Waterford Board of Selectmen and Conservation Commission:

On October 6, 2021, following the public comment of several concerned residents, the Flood and Erosion Control Board conducted a site walk along Niantic River Road in the vicinity of 3rd and 4th Avenues. Our members found the concerns of the residents to be justified as we documented and observed considerable erosion up to and beneath Niantic River Road. Consistent with our charge to document and report flooding and erosion issues, we wanted to advise the Board of Selectmen and the Conservation Commission of our observations and concerns.

Attached, you will find the minutes from the site walk as well as relevant photographs showing the extent of the erosion. There exists, in some sections of this area, erosion barriers. In the areas where erosion barriers are absent, there is significant erosion of the embankment supporting Niantic River Road and evidence of erosion underneath the roadway itself. It appears that a combination of loose, sandy and rocky soil, extreme rainfall events, and recent storms have all created an increasingly hazardous situation for this section of roadway.

We strongly recommend that a professional survey of this area be completed to prevent any risk to the integrity of Niantic River Road. Possible solutions may depend on the significance of the erosion underneath the road, but will likely require the extension of the erosion barriers across this section of the embankment.

Respectfully submitted on December 1, 2021 by:
Baird Welch-Collins - Chair
Alexander Kuvalanka - Treasurer
Christopher Callahan
George Harran
Jennifer Kohl

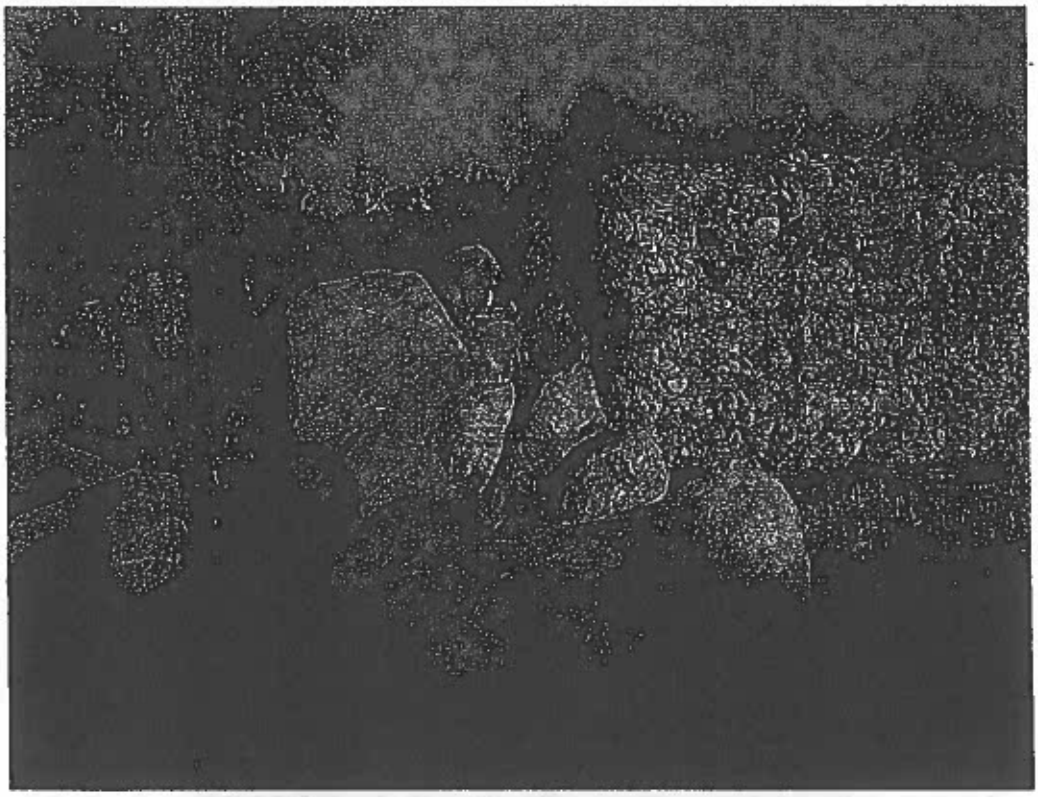
Waterford Flood & Erosion Control Board Special Meeting Minutes for October 6, 2021

Members Present: Baird Welch-Collins, George Harran, Alex Kuvalanka, Chris Callahan

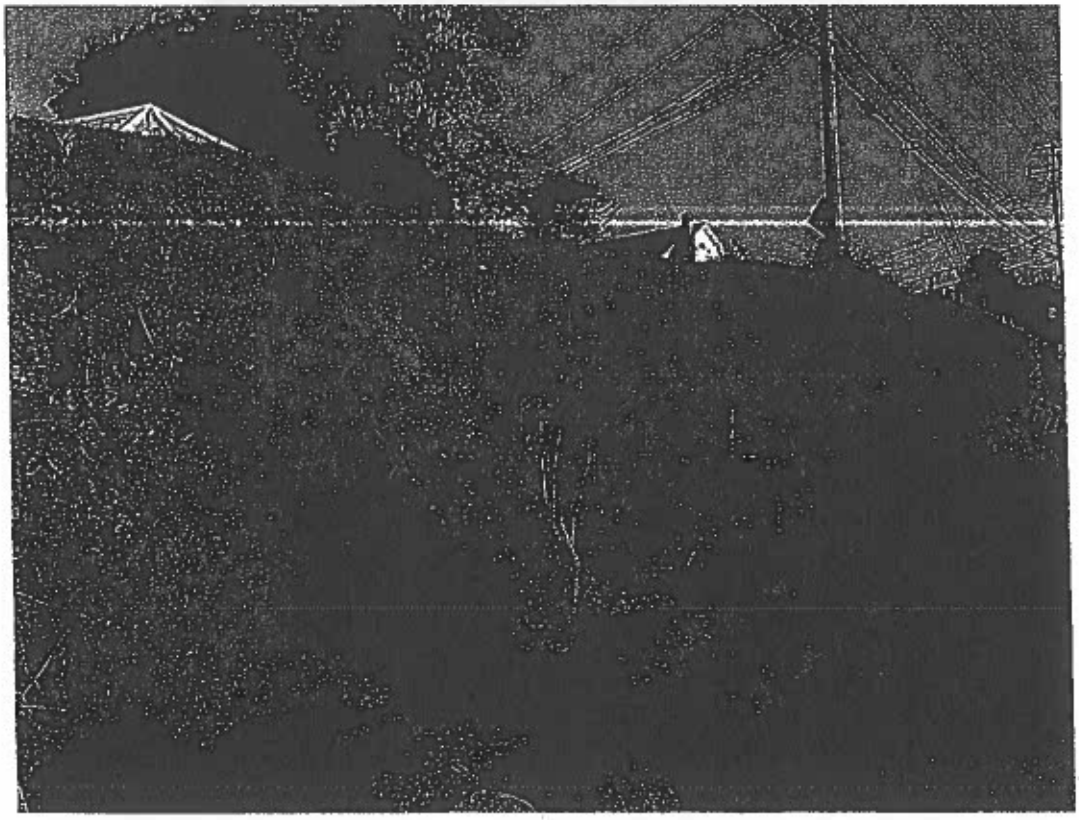
Residents Present: Susan Perry Luxton, Charlie Perry, Rich Cirillo, Patricia Couture, Richard Heller, Sandra Ribeiro, Geraldine Kuenkler, Michelle Palmieri, Chad Gentile, Jeannine Kenney, Terry Kenney

1. Special Meeting called to order at 5:30 pm by Baird Welch-Collins.
2. Site Walk Niantic River Road Erosion
   a. FECB members met with residents to view & discuss their concerns regarding sedimentation erosion occurring along Niantic River Road in the vicinity of 3rd & 4th avenues.
   b. The erosion taking place is due in part to the Niantic River eroding the base of the bank below Niantic River Road & at the base of 5 power poles along the road in the vicinity of 3rd & 4th avenues.
   c. The existing erosion control consists of large boulders that were placed along the beach at the base of the bank. The river flows freely in & around the boulders eroding the base of the bank. Vegetation is present on the bank however; it is not of the types that would help to absorb or stabilize any runoff.
   d. Additionally, previous strong storms have produced runoff that flows across the road & flows down the bank causing further erosion of the bases of the 5 power poles and the edge of Niantic River Road.
   e. FECB will contact Town Staff to determine the appropriate action to be taken.
3. Special Meeting adjourned at 6:28 pm.

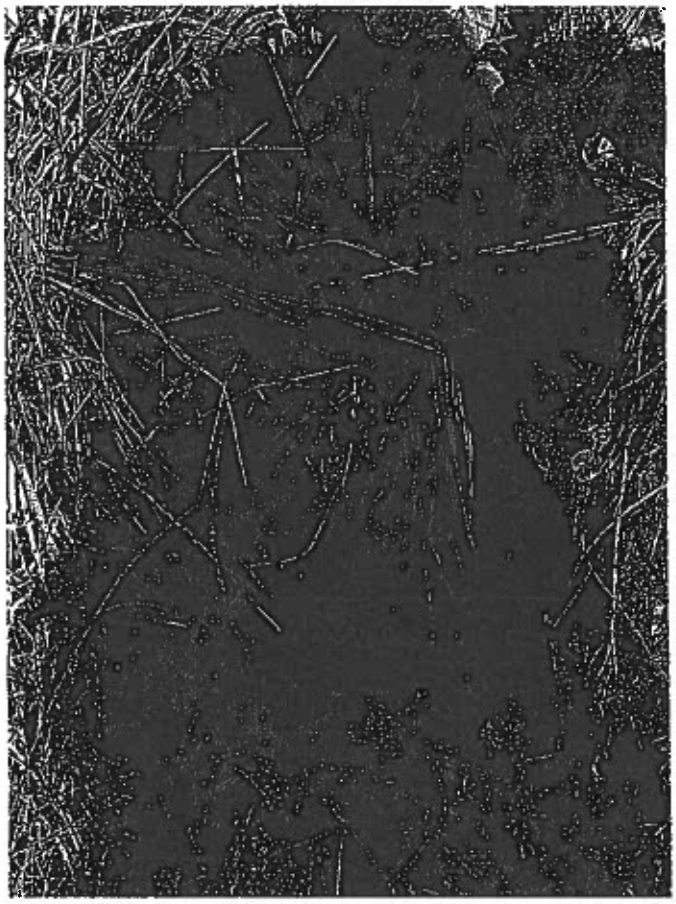
Respectively submitted by Chris Callahan



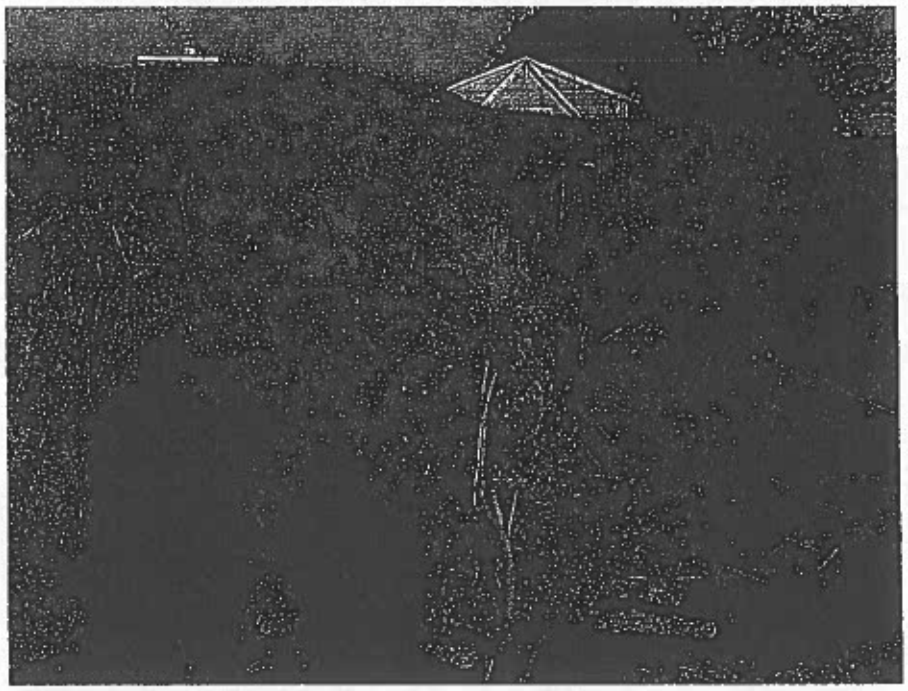
End of the erosion barrier and the beginning of the eroding bank.



Area of key concern where the erosion is nearing the roadway.



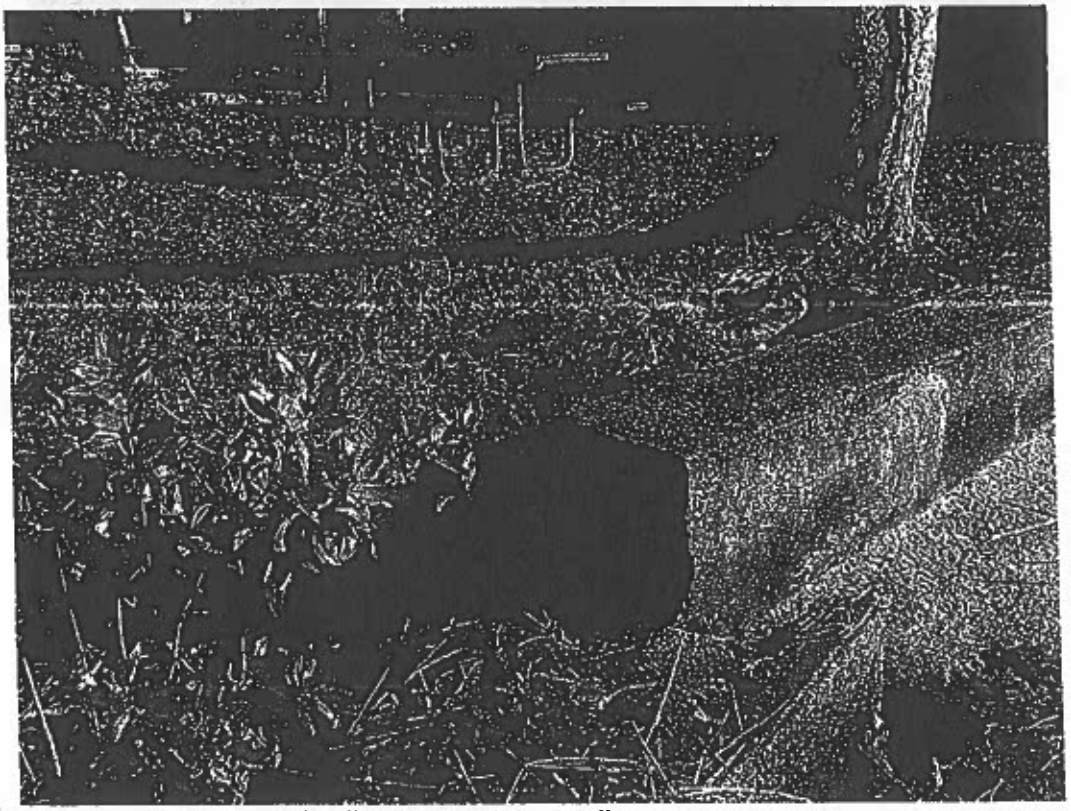
Evidence of erosion underneath the road surface.



Additional area of concern where the embankment has partially collapsed.

Aerial Survey 201
1" = 1,000 ft.
GRIMSEY BEACH
47 OSWEGATCHIE RD

Town of Waterford Property
47 Oswegatchie Road
Photos 11/17/2022

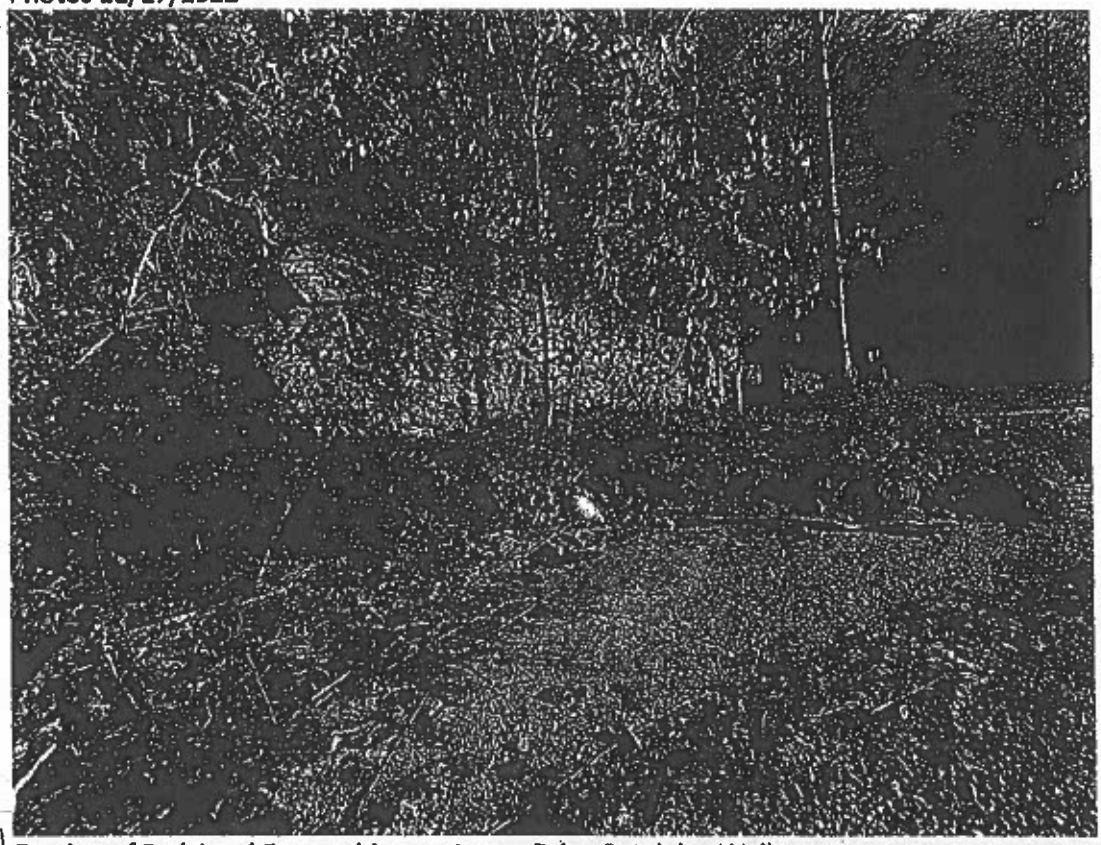


Grimsey Beach – Eroded Collapsing Retaining Wall

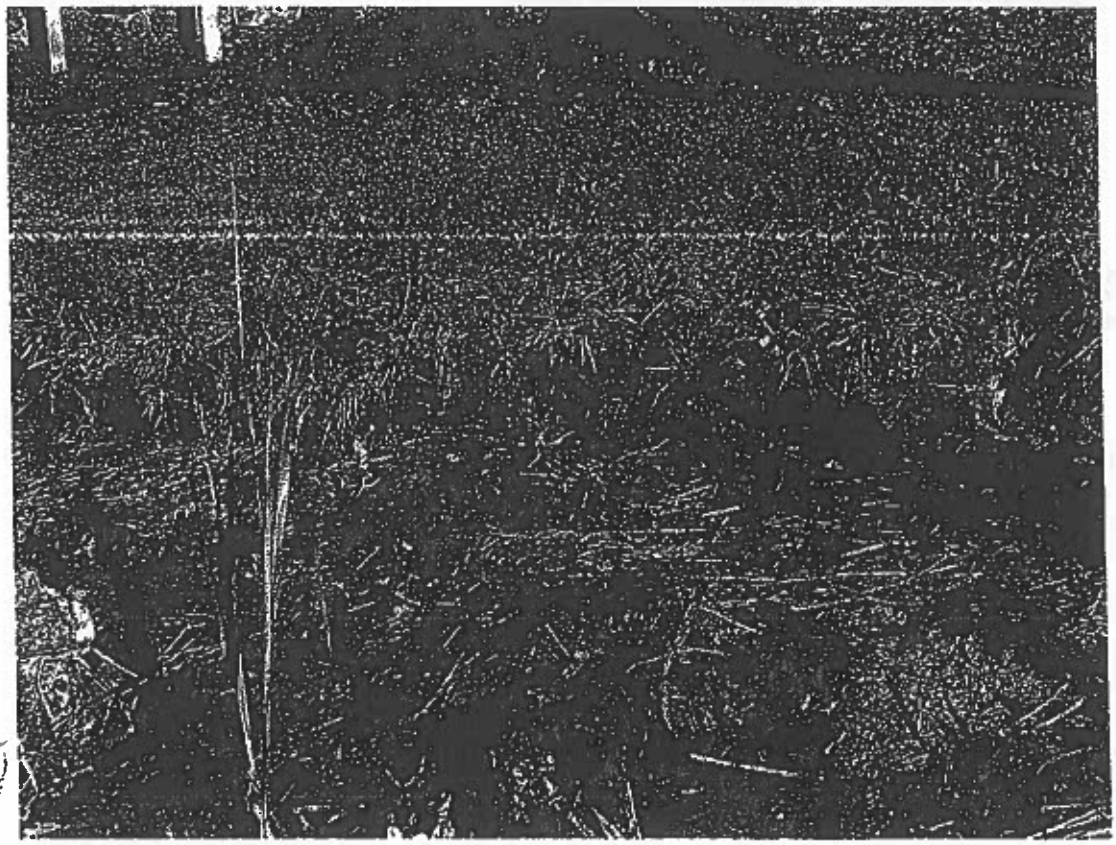
Town of Waterford Property
47 Oswegatchie Road
Photos 11/17/2022

Collapsed Retaining Wall, and Erosion of soil behind wall

Town of Waterford Property
47 Oswegatchie Road
Photos 11/17/2022



Erosion of Park Land Encroaching on Access Drive Retaining Wall



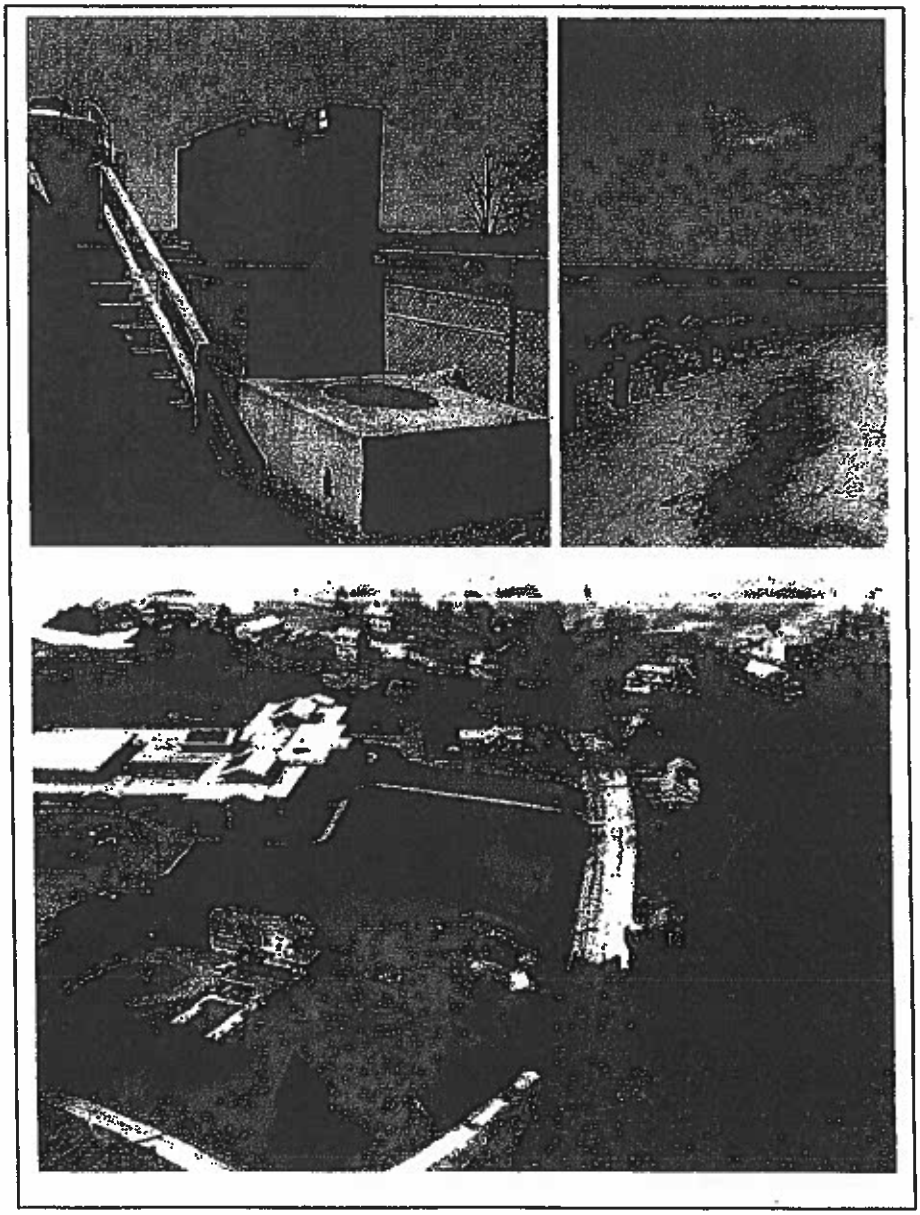
Erosion of Grass Park Land

KLEINFELDER
Bright People. Right Solutions.

CDBG-DR 2015

CLIMATE CHANGE RISK VULNERABILITY, RISK ASSESSMENT AND ADAPTATION STUDY

WATERFORD, CONNECTICUT



Prepared For:
Town of Waterford
15 Rope Ferry Road
Waterford, CT 06385

Prepared By:
Kleinfelder Northeast, Inc.
215 First Street
Cambridge, MA 02142

November 16, 2017

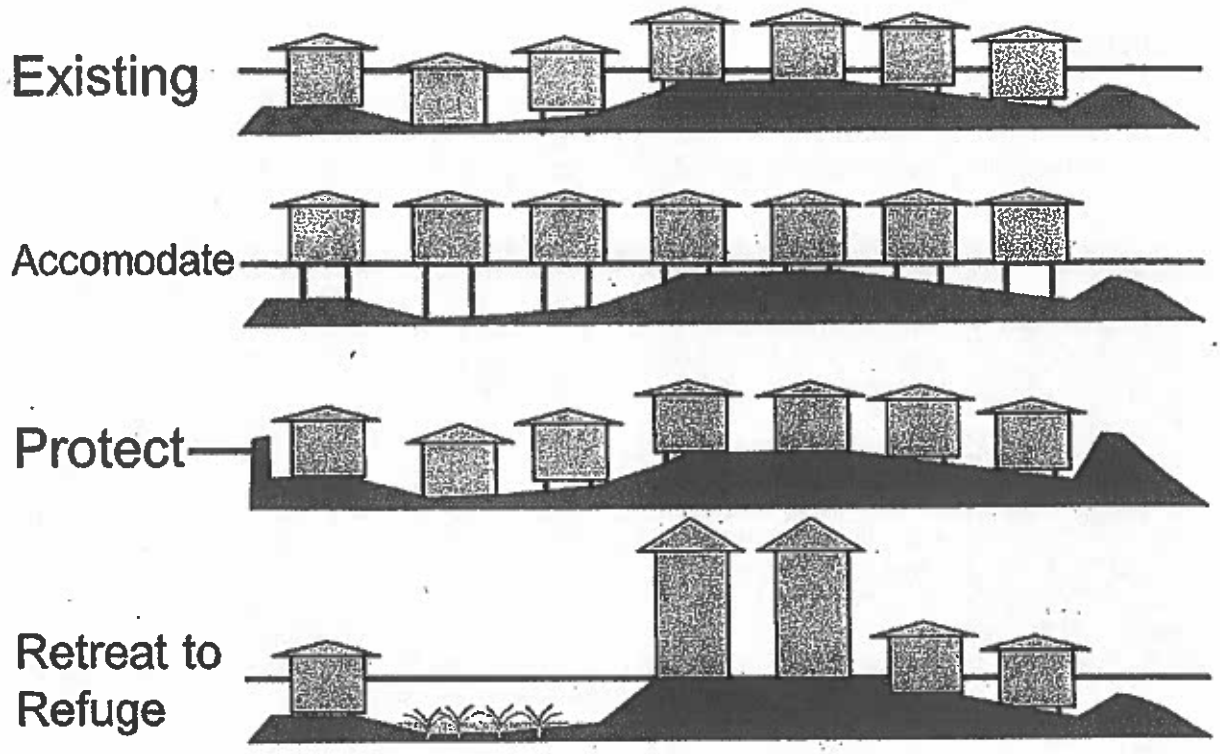


Figure 18 - Conceptual Illustration of Protect, Accommodate and Retreat Strategies Approaches

Protection

Protection strategies try to prevent unsafe conditions and physical damage from occurring by creating a barrier between flood water and vulnerable areas, infrastructure, and buildings. To be truly effective over the longer term, existing protective structures may need to be raised incrementally, in response to sea level rise, and strengthened to withstand the forces of increasingly powerful storms. New structures may also be needed to protect areas that have not historically flooded.

Sea walls, beach dunes, dikes, bulkheads, levees, revetments, flood gates, temporary flood protection barriers, dry floodproofing, and hurricane barriers are all examples of protection strategies that aim to prevent flood water from reaching sensitive areas.

Examples of existing protective structures in Waterford include a seawall and stone revetment along Niantic River Road as shown in Figure 19 and a concrete flood wall and raised electrical panels at the Bolles Court Pump Station as shown in Figure 20.

Accommodation

Accommodation strategies accept that vulnerable areas, infrastructure, and buildings will flood, but aim to minimize and control physical damage and unsafe conditions. Accommodation strategies may include physical, operational, or regulatory measures as shown in Figure 21.

Type of Measure	Examples		
Physical	Construct an artificial floodway to convey flood water away from roadways and homes to a natural area or flood-tolerant green space that can store the water with limited damage.	Raise new and existing structures, for example on stilts or piles, above flood elevations with additional freeboard to provide a safety factor.	Implement wet floodproofing measures such as raising occupied spaces and utilities above flood elevations, building with flood damage resistant materials, or using flood-resilient structural design.
Operational	Improve flood evacuation and emergency planning by updating scenarios and plans, training first responders, or providing education and resources to residents and businesses in high flood risk areas.		
Regulatory	Strengthen building codes and zoning to require or encourage projects in high flood risk areas to implement increased setbacks, physical accommodation measures, onsite flood storage, or protection or enhancement of existing natural systems (e.g., dunes, wetlands).		

Figure 21 - Examples of Accommodation Strategies

Retreat

Retreat strategies recognize the fact that in some areas it may be too costly, technically not feasible, or politically unrealistic to prevent damage from rising sea levels and storm surge, and that the best strategy is to remove vulnerable infrastructure, buildings, or populations from high-risk flood zones. These areas can then be transformed back to more natural states to provide protective, recreational, or other functions that are compatible with occasional or regular flooding. Retreat strategies require significant planning to relocate infrastructure and buildings or re-settle populations in areas outside of high-risk flood zones.

Examples of retreat strategies include property buyouts, relocation of roads and infrastructure, implementation of new zoning or other regulations that limit new construction, reconstruction, or expansion of structures in high-risk flood areas, and policies and programs that steer development towards areas that are safe from flood risks.

Cost Estimating

When appropriate, order-of-magnitude cost estimates were developed for several potential adaptation strategies. These cost estimates are based on engineering judgement and are not based on detailed engineering studies or analyses. As such, these cost estimates are only intended to be used for general planning purposes, and not detailed construction cost budgeting. Before more accurate project budget cost estimates can be made, additional surveying, subsurface exploration, engineering, and permitting must be performed.

Where possible, approximate quantities associated with a potential strategy were estimated, and then appropriate unit costs were assigned to these quantities. The estimates also included mark-ups for general conditions (15%), contractor overhead (5%), contractor profit (5%), design contingency (25%), insurance and bonds (1.5%) and Town of Waterford project costs (20%) for such things as project supervision, consultant fees, and bidding/advertising.

Adaptation Strategy – Niantic River Road

Adaptation Strategy – Reinforce Roadway Embankments- Estimated Range of Construction Costs: $187,000 - $311,000

Much of Niantic River Road is shown to flood for a present day 1% storm event for both coastal (El. 10.03) and riverine (El. 12.0) storms. For the 2070 timeframe, the predicted water elevations for a 1% storm event are El. 13.27 and El. 13.2 for coastal and riverine storms, respectively. The lowest road elevation is El. 3.30 with several other low spots averaging closer to El. 6.0.

Niantic River Road is a relatively long road subject to flooding with numerous homes and driveways directly adjacent to the road. Therefore, raising the road, even to only meet present-day flood levels, is not practically feasible.

It is also not practical to install permanent flood walls or other flood prevention devices because the height would effectively block most water views from the roadway as well as many of the homes. There would also need to be too many openings in the wall required for access to driveways that would be difficult to seal up in advance of a major storm.

Therefore, we do not believe that it is reasonably feasible to prevent flooding of Niantic River Road. Instead we recommend that the embankments of two of the lowest sections of road directly adjacent to the water be reinforced with additional stone revetment or sheet pile cut-off walls to prevent erosion of the road embankment during a major storm. Although the road would be out of service during a major flood, the goal is to return it to service as quickly as possible after the water recedes. If sections of the road collapse, reopening the road would be greatly delayed. The total length of revetment reinforcement is estimated to be 540 feet. The total estimated cost to construct this revetment reinforcement is in the range of $187,000 to $311,000.

Adaptation Strategy – Evacuation

As mentioned above, there are many roads in Waterford that will flood in a major flood event. It would be cost prohibitive to raise all affected roads. Another strategy is for the Town to purchase an amphibious vehicle to assist with evacuations in the event that neighborhoods become isolated due to severe flooding. Figure 32 shows two examples of such vehicles. One is similar to the "Duck Boat Tour" boats in Boston. These amphibious vehicles can drive on roads, but when the roads are flooded they can drive into the water and turn into boats. They seat about 20 people, which would make them an excellent rescue vehicle. Another option is a large-wheeled ex-military type vehicle.

The cost to purchase these type of vehicles is difficult to predict. A good source of amphibious vehicles is from surplus military equipment, which is often auctioned off through the Department of Homeland Security or made available to Public Safety Departments under various grants. A budgetary estimate would be in the range of $75,000 to $100,000. In addition, to the capital purchase cost, the cost of annual maintenance and storage should be factored in.

ESTIMATE

$311,000 2017 (NIANTIC)

$196,000 ~~SIERRA~~ STRATCO

$507,000

$22,190 BL - ~~SITE~~

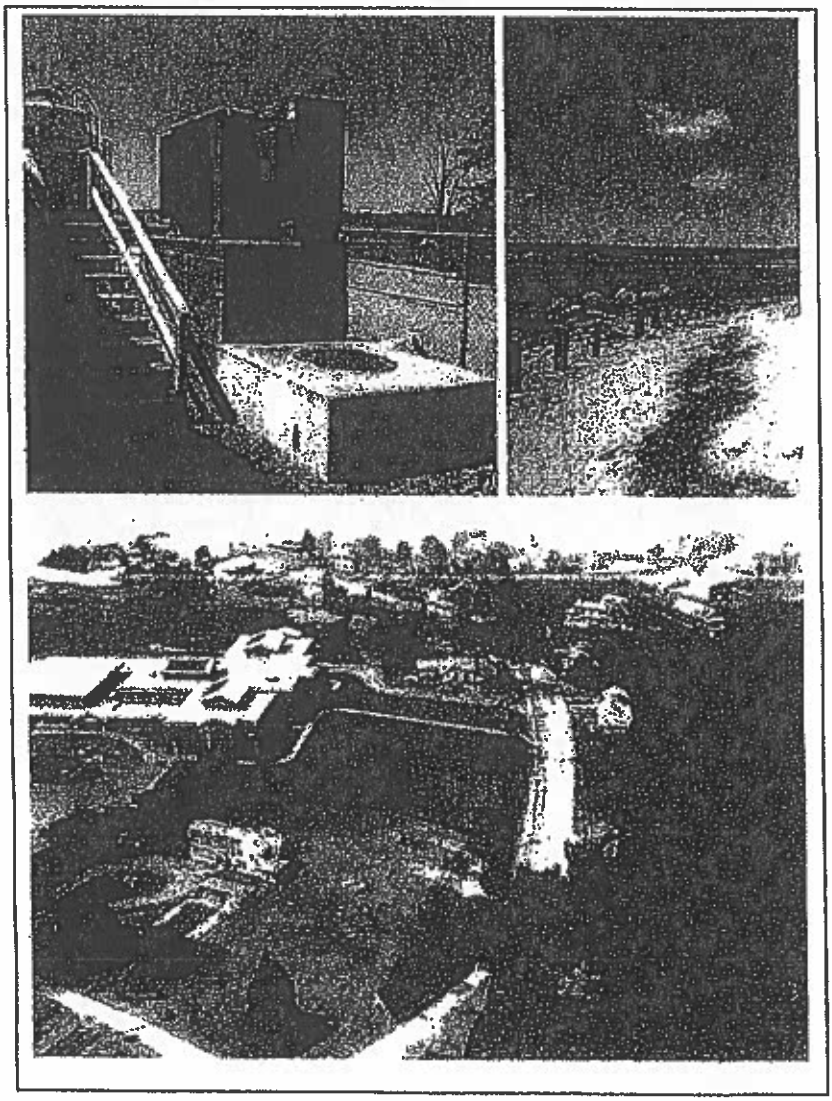
CPI - Inflation Calculator

$10 = $55,997

CDBG-DR 2015

CLIMATE CHANGE RISK VULNERABILITY, RISK ASSESSMENT AND ADAPTATION STUDY

WATERFORD, CONNECTICUT



Prepared For:
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15 Rope Ferry Road
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Prepared By:
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215 First Street
Cambridge, MA 02142

November 16, 2017

E. ADAPTATION STRATEGIES - BUILDINGS/FACILITIES

Base Flood Elevations

Flood maps produced for this project depict potential water surface elevations at various time frames for a 1% (100 year) probability event. These are known as the Base Flood Elevations (BFE). This means that there is a 1% chance in the given year that there will be a storm that generates flood elevations exceeding the elevations shown in the table. The currently approved FEMA Flood Insurance Rate Maps define the current legally-binding BFEs for the Town of Waterford. Table 4 below depicts potential future BFEs, taking into account the effects of future sea level rise and storm surge and higher precipitation levels. In most cases, the BFEs shown in Table 4 are higher than the current FEMA BFEs.

Table 4 - Potential Future Base Flood Elevations (BFEs) for 1% (100-Year) Probability Flood

Facility	Critical Elevation	Coastal			Riverine		
		Present	2030	2070	Present	2030	2070
Mago Point Pump Station	6.91		10.58	13.27		10.99	14.3
Niantic River Pump Station	10.40	10.03	10.58	13.27		12.36	13.20
Oil Mill Pump Station	10.63	10.03	10.58	13.27		12.36	13.20
Jordan Park House Building 13	15.00	9.11	9.66	12.35		15.45	16.50
Jordan Park House Building 15	14.00	9.11	9.66	12.35		15.45	16.50
Bolles Court Pump Station	10.07	9.87	10.42	13.11	10.00	10.30	11.00
Quaker Hill Pump Station	10.30	9.87	10.42	13.11	10.00	10.30	11.00
Shore Drive Pump Station	9.66	8.89	9.53	12.22	No	No	No
Seaside Drive Pump Station	10.28	8.89	9.53	12.22	No	No	No
Gardiners Wood Pump Station	10.70	8.89	9.53	12.22	No	No	No
Stony Brook Pump Station	13.10	10.03	10.58	13.27	12.00	12.36	13.2
Colonial Drive Pump Station	11.86	8.89	9.53	12.22	No	No	No
East Neck Pump Station	12.78	8.89	9.53	12.22	No	No	No
Dock Road Pump Station	12.70	8.89	9.53	12.22	No	No	No
Harrison's Landing Pump Sta.	15.70	9.87	10.42	13.11	11.00	11.33	12.10
Jordan Park House Building 14	16.00	9.11	9.66	12.35	15.00	15.45	16.50
Public Works Facility	122.39	No	No	No	117.00	120.51	128.7
Quaker Hill Fire Station	14.40	9.87	10.42	13.11	No	No	No

Colors indicate the time horizon of vulnerability: = Present = 2030 = 2070

Design Flood Elevations

When designing adaption measures to protect against the effects of long-term flooding, a Design Flood Elevation (DFE) needs to be established to determine the height of flood protection required to protect the asset.

DFEs for pump stations will be determined based on the design guide specific to the design of wastewater treatment works in New England: *Technical Report-16, "Guides for the Design of Wastewater Treatment Works"* from the New England Interstate Water Pollution Control Commission (NEIWPCC). In this document, under the section *Protection of New and Existing Equipment*, it states: *Apply the standard of a 1% annual chance of flood elevation (100-year flood elevation) plus 2 feet for non-critical equipment and plus 3 feet for critical equipment.* As most equipment inside a pump station, such as electric switches and panels, pump motors and

emergency generators, is considered critical equipment, the DFE for pump stations will be defined as the BFE plus 3 feet.

DFEs for other vulnerable buildings will be determined using the American Society of Civil Engineers publication ASCE 24-14 "Flood Resistant Design and Construction". Table 6-1 in ASCE 24-14 defines DFE's depending on the Flood Design Class of the Facility. For Fire Stations, the Flood Design Class is Class 4, with an additional freeboard of 2 ft. For other buildings, the Flood Design Class is Class 2, with an additional freeboard of 1 ft.

DFEs for the impacted buildings and facilities in Waterford are shown in Table 5 below. For example, to be more resilient by 2070, the Quaker Hill Pump Station should be protected to an elevation of 16.11, which is the higher of the coastal and riverine flood DFEs.

Table 5 - Proposed Design Flood Elevations (DFEs) for 1% (100-Year) Probability Flood

Facility	Critical Elevation	Coastal			Riverine		
		Present	2030	2070	Present	2030	2070
Bolles Court Pump Station	10.07		13.42	16.11	13.00	13.30	14.00
Quaker Hill Pump Station	10.30		13.42	16.11	13.00	13.30	14.00
Jordan Park House Building 13	15.00	10.11	10.66	13.35		16.45	17.50
Jordan Park House Building 14	16.00	10.11	10.66	13.35	16.00	16.45	17.50
Jordan Park House Building 15	14.00	10.11	10.66	13.35		16.45	17.50
Shore Drive Pump Station	9.66		12.53	15.22	N/A	N/A	N/A
East Neck Pump Station	12.78	11.89	12.53	15.22	N/A	N/A	N/A
Colonial Drive Pump Station	11.86		12.53	15.22	N/A	N/A	N/A
Gardiners Wood Pump Station	10.70		12.53	15.22	N/A	N/A	N/A
Dock Road Pump Station	12.70	11.89	12.53	15.22	N/A	N/A	N/A
Seaside Drive Pump Station	10.28		12.53	15.22	N/A	N/A	N/A
Mago Point Pump Station	6.91		13.66	16.27		16.39	17.30
Oil Mill Pump Station	10.63		13.66	16.27		16.36	16.20
Stony Brook Pump Station	13.10	13.03	13.66	16.27		16.36	16.20
Niantic River Pump Station	10.40		13.66	16.27		16.36	16.20
Public Works Facility	122.39	N/A	N/A	N/A	118.00	121.5	129.7
Harrison's Landing Pump Sta.	15.70	12.87	13.42	16.11	14.00	14.33	15.10
Quaker Hill Fire Station	14.40	11.87	12.42	15.11	N/A	N/A	N/A

Colors indicate the time horizon of vulnerability: = Present = 2030 = 2070

Pump Stations: DFE = BFE + 3 ft.
Fire Stations: DFE = BFE + 2 ft.
Other Buildings: DFE = BFE + 1 ft.

Impacted Wastewater Pump Stations

The proposed Design Flood Elevations exceed the critical elevations at a total of 13 wastewater pump stations at various time frames, which would cause flooding of the pump stations. If flooding were to occur, the likely result would be damage to electrical equipment, pump motors and emergency generators that could potentially keep the pump stations out of service for an extended period of time while repairs are made. This would require the Town to provide emergency pumping. Even if the pump stations could be cleaned and re-started quickly, there would likely be long-term corrosion effects that would greatly reduce the service life of the facilities. Therefore,

Table 6 – Adaptation Recommendations for Building and Facilities (Continued)

BUILDING OR FACILITY	DFE/ YEAR	ADAPTATION RECOMMENDATIONS	ESTIMATED CONSTRUCTION COST
PUBLIC WORKS FACILITY	El. 129.7 2070	<u>Adaptation Strategy No. 1 – Temporary Flood Barrier to El. 129.70</u> This strategy provides long-term protection to the Public Works Facility to Elevation 129.70 using a lower-cost temporary flood barrier system. This elevation is the projected DFE in 2070. Protecting to this elevation prevents flooding of the facility, although the surrounding roads may be flooded. Specific recommendations include the following: • Purchase, store and have ready for deployment during a flood event 400 ft. of 6 ft. high temporary flood barrier along east and south sides. • Install a sump pump system to drain the space between the wall and the building from rain water and flood water that may seep under the wall. The sump pump should discharge over the wall.	$200,000
	El. 129.7 2070	<u>Adaptation Strategy No. 2 – Permanent Flood Wall to El. 129.70</u> This strategy provides long-term protection to the Public Works Facility to Elevation 129.70 using a more expensive, but permanent flood wall system. This elevation is the projected DFE in 2070. Protecting to this elevation prevents flooding of the facility, although the surrounding roads may be flooded. Specific recommendations include the following: • Construct 400 ft. of 6 ft. high permanent flood wall along east and south sides of building with a passive vehicle barrier at the roadway entrance. • Install a sump pump system to drain the space between the wall and the building from rain water and flood water that may seep under the wall. The sump pump should discharge over the wall.	$1,200,000
	El. 129.7 2070	<u>Adaptation Strategy No. 3 – Replace Building with Flood-Resistant Building</u> This strategy provides long-term protection to the Public Works Facility to Elevation 129.70 with the most expensive solution, replacing the building. This elevation is the projected DFE in 2070. Protecting to this elevation prevents flooding of the facility, although the surrounding roads may be flooded. Specific recommendations include the following: • Replace the building with a new flood-proof building with the lowest floor above El 129 70	$11,314,000
QUAKER HILL FIRE STATION	El. 15.11 2070	<u>Adaptation Strategy No. 1 – Floodproof to El. 15.11</u> This strategy provides long-term protection to the Quaker Hill Fire Station to Elevation 15.11. This elevation is the projected DFE in 2070. Protecting to this elevation will prevent flooding of the lower level of the station, which houses the kitchen, and some HVAC, communications and electrical systems. Implementing these recommendations will allow the station to function during a flood event, although many roads near the station may be flooded. Specific recommendations include the following: • Furnish and store a temporary 4 ft. high panelized flood barrier system that can be deployed before a major flood along the lower (northeast) side of the station and attached to the building at both ends. The total length of barrier is approximately 50 ft. • Regrade the small concrete block retaining wall at the northeast corner of the station and construct a concrete pad to receive the flood barrier to allow it to be attached to the building. • Seal miscellaneous electrical conduits and penetrations below El. 15.11 that would allow water to enter the building.	$72,000

F. ADAPTATION STRATEGIES - ROADWAYS

Many roads in Waterford are wholly or partially vulnerable to coastal and/or riverine flooding in the present, 2030 and 2070 timeframes. Roadway flooding has a number of potential consequences. The most common impact is a temporary disruption to economic activity and access to public services. At a minimum, flooded roadways can be closed for short periods after a flood to allow for debris removal and cleanup. At worse, flooded roads can be closed for extensive periods of time for extensive repairs to washed-out embankments, damaged pavements, damaged or exposed utilities, and damaged signage and safety equipment. The most significant impacts affect life safety. For example, the most common cause of flood-related drowning deaths is from people driving through moving or standing water on roadways. Another danger is that emergency services will be unable to respond to medical emergencies and fires in areas isolated by flooding.

Roadway flooding risks can be mitigated by a variety of physical strategies, including:

- Raising roadways or bridges above projected flood levels.
- Relocating roadways to routes over higher ground.
- Creating new emergency access routes to serve areas potentially cut off from flooding.
- Enlarging culverts to reduce flooding from flow restrictions (riverine only).
- Creating or enlarging stormwater pump stations (riverine only).
- Enlarging natural flood storage areas and diverting flows to these areas (riverine only).
- Adding bio-swales and other green infrastructure on roadsides to slow and store rainfall runoff and to improve runoff quality (riverine only).
- Adding structural protection to prevent erosion and roadway undermining.

These physical strategies are often challenging to implement. Raising or relocating roads by any substantial amount typically requires property takings and might result in impacts to adjacent wetlands. Increasing flood storage or flow through culverts can increase flooding upstream or downstream from the improvements. As such, these types of projects require technical study, stakeholder and community engagement, extensive permitting and significant capital resources.

The Town and the State of Connecticut have implemented many projects over the years to address roadway flooding risks, including replacing and enlarging culverts, elevating bridges, reinforcing roadway embankments, removing debris from culverts and drains, and improving roadway drainage systems.

Preventing all roads in Waterford from flooding is not realistically feasible due to the number of vulnerable roads, the extremely high capital cost to raise or otherwise protect roads, and the numerous physical constraints to changing roadway alignments. The following operational strategies can be applied in many situations to help mitigate life safety impacts:

- Implement road closures in advance of flooding.
- Install permanent warning signs at road segments prone to flooding.
- Educate drivers of the dangers of driving through flooded roads.
- Issue early evacuation orders to areas typically isolated by flooding.
- Pre-stage emergency response assets in flood-isolated areas.
- Obtain emergency equipment, such as boats and high-water vehicles, to be able to provide emergency access to flood-isolated areas.

Figure 28 shows a network of evacuation and emergency access routes in Waterford that should be strengthened to improve the Town's resilience to flooding. It also identifies some possible adaptation strategies to improve the accessibility of certain areas that could otherwise become isolated during flooding events.

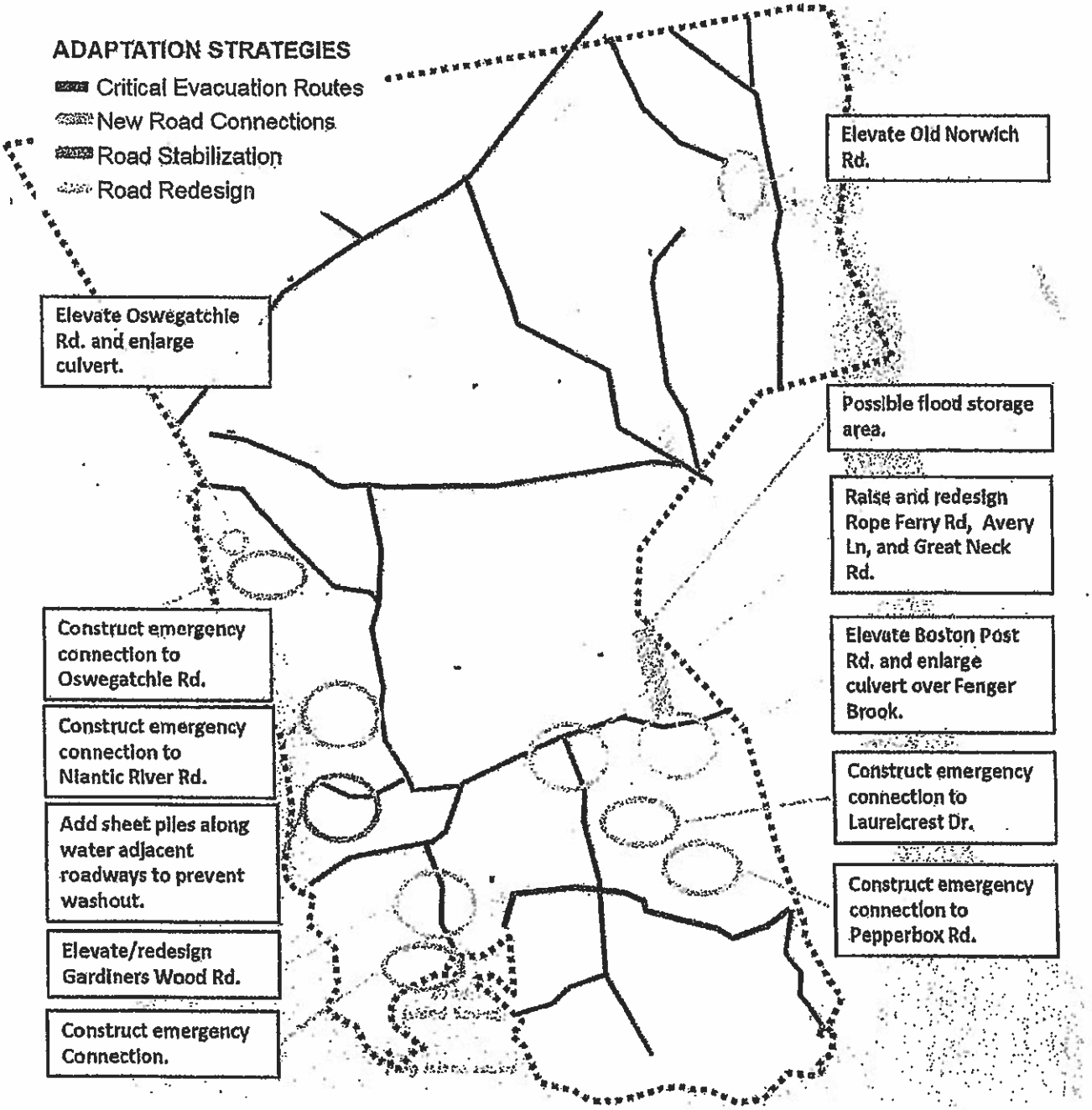


Figure 27 - Potential Adaptation Strategies to Strengthen Evacuation and Emergency Access Routes

Below are discussions on several adaptation strategies for several specific roads.

Adaptation Strategies – Gardiners Wood Road

The southern end of Gardiners Wood Road, at its intersection with Millstone Road East, is subject to coastal flooding in the present, 2030 and 2070 time frames.

The low-point elevation at Gardiners Wood Road near the railroad tracks is approximately El. 6.8. The projected coastal flood levels are El. 8.89 in the present, El. 9.53 in 2030 and El. 12.22 in 2070. Raising the road at the low point by 2.73 feet to be above the 2030 flood or 5.42 feet to be above the 2070 flood is not realistic because it would require raising the tracks to meet current required bridge under-clearances. Raising this section of high-speed track would require raising thousands of feet of embankment and track to meet track vertical curve requirements. Therefore, raising the road at the southern end intersection with the railroad is not considered to be a feasible option.

The road also floods regularly from overwash caused by heavy precipitation running along Gardiners Wood Road from Rope Ferry Road. There is a relatively large drainage catchment area that drains along the road and eventually discharges under Jordan Cove Road into Long Island Sound. There are three culverts that the drainage must pass through, and it appears that these culverts might be undersized, which causes the water to back-up and flood onto the roadway. Performing a drainage study or culvert analyses to verify their capacity was not part of the scope of this project.

Adaptation Strategy No. 1 - Drainage Improvements on Gardiners Wood Road – Estimated Range of Construction Costs: $1,797,000 - $2,994,000

Adaptation Strategy No. 1, as illustrated in Figure 28 below, will help address flooding related to heavy precipitation with drainage improvements along the southern end of Gardiners Wood Road. It does not address coastal flooding issues, which would still flood the lower roadway area during a major storm surge event. Implementing this adaptation strategy will help to eliminate nuisance flooding that causes cumulative damage to the road and impacts emergency services to the neighborhood. Recommendations for this strategy include the following:

- Perform a detailed drainage and hydraulic study of the roadway corridor to project drainage flows along Gardiners Wood Road in the present, 2030 and 2070 time frames. Verify the capacities of the three existing culverts.
- Raise the middle and northern parts of Gardiners Wood Road to fill in a low point in the vicinity to the entrance of the baseball fields at the south end of the road. The length of road to be raised is approximately 450 feet. The low point at about El 7.3 would be raised to about El. 10.5.
- Build a "constructed stormwater wetland" on the west side of Gardiners Wood Road just upstream of the 42-inch culvert that crosses Gardiners Wood Road. Provide a sediment forebay to remove sediment at the north end of the stormwater wetland to help reduce stormwater velocity and to remove sediment. The constructed wetland would act as a storage basin to attenuate the flow of stormwater and improve the water quality of the discharge into Long Island Sound. By raising the road in this area by up to 3 feet would substantially more storage volume for roadway runoff.
- Replace the existing 42-inch culvert under Gardiners Wood Road and the culvert under the railroad tracks with larger, higher capacity culverts. This will help to reduce overwash on the road when the existing culverts do not have sufficient capacity and geometry to pass through the required stormwater volume and velocity.

- Replace the Jordan Cove culvert with a larger culvert, if the drainage analysis indicates that the culvert is undersized in 2070. The cost estimate assumes replacement.
- Construct a large sediment forebay between the northernmost culvert under Gardiners Wood Road and the railroad track. This will help remove sediment from the flow prior to discharging into Long Island Sound.
- Clean all existing drainage pathways of accumulated sediment and debris that reduces the capacity of the drainage system.

It should be noted that during a major coastal flood event, water will overtop Jordan Brook Road and flood Gardiners Wood Road under the railroad bridge. In this case, the road will be impassable under the bridge. If the road is raised as proposed, coastal flooding would not affect the road north of the railroad, until it reached approximately El. 10.1. Flood barriers and tide gates could be installed to prevent coastal flooding beyond the railroad tracks, but the road south of the tracks would still be impassable, so these measures are not warranted for this strategy. The duration of coastal flooding is dependent on the storm duration and tide cycles, but in general would not be expected to be longer than 12 hours, assuming a storm lasts through two tide cycles. This area can be expected to drain relatively quickly due to its proximity to the coast.

Adaptation Strategy No. 2 – Flood Walls on Gardiner Wood Road, Millstone Road East and Jordan Cove Road – Estimated Range of Construction Costs: $877,000 - $1,462,000

This adaptation strategy, as illustrated in Figure 29, would address coastal flooding issues. Although this strategy could be implemented as a stand-alone strategy, we recommend that it be implemented together with Strategy No. 1, which addresses flooding issues due to heavy precipitation that could occur independent of coastal flooding. The costs shown are in addition to the costs identified in Strategy No. 1. Under this concept, Gardiners Wood Road and Millstone Road East could remain open during a coastal flood up to an elevation 12.22, which would provide emergency access to the neighborhood. Access to Jordan Cove Road, however, would be closed during the flood. This would address coastal flooding concerns through 2070. This concept includes the following:

- Construct concrete floodwalls with a top-of-wall elevation of El. 12.22. Building to El. 12.22 would result in a wall with a maximum height of about 4.92 feet in front of the house at 305 Millstone Road East. The wall would need to have openings at two house driveways, across Jordan Cove Road, and across Windward Way. These openings would need to be closed with a temporary barrier just prior to a major flood. The total length of floodwall (varying height) would be approximately 360 feet.
- Install a tide gate at the downstream end of the culvert under the railroad tracks to prevent coastal flood water from flooding Gardiners Wood Road through the culvert system. It should be noted that the tide gate will keep coastal flood waters out, but it will also prevent roadway drainage from precipitation from discharging to Long Island Sound. Assuming a major rain event is occurring simultaneously with a major coastal flood, there would be some drainage overflow onto the roadway. The exact quantities and expected depths of flooding would have to be determined as part of the drainage and hydraulic analysis for the project.
- Install a pre-packaged duplex pump system at the low point of the intersection of Millstone Road and Gardiners Wood Road to pump out any accumulation of drainage on the roadway. In lieu of a permanent fixed pump, a portable gas-fired pump could also be used.

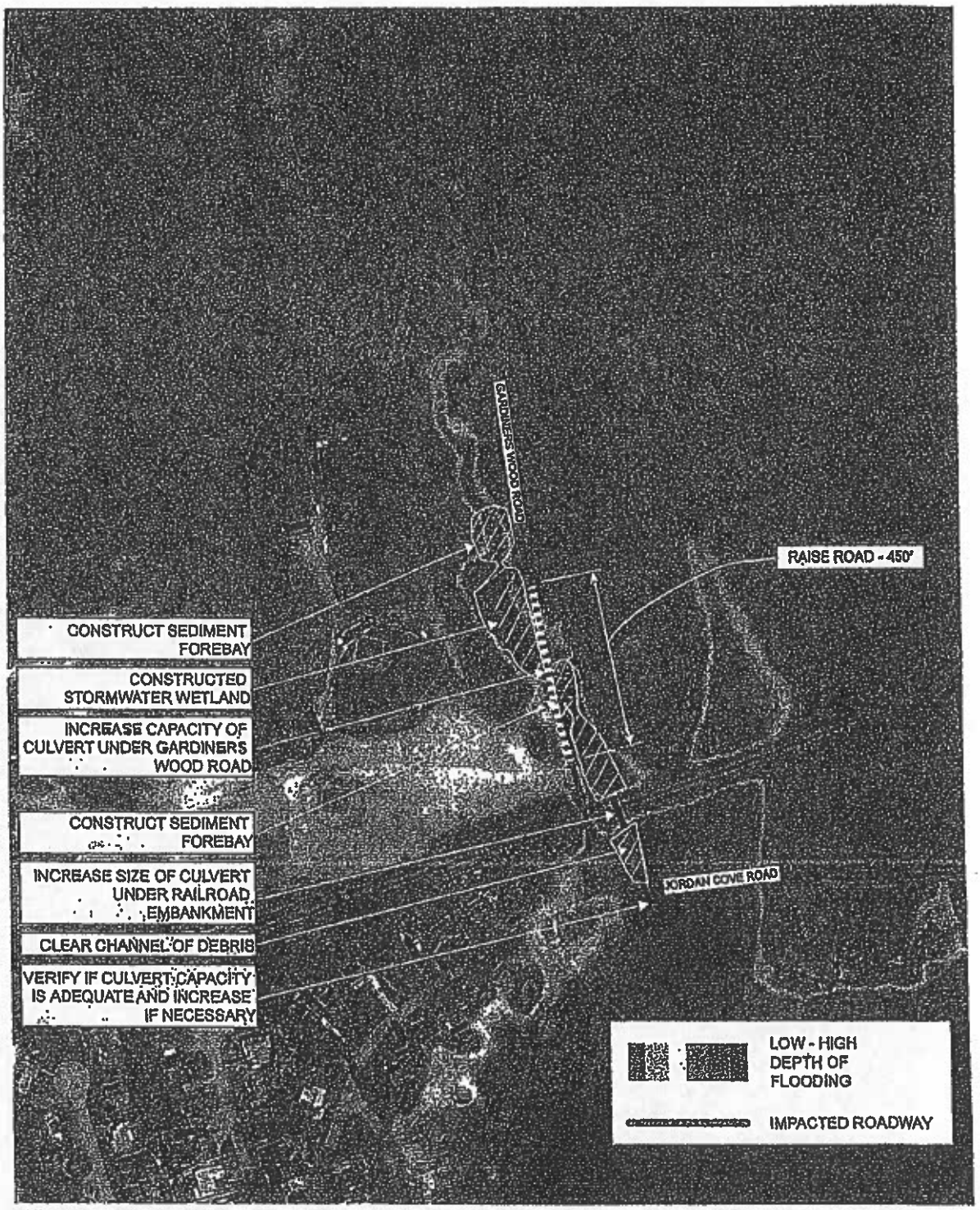


Figure 28 - Gardiners Wood Road Adaptation Strategy No. 1 - 2070, 100-Year Coastal Flood Scenario

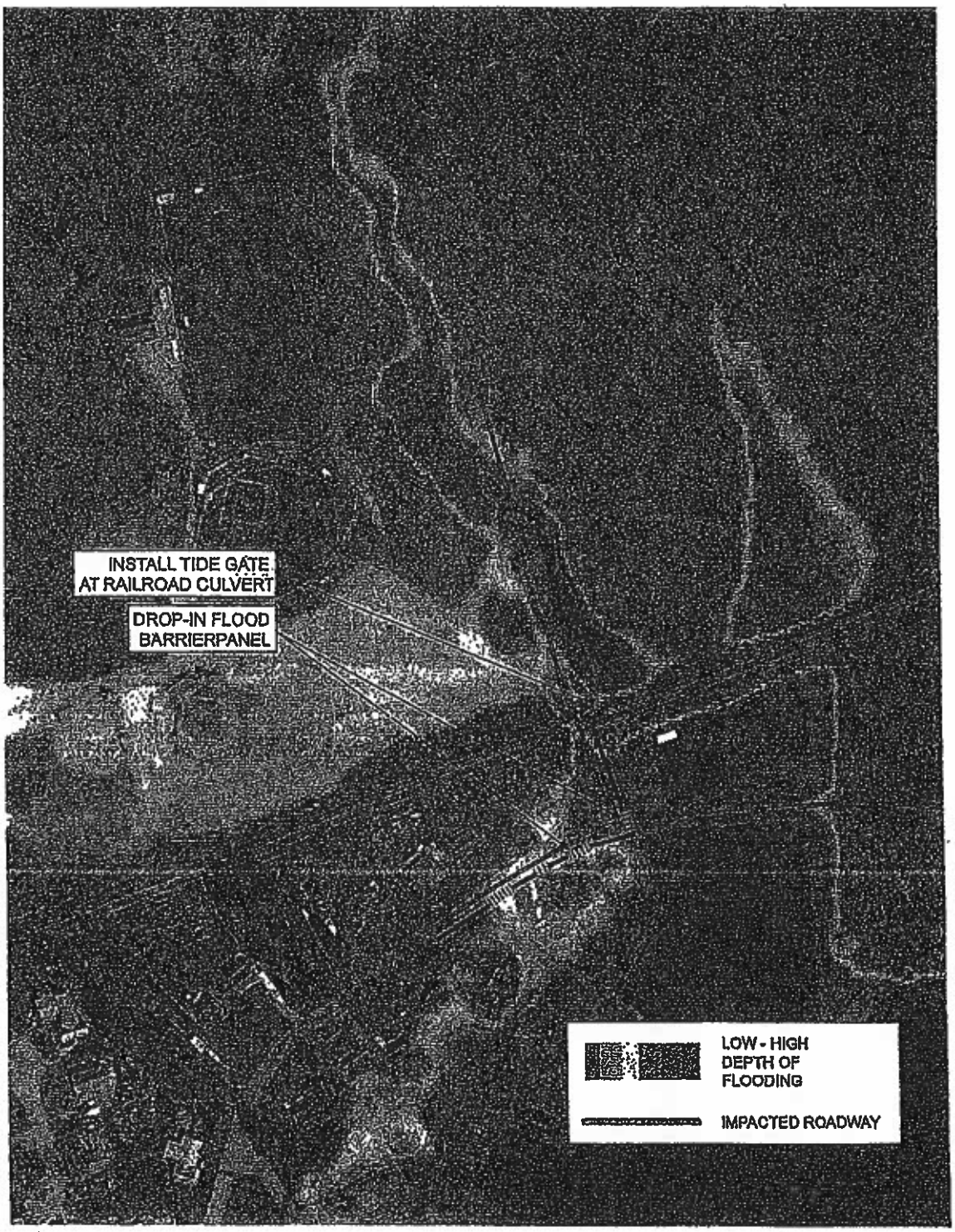


Figure 29 - Gardiners Wood Road Adaptation Strategy No. 2 - 2070, 100-Year Coastal Flood Scenario

Adaptation Strategies – Oswegatchie Road

As illustrated in Figure 30, there are two sections of Oswegatchie Road that are vulnerable to flooding. One is on the Niantic River near Point Comfort Road. The low point in the road is approximately El. 7.50 feet and the length that can flood is about 130 feet long. The other section of road is along the north end of Keeney Cove, near the intersection with Niantic River Road. This section of road is about 300 feet long and varies in elevation between El. 4.8 to about El. 5.8. For the 2030 timeframe, the predicted water elevations for a 1% (100 year) storm are El. 10.58 and El. 12.36 for coastal and riverine storms, respectively. For the 2070 timeframe, the predicted water elevations for a 1% (100 year) storm event are El. 13.27 and El. 13.2 for coastal and riverine storms, respectively.

If both ends of Oswegatchie Road are flooded, there is a relatively large neighborhood that would not have vehicular access into or out of the neighborhood during a flood. In addition, a major flood could cause major damage to the roadway infrastructure and associated utilities, which could be costly to repair and keep the road out of service for several weeks. This would be a public safety issue as well as a major inconvenience to citizens living in this area of town.

Adaptation Strategy No. 1 – Raise Oswegatchie Road near Point Comfort Road - Estimated Range of Construction Costs: $516,000 - $860,000

The best way to adapt to future flooding and to maintain emergency access to the adjacent neighborhood is to raise Oswegatchie Road just south of Point Comfort Road. We estimate that this road can be raised over a distance of about 500 feet to a minimum elevation near El. 13. Several driveways would need to be adjusted, but it appears that there is room to do so. This would provide long-term flood protection for a 100-year storm in 2070. This is the recommended approach to maintain at least one means of egress into the neighborhood.

Adaptation Strategy No. 2 – Reinforce Roadway Embankments- Estimated Range of Construction Costs: $110,000 - $190,000

If Oswegatchie Road is raised per Adaptation Strategy No. 1, it is not necessary to raise the section of road along Keeney Cove, as the adjacent neighborhood would have at least one means of emergency access. However, the road along Keeny Cove could be susceptible to erosion and possible collapse during an extreme coastal or riverine flood in the present, 2030 or 2070 timeframes. Therefore, to minimize the potential for roadway damage, this strategy reinforces the roadway embankments for about 300 feet of roadway directly adjacent to Keeny Cove with additional stone revetment or sheet pile cut-off walls to prevent erosion of the road embankment during a major storm. Although the road would be out of service during a major flood, the goal is to return it to service as quickly as possible after the water recedes. If sections of the road collapse, reopening the road would be greatly delayed. The total length of revetment reinforcement is estimated to be 300 feet.

Adaptation Strategy No. 3 – Construct New Emergency Road- Estimated Range of Construction Costs: $175,000 - $290,000

This strategy allows both ends of Oswegatchie Road to flood, but constructs a new emergency access road from Raymond Lane to Pamela Way to allow emergency services to access the otherwise isolated neighborhood. The general area of the potential emergency road is shown in Figure 30. There are also other possible starting and ending points for a small new emergency access road. This emergency road does not necessarily need to be a paved access road for daily use, but rather it can be a "Geo-Grid" cellular, interlocking HDPE paving grid for reinforcing grass, creating a surface that

can be driven on. This road would normally be closed to vehicular traffic, but would be opened in advance of a major flood event. This strategy helps to provide emergency access to the neighborhood, but could result in potential damage to Oswegatchie Road, which could be costly to repair and keep the road out of service for several weeks, causing a major inconvenience to citizens living in this section of town.

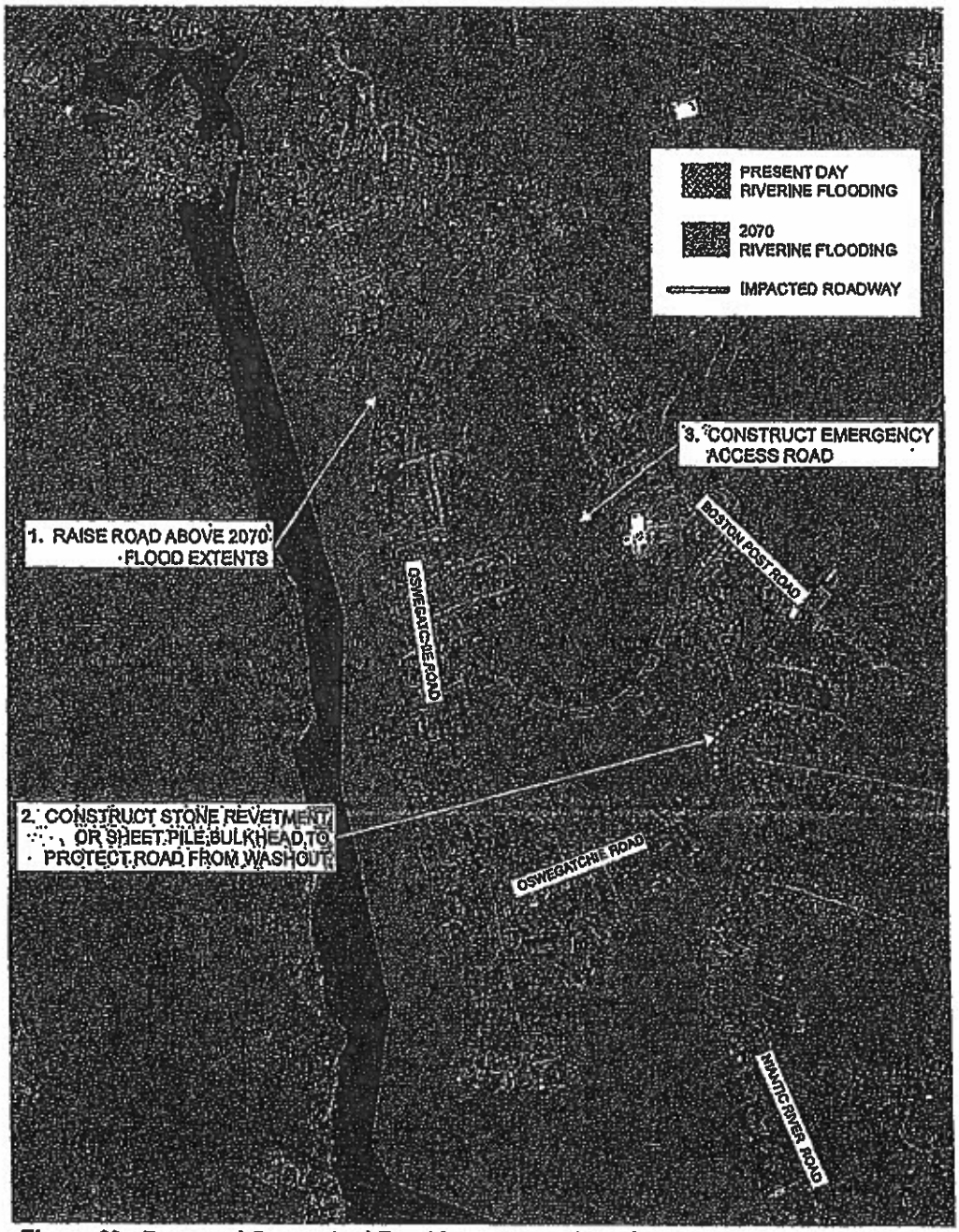


Figure 30 - Proposed Conceptual Road Improvements at Oswegatchie Road – 2070, 100-Year Riverine Flood Scenario

Adaptation Strategy – Rope Ferry Road / Avery Lane / Great Neck Road

The intersection of Rope Ferry Road, Avery Lane and Great Neck Road currently floods from riverine flooding during 100-year storms in the present, 2030 and 2070 timeframes. This is an important intersection in Waterford, and ideally should be protected from flooding. This will help to minimize damage to the roadway infrastructure, including underground and overhead utilities. The proposed strategy described below, will offer protection for a 100-year riverine flood in 2070.

Adaptation Strategy – Raise Elevation of Intersection - Estimated Range of Construction Costs: $2,079,000 - $3,466,000

As illustrated in Figure 31, this strategy proposes to raise the elevation of the intersection a maximum of 4.50 feet to a Design Flood Elevation of 16.50 corresponding to the 2070 (riverine) flood elevation with no additional freeboard. The proposed lengths of road modification are estimated to be as follows:

- Rope Ferry Road: 990 feet
- Avery Lane: 420 feet
- Great Neck Road: 320 feet

Please note that these lengths of road are estimates suitable for long-term planning purposes based on engineering judgement. No roadway geometry, engineering, traffic or environmental studies or utility investigations were conducted as part of this project to determine actual geometry and code-related issues that will affect the length of work and associated costs.

A number of driveways serving adjacent properties would also need to be adjusted to accommodate the raised roadway.

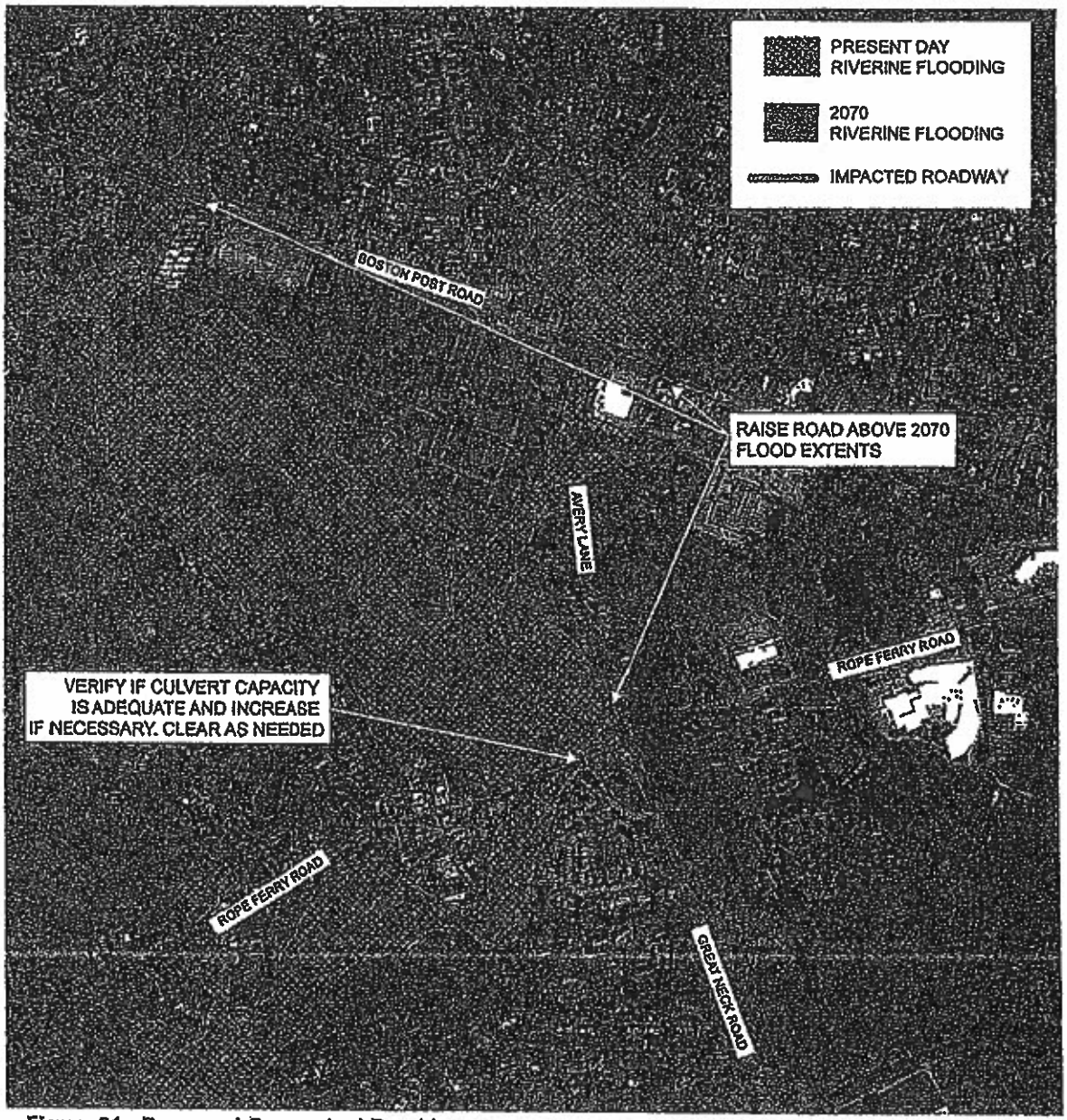


Figure 31 - Proposed Conceptual Road Improvements at Rope Ferry/Avery Lane/Great Neck Road – 2070, 100-Year Riverine Flood Scenario Shown

Adaptation Strategy – Niantic River Road

Adaptation Strategy – Reinforce Roadway Embankments- Estimated Range of Construction Costs: $187,000 - $311,000

Much of Niantic River Road is shown to flood for a present day 1% storm event for both coastal (El. 10.03) and riverine (El. 12.0) storms. For the 2070 timeframe, the predicted water elevations for a 1% storm event are El. 13.27 and El. 13.2 for coastal and riverine storms, respectively. The lowest road elevation is El. 3.30 with several other low spots averaging closer to El. 6.0.

Niantic River Road is a relatively long road subject to flooding with numerous homes and driveways directly adjacent to the road. Therefore, raising the road, even to only meet present-day flood levels, is not practically feasible.

It is also not practical to install permanent flood walls or other flood prevention devices because the height would effectively block most water views from the roadway as well as many of the homes. There would also need to be too many openings in the wall required for access to driveways that would be difficult to seal up in advance of a major storm.

Therefore, we do not believe that it is reasonably feasible to prevent flooding of Niantic River Road. Instead we recommend that the embankments of two of the lowest sections of road directly adjacent to the water be reinforced with additional stone revetment or sheet pile cut-off walls to prevent erosion of the road embankment during a major storm. Although the road would be out of service during a major flood, the goal is to return it to service as quickly as possible after the water recedes. If sections of the road collapse, reopening the road would be greatly delayed. The total length of revetment reinforcement is estimated to be 540 feet. The total estimated cost to construct this revetment reinforcement is in the range of $187,000 to $311,000.

Adaptation Strategy – Evacuation

As mentioned above, there are many roads in Waterford that will flood in a major flood event. It would be cost prohibitive to raise all affected roads. Another strategy is for the Town to purchase an amphibious vehicle to assist with evacuations in the event that neighborhoods become isolated due to severe flooding. Figure 32 shows two examples of such vehicles. One is similar to the "Duck Boat Tour" boats in Boston. These amphibious vehicles can drive on roads, but when the roads are flooded they can drive into the water and turn into boats. They seat about 20 people, which would make them an excellent rescue vehicle. Another option is a large-wheeled ex-military type vehicle.

The cost to purchase these type of vehicles is difficult to predict. A good source of amphibious vehicles is from surplus military equipment, which is often auctioned off through the Department of Homeland Security or made available to Public Safety Departments under various grants. A budgetary estimate would be in the range of $75,000 to $100,000. In addition, to the capital purchase cost, the cost of annual maintenance and storage should be factored in.

Figure 32 - Examples of Potential Rescue Vehicles

Adaptation Strategy – Waterproofing Wastewater Manholes

The Town of Waterford has already waterproofed all wastewater manholes located within the current FEMA 100-year mapped floodplain. The purpose for waterproofing the wastewater manholes is to prevent surcharging and flooding wastewater pump stations from floodwater entering leaking manholes. However, based on the flood mapping generated by this project, the floodplain will likely expand beyond the current FEMA 100-year floodplain in the future.

As discussed with the Working Group, we recommend that wastewater manholes located within the current FEMA 500-year floodplain be waterproofed with gasketed, bolted-down manhole covers with sealed rims to help minimize infiltration of flood water into the wastewater pump stations during a major flood.

Using the GIS layer of manhole locations provide by Town staff, we estimate that there are 229 manholes in the zone between the 100-year and 500-year flood plains that should be waterproofed. Table 7 shows the distribution of these manholes by pump station area, and Figure 33 shows the distribution graphically. At an estimated cost of $2,500 per manhole, the estimated cost to waterproof 229 manholes is approximately $573,000. We recommend prioritizing the waterproofing of wastewater manholes based on the same risk-prioritization of the pump stations to which the manholes drain to.

Table 7 - Recommended Wastewater Manholes to be Waterproofed

Sewer Drainage Area	No. of Manholes Between Current 100-Year and 500-Year FEMA Floodplains
Gardiners Wood Road	15
Quaker Hill	5
Seaside	14
Shole Road	8
Stony Brook	5
Boles Court	1
Dock Road	19
East Neck Road	14
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
Total	229

LEGEND

	High Priority
	Medium Priority
	Lower Priority
	Low Priority

Waterford Flood and Erosion Control Board
Niantic River Road Erosion Report
Approved December 1, 2021

To the Waterford Board of Selectmen and Conservation Commission:

On October 6, 2021, following the public comment of several concerned residents, the Flood and Erosion Control Board conducted a site walk along Niantic River Road in the vicinity of 3rd and 4th Avenues. Our members found the concerns of the residents to be justified as we documented and observed considerable erosion up to and beneath Niantic River Road. Consistent with our charge to document and report flooding and erosion issues, we wanted to advise the Board of Selectmen and the Conservation Commission of our observations and concerns.

Attached, you will find the minutes from the site walk as well as relevant photographs showing the extent of the erosion. There exists, in some sections of this area, erosion barriers. In the areas where erosion barriers are absent, there is significant erosion of the embankment supporting Niantic River Road and evidence of erosion underneath the roadway itself. It appears that a combination of loose, sandy and rocky soil, extreme rainfall events, and recent storms have all created an increasingly hazardous situation for this section of roadway.

We strongly recommend that a professional survey of this area be completed to prevent any risk to the integrity of Niantic River Road. Possible solutions may depend on the significance of the erosion underneath the road, but will likely require the extension of the erosion barriers across this section of the embankment.

Respectfully submitted on December 1, 2021 by:
Baird Welch-Collins - Chair
Alexander Kuvalanka - Treasurer
Christopher Callahan
George Harran
Jennifer Kohl

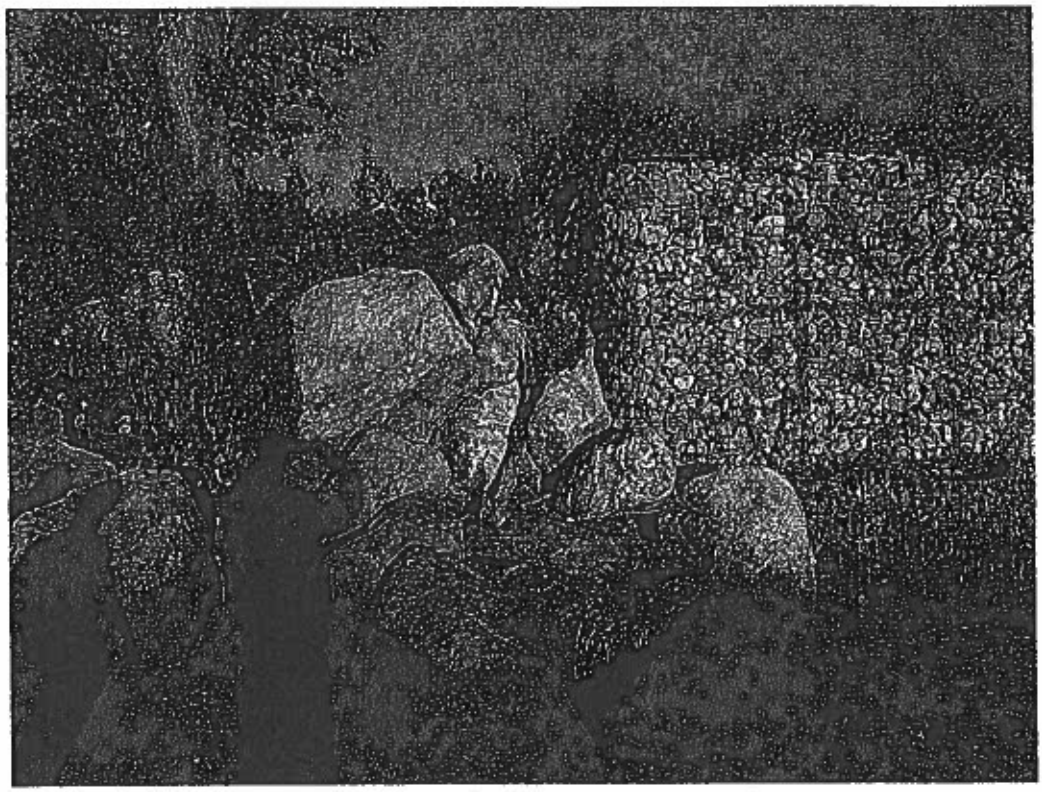
Waterford Flood & Erosion Control Board Special Meeting Minutes for October 6, 2021

Members Present: Baird Welch-Collins, George Harran, Alex Kuvalanka, Chris Callahan

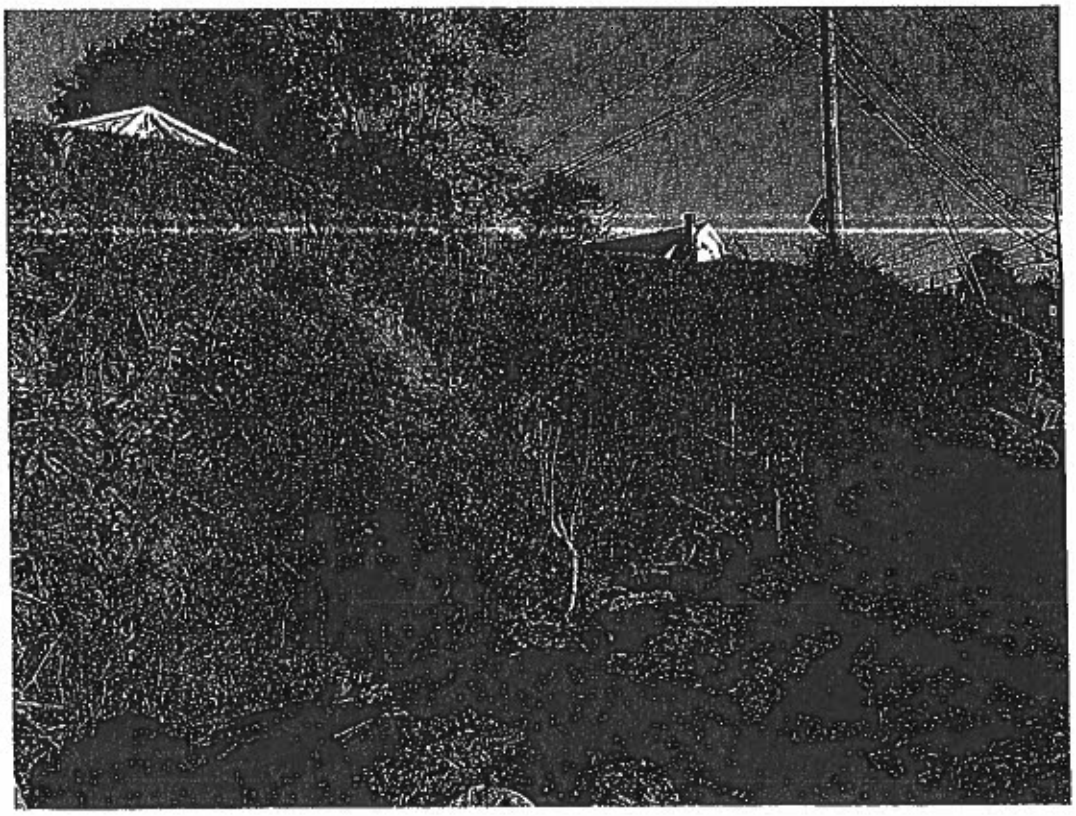
Residents Present: Susan Perry Luxton, Charlie Perry, Rich Cirillo, Patricia Couture, Richard Heller, Sandra Ribeiro, Geraldine Kuenkler, Michelle Palmieri, Chad Gentile, Jeannine Kenney, Terry Kenney

1. Special Meeting called to order at 5:30 pm by Baird Welch-Collins.
2. Site Walk Niantic River Road Erosion
   a. FECB members met with residents to view & discuss their concerns regarding sedimentation erosion occurring along Niantic River Road in the vicinity of 3rd & 4th avenues.
   b. The erosion taking place is due in part to the Niantic River eroding the base of the bank below Niantic River Road & at the base of 5 power poles along the road in the vicinity of 3rd & 4th avenues.
   c. The existing erosion control consists of large boulders that were placed along the beach at the base of the bank. The river flows freely in & around the boulders eroding the base of the bank. Vegetation is present on the bank however; it is not of the types that would help to absorb or stabilize any runoff.
   d. Additionally, previous strong storms have produced runoff that flows across the road & flows down the bank causing further erosion of the bases of the 5 power poles and the edge of Niantic River Road.
   e. FECB will contact Town Staff to determine the appropriate action to be taken.
3. Special Meeting adjourned at 6:28 pm.

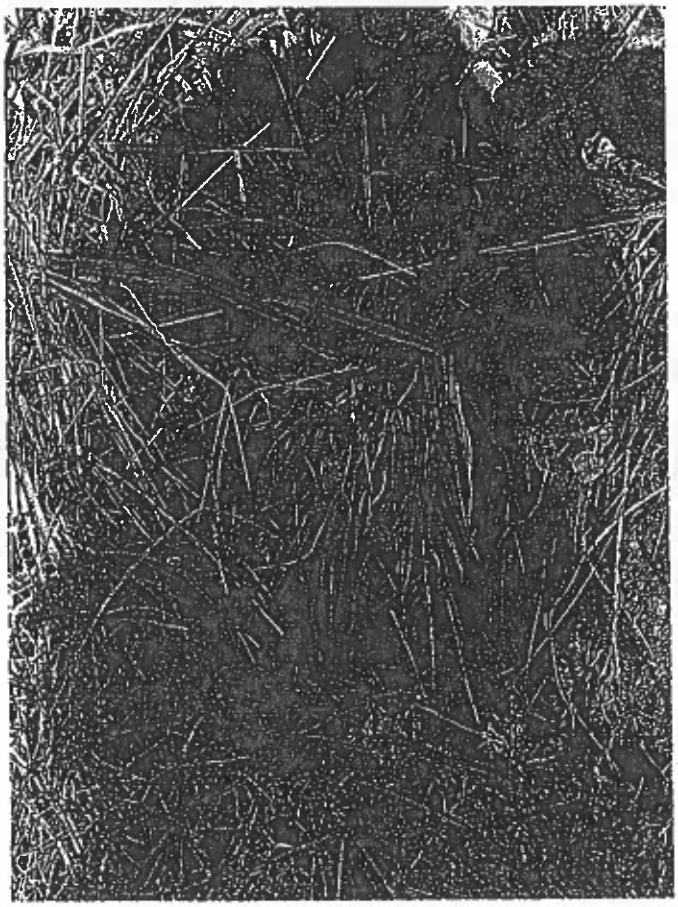
Respectively submitted by Chris Callahan



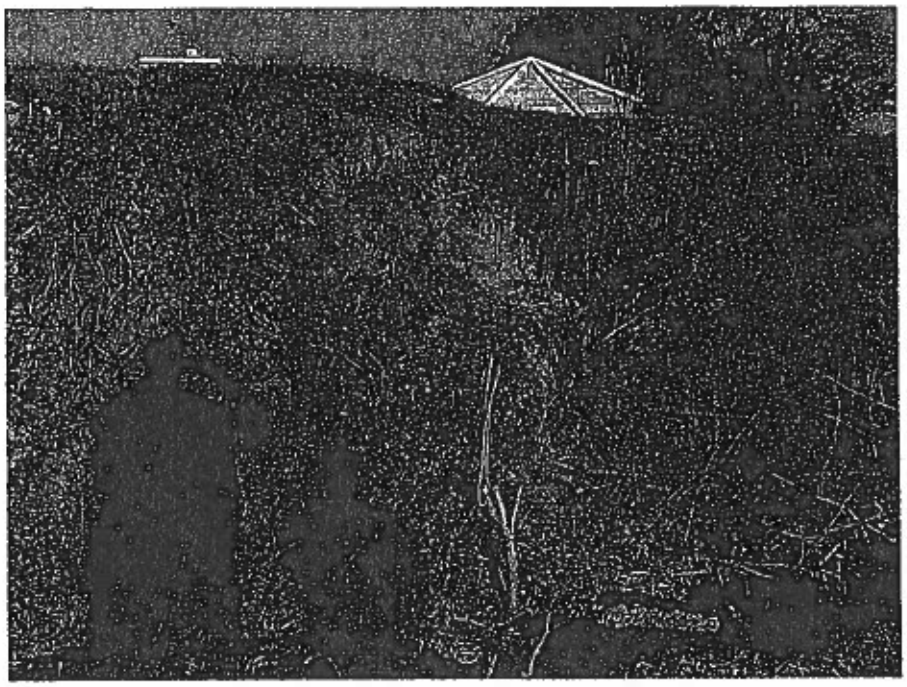
End of the erosion barrier and the beginning of the eroding bank.



Area of key concern where the erosion is nearing the roadway.



Evidence of erosion underneath the road surface.



Additional area of concern where the embankment has partially collapsed.

Gary Schneider

From: Maureen Fitzgerald
Sent: Monday, December 19, 2022 4:00 PM
To: Gary Schneider
Subject: FW: a restoration project in the Niantic River

More interest in Grimsey Beach erosion for the CIP request -

From: Suzanne Thompson <suzanne.s.thompson@sbcglobal.net>
Sent: Friday, December 16, 2022 5:42 PM
To: Maureen Fitzgerald <mfitzgerald@waterfordct.org>; Penny Heller <phheller@sbcglobal.net>
Subject: Re: a restoration project in the Niantic River

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

Thank you, Penny, for reaching out to Connecticut College.

Maureen, our Save the River-Save the Hills organization (I'm a board member) is interested in working with Town of Waterford, academia and others on seeing how the erosion on Grimsey Beach can best be addressed.

So, STR-STH would be willing to provide some volunteer labor to help with construction and installation of reef balls or other appropriate structures to address and remediate the erosion problem. Since we have done educational outreach activities with Waterford and East Lyme High Schools biology/environmental sciences classes, we also would welcome seeing how we could help engage interested HS teachers and students in this effort.

Would it also be appropriate to engage Niantic River Watershed Committee, with its Waterford and East Lyme appointees, and Dr. Jamie Vaudrey, UConn Marine Sciences professor who also now staffs NRWC, as well recently named Scientific Coordinator of the new CT National Estuarine Research Reserve? Jamie also moved from the Ledyard area to Niantic in the past few years.

So, let's explore the possibilities together - can we talk in January?

Thanks,
Suzanne

On Friday, December 16, 2022, 02:03:55 PM EST, Penny Heller <phheller@sbcglobal.net> wrote:

FYI - see suggested help for moving forward with restoration of Grimsey Park. Maureen, we don't mean to get ahead of what you want to do there.

We just are looking around for helpful resources at this discussion stage since nothing can happen until spring or summer.

Penny Howell Heller

----- Forwarded Message -----
From: Maria Rosa <mrosa@conncoll.edu>
To: Penny Howell Heller <phheller@sbcglobal.net>; Jason Krumholz <jkrumholz@gmail.com>; Timothy Clark <timothy.clark@tnc.org>
Sent: Friday, December 16, 2022 at 12:10:45 PM EST
Subject: Re: a restoration project in the Niantic River

Hi Penny,

I'de be happy to chat about the reefballs and help in any way I can. I'm looping in Jason Krtumholz, he's a research scientist with the reef ball foundation, and Tim Clark from the Nature Conservancy.

To answer your question, yes the reef balls have worked in my project and I am working on expanding the footprint of the pilot. I can't answer whether it would work in your area, that would need a site assessment, which Jason can do. That will determine how many reef balls, and what size, you need for the project. If it's a small number they can be constructed for a nominal fee and volunteer labor. You would also need permits, which can take some time but I am happy to chat about.

I would recommend a site visit to Conn so your group can see the project and we can chat at length. If you think it's worth pursuing, chat with Jason about a site visit and the costs of that assessment.

If your group finds this is a good approach and wants to proceed, we can chat about ways that I, and maybe TNC, can help support the project.

Best,

On Thu, Dec 15, 2022 at 10:33 AM Penny Howell Heller <phheller@sbcglobal.net> wrote:

> Hi Dr. Rosa,
> The town of Waterford and East Lyme Natural Resources Commission (of which I am a member), along with the Save the River/ Save the Hills Environmental group are in the initial stages of a beach & shoreline restoration project at the newly established Grimsey Park on the Waterford side of the Niantic River. The project involves removal of a crumbling low sea wall and stabilization of the intertidal area and small beach. The area is fairly protected but is subjected to constant boat wakes in much of the year and foot traffic from the park. So erosion is a big problem.
> So much for a too-long introduction. I am tasked with getting your thoughts on placing mini reef balls at this site. Based on your experience in the Thames, would you recommend them? If so, can they be bought or better yet home-manufactured at minimal cost? Although we have several folks willing to pitch in for this project, including possibly high school students, do you think any Conn students might be interested in working on this project?
> Of course nothing can happen until this spring or summer so we are just at the information gathering point right now. I would be grateful for your thoughts.
>
> Penny Howell Heller
> East Lyme Natural Resources Commission
>
> PS - I am an alum, class of '75 and parent, class of '08
>
> Sent from my iPad

--
Maria Rosa, PhD

she/her/hers
George & Carol Milne Assistant Professor of Biology
New London Hall, Rm 403
270 Mohegan Avenue
New London, CT 06320

860-439-2846
http://mariarosa.digital.conncoll.edu/

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Public Works	CONTACT PERSON Gary J. Schneider
PROJECT NAME Transfer Station	DEPARTMENT PRIORITY

1 DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)

The office is used as scale house and inspection point for incoming vehicles. This existing structure was a trailer that was purchased for use at Miner Lane site, then moved to its current location after Miner Lane closed. Trailers of this type have a life of 10 -15 years. The replacement of the trailer will be a structure that will meet current building codes, will include toilet facilities, lightning protection and secured to handle cash. COVID -19 touchless payment and positive air must be part of the new structure.
The recyclable transfer area was built in the early 2000's. Recyclable volumes have exploded and the area has not been upgraded to handle the increase and the transportation to a recycler. The electrical service to the compactor has been found to be under sized. Without this unit, the collection vehicles must make the trip to Willimantic to discharge their loads. The compaction unit will hold 4 collection vehicles loads.

2 PROJECT STATUS IF IN PROGRESS

None

3 LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST

None

4 DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)

None

5 GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)

Funds were approved in FY23 for the design of the replacements of the scale and trailer. Due to increases in construction costs, only the scale replacement was accomplished.

6 ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)

None

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance			125,000			
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**0**	**0**	**125,000**	**0**	**0**	**0**

TOWN OF WATERFORD
MEMORANDUM

PUBLIC WORKS
DEPARTMENT

To: File

From: Gary J Schneider

Date: November 13, 2023

Re: Transfer Station

This project will address several areas that support the Transfer Station operations at the Municipal Complex. The Transfer Station was constructed in 2000.

The Transfer Station consists of the following components:

- Scale (replaced in FY 23) and office for the attendant
- Drop off area for residents and small commercial accounts
- Recycling area (motor oil, bulbs, appliances, tires, mattresses)
- Operations area for public works (curbside recyclables transfer area)

The office is used as a scale house and inspection point for incoming vehicles. This existing structure was a trailer that was purchased for use at the Miner Lane Temporary Transfer Station site, when the Town was preparing to close the landfill. It was then moved to its current location after Miner Lane closed. Trailers of this type have a life of 10 -15 years. The replacement of the trailer will be a structure that will meet current building codes, will include toilet facilities, lightning protection and secured to handle cash.

The curbside recyclable transfer area was built in the early 2000's. Recyclable volumes have exploded and the area has not been upgraded to handle the increase in volume. It can take over 30 minute to discharge the load from the truck into the ream that compacts the material into the transfer trailer. The electrical service to the compactor has been found to be undersized and fails several times a year. Without this unit, the collection vehicles must make the trip to Willimantic to discharge their loads. The trailer that the compactor packs into will hold 4 collection vehicles loads.

This project will also investigate options to increase the efficiency of transportation of what is collected (waste and recyclables) to the regional processing facilities.

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Public Works	CONTACT PERSON Gary J. Schneider
PROJECT NAME Traffic Signals	DEPARTMENT PRIORITY

1 DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)

The Town is responsible for traffic signals installed at the intersections of Town roads; in locations that control traffic from a private driveway (Fire Houses) onto a road, town driveway onto a State road (usually a warning light) or installed at the Town's request. All other locations are the responsibility of the State DOT to maintain.
Currently, the Town has four locations where traffic signals are Town owned. Those are Parkway South with Cross Road, Parkway North with Cross Road, the flashing beacon at the Municipal Complex and Route 85 and Millstone Road/Seaview Terrace with Route 1.
(Jordan and the Oswegatchie Fire Houses both have a traffic signal that is maintained by Fire Services.) The traffic engineer would review each of the intersections and prepare a report of the condition of existing equipment, recommended replacement schedule, and cost estimates for these critical signals.

2 PROJECT STATUS IF IN PROGRESS

None

3 LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST

None

4 DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)

None

5 GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)

None

6 ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (If none, simply state that in the area below)

None

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance			35,000		250,000	250,000
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**0**	**0**	**35,000**	**0**	**250,000**	**250,000**

TOWN OF WATERFORD
MEMORANDUM

PUBLIC WORKS
DEPARTMENT

To: File

From: Gary J Schneider

Date: November 13, 2023

Re: Traffic Signals

The Town is responsible for traffic signals installed at the intersections of Town roads; in locations that control traffic from a private driveway (Fire Houses) onto a road, town driveway onto a State road (usually a warning beacon) or installed at the Town's request. All other locations are the responsibility of the State DOT to maintain.

Currently, the Town has four locations where traffic signals are Town owned. Those are Parkway South with Cross Road, Parkway North with Cross Road, the flashing beacon at the Municipal Complex on Route 85 and Millstone/Seaview Terrace with Route 1.

Jordan and Oswegatchie Fire Houses both have a traffic signal that is maintained by Fire Services.

The traffic signals at the intersection of Cross Road and Parkway North and South have funds approved to study ways to improve on the Loss of Service (LOS) ratings. These intersections serve one of the Town's commercial and industrial zones. The traffic engineer will review each of the intersections with Cross Road and prepare a report of the condition of existing equipment, recommended replacement schedule, and cost estimates for these critical signals.

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Public Works	CONTACT PERSON Gary J. Schneider
PROJECT NAME Dumpsters and Storage Enclosures	DEPARTMENT PRIORITY

1	DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)
	At municipal locations (to include Schools and Fire Stations), the Department provides dumpsters, pads and screening of the locations. These are nearing the end service life. The three school locations and the recently Municipal Complex project, as part of the site work, have addressed the storage enclosures and screening (fencing and concrete pad). But for these sites, replacement of the dumpsters still needs to be addressed. All the other municipal sites (Fire Stations, Eugene O'Neill, municipal buildings) must address not only the dumpsters, but the enclosures and screenings that are required in their site plan approval.
2	PROJECT STATUS IF IN PROGRESS
	None
3	LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST
	None
4	DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)
	None
5	GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)
	None
6	ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)
	None

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance				25,000		
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	0	0	0	25,000	0	0

TOWN OF WATERFORD
MEMORANDUM

PUBLIC WORKS
DEPARTMENT

To: File

From: Gary J Schneider

Date: November 13, 2023

Re: Dumpster and Storage Enclosures (Town owned)

At all municipal locations (to include Schools and Fire Stations), the Department provides dumpsters, pads and screening of the locations. These are nearing the end of service life.

Three of the Town's school locations and the recently Municipal Complex project, as part of the site work, have addressed the storage enclosures and screening (fencing and concrete pad). But for these sites, replacement of the dumpsters still needs to be addressed.

All the other municipal sites (Fire Stations, Eugene O'Neill, municipal buildings) must address not only the dumpsters, but the enclosures and screenings that are required in their site plan approval.

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Public Works	CONTACT PERSON Gary J. Schneider
PROJECT NAME EV Charging Stations	DEPARTMENT PRIORITY

1	DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)
	The Town must prepare for the change over from gasoline to electric vehicles (EV) or plug-in hybrid electric vehicles (PHEV). Charging stations for municipal use will be required at the Municipal Complex, Town Hall and Public Safety Complex for the municipal fleets that are dispatched from those areas. Charging an all-electric vehicle (EV) or plug-in hybrid electric vehicle (PHEV) is similar to charging your other electronics. One end of an electrical cord is plugged into your car, the other end is plugged into a power source or charging equipment (station). The Town would provide exterior fast charging (240 v) at the charging stations.
2	PROJECT STATUS IF IN PROGRESS
	None
3	LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST
	None
4	DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)
	None
5	GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)
	None
6	ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)
	None

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance			21,000			
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	0	0	21,000	0	0	0

TOWN OF WATERFORD
MEMORANDUM

PUBLIC WORKS
DEPARTMENT

To: File

From: Gary J Schneider

Date: November 13, 2023

Re: EV Charging Stations

The Town must prepare for the change over from gasoline/diesel to electric vehicles (EV) or plug-in hybrid electric vehicles (PHEV). Charging stations for municipal use will be required at the Municipal Complex, Town Hall and Public Safety Complex for the municipal fleets that are dispatched from those areas. Other sites for public use are not included in project

Charging an all-electric vehicle (EV) or plug-in hybrid electric vehicle (PHEV) is similar to charging your other electronics. One end of an electrical cord is plugged into your car, the other end is plugged into a power source or charging equipment (station).

These stations will be reserved for Town vehicles only and thus will be located in secured parking areas. The Town would provide exterior fast charging (240 v) at the charging stations. Recharging times can vary—typically, 30 minutes for fast charging and 4-6 hours with Level 2, depending on the size and current depletion of the battery.

The costliest part is not the charging unit itself, but rather any upgrades to the necessary electrical equipment and any trenching for the wiring and conduit to install the charging unit to the existing facility service

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Public Works	**CONTACT PERSON** Gary J. Schneider
PROJECT NAME Retaining Walls	**DEPARTMENT PRIORITY**

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	Oswegatchie Road is one of the several Town roads that have been identified as an evacuation route. There is a segment of the road near lot #166 where the embankment next to the road is held up by a dry stone retaining wall. The wall, if it fails, would block the means of egress. Failure of the wall would also impact the electrical circuit to that area. Funding is being programed for consulting engineer to inspect the structure and make recommendations for repairs to the retaining wall. Funding for construction would be proposed for the following years.
2	**PROJECT STATUS IF IN PROGRESS**
	None
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
	None
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
	None
5	**GRANT FUNDING/OTHER FUNDING, If applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
	None
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	None

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance			35,000			
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**0**	**0**	**35,000**	**0**	**0**	**0**

TOWN OF WATERFORD
MEMORANDUM

PUBLIC WORKS
DEPARTMENT

To: File

From: Gary J Schneider

Date: November 14, 2023

Re: Retaining Walls

Several roads are either held up or have slopes that are held back by retaining walls. Cross Road and Oswegatchie Road are several of the Town roads that have been identified as an evacuation route and have retaining walls.

On Oswegatchie Road, there is a segment of the road near lot #166 where the embankment next to the road is held up by a dry stone retaining wall. The wall, if it fails, would block the means of egress. Failure of the wall would also impact the electrical circuit to that area.

Over the years, trees have matured and have impacted the wall. One place in particular, a tree has pushed the wall closer to the road. Although the tree was removed, the area has been marked with reflectors to warn vehicles of the intrusion into the road. This wall is over 4 feet in height and runs for approximately 300 feet. The opposite side of the road has a metal guide rail. There are no shoulders on this stretch of road with the travel portion in the area of the wall averaging only 22 feet in width.

Although it appears stable for the near future, funding should be programed for a consulting engineer to inspect the structure and made recommendations for repairs to the retaining wall. Funding for construction would be proposed for the following years.

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Public Works	CONTACT PERSON Gary J. Schneider
PROJECT NAME Roadside Barriers	DEPARTMENT PRIORITY

1	DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)
	Roadside barriers are longitudinal barriers used to prevent a vehicle from leaving the roadway and striking a fixed object or terrain feature that is considered more hazardous than the barrier itself. Many of our existing systems do not meet current standards and may even cause more damage than what they are intended to prevent.
2	PROJECT STATUS IF IN PROGRESS
	Inventory of existing barriers is on-going.
3	LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST
	None
4	DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)
	None
5	GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)
	None
6	ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)
	None

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital				50,000		50,000
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	0	0	0	50,000	0	50,000

TOWN OF WATERFORD
MEMORANDUM

PUBLIC WORKS
DEPARTMENT

To: File

From: Gary J Schneider

Date: November 13, 2023

Re: Roadside Barriers

Waterford has over 5 miles of roadside barriers with a replacement cost of over $2.6 million dollars. Roadside barriers are longitudinal structures used to prevent a vehicle from leaving the roadway and striking a fixed object or terrain feature that is considered more hazardous than the barrier itself. Many of our existing systems do not meet current standards and may even cause more damage than what they are intended to prevent.

Public Works is working on its inventory and the analysis of the condition of the existing systems. For each location, staff will review the most current information from the American Association of State Highway and Transportation Officials, U.S. Department of Transportation, Federal Highway Administration, and State of Connecticut Department of Transportation Form 818 to determine if a barrier system is required and, if so, determine the proper barrier system to be installed.

Once this initial analysis has been completed, areas will be prioritized and a funding request will be made.

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Public Works	CONTACT PERSON Gary J. Schneider
PROJECT NAME Realignment of Major Intersections	DEPARTMENT PRIORITY

1	DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)
	This project supports surface transportation projects which encompass roads, street accessories, sidewalks, and bridges. The objective is to provide safe, attractive, and efficient public transportation ways and infrastructure systems that support them. Our road network have several intersections of our collector streets with state roads that have less then efficient geometrics. Cross Road at Route 1; Lake Ponds Road at Route 85; Braman at Route 213 and Fog Plain Road at Route 1 alignments or sight lines don't meet current design standards. Realignment of the intersection may involve turn lanes, sight line improvements and the acquisition of additional right of way. This project will provide reduced traffic wait times, reductions in accidents and would address pedestrian access.
2	PROJECT STATUS IF IN PROGRESS
	None
3	LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST
	None
4	DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)
	None
5	GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)
	None
6	ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)
	None

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance					55,000	
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	0	0	0	0	55,000	0

TOWN OF WATERFORD
MEMORANDUM

PUBLIC WORKS
DEPARTMENT

To: File

From: Gary J Schneider

Date: November 14, 2023

Re: Realignment of Major Intersections with State Roads

This capital project supports surface transportation projects which encompass roads, street accessories, sidewalks, and bridges. The objective is to provide safe, attractive, and efficient public transportation ways and infrastructure systems that support them.

Although our road network has numerous intersections of our collector streets with State roads, there are several that have less then efficient geometrics. Cross Road at Route 1 has a 5 leg intersection with narrow right of way and restrictive turn radius; Braman at Route 213 sightlines and Fog Plain Road at Route 1 alignment and or sight lines. All don't meet current design standards. Realignment of the each intersection may involve turn lanes, sight line improvements and the acquisition of additional right of way.

This project will provide reduced traffic wait times, reductions in accidents and would address pedestrian access

This work must be coordinated with the State DOT.

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Public Works	CONTACT PERSON Gary J. Schneider
PROJECT NAME Huntsbrook Bridge at Bloomingdale Road	DEPARTMENT PRIORITY

1	DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)
	From the rains that were the result of storm Ida, the bridge over the Hunt Brook at Bloomingdale Road (bridge # 06139) was overtopped causing the closure of the road, erosion of bank near the abutment and asphalt road surface was lost. An analysis of the bridge in 2014 found that the brook will overtop the bridge in a 27 year storm. Over topping of the bridge will shut the road down, a major concern for emergency services.
2	PROJECT STATUS IF IN PROGRESS
	Inspection Reports
3	LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST
	None
4	DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)
	No impact to the Department's budget.
5	GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)
	Funded in FY 23 were funds to prepare Design Concepts. All projects will be reviewed to determine if they are eligible for State or Federal Bridge grants.
6	ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)
	See attached expanded narrative, State Bridge Inspection April 4, 2020, excerpt from Kleinfelder report dated Nov 18, 2014, inspection report. Expert of the Haley Ward Study dated November 2023.
7	COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	0	0	0	0	0	0

TOWN OF WATERFORD
MEMORANDUM

PUBLIC WORKS
DEPARTMENT

To: File

From: Gary J Schneider

Date: November 13, 2023

Re: Huntsbrook Bridge at Bloomingdale

There are 7 bridges on the National Bridge Inventory (spans over 20") that the State DOT inspects every 2 years. The last inspection results were published in April of 2022. The rating scale used by the State has found 4 rated good and 3 rated fair.

Of these seven bridges, 5 are on primary local roads that move traffic throughout the town.

The rating system consists of these levels:

- Excellent - No noticeable deficiencies or deterioration
- Very Good – No problems requiring attention
- GOOD Condition - some minor problems
- Satisfactory – Structural elements show some minor deterioration nonstructural cracking; potential exists for major maintenance.
- FAIR - all primary structural elements are sound, but may have minor section loss, structural cracking, spalling or scour; potential exists for minor rehabilitation.
- POOR - advanced section loss, deterioration, spalling or scour
- SERIOUS - loss of section, deterioration, spalling or scour have seriously affected primary structural components. Local failures are possible. Fatigue cracks in steel or shear cracks in concrete may be present. Rehabilitation or repair required immediately
- CRITICAL - advanced deterioration of primary structural elements. Fatigue cracks in steel or shear cracks in concrete may be present, or scour may have removed substructure support. Need for immediate repair or rehabilitation is urgent; unless closely monitored it may be necessary to close the bridge until corrective action is taken.
- IMMINENT FAILURE - major deterioration or section loss present in critical structural components or obvious vertical or horizontal movement affecting structure stability. Bridge is closed to traffic, but corrective action may put back in light service.
- FAILED - out of service - beyond corrective

Serious bridge problems such as load restrictions and closures can be prevented by programming renovation work. The goal is to address the issues on the bridges before they are downgraded to poor or worse conditions.

Not included on this list are two bridges that are on the city line between New London and Waterford on Highland Avenue (fair) and Glenwood Avenue (Good) over Alewife Cove. In most cases involving bridges that span a municipal boundary, an inter-local agreement would be entered into to assign a lead community and assign costs.

Funding would retain the services of a qualified bridge engineering firm to fully inspect the structures and specify the required repairs with construction funding requested in the following years. The bridge engineering firm would take the findings from the State inspection reports, and prepare a preliminary design and cost estimates for future year funding. All projects will be reviewed to determine if they are eligible for State or Federal Bridge grants.

From the rains that were the result of Ida, the bridge over Hunts Brook at Bloomingdale Road (bridge # 06139) was overtopped causing the closure of the road, some erosion of bank near the abutment and some minor asphalt road surface was lost. An analysis of the bridge in 2014 found that the brook will overtop the bridge in a 27 year storm. Over topping of the bridge will shut the road down, a major concern for emergency services. Funding was approved in FY24 to complete the analysis.

The report is being staffed through the different Town Departments for comment.

HALEY WARD.
ENGINEERING | ENVIRONMENTAL | SURVEYING

November 1, 2023

Gary Schneider, Director of Public Works
Town of Waterford
1000 Hartford Road
Waterford, CT 06385

Re: Hunts Brook Flooding Evaluation Study at Bloomingdale Road, Waterford CT;
Haley Ward Project No. 4010195.22367

Dear Mr. Schneider:

In accordance with our proposal, Haley Ward, Inc. prepared a study to evaluate options to alleviate flooding on Hunts Brook, in the vicinity of Bloomingdale Road. Our work included field survey, stream cross-section surveys, mapping, creating a hydraulic model and evaluating improvement options.

A) Hydraulic Modeling – **Attachment A** is our Modeling Report for Hunts Brook. This study has the following major conclusions:

1) Hunts Brook has a **10.9 square mile** watershed area at Bloomingdale Road, which sets the methodologies required for analysis. Our approach is consistent with Connecticut DOT and DEEP methodologies for structure design with watershed areas over 10 square miles.

2) The ConnDOT drainage manual classifies this structure class as **large**, due to the watershed area **exceeding 10 square miles.** This mandates a 100 year frequency design storm and minimum freeboard heights for the new structure.

3) ConnDOT recommends the use of USGS Stream Stats data. For the 100 -year return frequency storm, the calculated flow rate is **1,340 cfs.**

4) Haley Ward utilized GEOHEC-RAS software for this analysis and evaluated various hydraulic opening improvements for replacement structures ranging between 20 - 35 feet.

2210 Main Street, P.O. Box 1088, Glastonbury, CT 06033
T: 860.659.3100 | HALEYWARD.COM

5) Our results show that a new 30-foot span bridge structure provides the optimal solution. A bridge with this opening passes the 100-year design storm, while keeping water surface elevations within the channel with no overtopping of the road or impacts to neighboring properties.

B) Schematic Design Plans- **Figure 1** is the Existing Conditions Plan for Bloomingdale Road, showing the three existing 6 foot diameter reinforced concrete pipes, and the stream channel immediately upstream and downstream of the roadway.

Figure 2 shows the preliminary design layout for the new 30' span bridge, along with minor realignment of Bloomingdale Road, and re-grading of the channel.

Figure 3 is the preliminary cross section plan, with the previous 6' diameter culverts superimposed. Note that the 100 year storm event water surface elevation is shown, along with the **1.99 feet of under clearance** beneath the low chord of the bridge, and **4.76 feet of freeboard** below the low point of the reconstructed roadway.

C)Cost Estimate - Haley Ward recently completed design and construction administration services for a similar project, the Route 77 DOT Bridge in Killingworth. **Attachment B** is our cost estimate for this very similar structure, adjusted for inflation since the time of construction.

The estimated 2023 construction cost for the proposed 30' span bridge, including removal of the existing triple- 5' diameter culverts, is approximately **$ 2.0 million.**

Table 1 is an overall project cost estimate, including engineering design, permitting, construction administration and inspection, as well as 20 % contingences. The overall project cost is **$ 2.9 million.**

D) Permitting - The following permits likely will be required for this project:

Local – Inland Wetlands
Planning and Zoning (8-24 approval)
Representative Town Meeting (RTM)

State- DEEP- Inland Water Resources Permits- Water Diversion
- Section 401 Water Quality Certificate

Federal- Army Corp of Engineers Connecticut General Permit GP-19
Section 404 Permit

In addition, the following permits may also be required:

- Natural Diversity Data Base (NDDB)Study
- State Historic Preservation Office (SHPO) Study
- DEEP Flood Management Certification (if State funds are used)
- FEMA Letter of Map Revision

We look forward to discussing this report with you and other Town officials, and feel free to contact me with any questions or comments.

Respectfully submitted,
HALEY WARD, INC.

James E. Ericson, PE
Regional Manager / Vice President

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Public Works	CONTACT PERSON Gary J. Schneider
PROJECT NAME Wooden Streetlight Poles	DEPARTMENT PRIORITY

1	DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)
	The Town is responsible for wooden poles as they only hold the street light. They are approaching the end of their service life. The project involves not only the replacement of the pole, but includes the detachment/reattachment of the light fixture to the pole. Eversource is also involved as they must disconnect and reconnect the power to the light fixture.
2	PROJECT STATUS IF IN PROGRESS
	None
3	LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST
	None
4	DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)
	None
5	GRANT FUNDING/OTHER FUNDING, If applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)
	None
6	ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)
	None

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	0	0	0	0	0	0

TOWN OF WATERFORD
MEMORANDUM

PUBLIC WORKS
DEPARTMENT

To: File

From: Gary J Schneider

Date: November 13, 2023

Re: Replacement of Wooden Streetlight Poles

In several subdivisions, the electric power lines were installed underground eliminating the need for utility poles. That eliminated the ability of the Town to install streetlights on someone else's pole. To provide street lighting on these subdivisions roads, wooden poles were installed to attach the light fixture. There was no standard pole or fixture required by the Town and all were direct burial of the wooden pole into the ground. There are a total of 162 direct burial poles that must be replaced.

Unlike areas that have overhead wires where a utility company is responsible for the pole, the Town is responsible for these poles as they only hold the streetlight. The poles are approaching the end of their service life.

The project involves not only the replacement of the pole, but includes the detachment/reattachment of the light fixture to the pole. Eversource is also involved as they must disconnect and reconnect the power to the light fixture.

Town of Waterford

Recreation and Parks

Capital Improvement Review

2024 – 2029 Capital Plan Considerations & Development:

Consolidation of Recreation and Parks Projects for Efficient and Equitable Opportunities

Objective:
To consolidate existing recreation and parks projects within our city to facilitate updated reviews and improvements that enhance safety, accessibility, and equitable opportunities, while minimizing construction equipment transport costs.

Scope:
This directive applies to all recreation and parks projects within our city limits. It encompasses a comprehensive approach to re-evaluate and revamp these spaces to ensure they align with our commitment to safety, inclusivity, and cost-efficiency.

- Long Range Planning reviews with R&P Commission subcommittees
- The master plan encompasses the consolidation of multiple projects into a unified endeavor to reduce construction equipment transport costs and optimize resources.
- Emphasizing the importance of safety improvements, inclusive design, and cost-efficiency in updating decades of old infrastructure and equipment.
- Safety Enhancements: Trail systems, walkways, court surfacing, playground improvements
  a. Prioritize safety measures in the consolidation process, including modernized equipment, improved lighting, and enhanced security features.
  b. Ensure that pathways and facilities are designed and maintained to minimize safety risks.

- Equitable Opportunities:
  a. Implement accessibility enhancements to cater to individuals with diverse needs, including ramps, braille signage, and sensory features.
  b. Promote inclusivity in the design of parks and recreation spaces to ensure equal access for all residents.

- Cost Reduction:
  a. Explore cost-saving opportunities through the consolidation of projects, sharing of resources, and reducing duplication of efforts.
  b. Seek efficient construction methods to minimize expenses related to equipment transport and construction.

- Community Engagement:
  a. Involve the community in the decision-making process and gather input on the consolidation plan, safety enhancements, and accessibility improvements. Establish a committee for the R&P Garage at WBP, Playground Committees, etc.
  b. Ensure transparency and open communication with residents throughout the project.

- Project Implementation:
  a. Execute the consolidation plan in phases, prioritizing areas with the greatest need and potential for improvement.
  b. Monitor the progress of each project and ensure that safety and equity goals are met.

- Evaluation and Reporting:
  a. Conduct regular evaluations of the projects to measure the impact on safety and equity.
  b. Provide transparent and regular reports to city officials, stakeholders, and the community on the progress, outcomes, and cost-efficiency of the projects.

- Budget Allocation:
  a. Allocate sufficient funds from through operating and capital budgets to support the consolidation of recreation and parks projects as outlined in the master plan.

This directive seeks to create a more unified, safe, and inclusive environment within Waterford's recreation and parks spaces while optimizing resources and reducing costs. It reflects our commitment to providing all residents with equitable opportunities for recreation and enjoyment.

1. Project Identification:

I. Current projects and funding listing:

33723-55838 Children's Playground Equipment: Received $10,000 donation from Gardiner Family Foundation. Plan to integrate with Civic Triangle phase I plans. Balance: $50,000

Basketball Court Repairs (Town Hall and Leary): Bids rejected. Bid amounts over budget and need for consistent and safer surfacing. Balance: $132,000 – request to move to Town-Wide Court Replacement request.

CNR
20537-57854 WBP Concert Improvements: Continue exploring options as the summer concert series grows. Balance should cover plan design. Balance: $30,000

20537-57735 Leary Park Roadway: Request review and improvements from PW Director and exploring integration with other park requests of playground, basketball, and accessibility.

II. Updated review –

A. Pleasure Beach Walk:

Plan and estimate received from Haley Ward. Estimate over budget. Additional appropriation required.

An accessible walkway to a municipal beach is a necessity for ensuring that everyone, regardless of their physical abilities, can enjoy the beach. The Americans with Disabilities Act (ADA) requires state and local governments to make pedestrian crossings accessible to people with disabilities by providing curb ramps. The installation of an accessible walkway would provide a safe and easy way for people with disabilities, the elderly, and families with strollers, wagons, coolers, or other wheeled accessories to access the beach. A similar project was recently completed at Waterford Beach Park

B. Town-wide Court Repairs/Resurfacing:

Leary (4) Tennis/Pickleball and (1) basketball court

Quaker Hill School (2) Tennis/pickleball

WBP (2) Tennis/pickleball

Town Hall (2) NEW pickleball and (2) basketball courts

Classic Turf and Hinding contacted for quotes : Post Tension concrete, fencing, pathways

Basketball court bids (Town Hall and Leary) rejected due to bids over budgeted funding and safety/consistent court surfacing throughout town. Projects should be combined to save costs on equipment transport, etc.

Justification: Recreation and Parks is responsible for the maintenance of the following tennis/pickleball and basketball courts in the Town of Waterford: Leary Park (1 basketball, 4 tennis), WBP (2 tennis), QH (2 tennis), Town Hall (2 basketball, introduce 2 new pickleball. The courts were installed in the ***mid 1970's*** and have recived crack and surfacing repairs, painting, and other remedies that have not been as successful as hoped. A more permanent solution is desired for our residents and justifications are: Post-tensioned concrete and asphalt are both commonly used materials for tennis courts and other sports surfaces. The advantages and considerations for each:

<u>1. Asphalt:</u>

o Ease of Construction: Asphalt courts have been popular due to their ease of construction and the readily available materials associated with asphalt's primary application (roadways and parking lots).

o Flexible Pavement: Asphalt is a flexible pavement, which means that over time, cracking of the pavement is inevitable. While effective management of cracking is feasible for roads and parking lots, these maintenance issues pose a greater risk to tennis players.

o Maintenance Challenges: Asphalt courts often suffer from cracking, poor drainage, and unstable subgrade soils. Sawed joints are recommended to relieve tension in the court surface, but new cracks can still form within the play area.

o Specialty Asphalt Mixes: While asphalt is commonly used for roads, the asphalt mix for tennis courts needs adjustments. Specialty mixes cost more and present challenges for producers and installers.

2. Post-Tensioned Concrete (PT Concrete):

o Rigid and Reinforced: PT concrete is a rigid, reinforced concrete pavement. Its design eliminates jointing and cracking issues that plague asphalt courts.

o Longer Lifespan: The lifespan of PT concrete can be almost double that of an asphalt court. It offers durability and longevity.

o Stability on Unstable Soils: PT concrete can span unstable soils where asphalt might fail.

o Lower Maintenance Costs: PT courts require less crack repair and resurfacing compared to asphalt courts.

In summary, PT concrete courts earn the trophy for durability, playability, and long-term value. They resist crack development, settling, and heaving, provide better drainage, and offer a uniform playing surface. While PT construct is more expensive to install initially, the lower maintenance costs over the court's life make it a compelling choice for those seeking a reliable and long-lasting tennis court.

Why post-tensioned concrete (PT concrete) stands out as the safest surfacing option for court sports:

1. **Crack Resistance:**

o PT concrete courts are designed to minimize cracks. Unlike asphalt, which is prone to cracking due to its flexible nature, PT concrete provides a monolithic surface without joints. This reduces the risk of tripping hazards and ensures a smooth playing experience.

2. **Stability and Uniformity**:

o PT concrete offers excellent stability. It doesn't shift or settle over time, even on unstable soils.

o The uniform surface of PT concrete ensures consistent ball bounce and player movement. Players can rely on predictable ball behavior, reducing the chances of accidents.

3. **Durability and Longevity:**

o PT concrete courts have a significantly longer lifespan compared to asphalt. They withstand heavy use, weather conditions, and wear.

o The reinforced structure of PT concrete resists damage from freeze-thaw cycles, making it ideal for regions with varying climates.

4. **Low Maintenance Costs:**

o PT concrete requires minimal maintenance. Unlike asphalt, which needs frequent resurfacing and crack repair, PT courts remain stable and intact.

o Reduced maintenance means fewer disruptions and safer play.

5. **Drainage and Slip Resistance:**

o Properly constructed PT concrete courts have excellent drainage. Water doesn't pool on the surface, reducing slip hazards.

o The texture of PT concrete provides good traction, enhancing player safety.

6. **Consistent Playability:**

o PT concrete courts maintain their original characteristics over time. Players can rely on consistent ball speed, bounce, and court feel.

o This predictability contributes to player confidence and reduces the risk of injuries.

In summary, PT concrete combines durability, stability, and low maintenance costs, making it the safest choice for court sports. Whether it's tennis, basketball, or any other sport, PT concrete ensures a reliable and secure playing surface for athletes of all levels.

C. Civic Triangle – Phase II

The need to update parks or perform park alterations can be justified for several reasons:

1. Safety and Quality of Life: Upgrading the playground ensures that children have a safe and enjoyable place to play, enhancing the quality of life for families in the community.
2. Physical Activity and Health: New athletic field irrigation allows for better maintenance, ensuring that the fields are playable year-round and encouraging physical activity among residents, which is vital for public health.
3. Sports Facilities: New tennis and basketball court surfaces provide opportunities for residents of all ages to engage in recreational and competitive sports, fostering physical fitness and community engagement.
4. Inclusivity: Modernizing the park can include features designed for people with disabilities, ensuring that everyone in the community has equal access to recreational opportunities.
5. Community Building: A well-maintained park serves as a focal point for the community, where residents can socialize, participate in events, and build a stronger sense of unity.
6. Economic Benefits: Improved parks can attract visitors, potentially boosting local businesses through increased tourism and event hosting.
7. Environmental Sustainability: Updated irrigation systems can use water more efficiently, reducing waste and contributing to environmental sustainability.
8. Property Values: Upgraded parks and sports facilities can have a positive impact on nearby property values, benefiting homeowners in the area.

9. Education and Skill Development: Playgrounds and sports facilities provide opportunities for children to develop essential skills, including physical, social, and cognitive abilities.
10. Increased Usage: High-quality facilities are more likely to be used by residents, resulting in a better return on the community's investment.
11. Competitive Advantage: Attractive parks and sports amenities can give the community a competitive advantage in attracting new residents, businesses, and investment.
12. Aging Infrastructure: If the existing park infrastructure is outdated or deteriorating, an update becomes necessary to ensure continued safe and functional use.

In justifying these updates, it's important to consider the specific needs and preferences of the local community, conduct cost-benefit analyses, and engage with residents to ensure the proposed changes align with their desires and priorities. Investing in the improvement of a local park can have a far-reaching positive impact on the community's overall well-being and vitality.

Children's Playground Equipment: Received $10,000 donation from Gardiner Family Foundation. Plan to integrate with Civic Triangle phase I plans. Balance: $50,000

This project will need to be considered with the WBP Garage Renovations. An access road plan has been identified to relieve the Town Hall parking area of constant trailering and maintenance operations. Phase II: Re-design phase of park to modify fencing, improve lighting and pathways, replace and relocate scoreboard, include pavilion, and discuss minimal water elements.

D. Vets-WBP Shop

Initial design for area received. Quote from Parking Boxx
Awaiting more detail from engineer
Civic Triangle Phase II access road in conjunction with this effort.
Utility Commission has a sewer project that will be coordinated.

E. Playground Improvements – Leary, WBP, Dedrick

Met with Miracle and Burke vendors to get an idea of total costs. Awaiting estimates and plans.

Leary Park playground: Two (2) structures – Asset#9204030534 Year installed: 2003
Asset#9902200011 Year installed: 1998

Dedrick Park playground: One (1) structure – Asset#9902170016 Year installed: 1999

Waterford Beach Park: One (1) structure – Asset N/A – donated during elementary school consolidation

F. Stenger bathroom and accessible walk

This project scope will be to have a pre-cast concrete restroom facility installed, which will meet all required building and ADA accessibility requirements. The structure can be installed on a compacted stone base, which eliminates the need for a concrete slab/foundation. It's designed to be vandal resistant and would require minimal maintenance. Over two decades ago, residents on the Stenger Farm Advisory Committee recommended a restroom facility for this widely used town park. Parks of 100 acres in size, along with the amount of visitors using this park, more than justifies having a restroom facility. It would make this park consistent with other large town parks which have restroom facilities. Outdoor recreation (hiking, fishing, running, dog walking, bicycling, photography, nature appreciation, cross country skiing) increase each year at this facility, as well as special events. Clark Lane Middle School's athletic and educational programs utilize the park on a year round basis, as well as scout groups and the general public. The town's dog park is located here which is extensively used by the public. An accessible walkway to the dog park and bathroom is needed for this property.

Pathway plan cost submitted, need new design to include restroom

G. JPH Parking lot

Cost to plan design received

Enlarging a parking lot to allow for accessible parking and emergency access and egress is an important step in ensuring that everyone can safely and easily access the facilities. Here are some reasons why enlarging a parking lot for these purposes is a good idea:

1. Compliance with the Americans with Disabilities Act (ADA): The ADA requires that all public facilities, including parking lots, be accessible to people with disabilities. Enlarging the parking lot to allow for more accessible parking spaces is one way to ensure that the facility is compliant with the ADA standards.
2. Increased accessibility: Enlarging the parking lot to allow for more accessible parking spaces makes the facility more accessible to people with disabilities, including those who use wheelchairs or other mobility devices. This can help to increase the number of visitors to the facility and make it a more inclusive space for everyone.
3. Improved safety: Enlarging the parking lot to allow for emergency access and egress can help to improve safety in the facility by providing a clear path for emergency vehicles to enter and exit the area. This can help to prevent accidents and injuries, especially in the event of an emergency.
4. Enhanced visitor experience: Enlarging the parking lot to allow for more accessible parking spaces can enhance the visitor experience by making it easier for people to navigate the facility and use its amenities. This can help to create a more positive experience for visitors and encourage them to return to the facility in the future.

In conclusion, enlarging a parking lot to allow for accessible parking and emergency access and egress is a smart investment that can help to improve safety, accessibility, and visitor experience.

H. WBP Ampitheater: Need discussion with First Selectman on scope

TOWN OF WATERFORD
CAPITAL IMPROVEMENT PLAN
PROJECT CONSOLIDATION FORM FY 2025-2029

	DEPARTMENT/ AGENCY:							
DEPT PRIORITY	PROJECT NAME	FUNDING SOURCE	FISCAL YEAR 2024-2025	FISCAL YEAR 2025-2026	FISCAL YEAR 2026-2027	FISCAL YEAR 2027-2028	FISCAL YEAR 2028-2029	TOTAL
1	Pleasure Beach Access Walk	1	145,000					145,000.00
1	Town-wide Court Renovations	6	2,100,000					2,100,000.00
	Playground Improvements - committee and planning stage			Leary & Dedrick	WBP			-
2	Stenger Farm Access Walk and Bathroom Plan Design		10,500					10,500.00
	Civic Triangle Phase II	1	35,450		300,000			335,450.00
	Waterford Beach Park Garage - in planning stages			750,000	750,000			1,500,000.00
	Jordan Park House Parking Plan Design			8,500				8,500.00
								-
								-
								-
								-
								-
	TOTALS		2,290,950.00	758,500.00	1,050,000.00	-	-	4,099,450.00

Placeholder - estimation

INDEX TO FUNDING SOURCES,

1 CURRENT YEAR CAPITAL IMPROVEMENTS
2 UTILITY BUDGET/SEWER CAPITAL MAINTENANCE FUND
3 TRANSFER TO CAPITAL & NONRECURRING.
4 SHORT AND LONG TERM DEBT FINANCING
5 LoCIP
6 CNR UNDESIGNATED FUND BALANCE
7 FEDERAL/STATE GRANTS
8 OTHER FUNDING

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY	**CONTACT PERSON**
Recreation and Parks	Ryan McNamara
PROJECT NAME	**DEPARTMENT PRIORITY**
Pleasure Beach Park Access Walk	1

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	An accessible walkway to a municipal beach is a necessity for ensuring that everyone, regardless of their physical abilities, can enjoy the beach. The Americans with Disabilities Act (ADA) requires state and local governments to make pedestrian crossings accessible to people with disabilities by providing curb ramps. The installation of an accessible walkway would provide a safe and easy way for people with disabilities, the elderly, and families with strollers, wagons, coolers, or other wheeled accessories to access the beach. A similar project was recently completed at Waterford Beach Park.
2	**PROJECT STATUS IF IN PROGRESS**
	Plan and estimate received
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
	Currently, the maintenance staff performs leveling of the compacted entrance. Weather and high traffic lend to ruts and irregularities in the surfacing. The maintenance staff would continue to monitor the walkway for any repairs or adjustments and icing treatments in when necessary
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	Plan and estimate attached.

7	COST/FUNDING SOURCE						
	FUNDING SOURCE	**APPROVED FUNDING TO DATE**	**FY2025**	**FY2026**	**FY2027**	**FY2028**	**FY2029**
1	Current Year Capital	21,236	145,000				
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**21,236**	**145,000**	**0**	**0**	**0**	**0**

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY	**CONTACT PERSON**
Recreation and Parks	Ryan McNamara
PROJECT NAME	**DEPARTMENT PRIORITY**
Town-wide Post-Tension Court Surfacing Renovations	1

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	Recreation and Parks is responsible for the maintenance of the following tennis/pickleball and basketball courts in the Town of Waterford: Leary Park (1 basketball, 4 tennis), WBP (2 tennis), QH (2 tennis), Town Hall (2 basketball, introduce 2 new pickleball. The courts were installed in the mid 1970's and have recived crack and surfacing repairs, painting, and other remedies that have not been as successful as hoped. A more permanent solution is desired for our residents and justifications are: Post-tensioned concrete and asphalt are both commonly used materials for tennis courts and other sports surfaces. The advantages and considerations for each: 1. Asphalt: o Ease of Construction: Asphalt courts have been popular due to their ease of construction and the readily available materials associated with asphalt's primary application (roadways and parking lots). o Flexible Pavement: Asphalt is a flexible pavement, which means that over time, cracking of the pavement is inevitable. While effective management of cracking is feasible for roads and parking lots, these maintenance issues pose a greater risk to tennis players. o Maintenance Challenges: Asphalt courts often suffer from cracking, poor drainage, and unstable subgrade soils. Sawed joints are recommended to relieve tension in the court surface, but new cracks can still form within the play area. o Specialty Asphalt Mixes: While asphalt is commonly used for roads, the asphalt mix for tennis courts needs adjustments. Specialty mixes cost more and present challenges for producers and installers. 2. Post-Tensioned Concrete (PT Concrete): o Rigid and Reinforced: PT concrete is a rigid, reinforced concrete pavement. Its design eliminates jointing and cracking issues that plague asphalt courts. o Longer Lifespan: The lifespan of PT concrete can be almost double that of an asphalt court. It offers durability and longevity.
2	**PROJECT STATUS IF IN PROGRESS**
	Leary and Town Hall Basketball Court Repair bids were rejected due to amounts exceeding funding and a change in surface material was desired. Post Tension concrete should be used in instances where asphalt was previosuly used and have safety uniformity throughout Town.
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
	Playground Improvements - Leary Park (accesible walkways to consider connecting). Civic Triangle Phase 2 Planning park improvements.
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
	They resist crack development, settling, and heaving, provide better drainage, and offer a uniform playing surface. While PT construct is more expensive to install initially, the lower maintenance costs over the court's life make it a compelling choice for those seeking a reliable and long-lasting tennis court.
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
	Returned $132,000 from CIP Basketball Court Resurfacing to provide cost savings when projects being on same site. Town Hall portion and Leary portion contain pickleball and basketball courts on the property. Court material justification and rationale stated above.
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	Estimates available for post tension concrete courts for Tennis and basketball. Leary: $722,660/QH:$325,000/TH: $607,000/WBP: $325,000
7	**COST/FUNDING SOURCE**

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	
1	Current Year Capital		2,100,000				Includes 5% contingency
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	0	2,100,000	0	0	0	0

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Recreation and Parks	**CONTACT PERSON** Ryan McNamara
PROJECT NAME Stenger Park Accessible bathroom and walkways	**DEPARTMENT PRIORITY** 2

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	This project scope will be to have a pre-cast concrete restroom facility installed, which will meet all required building and ADA accessibility requirements. The structure can be installed on a compacted stone base, which eliminates the need for a concrete slab/foundation. It's designed to be vandal resistant and would require minimal maintenance. Over two decades ago, residents on the Stenger Farm Advisory Committee recommended a restroom facility for this widely used town park. Parks of 100 acres in size, along with the amount of visitors using this park, more than justifies having a restroom facility. It would make this park consistent with other large town parks which have restroom facilities. Outdoor recreation (hiking, fishing, running, dog walking, bicycling, photography, nature appreciation, cross country skiing) increase each year at this facility, as well as special events. Clark Lane Middle School's athletic and educational programs utilize the park on a year round basis, as well as scout groups and the general public. The town's dog park is located here which is extensively used by the public. An accessible walkway to the dog park and bathroom to be included.
2	**PROJECT STATUS IF IN PROGRESS**
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicabl**
	Maintenance of a seasonal bathroom. Maintenance staff currently visits the park for trash and dog waste. Cleaning products and time will impact the R&P budget. Facility utilities would impact the Public Works/Building budget.
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if**
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	Attached. Plan cost is $8,000 to design the walkway. Project to include a restroom so awaiting a new quote for services from engineer.

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital		10,500				
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	0	10,500	0	0	0	0

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY	**CONTACT PERSON**
Recreation and Parks	Ryan McNamara
PROJECT NAME	**DEPARTMENT PRIORITY**
Civic Triangle Improvements	2

1 DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)

The need to update parks with athletic field irrigation, new dedicated pickleball and basketball court surface repairs, and park alterations can be justified for several reasons:

1. Safety and Quality of Life: Upgrading the playground ensures that children have a safe and enjoyable place to play, enhancing the quality of life for families in the community.
2. Physical Activity and Health: New athletic field irrigation allows for better maintenance, ensuring that the fields are playable year-round and encouraging physical activity among residents, which is vital for public health.
3. Sports Facilities: New tennis and basketball court surfaces provide opportunities for residents of all ages to engage in recreational and competitive sports, fostering physical fitness and community engagement.
4. Inclusivity: Modernizing the park can include features designed for people with disabilities, ensuring that everyone in the community has equal access to recreational opportunities.
5. Community Building: A well-maintained park serves as a focal point for the community, where residents can socialize, participate in events, and build a stronger sense of unity.
6. Economic Benefits: Improved parks can attract visitors, potentially boosting local businesses through increased tourism and event hosting.
7. Environmental Sustainability: Updated irrigation systems can use water more efficiently, reducing waste and contributing to environmental sustainability.
8. Property Values: Upgraded parks and sports facilities can have a positive impact on nearby property values, benefiting homeowners in the area.
9. Education and Skill Development: Playgrounds and sports facilities provide opportunities for children to develop essential skills, including physical, social, and cognitive abilities.
10. Increased Usage: High-quality facilities are more likely to be used by residents, resulting in a better return on the community's investment.
11. Competitive Advantage: Attractive parks and sports amenities can give the community a competitive advantage in attracting new residents, businesses, and investment.

2 PROJECT STATUS IF IN PROGRESS

Plans and most estimates received.

3 LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST

Civic Triangle Phase I and Town-Wide Post-Tension concrete court surfacing for basketball and pickleball.

4 DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)

Portable fencing will alleviate some of the trimming required at the fence lines. The removal of the fencing allows for multi-purpose events and activities at the park that the current fencing prohibits. Considering all of the activity and opportunity, scheduling of the areas will require a bit more coordination.

5 GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)

Returned $132,000 from CIP Basketball Court Resurfacing to provide cost savings when projects being on same site. Town Hall portion and Leary portion contain pickleball and basketball courts on the property. Court material justification and rationale stated above.

6 ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)

Fencing removal, light pole plan replacement/update, walkways, Veterans garage, irrigation/water element

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital		Vets Field Adjustments $35,450	Lighting & Walkways	Irrigation		
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	0	0	0	0	0	0

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY	**CONTACT PERSON**
Recreation and Parks	Ryan McNamara
PROJECT NAME	**DEPARTMENT PRIORITY**
Waterford Beach Park Garage Update	2

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	WBP Garage and gatehouse – relocating the maintenance operations from the Civic Triangle Veterans Garage to the Waterford Beach Park garage is an approach to solve the following: 1. Space efficiency: A smaller footprint garage would make more efficient use of limited space within the town park, freeing up areas for recreational and green locations, benefitting the community as a whole. 2. Environmental Impact: Reduced space requirements can lead to less disruption to the park's natural environment. This is especially important as the park provides sensitive ecosystems and wildlife habitats. 3. Aesthetic Improvement: A smaller garage can be designed to blend more harmoniously with the park's surroundings, improving the overal aesthetic appeal of the area. 4. Noise Reduction: Main operations will transfer to WBP, allowing reduced noise pollution in the Civic Triangle for enhancing the tranquility and enjoyment of the park visitors. 5. Community Engagement: The relocation of the operations will allow for the freed up space to be repurposed for community events, outdoor activities, or other amenities fostering a stronger sense of community. 6. Safety: Fewer vehicles will be moving in and out of the park, reducing the risk of accidents and enhancing the safety for park visitors.
2	**PROJECT STATUS IF IN PROGRESS**
	Outdoor Site Area plans underway
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
	Civic Triangle Improvements
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
	The maintenance headquarters are essentially moving from the Civic Triangle to Waterford Beach Park. In order to facilitate the Civic Triangle Park improvements and aesthetics of the envisioned park, maintenance headquarters needed a new location.
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	Attached Parking Boxx options and Plan being developed.
7	**COST/FUNDING SOURCE**

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR			750,000	750,000		
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	0	0	750,000	750,000	0	0

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Recreation and Parks	**CONTACT PERSON** Ryan McNamara
PROJECT NAME Jordan Park House Parking Lot Improvements	**DEPARTMENT PRIORITY** 4

1 DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)

Enlarging a parking lot to allow for accessible parking and emergency access and egress is an important step in ensuring that everyone can safely and easily access the facilities. Here are some reasons why enlarging a parking lot for these purposes is a good idea:
1. Compliance with the Americans with Disabilities Act (ADA): The ADA requires that all public facilities, including parking lots, be accessible to people with disabilities. Enlarging the parking lot to allow for more accessible parking spaces is one way to ensure that the facility is compliant with the ADA standards1.
2. Increased accessibility: Enlarging the parking lot to allow for more accessible parking spaces makes the facility more accessible to people with disabilities, including those who use wheelchairs or other mobility devices. This can help to increase the number of visitors to the facility and make it a more inclusive space for everyone1.
3. Improved safety: Enlarging the parking lot to allow for emergency access and egress can help to improve safety in the facility by providing a clear path for emergency vehicles to enter and exit the area. This can help to prevent accidents and injuries, especially in the event of an emergency2.
4. Enhanced visitor experience: Enlarging the parking lot to allow for more accessible parking spaces can enhance the visitor experience by making it easier for people to navigate the facility and use its amenities. This can help to create a more positive experience for visitors and encourage them to return to the facility in the future3.
In conclusion, enlarging a parking lot to allow for accessible parking and emergency access and egress is a smart investment that can help to improve safety, accessibility, and visitor experience.

2 PROJECT STATUS IF IN PROGRESS

3 LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST

4 DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)

5 GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)

6 ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)

Plan cost $8,500 to peform scope

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital		8,500				
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	0	8,500	0	0	0	0

TOWN OF WATERFORD
CAPITAL IMPROVEMENT PLAN
PROJECT CONSOLIDATION FORM FY 2025-2029

	DEPARTMENT/ AGENCY:	INFORMATION TECHNOLOGY						
DEPT PRIORITY	PROJECT NAME	FUNDING SOURCE	FISCAL YEAR 2024-2025	FISCAL YEAR 2025-2026	FISCAL YEAR 2026-2027	FISCAL YEAR 2027-2028	FISCAL YEAR 2028-2029	TOTAL
1	COMPUTER REPLACEMENTS	3	40,528	38,144	39,336	40,528		158,536
2	CONTENT FILTER UPGRADE REPLACEMENT	1	15,163					15,163
3	SERVER UPGRADE REPLACEMENT	3		241,492				241,492
								0
								0
								0
								0
								0
								0
								0
	TOTALS		55,691	279,636	39,336	40,528	0	415,191

1 CURRENT YEAR CAPITAL IMPROVEMENTS
2 UTILITY BUDGET/SEWER CAPITAL MAINTENANCE FUND
3 TRANSFER TO CAPITAL & NONRECURRING.
4 SHORT AND LONG TERM DEBT FINANCING
5 LoCIP
6 CNR UNDESIGNATED FUND BALANCE
7 FEDERAL/STATE GRANTS
8 OTHER FUNDING

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY	**CONTACT PERSON**
INFORMATION TECHNOLOGY	JEFFREY ROBILLARD
PROJECT NAME	**DEPARTMENT PRIORITY**
SERVER UPGRADE REPLACEMENT	3

1 DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)

The request for three servers is to replace the three current aging virtual hosts. It is vital that all the hosts have identical hardware specifications down to the manufacturer ensuring the virtual servers can migrate from one host to another without compatibility issues, thus it is important to replace them all at the same time. These hosts will provide the backbone of our virtual infrastructure for another 6 years.

2 PROJECT STATUS IF IN PROGRESS

3 LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST

4 DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)

5 GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)

6 ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR			241,492			
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**0**	**0**	**241,492**	**0**	**0**	**0**

TOTAL COMMUNICATIONS

Server Quote - Budgetary

Itemized Pricing

Quote Prepared For: Town of Waterford

QUOTE EXPIRED: 8/7/2022

CPE MATERIAL

QTY	PART NUMBER	DESCRIPTION	UNIT PRICE	TOTAL PRICE
	Base Quote			
1	UCS-M6-MLB	UCS M6 RACK, BLADE MLB	-	-
3	UCSC-C240-M6S	UCS C240 M6 Rack w/o CPU, mem, drives, 2U wSFF HDD backplane	3,704.59	11,113.76
3	CON-SNT-UCSCC20S	SNTC-8X5XNBD UCS C240 M6 Rack w/o CPU, mem, drives, 2	3,657.15	10,971.45
3	UCSC-ADGPU-240M6	C240M6 GPU Air Duct 2USFF/NVMe (for DW/FL only)	58.56	175.69
3	CIMC-LATEST	IMC SW (Recommended) latest release for C-Series Servers.	-	-
6	UCS-M2-240GB	240GB SATA M.2	418.43	2,510.55
3	UCS-M2-HWRAID	Cisco Boot optimized M.2 Raid controller	184.03	552.08
3	UCSX-TPM-002C	TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified, for M6 servers	46.33	138.98
3	N20-BKVM	KVM local IO cable for UCS servers console port	-	-
3	UCSC-RAIL-M6	Ball Bearing Rail Kit for C220 & C240 M6 rack servers	188.26	564.79
36	UCSC-BBLKD-S2	UCS C-Series M5 SFF drive blanking panel	-	-
48	UCS-DIMM-BLK	UCS DIMM Blanks	-	-
3	UCSC-RIS2A-240M6	C240 / C245 M6 Riser2A; (x8;x16;x8);StBkt; (CPU2)	-	-
3	UCSC-RIS1A-240M6	C240 M6 Riser1A; (x8;x16x, x8); StBkt; (CPU1)	-	-
6	UCSC-HSLP-M6	Heatsink for 1U/2U LFF/SFF GPU SKU	-	-
3	UCSC-M2EXT-240M6	C240M6 / C245M6 2U M.2 Extender board	-	-
3	UCSC-SATAIN-240M6	C240M6 SATA Interposer board (2U)	-	-
3	CBL-SATA-C240M6	SATA cable C240M6 (2U)	-	-
6	CBL-GPU-C240M6	Y TYPE GPU POWER Cable for A10 GPU, C240M6 and C245M6	-	-
6	UCS-CPU-I5315Y	Intel 5315Y 3.2GHz/140W 8C/12MB DDR4 2933MHz	2,365.16	14,190.98
48	UCS-MR-X64G2RW	64GB RDIMM DRx4 3200 (16Gb)	3,314.78	159,109.20
3	UCSC-RIS3A-240M6	C240 M6 Riser3A (x8;x8); StBkt; (CPU2)	210.84	632.51
3	UCSC-P-ID10GC	Cisco-Intel X710T2LG 2x10 GbE RJ45 PCIe NIC	1,156.65	3,469.95
3	UCSC-P-ID10GC	Cisco-Intel X710T2LG 2x10 GbE RJ45 PCIe NIC	1,156.65	3,469.95
6	UCSC-PSU1-1050W	Cisco UCS 1050W AC Power Supply for Rack Server	422.20	2,533.20
6	CAB-9K12A-NA	Power Cord, 125VAC 13A NEMA 5-15 Plug, North America	-	-
0	MSWS-22-DC16C-RM	Windows Server 2022 DC (16Cores/Unlim VM) Rec Media DVD Only	-	-
3	UCS-SID-INFR-OI	Other Infrastructure	-	-
3	UCS-SID-WKL-OW	Other Workload	-	-
1	DC-MGT-OPTOUT	Intersight Opt Out	-	-
3	DG7GMGF0D65N0002COM	WINDOWS SERVER 2022 DATACENTER VLIC 16 CORE COMMERCIAL	7,352.79	22,058.36

PROJECT SUMMARY

Material Summary	231,491.44
Labor Summary	10,000.00
Subtotal	241,491.44
Total Customer Price	241,491.44

* All work to be performed during normal business hours Monday through Friday between 8:00am and 5:00pm unless otherwise specified.
* Additional taxes may apply to both upfront and monthly charges and vary by location.

The bridge to possible

Cisco UCS C240 M6 Rack Server

High performance for data-intensive applications

The Cisco UCS C240 M6 Rack Server is well-suited for a wide range of storage and I/O-intensive applications such as big data analytics, databases, collaboration, virtualization, consolidation, and high-performance computing in its two-socket, 2RU form factor.

The Cisco UCS C240 M6 Server extends the capabilities of the Cisco UCS rack server portfolio with 3rd Gen Intel Xeon Scalable Processors supporting more than 43 percent more cores per socket and 33 percent more memory when compared with the previous generation. This provides up to 40 percent more performance than the M5 generation for your most demanding applications.

You can deploy the Cisco UCS C-Series rack servers as standalone servers or as part of the Cisco Unified Computing System managed by Cisco Intersight, Cisco UCS Manager, or Intersight Managed Mode to take advantage of Cisco® standards-based unified computing innovations that can help reduce your Total Cost of Ownership (TCO) and increase your business agility.

These improvements deliver significant performance and efficiency gains that will improve your application performance. The Cisco UCS C240 M6 Rack Server delivers outstanding levels of expandability and performance.

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Benefits

- Do more with less by taking advantage of faster CPU cores in the 3rd Gen Intel® Xeon® Scalable Processors and faster memory performance
- Decrease server Operating Expenses (OpEx) for power and cooling, management, and maintenance by consolidating older servers onto this latest generation of Cisco UCS® rack servers
- Simplify administration of your server infrastructure with Cisco Unified Computing System™ (Cisco UCS) management, freeing your IT staff to focus on mission-critical and value-added projects
- Automate rapid deployment with Cisco UCS Manager or Cisco Intersight™ Managed Mode for faster time to value

For more information

For more information about the Cisco UCS C240 M6 Rack Server, refer to the data sheet and spec sheet.

For more information about all Cisco UCS servers, go to https://www.cisco.com/go/ucs.

What it provides

- Up to two 3rd Gen Intel Xeon Scalable processors (with up to 40 cores per socket)
- Memory:
  - 32 DIMM slots (16 DIMMs per CPU socket)
  - 3200 MHz DDR4 memory plus other speeds depending on the CPU installed
  - 32 x DDR4 DIMMs for up to 8 TB of capacity using 256 GB DIMMs or
  - 16x DDR4 DIMMs + 16x Intel Optane™ persistent memory modules for up to 12 TB of memory
- Up to eight PCIe 4.0 slots plus modular LAN on Motherboard (mLOM) slot
- Support for Cisco UCS VIC 1400 Series adapters as well as third-party options
- Up to 28 SAS/SATA/NVMe disk drives
  - RAID controller options available
- M.2 boot options:
  - Up to 960 GB with optional hardware RAID
- Support for up to five GPUs

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C45-2377656-00 04/21

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY INFORMATION TECHNOLOGY	**CONTACT PERSON** JEFFREY ROBILLARD
PROJECT NAME CONTENT FILTER UPGRADE REPLACEMENT	**DEPARTMENT PRIORITY** 2

1 DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)

The current iboss content filter we are running that protects and monitors web browsing traffic to all town users is end of life. This request is to replace the hardware with the current supported model and pricing includes 3 years of service/support as part of our cyber security protection.

2 PROJECT STATUS IF IN PROGRESS

3 LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST

4 DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)

5 GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)

6 ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital		15,163				
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**0**	**15,163**	**0**	**0**	**0**	**0**

iboss
CYBERSECURITY

Iboss, Inc.
101 Federal St
23rd Floor
Boston, MA 02110

Quote Number 00046516

Account Name	Town of Waterford Police Department	Quote Name	Town of Waterford Police Department -3YR PC Core Renewal + LGN 14700-Purchased (Annual payment) v2
Payment Term	NET_30	Expiration Date	1/21/2024
		License Type	Users
Created Date	11/21/2023		
Bill To Name	Town of Waterford Police Department	Ship To Name	Town of Waterford Police Department
Bill To	41 Avery Lane Waterford, CT 06385 US	Ship To	41 Avery Lane Waterford, CT 06385 US

Product ID	Product	Line Item Description	Sales Price	Quantity	Discount (Percentage)	Total Price	Contract Start	Contract End
0	-Subscription-	IB-Core License Subscription-Private Cloud	USD 112.50	200.00	75.15%	USD 5,591.25	10/2/2024	10/1/2027
4697	IB-14700LGN-MAINT-3YR	Iboss Local Gateway Node 14700 Maintenance-3YR	USD 6,476.40	1.00	60.00%	USD 2,590.56	10/2/2024	10/1/2027
4208	IB-14700LGN-PURCHASE	Iboss Local Gateway Node 14700 Purchase (1U appliance)	USD 10,794.00	1.00	60.00%	USD 4,317.60		
4672	IB-ADDONCOPPERCRD-1GBY-PURCHASED	Addon-Copper 1G Bypass	USD 595.00	1.00	60.00%	USD 238.00		
4834	IB-implementation-enterprise-upgrade	Iboss Upgrade Package. Implementation Engineer (remote): Up to 4 hours	USD 2,500.00	1.00	5.00%	USD 2,375.00		

Additional Comments

Description

** To be paid in accordance with Payment Schedule, below. All payments, payment dates, and total amount due to Iboss must be documented, explicitly, on the Purchase Order.
Payment Schedule:
Payment 1 due Net 30: $5,054.12
Payment 2 due 10/01/2025: $5,054.12
Payment 3 due 10/01/2026: $5,054.12 **

** All Iboss implementation services must be consumed within 60 days from the service start date. **

Budgetary pricing only. Prices subject to change.

Summary of Fees:

iboss™
CYBERSECURITY

iboss, Inc.
101 Federal St
23rd Floor
Boston, MA 02110

Quote Number 00046516

Subtotal	USD 42,865.40
Discount	64.74%
Total Price	USD 15,112.41
Shipping and Handling	USD 49.95
Grand Total	USD 15,162.36

Legal

THE ENTITY IDENTIFIED ABOVE AS THE "BILL TO" PARTY ("PURCHASER") AGREES TO ACCEPT THIS QUOTE AND UNDERSTANDS AND AGREES THAT THIS QUOTE INCORPORATES BY REFERENCE AND SHALL BE GOVERNED BY (A) THE IBOSS TERMS OF SERVICE AGREEMENT LOCATED AT HTTPS://WWW.IBOSS.COM/TERMS/, IN THE CASE OF END USER PURCHASERS; AND (B) THE DISTRIBUTOR OR RESELLER AGREEMENT, AS APPLICABLE, CURRENTLY IN EFFECT BETWEEN IBOSS AND PURCHASER, IN THE CASE OF IBOSS DISTRIBUTORS AND RESELLERS. TO THE EXTENT THE PRE-PRINTED TERMS ON A PURCHASE ORDER OR OTHER SIMILAR DOCUMENT CONTAIN ANY TERMS AND CONDITIONS THAT ARE IN ADDITION TO, INCONSISTENT WITH OR CONFLICT WITH THE TERMS AND CONDITIONS OF THIS QUOTE OR THE FOREGOING AGREEMENTS, SUCH TERMS SHALL BE VOID.

Additionally, Iboss' Privacy Policy (located at https://www.iboss.com/terms/#privacy-policy) explains how Iboss treats personal data and protects individual privacy rights when customers use Iboss' Services. By subscribing to and using Iboss products and services, Customer agrees that Iboss may use such data according to Iboss' Privacy Policy.

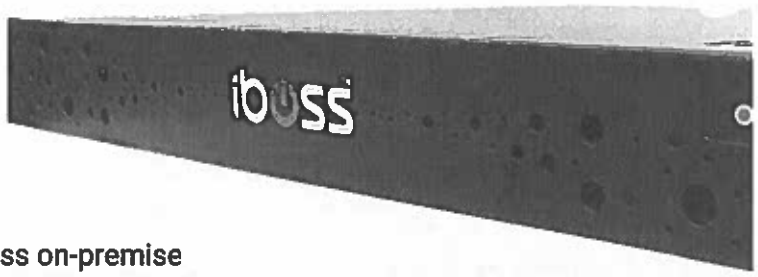
Signatures

Accepted and Agreed:

Customer	**Iboss Inc.**
_____	_____
Print Name:	**Print Name:**
Title:	**Title:**
Date:	**Date:**

Enterprise 14700

Private Cloud Gateway



The iboss 14700 Private Cloud Gateway provides seamless on-premise web gateway security to create a private cloud Point of Presence (POP). Because the private cloud is an extension of the global iboss cloud, any policies or controls configured within the iboss cloud will automatically extend into the private cloud POP.

Physical Specifications	
Form Factor	1U
Appliance Dimensions	16.87 in x 7.73 in x 14.17 in (428.6 mm x 44 mm x 360 mm)
Weight	11.45 lbs./ 5.2 kg
Hardware Specifications	
Network Interfaces	2 x Gigabit Ethernet RJ45
Throughput	• 1 Gbps • 100,000 concurrent proxy connections
Available Interfaces	• Gigabit bypass ports • Gigabit management interface • Fiber interface • 10 Gbps interface
Environmental Specifications	
Power Consumption	260 W input
Voltage	100 – 240 V AC
Input Frequency	50 – 60 Hz
Heat Dissipation	1154 BTU/h
Operating Temperature Range	5° C – 35° C (41° F – 95° F)
Humidity Range	8% – 90% (non-condensing)

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TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY	**CONTACT PERSON**
INFORMATION TECHNOLOGY	JEFFREY ROBILLARD
PROJECT NAME	**DEPARTMENT PRIORITY**
DESKTOP PC REPLACEMENTS	1

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	The town needs to purchase computers each year as part of a replacement schedule. The goal of the first two years will be to remove devices not capable of running Windows 11 (Windows 10 support ends Oct 2025). FY24(QTY 33)-Police. FY25(QTY 34)-Public Works,Utility Commission,Tax Assr,Youth Services. FY26(QTY 32)-Town Clerk,First Selectman,Human Resources,Building/Planning,Tax Collector,Registrar,Dispatch,EOC. FY27(QTY 33) Fire,Library,IT. FY28(QTY 34)-Parks and Recreation, Senior Services, Public Access Computers (Community Center&Library)
2	**PROJECT STATUS IF IN PROGRESS**
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**

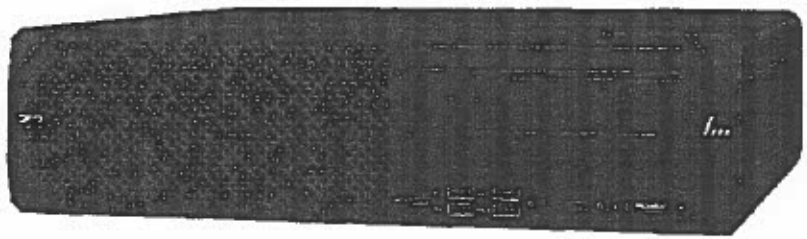
7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR	41,250	40,528	38,144	39,336	40,528	
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**41,250**	**40,528**	**38,144**	**39,336**	**40,528**	**0**

HP Z2 G9 Workstation - 1 x Intel Core i5 Tetradeca-core (14 Core) i5-13500 13th Gen 2.50 GHz - 16 GB DDR5 SDRAM RAM -

MFG.PART: 87C24UT#ABA CDW PART: 7423834 UNSPSC: 43211507

Best-Seller



~~$1,229.00~~

$1,192.00

Advertised Price

Lease Pricing Available

1

Availability: 158 units In Stock

Get it Friday, November 24 to 20146 if ordered within 7 hrs 46 mins.

Add to Cart

Buy Now

Add to Compare

Save to Favorites

Enhance your purchase

Add Accessories Add Warranty

Quick tech specs

- Intel Core i5 2.50 GHz processor provides you with a solid performance to watch videos
- play games
- its adaptability makes you more productive

- and at the sa time
- Windows 11 Pro OS smartly manages your hardware and runs routine applications efficiently
- files and critical data
- run as many programs as you want without losing the execution performance
- 512 GB SSD capacity provides ample space for important documents
- With 16 GB of memory
- Gigabit Ethernet offers great aggregate data tran

View All ↓

Know your gear

Overview | Full size Z tower power at half the size
Get all the power of a full size tower at a fraction of the size. Re-engineered to fit full-height, full-length graphics while leaving room for upgrades and expansion, the Z2 SFF delivers high performance for your intensive workflow-from 3D design to real time ray tracing-now and in the future.
Full height, full length performance
Design, simulate and real time ray trace on a Z SFF -- FHFL pro graphics and Intel® Core™ processors.
ISV Certified
Work with confidence knowing your PC is certified with leading software applications to ensure peak performance.
Configurable for today. Expandable for tomorrow.
Accelerate your current workflow with a multitude of options across processor, graphics, memory, storage, and I/O ports.
Features | Windows 11
Work anywhere without compromising on performance or security with Windows 11 powered by HP's collaboration and connectivity technology.
Intel® Core™ i5 processor
Experience powerful performance and seamless computing for your everyday tasks and higher performance needs with the Intel® Core™ i5 processor.
Security is your top priority
The HP Wolf Pro Security Edition provides preconfigured enterprise-level PC protection for small and medium sized businesses.
Smaller, Functional Design
The stunning new design features front and rear ledges, so you can easily move your system from location to location.

TOWN OF WATERFORD
CAPITAL IMPROVEMENT PLAN
PROJECT CONSOLIDATION FORM FY 2025-2029

	DEPARTMENT/ AGENCY:							
DEPT PRIORITY	PROJECT NAME	FUNDING SOURCE	FISCAL YEAR 2024-2025	FISCAL YEAR 2025-2026	FISCAL YEAR 2026-2027	FISCAL YEAR 2027-2028	FISCAL YEAR 2028-2029	TOTAL
1	District - Early Literacy Program	3	800,000					800,000.00
2	WHS - TURF Main Field	1	1,200,000	110,000	110,000	110,000	110,000	1,640,000.00
3	WHS Tennis Court Replacement	1	825,000					825,000.00
4	Energy Efficiency Project	3	243,335	243,335				486,670.00
5	HVAC Evaluation / Remediation	3	85,000					85,000.00
6	WHS - TURF Softball	3	45,000	45,000	45,000	45,000	45,000	225,000.00
7	IT - BOE Munis Implementation	3	150,000	150,000				300,000.00
	IT Chromebooks / Ipads	3		254,974	262,623	270,501	278,616	1,066,714.12
	Field House Flooring / Bleacher renovation	3		465,000				465,000.00
	Quaker Hill Heat Pump Replacement / BMS	3		165,000	165,000			330,000.00
	Quaker Hill Playground Replacement	3			189,000			189,000.00
	Oswegatchie Heat Pump Replacement / BMS	3			165,000	165,000		330,000.00
	Oswegatchie Playground Replacement	3				192,864		192,864.00
	Great Neck Heat Pump Replacement / BMS	3				165,000		165,000.00
	CLMS - Rooftop Pump Replacement	1					250,000	250,000.00
	Great Neck Playground Replacement	3					212,744	212,744.00
	IT - IT LEARNING BOARDS END OF LIFE	3				265,000		265,000.00
	IT - Virtual Server	3			325,000			325,000.00
	TOTALS		3,348,335.00	1,433,308.52	1,261,622.73	1,213,365.41	896,360.45	8,152,992.12

INDEX TO FUNDING SOURCES,

1 CURRENT YEAR CAPITAL IMPROVEMENTS
2 UTILITY BUDGET/SEWER CAPITAL MAINTENANCE FUND
3 TRANSFER TO CAPITAL & NONRECURRING.
4 SHORT AND LONG TERM DEBT FINANCING
5 LoCIP
6 CNR UNDESIGNATED FUND BALANCE
7 FEDERAL/STATE GRANTS
8 OTHER FUNDING

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY	**CONTACT PERSON**
Board of Education	Joseph Mancini
PROJECT NAME	**DEPARTMENT PRIORITY**
District Early Literacy	1

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	State mandated PK-5 Reading Program, an application for a waiver has been submitted and at the present time the application status is (XYZXYZ). This expenditure is for a full reading curriculum from one of the state approved lists, it includes all material as well as professional development support for this implementation.
2	**PROJECT STATUS IF IN PROGRESS**
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
	None
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	None

7	**COST/FUNDING SOURCE**						
	FUNDING SOURCE	**APPROVED FUNDING TO DATE**	**FY2025**	**FY2026**	**FY2027**	**FY2028**	**FY2029**
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR		800,000				
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**0**	**800,000**	**0**	**0**	**0**	**0**

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY	**CONTACT PERSON**
Board of Education	Joseph Mancini
PROJECT NAME	**DEPARTMENT PRIORITY**
Turf Field and Track Rehabilitation	2

1 DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)

The average life expectancy of a turf field is 8 - 10 years. Turf field has some advantages in that the fields are available for a higher volume of use and hypotehtically are available year round with significantly less maintenance and the added benefit of reduced impact injuries. The expected cost of this rehabilition is around $1,200,000 and would take place in within the next 18-24 months. The costs for rehabilitation is dependent on the several factors. Once a recommendation comes forward on the type of field, we will target a field to last 12 years. This field was first put into use in the fall of 2012.

2 PROJECT STATUS IF IN PROGRESS

3 LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST

4 DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)

None

5 GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)

6 ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)

None

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital		1,200,000				
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR			110,000	110,000	110,000	110,000
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**0**	**1,200,000**	**110,000**	**110,000**	**110,000**	**110,000**

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY	**CONTACT PERSON**
Board of Education	Joseph Mancini
PROJECT NAME	**DEPARTMENT PRIORITY**
Tennis Court Replacement	3

1 DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)

Presently there are 6 asphalt tennis courts at Waterford High School. The courts had been patched and painted in 2021 and cracks have redeveloped and expanded. This request is to replace the asphalt courts with post tension concrete, the fencing around the courts, and the sidewalk. The courts measure to 273' and using USTA and ASBA guidelines this request would reduce the number of courts from 6 to 5. In order to maintain 6 courts, the site would need to be expanded to 300' and would increase the cost to $1.1M. We are not certain that the courts will be available for competitive use in the 2024 season and are making arraignments to play elsewhere.

2 PROJECT STATUS IF IN PROGRESS

3 LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST

4 DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)

None

5 GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)

6 ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)

None

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital	1	825,000				
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**1**	**825,000**	**0**	**0**	**0**	**0**

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY	**CONTACT PERSON**
Board of Education	Joseph Mancini
PROJECT NAME	**DEPARTMENT PRIORITY**
Energy Efficiency Project	4

1 DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)

This is the on bill financing for the energy efficiency project that the Board of Education performed in 2022. During the 2023 budget cycle this was moved out of the operating budget and recommended that it be moved to Capital. The financing was done at zero percent interest and the project covered new LED lighting in all five schools, improved transformers, VFD's for the kitchens, and other energy savings.

2 PROJECT STATUS IF IN PROGRESS

3 LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST

4 DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)

None

5 GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)

6 ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)

None

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR	243,335	243,335	243,335			
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**243,335**	**243,335**	**243,335**	**0**	**0**	**0**

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY	**CONTACT PERSON**
Board of Education	Joseph Mancini
PROJECT NAME	**DEPARTMENT PRIORITY**
HVAC Evaluation and Remediation	5

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	The State of Connecticut is requiring all schools to have a thorough HVAC inspection once every 5 years. The estimated costs for this project are $60,000 for the inspection itself and $25,000 in remediations.
2	**PROJECT STATUS IF IN PROGRESS**
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
	None
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	None

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR		85,000				
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**0**	**85,000**	**0**	**0**	**0**	**0**

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY	**CONTACT PERSON**
Board of Education	Joseph Mancini
PROJECT NAME	**DEPARTMENT PRIORITY**
Turf Field and Track Rehabilitation	6

1 DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)

The average life expectancy of a turf field is 8 - 10 years. Turf field has some advantages in that the fields are available for a higher volume of use and hypotehtically are available year round with significantly less maintenance and the added benefit of reduced impact injuries. This field was replaced in

2 PROJECT STATUS IF IN PROGRESS

3 LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST

4 DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)

None

5 GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)

6 ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)

None

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR			110,000	110,000	110,000	110,000
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**0**	**0**	**110,000**	**110,000**	**110,000**	**110,000**

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY	**CONTACT PERSON**
Board of Education	Joseph Mancini
PROJECT NAME	**DEPARTMENT PRIORITY**
IT - BOE Munis Implementation	7

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	The ERP used by the board of education is no longer going to be supported. We are recommending making the transition to the same software that the town uses. An ERP handles all of the accounting for the district
2	**PROJECT STATUS IF IN PROGRESS**
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
	None
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	None

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR		150,000	150,000			
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	0	150,000	150,000	0	0	0

TOWN OF WATERFORD
GENERAL FUND
2025 - 2029 CAPITAL IMPROVEMENT PLAN (CIP) BUDGET

DEPT/AGENCY: 10138 CURRENT YEAR CAPITAL IMPROVEMENTS

LINE ITEM	DESCRIPTION	2022/2023 ACTUAL EXPENDED	2023/2024 RTM APPROP.	ACTUAL EXPEND/ ENCUMB AS OF 1/1/24	FY 2025 DEPT/ AGENCY REQUEST	2024/2025 BOS APPROVED (2/6/24)	FY-2025	FY-2026	FY-2027	FY-2028	FY-2029
BOARD OF SELECTMEN:											
55738	FLEET MANAGEMENT PLAN	800,000	1,000,000		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
SUBTOTAL BD. OF SELECTMEN		800,000	1,000,000	0	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
EMERGENCY MANAGEMENT											
55908	APCO INTELLICOM GUIDECARD SYSTEM	0	40,000								
55909	EVENTIDE NEXLOGDX RECORDER	0	88,701								
SUBTOTAL EMERGENCY MANAGEMENT		0	128,701	0	0	0	0	0	0	0	0
FIRE SERVICES:											
NEW	COHANZIE SKYLIGHT REPLACEMENT		30,000		30,000	30,000	30,000				
NEW	JORDAN - BATHROOM RENOVATIONS							65,000			
NEW	JORDAN BUNK ROOM RENOVATIONS							55,000			
NEW	QUAKER HILL ROOF REPLACEMENT							50,000			
NEW	GOSHEN ROOF REPLACEMENT										
SUBTOTAL FIRE DEPARTMENT		0	30,000	0	30,000	30,000	30,000	170,000	0	0	0
INFORMATION TECHNOLOGY:											
55910	NEXGEN TRANSITION	0	309,520								
NEW	CONTENT FILTER UPGRADE/REPLACEMENT				15,163	15,163	15,163				
SUBTOTAL INFORMATION TECHNOLOGY		0	309,520	0	15,163	15,163	15,163	0	0	0	0
MUNICIPAL BUILDINGS MAINTENANCE:											
55803	PARKING LOT - YSB & POLICE							600,000			
57857	CIVIC TRIANGLE UPGRADES	160,599									
55819	UNDERGROUND TANK REPLACMENT	145,036									
55892	AC UNIT REPLACEMENT AT EMERGENCY RADIO SITES	5,789									
55893	EUGENE O'NEILL MANSION ROOF REPLACEMENT (co-funded with Eugene O'Neill)	14,100									
55903	FISH LADDER REPAIR	16,000									
55912	TOWN DOCK REPLACEMENT		40,000								
NEW	EUGENE O'NEILL SEWER PROJECT				153,000	153,000	153,000				
55913	JORDAN PARK HOUSE REPAIRS		25,000								
55905	UST REPLACEMENT (LIBRARY & PUBLIC SAFETY)	27,114									
SUBTOTAL MUNICIPAL BUILDINGS MAINTENANCE		368,638	108,500	0	153,000	153,000	153,000	600,000	0	0	0

TOWN OF WATERFORD
GENERAL FUND
2025 - 2029 CAPITAL IMPROVEMENT PLAN (CIP) BUDGET

DEPT/AGENCY: 10138 CURRENT YEAR CAPITAL IMPROVEMENTS

LINE ITEM	DESCRIPTION	2022/2023 ACTUAL EXPENDED	2023/2024 RTM APPROP.	ACTUAL EXPEND/ ENCUMB AS OF 1/1/24	FY 2025 DEPT/ AGENCY REQUEST	2024/2025 BOS APPROVED (2/6/24)	FY-2025	FY-2026	FY-2027	FY-2028	FY-2029
POLICE DEPARTMENT:											
55897	CELL BENCH SAFETY OVERLAY	19,596	0								
55898	DE-ESCALATION & COMMUNICATION TECHNOLOGY	22,085	0								
55899	ELECTRONIC CONTROL WEAPON TRANSIITON	29,345	0								
NEW	CELL BLOCK UPDATE				25,575	25,575	25,575				
NEW	KITCHEN RENOVATION								35,000		
NEW	MARINE UNIT UPDATES							40,000			
NEW	FIREARMS/LASER SITE TRANSITION				53,289	53,289	53,289				
55859	ARCHITECTURAL PLANS	15,000	0								
55846	POLICY DIRECTIVE REVAMP	10,045	0								
55878	IMPOUND YARD IMPROVEMENTS	28,500	0								
55879	MARINE OUTBOARD MOTORS	38,500	0								
SUBTOTAL POLICE DEPARTMENT		163,071	0	0	78,864	78,864	78,864	40,000	35,000	0	0
PUBLIC WORKS:											
	BRIDGES/CULVERTS (OVER 20 FT)										
55911	BLOOMINGDALE RD/HUNTS BROOK		15,000								
NEW	OLD NORWICH RD/HUNTS BROOK								90,000		
	CONCRETE CURB REPLACEMENT										
55901	SANDY HOLLOW & SHORE ROADS	10,721	0								
	SIDEWALK REPLACEMENT										
NEW	NIANTIC RIVER ROAD				25,000	25,000	25,000				
55882	Norman/Concrete Panels	1,093									
55883	William Street/Concrete Sidewalk	875									
55884	Summer Street/Concrete Sidewalk	875									
55885	David Street/Concrete Sidewalk	875									
55886	Cross Road/Asphalt	69,800									
	ROAD RESURFACING/PAVING										
55889	Section A, Area 1(P) - (Olive, Vivian Ct, Orient, Louse, Monroe)	82,591									
55890	EVERSOURCE AFFECTED (PENNICOTT, TANGLEWYLDE, SENKOW, DAYTON, LAUREL GLENN)	0									
	MISCELLANEOUS										
55914	ROTARY LIFT REPLACEMENTS		75,000								
NEW	RETAINING WALLS							35,000			
NEW	EV CHARGING STATIONS								21,000		
NEW	DUMPSTERS/ENCLOSURES								25,000		
NEW	TRAFFIC SIGNALS							35,000		250,000	250,000
NEW	ROAD RISK ASSESSMENT										
NEW	ROADSIDE BARRIERS								50,000		50,000
NEW	MAJOR ROAD INSTERSECTION REALIGNMENT									55,000	
55891	TRANSFER STATION	102,083						125,000			
55867	REMOVE UNDERGROUND UST-Cohanzie Fire	116,635									
55850	CROSS RD	292,148									
SUBTOTAL PUBLIC WORKS		677,696	90,000	0	25,000	25,000	25,000	195,000	186,000	305,000	300,000

TOWN OF WATERFORD
GENERAL FUND
2025 - 2029 CAPITAL IMPROVEMENT PLAN (CIP) BUDGET

DEPT/AGENCY: 10138 CURRENT YEAR CAPITAL IMPROVEMENTS

LINE ITEM	DESCRIPTION	2022/2023 ACTUAL EXPENDED	2023/2024 RTM APPROP.	ACTUAL EXPEND/ ENCUMB AS OF 1/1/24	FY 2025 DEPT/ AGENCY REQUEST	2024/2025 BOS APPROVED (2/6/24)	FY-2025	FY-2026	FY-2027	FY-2028	FY-2029
RECREATION & PARKS:											
NEW	STENGER PARK BATHROOM & WALKWAY				10,500	10,500	10,500				
NEW	JORDAN PARK HOUSE PARKING LOT										
NEW	CIVIC TRIANGLE IMPROVEMENTS										
SUBTOTAL RECREATION & PARKS		0	0	0	10,500	10,500	10,500	0	0	0	0
UTILITY COMMISSION:											
55906	WUC BILLING SOFTWARE	125,280									
55019	CONTRACT #1 SEWER INTERCEPTOR		250,000					500,000	400,000	300,000	
NEW	SMALL METAL STORAGE BUILDING										
NEW	MAINTENANCE FACILITY IMPROVEMENTS							80,340			
55870	CCTV CAMERA & LATERAL LAUNCHING SYSTEM	630									
55894	CONTROL PANEL RETRO-FIT (GORMAN-RUPP STATION)										
55895	ROOF & SIDING REPLACEMENT (EXTERIOR IMPROVEMENTS)	21,968						50,000	50,000		
55871	EVERGREEN PUMP STATION	218,236									
55821	IN-LINE WASTEWATER SOLIDS GRINDERS	8,436									
SUBTOTAL UTILITY COMMISSION		374,550	250,000	0	0	0	0	630,340	450,000	300,000	0
BOARD OF EDUCATION:											
SUBTOTAL BOARD OF EDUCATION:		0	0	0	0	0	0	0	0	0	0
TOTAL BUDGET		2,383,955	1,916,721	0	1,312,527	1,312,527	1,312,527	2,635,340	1,671,000	1,605,000	1,300,000
LESS: GRANTS/OTHER REVENUE (OTHER OFFSETS)											
TOTAL OFFSETS		0	0	0	0	0	0	0	0	0	0
TOTAL GENERAL FUND APPROPRIATION		2,383,955	1,916,721	0	1,312,527	1,312,527	1,312,527	2,635,340	1,671,000	1,605,000	1,300,000

TOWN OF WATERFORD
GENERAL FUND
2024-2028 CNR BUDGET

DEPT/AGENCY: **10140 TRANSFERS TO CAPITAL AND NON-RECURRING EXPENDITURE FU**

LINE ITEM	DESCRIPTION	2022/2023 ACTUAL EXPENDED	2023/2024 RTM APPROP.	ACTUAL EXPEND/ ENCUMB AS OF 1/1/24	FY 2025 DEPT/ AGENCY REQUEST	2024/2025 BOS APPROVED	FY-2025	FY-2026	FY-2027	FY-2028	FY-2029
ASSESSOR											
57639	REVALUATION	145,854	75,000		125,000	125,000	125,000	125,000	100,000	100,000	100,000
SUBTOTAL ASSESSOR:		**145,854**	**75,000**	**0**	**125,000**	**125,000**	**125,000**	**125,000**	**100,000**	**100,000**	**100,000**
FIRE SERVICES											
57777	FIRE SERVICE - SCBA UPGRADE PROGRAM		64,000								-
57836	CARPET REPLACEMENT										
57837	HYDRALAULIC EQUIPMENT UPGRADE										
57838	PRE EMPTION LIGHT REPAIRS										
57792	OSWEGATCHIE - BUILDING RENOVATIONS										
57825	FIRE DEPT- FIRE STATION TELEPHONE SYSTEM										
57826	FIRE DEPT- HYDRAULIC EQUIPMENT										
55847	COHANZIE - ROOF REPLACEMENT										
NEW	GOSHEN ROOF REPLACEMENT				60,000	60,000	60,000	60,000	65,000		
57811	GOSHEN RESTROOM RENOVATIONS										
SUBTOTAL FIRE SERVICES:		**0**	**64,000**	**0**	**60,000**	**60,000**	**60,000**	**60,000**	**65,000**	**0**	**0**
INFORMATION TECHNOLOGY											
57882	COMPUTER REPLACEMENTS	0	42,250		20,264	20,264	20,264	48,276	49,468	40,528	20,264
NEW	SERVER UPGRADE/REPLACEMENT							241,492			
SUBTOTAL INFORMATION TECHNOLOGY:		**0**	**42,250**	**0**	**20,264**	**20,264**	**20,264**	**289,768**	**49,468**	**40,528**	**20,264**
MUNICIPAL BUILDINGS MAINTENANCE											
57870	MAGO POINT IMPROVEMENTS	6,375									
57871	POLICE DEPT BLDG HVAC				40,000	40,000	40,000	130,000	750,000		750,000
57740	COHANZIE REMIDIATION/DEMOLITION							30,000	500,000		750,000
NEW	PUBLIC SAFETY COMPLEX HVAC				100,000	100,000	100,000	300,000	800,000		300,000
NEW	EUGENE O'NEILL BUILDING MAINTENANCE							25,000	25,000	25,000	25,000
NEW	COMMUNITY CENTER CHILLER REPLACEMENT										
NEW	POLICE DEPT BLDG/EUGENE ONEAL ROOFS							300,000	800,000		300,000
NEW	LIBRARY ROOF REPLACEMENT								750,000		
NEW	COMMUNITY CENTER ROOF REPLACEMENT										750,000
SUBTOTAL MUNICIPAL BUILDINGS MAINTENANCE		**6,375**	**0**	**0**	**140,000**	**140,000**	**140,000**	**785,000**	**3,625,000**	**25,000**	**2,875,000**
POLICE DEPARTMENT											
NEW	LOCKER ROOM LOCKERS (3 YEAR PLAN)				0					73,000	73,000
SUBTOTAL POLICE DEPARTMENT		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**73,000**	**73,000**

TOWN OF WATERFORD
GENERAL FUND
2024-2028 CNR BUDGET

DEPT/AGENCY: 10140 TRANSFERS TO CAPITAL AND NON-RECURRING EXPENDITURE FU

LINE ITEM	DESCRIPTION	2022/2023 ACTUAL EXPENDED	2023/2024 RTM APPROP.	ACTUAL EXPEND/ ENCUMB AS OF 1/1/24	FY 2025 DEPT/ AGENCY REQUEST	2024/2025 BOS APPROVED	FY-2025	FY-2026	FY-2027	FY-2028	FY-2029
PUBLIC WORKS											
NEW	MINOR ROAD CONSTRUCTION								35,000		600,000
57867	NIANTIC RIVER SIDEWALK PLAN	35,000						650,000	200,000	175,000	600,000
NEW	MILLSTONE EAST CONCRETE SIDEWALKS										2,900,000
NEW	HUNTSBROOK BRIDGE										
57868	BRIDGE ENGINEERING PLAN	35,000									
NEW	PAVING PROJECTS										
SUBTOTAL PUBLIC WORKS		70,000	0	0	0	0	0	650,000	235,000	175,000	4,100,000
RECREATION & PARKS											
NEW	TOWN-WIDE POST TENSION COURT SURFACING							525,000	525,000	525,000	525,000
57878	REPAIR PLEASURE BEACH ACCESS WALK				145,000	145,000	145,000				
NEW	WATERFORD BEACH GARAGE							750,000	750,000		
SUBTOTAL REC & PARKS		0	0	0	145,000	145,000	145,000	1,275,000	1,275,000	525,000	525,000
UTILITIES COMMISSION:											
NEW	WATER PRESSURE IMPROVEMENTS (BLOOMINGDALE RD)							600,000	600,000		
57881	WATER DISTR-PLASTIC SVCS REPLACEMENT		550,000		100,000	100,000	100,000	625,000	625,000	625,000	625,000
NEW	RT85 WASTEWATER PS POWER CONVVERSION										
NEW	WEIMES & MARILYN EJECTOR REPLACEMENT				19,800	19,800	19,800	500,000	500,000	500,000	
NEW	PLEASURE BEACH WATER LINE REPLACMENT							706,800	706,800	706,800	706,800
NEW	BARLETT CORNER PS DECOMMISSION							164,850			
SUBTOTAL UTILITIES COMMISSION		0	550,000	0	119,800	119,800	119,800	2,596,650	2,431,800	1,831,800	1,331,800
BOARD OF EDUCATION											
57833	TENNIS COURTS							110,000	110,000	110,000	110,000
57820	WHS - TURF FIELD AND TRACK (10-YEAR PLAN)									265,000	
57822	IT LEARNING BOARDS-END OF LIFE								325,000		
57827	IT VITUAL DESKTOP MAIN PROCESSOR							100,000	30,000	30,000	30,000
NEW	SCHOOL PROPERTY MAINTENANCE							254,974	262,623	270,501	278,616
NEW	CHROMEBOOK/IPAD REPLACEMENT PLAN				243,335	243,335	243,335	243,335			
NEW	ENERGY EFFICIENCY PROGRAM				85,000	85,000	85,000				
NEW	HVAC EVALUATION/REMIDATION (DISTRICT)							45,000	45,000	45,000	45,000
NEW	WHS - TURF SOFTBALL							465,000			
NEW	FIELD HOUSE FLOORING/BLEACHER RENO								189,000		
NEW	QUAKER HILL PLAYGROUND REPLACEMENT									192,864	
NEW	OSWEGATCHIE PLAYGROUND REPLACEMENT										212,744
NEW	GREAT NECK PLAYGROUND REPLACEMENT							165,000	165,000		
NEW	QUAKER HILL HEAT PUMP								165,000	165,000	
NEW	OSWEGATCHIE HEAT PUMP REPLACEMENT									165,000	
NEW	GREAT NECK HEAT PUMP REPLACEMENT										

TOWN OF WATERFORD
GENERAL FUND
2024-2028 CNR BUDGET

DEPT/AGENCY: 10140 TRANSFERS TO CAPITAL AND NON-RECURRING EXPENDITURE FU

LINE ITEM	DESCRIPTION	2022/2023 ACTUAL EXPENDED	2023/2024 RTM APPROP.	ACTUAL EXPEND/ ENCUMB AS OF 1/1/24	FY 2025 DEPT/ AGENCY REQUEST	2024/2025 BOS APPROVED	FY-2025	FY-2026	FY-2027	FY-2028	FY-2029
NEW	CLMS ROOFTOP PUMP REPLACEMENT										250,000
NEW	BOE MUNIS IMPLEMENTATION							150,000	150,000		
SUBTOTAL BOARD OF EDUCATION		0	0	0	328,335	328,335	328,335	1,533,309	1,441,623	1,243,365	926,360
DEPARTMENT TOTAL		222,229	731,250	0	938,399	938,399	938,399	7,314,727	9,222,891	4,013,693	9,951,424
LESS: GRANTS/OTHER REVENUE											
TOTAL FUNDING OFFSETS		0	0	0	0	0	0	0	0	0	
TOTAL GENERAL FUND APPROPRIATION		222,229	731,250	0	938,399	938,399	938,399	7,314,727	9,222,891	4,013,693	9,951,424

TOWN OF WATERFORD
FIVE YEAR CAPITAL PLAN
FY 2025 -FY 2029

Revised 1/29/2024

LINE ITEM	DESCRIPTION	REC. FUNDING SOURCE	FY-2025 CIP	FY-2025 CNR	FY-2025 GFB	FY-2025	FY-2026	FY-2027	FY-2028	FY-2029
ASSESSOR										
57639	REVALUATION	CNR		125,000		125,000	125,000	100,000	100,000	100,000
	SUBTOTAL ASSESSOR:		-	125,000	-	125,000	125,000	100,000	100,000	100,000
BOARD OF SELECTMAN										
55738	FLEET MANAGEMENT PLAN	CIP	1,000,000			1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
	SUBTOTAL BOARD OF SELECTMAN		1,000,000	0	0	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
BUILDING MAINTENANCE										
55803	PARKING LOT (YSB & PD)	CIP					500,000	600,000	200,000	
NEW (FY25)	EUGENE O'NEILL SEWER PROJECT	CIP	153,000			153,000				
NEW (FY25)	EUGENE O'NEILL BUILDING MAINTENANCE	CNR					25,000	25,000	25,000	25,000
57871	POLICE DEPT BLDG HVAC	CNR		40,000		40,000	130,000	750,000		75,000
57740	COHANZIE REMEDIAION/DEMOLITION	CNR					30,000	500,000		750,000
NEW (FY25)	PUBLIC SAFETY COMPLEX HVAC	CNR		100,000		100,000	300,000	800,000		300,000
NEW (FY25)	POLICE DEPT BLDG/EUGENE ONEAL ROOFS	CNR					300,000	800,000		30,000
NEW (FY25)	COMMUNITY CENTER CHILLER REPLACEMENT	CNR								300,000
NEW (FY25)	LIBRARY ROOF REPLACEMENT	CNR						750,000		
	SUBTOTAL BUILDING MAINTENANCE		153,000	140,000	0	293,000	1,285,000	4,225,000	225,000	1,480,000
EMERGENCY MANAGEMENT										
NEW (FY25)	STATEWIDE RADIO SYSTEM UPGRADE	GFB			1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
	SUBTOTAL EMERGENCY MANAGEMENT	0	0	0	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
FIRE SERVICES:										
NEW (FY25)	COHANZIE SKYLIGHT REPLACEMENT	CIP	30,000							
NEW (FY24)	JORDAN - BATHROOM RENOVATIONS	CIP					65,000			
NEW (FY24)	JORDAN - BUNKROOM RENOVATIONS	CIP					55,000			
NEW (FY25)	QUAKER HILL ROOF REPLACEMENT	CIP					50,000			
NEW (FY25)	GOSHEN ROOF REPLACEMENT	CIP		60,000		60,000	60,000	65,000		
	SUBTOTAL FIRE SERVICES		30,000	60,000	0	60,000	230,000	65,000	0	0
INFORMATION TECHNOLOGY:										
NEW (FY24)	CONTENT FILTER UPGRADE/REPLACEMENT	CIP	15,163			15,163				
57882	COMPUTER REPLACEMENTS	CNR		20,264		20,264	48,276	49,468	40,528	20,264
NEW (FY24)	SERVER UPGRADE/REPLACEMENT	CNR					241,492			
	SUBTOTAL INFORMATION TECHNOLOGY		15,163	20,264	0	35,427	289,768	49,468	40,528	20,264
PLANNING:										
	SUBTOTAL PLANNING		0	0	0	0	0	0	0	0
POLICE										
NEW (FY24)	KITCHEN RENOVATION	CIP						35,000		
NEW (FY24)	CELL BLOCK RENOVATION	CIP	25,575			25,575				
NEW (FY24)	MARINE UNIT UPDATES	CIP					40,000			
NEW (FY 25)	FIREARMS/LASER SITE TRANSITION	CIP	53,289			53,289				
NEW (FY24)	LOCKER ROOM LOCKERS (3 YEAR PLAN)	CNR							73,000	73,000
	SUBTOTAL POLICE		78,864	0	0	78,864	40,000	35,000	73,000	73,000

TOWN OF WATERFORD
FIVE YEAR CAPITAL PLAN
FY 2025 -FY 2029

Revised 1/29/2024

LINE ITEM	DESCRIPTION	REC. FUNDING SOURCE	FY-2025 CIP	FY-2025 CNR	FY-2025 GFB	FY-2025	FY-2026	FY-2027	FY-2028	FY-2029
PUBLIC WORKS:										
57880	PAVING (EVERSOURCE AFFECTED)	GFB			876,759	876,759				
NEW (FY25)	OLD NORWICH RD AT HUNTS BROOK CROSSING CULVERT	CIP					15,000	90,000		
55914	ROTARY LIFT REPLACEMENTS	CIP								
55891	TRANSFER STATION (SCALE HOUSE)	CIP					125,000			
NEW (FY25)	NIANTIC RIVER ROAD SIDEWALKS	CIP	25,000			25,000				
NEW (FY24)	RETAINING WALLS	CIP					35,000			
NEW (FY24)	ROADSIDE BARRIERS	CIP						50,000		50,000
NEW (FY25)	ROAD RISK ASSESSMENT	CIP					55,000			
NEW (FY24)	EV CHARGING STATIONS	CIP						21,000		
NEW (FY24)	MAJOR ROAD INTERSECTION REALIGNMENT	CIP							55,000	
NEW (FY24)	TRAFFIC SIGNALS	CIP					35,000		250,000	250,000
NEW (FY24)	DUMPSTERS/ENCLOSURES	CIP						25,000		
NEW (FY24)	MINOR ROAD CONSTRUCTION	CNR					650,000	200,000	175,000	600,000
NEW (FY25)	MILLSTONE EAST CONCRETE SIDEWALKS	CNR					350,000	350,000	400,000	450,000
NEW (FY25)	HUNTSBROOK BRIDGE	CNR								2,900,000
NEW (FY25)	PAVING	GFB					500,000	500,000		
	SUBTOTAL PUBLIC WORKS		**25,000**	**0**	**876,759**	**901,759**	**1,765,000**	**1,236,000**	**880,000**	**4,250,000**
RECREATION AND PARKS										
NEW (FY25)	STENGER PARK WALKWAY	CIP	10,500			10,500				
NEW (FY25)	JORDAN PARK HOUSE PARKING LOT	CIP					8,500			
NEW (FY25)	CIVIC TRIANGLE IMPROVEMENTS	CIP					35,450			
NEW (FY25)	TOWN-WIDE POST TENSION COURT SURFACING	CNR					525,000	525,000	525,000	525,000
57878	REPAIR PLEASURE BEACH ACCESS WALK	CNR		145,000		145,000				
NEW (FY25)	WATERFORD BEACH GARAGE	CNR					750,000	750,000		
	SUBTOTAL PUBLIC WORKS		**10,500**	**145,000**	**0**	**155,500**	**1,318,950**	**1,275,000**	**525,000**	**525,000**
UTILITIES COMMISSION:										
NEW (FY24)	WATER PRESSURE IMPROVEMENTS (BLOOMINGDALE RD)	CNR					450,000	450,000	450,000	450,000
55019	CONTRACT 1 (SEWER INTERCEPTOR EASEMENT ACCESS	CIP					500,000	400,000	300,000	300,000
NEW (FY25)	MAINTENANCE FACILITY IMPROVEMENT	CIP					80,340			
NEW (FY25)	CONTROL PANEL RETRO-FIT (LIFT STATION)									
55895	ROOF & SIDING REPLACEMENT	CIP					50,000	50,000	50,000	
57881	WATER DISTR - PLASTIC SVCS REPLACEMENT	CNR		100,000		100,000	625,000	625,000	625,000	625,000
NEW (FY25)	RT85 WASTEWATER PS POWER CONVVERSION	CNR					502,670			
NEW (FY24)	WEIMES & MARILYN EJECTOR REPLACEMENT	CNR		19,800		19,800	500,000	500,000	500,000	
NEW (FY24)	PLEASURE BEACH WATER LINE REPLACMENT	CNR					706,800	706,800	706,800	706,800
NEW (FY25)	BARLETT CORNER PS DECOMMISSION	CNR					164,850			
	SUBTOTAL UTILITIES COMMISSION		**0**	**119,800**	**0**	**119,800**	**3,579,660**	**2,731,800**	**2,631,800**	**2,081,800**

TOWN OF WATERFORD
FIVE YEAR CAPITAL PLAN
FY 2025 -FY 2029

Revised 1/29/2024

LINE ITEM	DESCRIPTION	REC. FUNDING SOURCE	FY-2025 CIP	FY-2025 CNR	FY-2025 GFB	FY-2025	FY-2026	FY-2027	FY-2028	FY-2029
BOARD OF EDUCATION										
57833	TENNIS COURTS	CNR			1,125,000					
57820	WHS - TURF FIELD AND TRACK	CNR					350,000	350,000	350,000	350,000
57822	IT LEARNING BOARDS-END OF LIFE	CNR							265,000	
57827	IT VITUAL DESKTOP MAIN PROCESSOR	CNR						325,000		
NEW (FY25)	CHROMEBOOK/IPAD REPLACEMENT PLAN	CNR					254,974	262,623	270,501	278,616
NEW (FY25)	SCHOOL PROPERTY MAINTENANCE	CNR					100,000	30,000	30,000	30,000
NEW (FY24)	ENERGY EFFICIENCY PROGRAM	CNR		243,335		243,335	243,335			
NEW (FY24)	HVAC EVALUATION/REMIDATION (DISTRICT)	CNR		85,000		85,000				
NEW (FY24)	WHS - TURF SOFTBALL	CNR					90,000	45,000	45,000	45,000
NEW (FY25)	FIELD HOUSE FLOORING/BLEACHER RENO	CNR					465,000			
NEW (FY25)	QUAKER HILL PLAYGROUND REPLACEMENT	CNR						189,000		
NEW (FY25)	OSWEGATCHIE PLAYGROUND REPLACEMENT	CNR							192,864	
NEW (FY25)	GREAT NECK PLAYGROUND REPLACEMENT	CNR								212,744
NEW (FY24)	QUAKER HILL HEAT PUMP	CNR					165,000	165,000		
NEW (FY24)	OSWEGATCHIE HEAT PUMP REPLACEMENT	CNR						165,000	165,000	
NEW (FY24)	GREAT NECK HEAT PUMP REPLACEMENT	CNR							165,000	
NEW (FY25)	CMS ROOFTOP PUMP REPLACEMENT	CNR								250,000
NEW (FY24)	BOE MUNIS IMPLEMENTATION	CNR					150,000	150,000		
	SUBTOTAL BOARD OF EDUCATION		0	328,335	1,125,000	328,335	1,818,309	1,681,623	1,483,365	1,166,360
TOTAL APPROPRIATION			1,312,527	938,399	3,001,759	4,097,685	12,451,687	13,398,891	7,958,693	11,696,424

CIP	1,312,527
CNR	938,399
GFB	3,001,759
	5,252,685

TOWN OF WATERFORD
FLEET MANAGEMENT PLAN - VEHICLES
FISCAL YEARS 2025 - 2029

												Number Vehicles to be Replaced	5	2	2	2	0		
												Total Budget	276,500	53,949	97,780	94,000	-		
FLEET Asset ID	TOWN Asset ID	License Plate No.	Agency Name	Vehicle Assigned to:	Repl. Cycle in Years	Class Description	Asset Model Year	In-Service Date	Gross Vehicle Cost	Manuf.	Model	Serial #	2025	2026	2027	2028	2029	Current Mileage / or Usage Hours	Total Repair Costs to date
BOE1	008900	24WFD	Board of Ed	Maintenance (Kyle Stoddard)	10	PICK UP	2022	07/20/22	$56,324	Ford	F-350	1FDRF3B63NEE25324						10,464	650.00
BOE11 (old)			Board of Ed		10					KAWASAKI	MULE OFF ROAD UTILITY VEHICLE	JK1AFDA132B5077							
BOE12	500168	AG56629	Board of Ed		5	7-Passenger Mini-Van	2019	06/11/19	$21,743	Dodge	Caravan 4-Wheel Drive Wagon	2C4RDGBGXKR864913		27,000				175,258 mi	1,283.76
BOE13	500135	S2068S	Board of Ed		5	7-Passenger Mini-Van	2017	01/10/18		Dodge	Caravan 4-Wheel Drive Wagon	2C4RDGBG9HR694588	26,000					93,449	2,537.73
BOE14	500204	S2065S	Board of Ed		5	7-Passenger Mini-Van	2019	02/26/20	$21,394	Dodge	Grand Caravan	2C4RDGBG2KR782860			28,000			55,472	821.23
BOE15		Temp Plate	Board of Ed		5	7-Passenger Mini-Van	2020	09/21/21	$28,501	Chrysler	Voyager Van	XC4RC1GXLR150706				29,000		22,251	375.00
BOE2	BOE2	23WFD	Board of Ed	Maintenance (Tom Thurlow)	10	EXPRESS VAN (BOX TRUCK)	2020	11/10/20	$44,445	Chevrolet	Express Van	1HA6GVCGXLN009190						11,851	650.00
BOE3	500009	25WFD	Board of Ed	Maintenance (Jon Tillinghast)	10	PICK UP	2013	11/04/13	$46,104	GMC	Sierra K3500	1GD322CGXDF166538	69,000					87,537	3,974.68
BOE4	008923	26WFD	Board of Ed	Maintenance (Bryan Swanson)	10	PICK UP	2012	11/30/12	$42,293	Ford	F350	1FTRF3B66CEB84702						66,907	4,812.88
BOE5	008850	27WFD	Board of Ed	(Kevin VanCleave)	10	VAN	2011	01/20/11	$18,425	Ford	E250 Van	1FTNE2EWXBDA45393	37,500					110,000	1,250.00
BOE6	500132	28WFD	Board of Ed	Maintenance (Dan Santos)	10	PICK UP	2018	05/09/18	$48,686	Chevrolet	SILVERADO 4WD CREW CAB	1GC0KYEGXJZ309213				65,000		54,015	1,458.59
BOE7	500038	29WFD	Board of Ed	Maintenance (Steve Kowalski)	10	PICK UP	2015	12/31/14	$44,396	Chevrolet	Silverado K350	1GC5KYCG5FZ508430	75,000					51,930	1,476.28
BOE8	008922	30WFD	Board of Ed	Maintenance (Dan Morris)	15	MEDIUM DUTY DUMP	2012	12/20/12	$32,798	Ford	F350 PICK-UP	1FDRF3H61CEB25642	69,000					62,509	2,863.86
BOE9	500039	117WFD	Board of Ed	Maintenance (Dan Kamercia)	10	PICK UP	2015	01/09/15	$46,037	Chevrolet	Silverado K350	1GB0KYEG7FZ510434			69,780			97,647	1,738.29
A20	101197	104-WFD	Board of Ed	Courier	10	CAR - HYBRID	2012	09/18/12	$27,238	Ford	Fusion Hybrid	3FADP0L31CR322157		26,949				121,479 mi	150.00

Vehicle Report

Town of Waterford Public Works

17 records

Report generated on 11/28/2023 9:50 AM by Kimberly Allen

Filters

Vehicle Group is any of or any subgroup of: BOE

Fleetio ID	Name	Group	Year	Make	Model	Type	Current Meter	Current Meter Unit	Status	VIN/SN	License Plate	Cost Per Meter Unit (Lifetime) (USD)
2028461	A20	BOE	2012	Ford	Fusion Hybrid	Passenger/Admin	121419.0	mi	Active	3FADP0L31CR322157	104-WFD	0.04
2028386	BOE1	BOE	2022	Ford	F-350 Super Duty	Truck	0.0	mi	Active	1FDRF3B63NEE25324	24WFD	
2095543	BOE10	BOE	2007	New Holland	L170 Skid Star Bobcat	SKID STEER LOADER	0.0	mi	Active	N7M455552	N/A	
2095544	BOE11	BOE	2014	John Deere	XUV855DPS	UTILITY CART (with spreader & plow)	0.0	mi	Active	CH3009D250621	N/A	
2028387	BOE11 (old)	BOE		KAWASAKI		MULE OFF ROAD UTILITY VEHICLE	0.0	mi	Active	JK1AFDA132B5077		
2028388	BOE12	BOE	2019	Dodge	Grand Caravan	Van	175258.0	mi	Active	2C4RDGBGXKR664913	AG56629	
2028389	BOE13	BOE	2017	Dodge	Grand Caravan	Van	0.0	mi	Active	2C4RDGBG9HR694588	S2068S	
2028390	BOE14	BOE	2019	Dodge	Grand Caravan	Van	0.0	mi	Active	2C4RDGBG2KR782860	S2065S	
2028391	BOE15	BOE	2020	Chrysler	Voyager Van	7-Passenger Mini-Van	0.0	mi	Active	XC4RC1GXLR150706	Temp Plate	
2028394	BOE2	BOE	2020	Chevrolet	Express Cutaway	Van	0.0	mi	Active	1HA6GVCGXLN009190	23WFD	
2028395	BOE3	BOE	2013	GMC		Truck	48065.0	mi	Active	1GD322CGXDF166536	25WFD	
2028396	BOE4	BOE	2012	Ford	F-350 Super Duty	Truck	43000.0	mi	Active	1FTRF3B66CEB84702	26WFD	
2028397	BOE5	BOE	2011	Ford	E-Series Cargo	Van	64580.0	mi	Active	1FTNE2EWXBDA45393	27WFD	
2028393	BOE6	BOE	2018	Chevrolet	Silverado K350	PICK UP	0.0	mi	Active	1GC0KYEGXJZ309213	28WFD	

Fleetio ID	Name	Group	Year	Make	Model	Type	Current Meter	Current Meter Unit	Status	VIN/SN	License Plate	Cost Per Meter Unit (Lifetime) (USD)
2028398	BOE7	BOE	2015	Chevrolet	Silverado 3500HD	Truck	22464.0	mi	Active	1GC5KYCG5FZ508430	29WFD	
2028399	BOE8	BOE	2012	Ford	F-350 Super Duty	Truck	38576.0	mi	Active	1FDRF3H61CEB25642	30WFD	
2028400	BOE9	BOE	2015	Chevrolet	Silverado 3500HD	Truck	55190.0	mi	Active	1GB0KYEG7FZ510434	117WFD	

FIFTEEN ROPE FERRY ROAD
WATERFORD, CT 06385-2886

PHONE: 860-442-0553
www.waterfordct.org

To: Robert Brule, First Selectman

From: Gary J. Schneider, Director of Public Works

Date: November 16, 2023

Re: FY25 Fleet Replacement Request

The Department has completed the review of the vehicles identified for replacement per the most recent RTM approved plan. Each vehicle due for replacement was reviewed for operational need, maintenance history and planned replacement year.

For FY 25, the Department is requesting 6 vehicles at an estimated replacement cost of $1,649,231.

Discussion on Planned FY25 Replacements:

The attached memorandum dated November 6, 2023 from Garon VanOverloop, Lead Mechanic discusses each vehicle the Department is requesting replacement for in FY25 (Attachment 1).

Justification for Replacements:

(1) **S21 Refuse Truck**. Currently there are 7 side loading trucks of this type in the fleet (2 of these are backup vehicles that take the place when a prime vehicle is in the shop for maintenance or repairs). They are special use vehicles that collect recyclables and garbage using a cart system. On weeks that recyclables are collected, 5 trucks are required to complete the day's route. The garbage trucks must complete their collection route and then travel to the waste to energy plant located just off I-395 in Lisbon to discharge their load. The plant will accept waste only until 5:00 p.m. each weekday. If we miss this time, we need to hold the waste in the truck itself and send it back up there the next day delaying the collection scheduled for that day. If it is a Friday, we may have to hold the waste over the weekend if we can't get it there Saturday morning. The recyclables are off-loaded at our Transfer Station, compacted and then taken to Casella Waste in Willimantic. On occasion, the trucks themselves will have to go to Willimantic if the compaction unit located at the Transfer Station is down.

The operation of these trucks is one person, the driver.

The Department also has two of the rear packers that are used for collection of bagged leaves and bulky waste and if the side loaders are down for a long time, they are used but at a price. The crew size increases to 3, and the efficiency drops.

(2) (3)

H36-5 Ton Dump Truck and H14-3 Ton Dump Truck. The Department has 15 snow plow routes, each assigned a truck from a pickup to the 5 ton truck. There are no "spares". When a truck goes down, the area is assigned to other trucks, resulting in longer cycle times which can cause issues with safe passage during the snow event. During the "non-snow" seasons, these trucks are used for general tasks until we have a major weather event when material must be removed from the roadside. These vehicles are used to haul woody material to various town or off-sites for either disposal or processing.

(4) **H12-Roadside Mechanics Truck.** When a garbage truck breaks down in a residential neighborhood, on the way to Lisbon or at the Lisbon Waste to Energy Facility, there are two options. Bring the mechanics truck to the breakdown or have the truck towed back to the garage. Towing a large vehicle requires a special wrecker costing $1000's per tow. This vehicle is dispatched to service any town vehicle disabled on the road.

(5) **H24-3 Wheel Pelican Street Sweeper.** The Department needs a reliable broom type sweeper and our current sweeper has seen its day. A broom sweeper is able to dislodge the material from the road surface and pick it up. This would be followed by the vacuum sweeper that "polishes" the area after being attacked by the broom. The request is for a 4 wheel broom type sweeper. The sweeper is mounted to a truck chassis and can travel at highway speeds to sweep or dump its load. With this replacement, a crew of 3 that used the Pelican is reduced to just the operator.

(6) **H9-Multi-Purpose Truck.** Commonly known as a stake bed truck, it has metal side and rear panels that can be removed for ease on loading materials on the bed of the truck. This truck is currently outfitted with large tools and materials and is used to repair our concrete items such as catch basin and concrete curbs.

FIFTEEN ROPE FERRY ROAD

WATERFORD, CT 06385-2886

INTER-OFFICE CORRESPONDENCE

DATE: November 6, 2023

TO: Gary Schneider, Director of Public Works

FROM: Garon VanOverloop, Lead Fleet Mechanic

RE: FY25 Fleet Replacement

The Public Works assets listed below are due for replacement in FY25, some being denied replacement in FY23 and in FY24. It is imperative that the town continues to follow the approved fleet replacement plan, and/or all recommendations set forth from myself, in regards to whether an asset can be moved into an upcoming fiscal year for replacement.

The purchasing timeline of vehicles and equipment today has grown substantially. From when a budget proposal is submitted for approval, to when a purchase order is issued and delivery of the vehicle, the average lead time is 2 ½ to 3 years. A refuse truck has a replacement cycle of 7 years. By the time a replacement is delivered, that truck is 10+ yrs. old, well past the effective repair cost timeline. The purchasing timeline of a highway dump/plow truck also mirrors a similar build timeframe as a refuse truck.

S21 is a 2016 PETERBILT 320, REFUSE TRUCK, VIN-3BPZLJ0X9GF100840 currently with 80,285mi, 10,205hrs. S21 follows the SEVEN year replacement plan with continued deterioration of its physical and mechanical condition. S21 is a daily use refuse vehicle. This vehicle needs to remain on the current replacement schedule for FY25.

H36 is a 2014 INTERNATIONAL 7400 DUMP/PLOW TRUCK, VIN-1HTWDAAR2EH025219 with 55,000mi & 4700hrs. Due to the increasing age and deteriorating physical condition, this vehicle needs to remain on the current replacement schedule for FY25.

H12 is a 2003 FORD F450 ROAD SIDE MECHANICS TRUCK VIN-1FDXF46F63EB17892 with 55,800mi, hours unavailable. The truck serves the needs of the maintenance shop for performing repairs to remote locations to include road side. H12 has always been garaged with minimal winter storm usage, resulting in less deteriorating than the other trucks in our fleet. We have been able to substitute its replacement for many years so that higher importance trucks could be replaced. Parts are

now becoming more and more difficult to locate for this truck, the corrosion to the frame and growing rot/deterioration of the utility body. This vehicle needs to remain on the current replacement schedule for FY25.

H14 is a 2015 INTERNATIONAL 4300 DUMP/PLOW TRUCK, VIN- 1HTMMAAL8FH734287 with 42,900mi & 4500hrs. Due to the increasing age and deteriorating physical condition, this vehicle needs to remain on the current replacement schedule for FY25.

H24 is a 2003 ELGIN PELICAN STREET SWEEPER, VIN- P3928S with 17,143mi. Over the past three years, this unit has been disabled for extended periods of time for costly repairs due to its age and usage. This vehicle needs to remain on the current replacement schedule for FY25.

H9 is a 2011 INTERNATIONAL 4300 MULTI PURPOSE STAKE BODY, VIN- 1HTMMAAL9BH388342 with 106,000mi and 8,200hrs. Due to the increasing age and deteriorating physical condition, this vehicle needs to remain on the current replacement schedule for FY25

S30 is a 2001 VOLVO EW170 WHEELED EXCAVATOR, VIN- 26289408, with 15,526hrs. This machine is located on site and is used to load bush into roll off dumpsters and to pack bulky waste trailers. I recommend that this unit is moved and reevaluated for FY26.

S21- S20 FY24	$376,222 appropriated, $458,409 budget $391,997 actual purchase price
II36-	$276,695 appropriated, $272,650 budget
H14-	$225,000 appropriated, $235,640 budget
H12-	$169,395 appropriated, $183,795 budget (FY24, $180,000 was appropriated)
H24-	$260,000 appropriated, $348,209 budget
H9-	$130,000 appropriated, $150,528 budget

Garon VanOverloop
Lead Fleet Mechanic

(S21)

Peterbilt Store- Hartford (H845)
206 Meadow Lane
Berlin, Connecticut 06037

John Martin
Cell Phone: 860-839-8003
Office Phone: 860-828-4125
Email: john.martin@thepetestore.com

Town Of Waterford
1000 Hartford Road
Waterford, Connecticut 06385
United States of America

Garon VanOverloop
Cell Phone: 860-625-0837
Office Phone: 860-444-5864
Email: gvanoverloop@waterfordct.org

Vehicle Summary

Unit	
Model:	Model 520
Type:	Full Truck
Description 1:	520 SIDE LOADER
Description 2:	Clone of Chassis 704845 Model 520

Application	
Intended Serv.:	Refuse/On-Highway
Commodity:	Refuse, Scrap, Recycling

Body	
Type:	Curbside Recycler
Length (ft):	24
Height (ft):	13.5
Max Laden Weight (lbs):	1000

Trailer	
No. of Trailer Axles:	0
Type:	
Length (ft):	0
Height (ft):	0
Kingpin Inset (in):	0
Corner Radius (in):	0

Restrictions	
Length (ft):	40
Width (in):	102
Height (ft):	13.5

Chassis	
Fr Axle Load (lbs):	20000
Rr Axle Load (lbs):	46000
G.C.W. (lbs):	66000
Road Conditions:	
Class A (Highway)	100
Class B (Hwy/Mtn)	0
Class C (Off-Hwy)	0
Class D (Off-Road)	0
Maximum Grade:	6
Wheelbase (in):	221
Overhang (in):	75
Fr Axle to BOC (in):	0.1
Cab to Axle (in):	220.9
Cab to EOF (in):	295.9
Overall Comb. Length (in):	353.6

Special Req.

Approved by: _____ **Date:** _____

Note: All sales are F.O.B. designated plant of manufacture.

Sales Code	Std/ Opt	Description	$ List	Weight
Base Model				
0005201	S	**Model 520** Peterbilt's Model 520 is built to withstand the harsh demands of the refuse industry. The rugged, aluminum cab delivers best-in-class durability for increased uptime and lap seam construction on a zinc-coated steel sub-frame for corrosion resistance. Bulkhead-style doors provide years of watertight performance. This low-cab forward vehicle adds a new dimension of productivity and versatility. An industry-leading, 65-degree cab tilt enhances maintenance and serviceability. Body installation is cost effective and efficient and the center console provides convenient access to body control integration points.	224,932	16,475
0091180	S	**Refuse, Scrap, Recycling**	0	0
0093035	S	**Refuse/On-Highway** Truck or tractor which hauls refuse, recycled material, etc. Includes roll-on/roll-off container movement, as well as hauling refuse from transfer stations to, but not into, landfills.	0	0
0095240	S	**Curbside Recycler** A lift-equipped truck used to load residential recycling bins into the truck body. Recycling material is removed by the body by hydraulic tilt.	0	0
0098170	S	**United States Registry** Canadian Registry PackageRequires Air Conditioning Excise Tax Canada, Speedometer to be KPH ipo MPH, Daytime Running Lights and Rubber Battery Pad in Bottom of Battery Box.	0	0
Configuration				
0200700	S	**Not Applicable** Secondary Manufacturer	0	0
Frame & Equipment				
0514170	O	**10-3/4" Steel Rails 343-450"** 10.75x3.5x.375 Dimension, 2,136,000 RBM; Yield Strength: 120,000 psi. Section Modulus: 17.8 cubic inches. Weight: 1.74 lbs/inch pair	1,311	252
0601500	O	**Full Steel Inner Liner**	1,016	714
0611330	O	**Zinc Coated Anti Corrosion Treated Frame Rails** Requires Frame Rail Code. Zinc Phosphate coating will replace the standard frame rail primer and provide added corrosion prevention for your customer's operating in severe conditions or in climates where vehicle rust is common.	394	4
0620110	O	**FEPTO Provision 9in Bumper Extension** Includes 1350 Series Front Drive PTO Attachment Provision, Radiator with PTO Cut-Out in Grille, Radiator Protection Sleeve, and Bumper Extension	1,682	42
0620500	O	**Frame Components Bolted IPO Huck Fastened**	91	0
0644020	O	**EOF Square with Steel Crossmember**	199	64

Sales Code	Std/ Opt	Description	$ List	Weight
0651090	S	**Omit Rear Mudflaps and Hangers**	0	0
Front Axle & Equipment				
1011360	O	**Dana Spicer D2000F 20,000 lb, 3.5 in. Drop** Factory front axle alignment to improve handling & reduce tire wear. Zerk fittings on tie rod ends, king pins, & draglink ball joints for ease of maintenance & help extend service life of components. Cognis EMGARD® FE 75W-90 synthetic axle lube provides over 1% fuel economy improvement. Reduces wear & extends maintenance intervals, resulting in increased uptime. Provides improved fluid flow to protect components in extreme cold conditions & withstand the stress from high temperatures, extending component life.	179	0
1114030	S	**Taper Leaf Springs, Shocks 20,000 lb** Standard with Heavy Resistance Shocks.	0	0
1243010	S	**Power Steering Sheppard M100 Dual Gear** For use with 16,000 to 20,000 lb. axle ratings. Glidekote splines on steering shaft extend service life of components.	0	0
1354840	O	**PHP10 Iron PreSet PLUS Hubs** PHP10 iron PreSet PLUS hubs have a fully integrated spindle nut design, an optimized wheel spacer, magnetic fill plug on drive and trailer hubs for inspection of metal particles in lubricant, with a long life oil seal and bearings are pre-adjusted. Use with Front Axle.	-569	84
1380230	O	**Dana Spicer 5" Drop IPO 3.5", Front Axle** 5" drop (127 MM) provides lower chassis suspension and profile. Offers maximum maneuverability and the light weight solution. Available for a variety of brakes.	0	0
1380240	O	**Dana Spicer Wide Track IPO Standard** Dana Spicer wide track front axles offer added stability and deliver greater turn angles. 71in KPI IPO 69in for E1202, E1322, E1462, D2000F front axles.	62	15
1380280	O	**Bendix Air Cam Front Drum Brakes 16.5x7** For use with 16,000 lbs to 23,000 lbs steer axles or front drive axles. Includes automatic slack adjusters & outboard mounted brake drums.	606	0
1390540	O	**Dust Shields, Cam Brakes, Front Axle**	33	4
1391410	O	**Gusseted Cam Brackets, Steer Axle**	28	0
1392970	O	**Heavy Duty Cam Bushings, Steer Axle**	46	0
Rear Axle & Equipment				
1523440	S	**Dana Spicer D46-172 46,000 LBS** Dana Spicer D46-172 46,000 lbs tandem drive axles offer efficiency improvement, axle weight reduction and reduced lube quantity.	0	0
1616300	O	**PHP10 Iron PreSet PLUS Hubs**	-614	0
1660000	O	**Dust Shields For Cam Brakes, Drive Axle(s)**	72	4
1672630	O	**Differential Lock Both Axles** Air Rocker Switch Occupies the Space of One Gauge	2,061	60

Sales Code	Std/ Opt	Description	$ List	Weight
1680440	O	**Refuse Service Brakes, Steer And Drive Axles** Designed for heavy-duty applications for refuse industry, providing long brake life, safety and performance.	0	0
1680450	O	**Rear Brake Camshaft Reinforcement** Rear brake camshaft reinforcement helps guard against wear and corrosion.	73	9
1680460	O	**Heavy Wall, Drive Axle(s)**	1,040	88
1680470	O	**Lube Pump, Drive Axle(s)** Used to circulate oil within the axle housing. Recommended for use on 46,000 or greater axles used in refuse or severe service applications.	533	36
1680480	O	**Wide Track, Single & Tandem Drive Axle(s)** Wide track offers added stability. Rear width may exceed 102 inches. Verify operating restrictions and body installation.	1,858	29
1680490	O	**Gusseted Cam Brackets, Drive Axle(s)**	72	2
1680500	S	**SBM Valve** Full trucks require a spring brake modulation (SBM) system for emergency braking application. This system requires an SBM valve and a relay valve with spring brakes on the rear axles. The SBM valve allows the foot valve to operate the rear axle spring brakes if a failure exists in the rear air system.	0	0
1682710	O	**Anti-Lock Braking System (ABS) 6S6M** ABS-6. Includes air braking system.	493	35
1684200	S	**Synthetic Axle Lubricant All Axles** Peterbilt heavy duty models include Fuel Efficient Cognis EMGARD FE75W-90 which provides customers performance advantages over current synthetic lubricants with reduced gear wear and extended maintenance intervals, resulting in increased uptime. In addition, the lubricant provides improved fluid flow to protect gears in extreme cold conditions and withstand the stress from high temperatures, extending component life.	0	0
1687020	O	**Bendix Air Cam Rear Drum Brakes 16.5x8.6** Bendix Air Cam Rear Drum Brakes to fit all heavy haul, contruction, refuse and highway truck and tractor applications. Includes Automatic Slack Adjusters & Outboard Mounted Brake Drums. Refer to TSB 11-57 for more information.	-284	0
1688110	O	**Heavy Duty Cam Bushings, Drive Axle(s)**	91	0
1705250	O	**Ratio 5.25 Rear Axle**	0	0
1824410	O	**Hendrickson HMX EX 460 46,000 LBS., 54"** Haulmaax, 70K Creep Rating. Includes Traax Rod as standard, option 1920905 is not needed or available. Progressive load spring system easily adjusts to the load for an enhanced combination of empty-ride quality and loaded stability.	1,586	-67
1922600	O	**Heavy Duty Suspension Package** For High Rear Axle Loads. Suggested for concrete pumpers or natural gas trucks that have a fuel tanks located at the rear of the chassis or body. These shocks are more rigid, to provide a smoother ride when	190	0

Sales Code	Std/ Opt	Description	$ List	Weight
		there is a lot of weight at the rear of the chassis. Requires the follow option to complete the package: Hendrickson HMX400 or HMX460 suspension,16.5 Saddle Height, option 1921370, HD Shock Absorbers, Hendrickson option 1922610, Dana Spicer D2000F 20,000 Lb Front Axle with 23,000 lbs Taper Leaf Springs.		
1922615	O	**HD Shock Absorbers, Hendrickson HMX EX**	535	0

Engine & Equipment

2074808	S	**PACCAR PX-9 360@2000 GOV@2200 1150@1200** Productivity (2024 Emissions) N21350 C121 64....Maximum Accelerator Pedal Ve N21370 C128 64....Maximum Cruise Speed (P059) N21460 C132 1400..Max PTO Speed (P046) N21520 C133 5.....Timer Setting (P030) N21610 C188 39....Low Ambient Temperature Thre N21620 C189 60....Intermediate Ambient Tempera N21630 C190 80....High Ambient Temperature Thr N21550 C206 35....Engine Load Threshold (P516) N21340 C209 120...Hard Maximum Speed Limit (P1 N21510 C225 YES...Enable Idle Shutdown Park Br N21450 C231 NO....Gear Down Protection (P026) N21570 C233 NO....Idle Shutdown Manual Overrul N21440 C234 NO....Engine Protection Shutdown (N21480 C238 NO....Auto Engine Brake in Cruise N21470 C239 NO....Cruise Control Auto Resume (N21430 C333 0.....Reserve Speed Limit Offset (N21410 C334 0.....Maximum Cycle Distance (N202 N21590 C382 YES...Enable Hot Ambient Automatic N21500 C395 0.....Expiration Distance (N209) N21530 C396 YES...Enable Impending Shutdown Wa N21540 C397 60....Timer For Impending Shutdown N21320 C399 120...Standard Maximum Speed Limit N21400 C400 252...Reserve Speed Function Reset N21420 C401 10....Maximum Active Distance (N20 N21330 C402 0.....Expiration Distance (N207)	0	0
2091130	S	**VMUX Electronics Architecture**	0	0
2091305	O	**Engine Idle Shutdown Timer Enabled**	0	0
2091315	O	**Enable EIST Ambient Temp Overrule**	0	0
2091372		**Eff EIST NA Expiration Miles**	0	0
2091640		**Effective VSL Setting NA**	0	0
2092016	O	**Typical Operating Speed 62 MPH**	0	0
2092033	O	**Powertrain Optimized for Balance**	0	0

Sales Code	Std/ Opt	Description	$ List	Weight
		Best analysis for vehicles where service includes frequent start and stop cycles.		
2140450	O	**Remote PTO/Throttle, 12-Pin** Eng Bay Remote Control Provision	110	0
2140670	O	**EPA Emission Warranty**	0	0
2140700	S	**EPA Engine Idling Compliance**	0	0
2147460	S	**Bed Plate for PX-9, L9N Engines** Designed to increase engine longevity by incorporating a stiffener bracket on the bottom side of the engine, inside the oil pan, for additional reinforcement. Required for all PX-9/L9N refuse applications and recommended for other high load 9-liter applications.	0	0
2513060	S	**PACCAR 160 Amp Alternator, Brushed** PACCAR 160 AMP alternator, brushed producing 160 Amps at road speed and 100 Amps at idle.	0	0
2521090	O	**Immersion Type Block Heater 110-120V** Standard location is left-hand under cab, Model 520 is in bumper, and for Model 220 it is at the driver step. Plug includes a weather-proof cover that protects the receptacle. This pre-heater keeps the coolant in the engine block from freezing when the engine is not running.	91	2
2522110	O	**PACCAR 12V Starter, N/A PACCAR MX Engines** PACCAR 12-volt electrical system. With centralized power distribution incorporating plug-in style relays. Circuit protection for serviceability, 12-volt light system w/circuit protection circuits number & color coded.	0	0
2538040	S	**3 PACCAR Premium 12V Dual Purpose Batt 2190 CCA** Threaded stud type terminal. Stranded copper battery cables are double aught (00) or larger to reduce resistance.	0	0
2539740	O	**Kissling Battery Disconnect Switch 300AMP** Dual Tab Mounted on Battery Box	163	3
2621000	S	**2-Speed Fan Clutch For Frequent Start/Stops** A 2-speed fan clutch is ideal for vocational applications where the fan clutch engagement time exceeds 10% of the engine run time. When the fan clutch is disengaged, the fan still rotates at 15-25% of the engine RPM. This fan rotation provides crucial airflow to the engine and draws virtually no horsepower.	0	0
2723210	S	**18.7 CFM Air Compressor** N/A X15. Furnished on engine. Teflon lined stainless steel braided compressor discharge line.	0	0
2812140	O	**C-Brake By Jacobs, PX-9** Features a dedicated cam lobe design for optimum power and three-stage engine brake operation.	2,690	90
2921110	S	**PACCAR Fuel/Water Separator Standard Service** PACCAR Fuel/Water separator standard service intervals. High efficiency media protects critical engine components.	0	0
2921210	S	**No Fluid Heat Option for Fuel Filter**	0	0
2921310	S	**No Electric Heat Option for Fuel Filter**	0	0
3010400	O	**Engine Protection Shutdown w/ Label**	10	0

Sales Code	Std/ Opt	Description	$ List	Weight
		Includes oil pressure, oil temperature, coolant temperature, and intake manifold temperature.		
3114270	S	**High Efficiency Cooling System** Cooling module is a combination of steel and aluminum components, with aluminum connections to maximize performance and cooling capability. Silicone radiator & heater hoses enhance value, durability, & reliability. Constant tension band clamps reduce leaks. Chevron Delo Extended Life Coolant (NOAT) extends maintenance intervals reducing maintenance costs. Anti-freeze effective to -30 degrees F helps protect the engine. Low coolant level sensor warns of low coolant condition to prevent engine damage. Radiator Size by Model: 367 1325 sq in, 367 HH Fepto 1325 sq in, 365 Fepto 1183 sq in, 365 Full Frame Extension 1000 sq in, 520 1202 sq in, 579 1456.9 sq in, 535/536/537/548 949.3 sq in, 537/548 VOC 1000.3 sq in, 389/367 HH 1604 sq in, 365/567 1379 sq in.	0	0
3120320	O	**Bugscreen**	140	0
3120450	S	**Stainless Steel Grille**	0	0
3261980	S	**Heavy Duty Air Cleaner** Molded rubber air intake connections with lined stainless steel clamps seal to prevent contaminants in air intake.	0	0
3367200	S	**Exhaust Vertical LH DPR/SCR** LH Back of Cab Vertical, Single Module	0	0
3381770	O	**Curved Tip Standpipe(s)**	43	1
3387870	S	**24" Ht, 5" Dia Chrome, Clear Coat Standpipe(s)**	0	0
Transmission & Equipment				
4052970	O	**Allison 4500 RDS-P Transmission, Gen 6** Rugged Duty Series	18,423	390
4210190	O	**1810 HD Driveline, 1 Midship Bearing** 4.5in x .180 wall tubing	-391	15
4216590	O	**1710 Driveline Interaxle** For tandem rear axles	-101	-5
4252890	O	**Allison FuelSense Not Desired** Dynamic Shift Sensing	-131	0
4252950	O	**Omit Allison Neutral At Stop**	0	0
4256020	S	**Console Mounted Push Button Shifter**	0	0
4256740	O	**Allison 6-Speed Configuration, Wide Ratio Gears** Allison 4500 transmission only	0	0
4256870	O	**Allison Output Function S Neutral Indicator** Allison output function S Neutral Indicator for PTO. Required on Refuse Packer Applications. With this configuration NEUTRAL only, PTO engagement is permitted only when the transmission is in Neutral. Once the transmission is in Neutral, the PTO is automatically engaged and	0	0

Sales Code	Std/ Opt	Description	$ List	Weight
		fast idle is initiated when the PTO switch is on. In addition with this configuration Pack-on-the-fly, the PTO is automatically engaged and fast idle is initiated when the PTO switch is On concurrently with shifting of the transmission to Neutral.		
Air & Trailer Equipment				
4510210	S	**Bendix AD-HF EP Air Dryer, Heater** Coalescing filter, extended purge. Bendix AD-HF air filters protects the life of your engine system and components. Proven PuraGuard oil coalescing technonlgy in the the air dryer catridge. This oil coalescing filter ensures the removal of oil and oil aerosols before they can contaminate the moisture removing desiccant.	0	0
4540420	S	**Nylon Chassis Hose**	0	0
4543320	S	**Steel Painted Air Tanks** All air tanks are steel with painted finish except when Code 4543330 Polish Aluminum Air Tanks is also selected (then exposed air tanks outside the frame rails will be polished aluminum). Peterbilt will determine the optimal size and location of required air tanks. Narratives requesting a specific air tank size or location will not be accepted for factory installation. See ECAT to determine number or location of air tanks installed.	0	0
Tires & Wheels				
5058970	O	**FF: MN 20ply 315/80R22.5 XZUS2** Efficiency Rating: Fair All-position, wide base single designed for significant weight and fuel savings in urban regional applications. Diameter = 42.9 inches; SLR = 19.8 inches. Compares to Goodyear G289 WHA and Bridestone M860 tread.	345	0
5156510	O	**RR: MN 20ply 315/80R22.5 X Works Z** Efficiency Rating: Fair Diameter= 42.9 inches; SLR= 19.8 inches	4,340	384
5190008	S	**Code-rear Tire Qty 08**	0	0
5220520	O	**FF: Alcoa 89U637 22.5 X 9.00 High Polish** Aluminum, Ultra ONE technology that saves more than 50 lbs. versus a comparable steel wheel. Built for refuse, logging, mining and other heavy haul applications that demand a tough wheel. Each wheel offers a 10,000 lbs. load rating.	320	-110
5320530	O	**RR: Alcoa 89U647 22.5X9.00 High Polish** Aluminum. Ultra ONE wheels with MagnaForce alloy.	1,788	-216
5390008	S	**Code-rear Rim Qty 08**	0	0
5400100	O	**Alligator V2B Double Sealing Valve Caps On Tire** Valve stems. Inflate thru valve.	33	0
Fuel Tanks				

Sales Code	Std/ Opt	Description	$ List	Weight
5556130	O	**26" Aluminum 80 Gallon Fuel Tank LH BOC** Paddle handle filler cap with threadless filler neck. Top draw fuel plumbing reduces chance of introducing air into the fuel system during low fuel level conditions due to the central placement of fuel pickup tube. Wire braid fuel lines increase durability & reduce potential for leaks.	182	13
5604080	O	**Location LH BOC 80 Gallon**	0	0
5650160	O	**Fuel Tank Fill Forward** Not available on under cab fuel tanks	0	0
5650490	S	**Fuel Cooler** Required with single fuel tank	0	0
5651720	O	**Locate BOC Fuel Tank(s) Rearward As Far** As possible	0	0
5652890	S	**DEF Tank Mounted LH BOC** Models 220 and 520 mounted left hand back-of-cab.	0	0
5652990	O	**DEF To Fuel Ratio 2:1 Or Greater**	0	0
5655069	S	**DEF Tank 520, 7.3 Gal**	0	0
Battery Box & Bumper				
6010460	O	**Aluminum Space Saver Battery Box LH Back Of Cab**	219	-11
6030360	O	**Mount Space Saver Battery Box Top Of Box 8"** Below top of frame	722	0
6121700	S	**Steel Bumper Channel Painted** Includes two front tow eyes with pins	0	0
6132400	O	**Notched Top Flange Of Bumper** Does not include fepto provisions	50	0
6132900	O	**Screen Over Air Intake Opening In Bumper**	12	2
Cab & Equipment				
6501090	O	**53" LCF ProBilt Cab RH Drive** Use with auto-trans. Includes steel frames with aluminum and fiberglass panels, all aluminum doors, dual door stops, door locks, tinted safety glass thru-out, cab and door mounted entry grab handles, 65 degree hydraulic tilt, stainless steel grille, dual rear cab fenders, service module BOC (cab tilt pump, oil fill and dipstick, coolant fill and check, fluid fill and dipstick for auto trans), door mounted armrests, power windows, doghouse full insulation, rubber floor mats, ergonomic center control console, removable instrument panel, Driver Information Display, LED backlit gauges, adjustable side flip-down interior sunvisor, 16" steering wheel with integrated horn button, tilt/telescopic adjustable column, over-door storage, driver and passenger side cup holders, USB charging port and 12VDC charging outlet, header includes HVAC controls, rear cab corner windows, 18" bolt-on step on each side, self-canceling turn signals and Front Directional and Side Mounted Turn Signals.	1,361	0

Sales Code	Std/ Opt	Description	$ List	Weight
6540160	S	**Thermal Insulation Package in Cab** The thermal insulation package is designed to make the cab thermally efficient in extreme temperatures. The model 520 adds insulation surrounding the doghouse to reduce engine heat transmitted to the cab.	0	0
6800500	S	**4.5" Rubber Flares On Cab** And wheel well fenders	0	0
6914160	O	**Sears C2 Plus Premium Driver Seat** Enhanced for operator comfort with a 1" thicker foam cushion with flat bolsters for greater surface area coverage. Countoured metal seat and back pans add to overall ergonomic design with air lumbar supprt. Comes with quick attach seat and back cushions for ease of service and replacement.	329	0
6921720	S	**Peterbilt Passenger Seat**	0	0
6931120	O	**Seat Belt Color Orange IPO Standard Black**	10	0
6939400	O	**Air Ride Driver**	394	43
6939430	O	**Mid Back Driver**	76	0
6939460	O	**Fabric Driver**	51	0
6939510	S	**Non-Air Ride Passenger**	0	0
6939540	S	**Low Back Passenger**	0	0
6939570	S	**Vinyl Passenger**	0	0
7000000	S	**Gray Interior Color** Includes ABS Gray Headliner & Rear Cab Panel, Gray Vinyl Engine Tunnel Cover. For LH, RH, and Dual Steer Dual Seated Power Windows are standard on both doors. For Dual Steer RH stand-up the LH Window is Power and the RH Window is a Manual Sliding window.	0	0
7001520	S	**Adjustable Steering Column - Tilt/Telescope**	0	0
7001620	S	**Steering Wheel With Peterbilt Logo** Steering Wheel with embossed Peterbilt logo over horn button.	0	0
7040020	O	**Diamond Plate Floor Covering on Driver side floor** in place of Rubber Mat. In Dual Steer application RH Diamond Plate covering is standard. Single drive applications the Diamond Plate is optional.	46	6
7110680	S	**Exterior Cab Entry Grabhandle** Textured; NFPA compliant. Available on Day Cab specifications only.	0	0
7220130	S	**Rear Window Back of Cab Standard Tint** 18.5in X 54in	0	0
7230350	S	**2-Piece Flat Windshield**	0	0
7322010	S	**Combo Fresh Air Heater/Air Conditioner**	0	0

Sales Code	Std/ Opt	Description	$ List	Weight
		With radiator mounted condenser, dedicated side window defrosters, Bi-Level Heater/Defroster Controls, 54,500 BTU/HR, and silicone heater hoses.		
7410040	O	**Outside Sunvisor - Stainless Steel** Not available with 2.1M high roof sleeper.	370	4
7560100	O	**Mirrors SSTL Each Side Heated and Motorized** with Switch on Door.	-29	-7
7561450	O	**(4) Convex 8 Inch SSTL Mirrors; (2) Center** These optional convex mirrors provide enhanced rearward visibility by allowing the driver to see the operation of front-end loader arms or other obstacles that may interfere with operation in refuse services. The mirrors have an off-center mounting that maximizes adjustability for field of view. Dual door stops are included with these mirrors for added protection to the mirrors during cab entry and exit. Includes 4 convexed 8" stainless steel mirrors and 2 center mounted under (heated) and 2 center mounted over mirror bracket (non-heated). Includes dual door stops.	133	4
7620620	O	**(2) Air Horns 24.5" Chrome - Round w/Horn Shields**	530	8
7722120	O	**ConcertClass, AM/FM, Weatherband, 3.5 Aux**	473	10
7725740	O	**Midlevel Speaker Package For Cab** (4) Speakers	138	6
7728030	O	**Radio Mute When In Reverse** For automatic or automated transmission	0	0
7728040	O	**Bluetooth Phone and Audio Requires USB Port**	62	0
7728050	O	**USB Port**	62	0
7788055	S	**SmartLINQ Remote Diagnostics** SmartLINQ is Peterbilts proprietary remote diagnostics service which monitors the engine and aftertreatment for diagnostic codes providing real-time code analysis maximizing vehicle uptime and strengthening the fleets partnership with their dealer. SmartLINQ provides fault coverage for over 800 codes, a customizable email notification for 116 codes plus a web portal to manage your entire fleet included at no additional charge. SmartLINQ is compatible with any telematics system and doesnt require a specific fleet management system. For those whose customers utilize PeopleNet, the pre-wire with remote diagnostics will provide a more integrated solution utilizing the existing SmartLINQ modem. For those whose customers utilize other fleet services products, the existing pre-wire option for the other fleet service devices will continue to be available.	0	0
7851330	O	**Cab Tilt Pump Air Assist**	512	0
7851870	O	**Rain Gutters Over Driver and Passenger Doors**	81	8
7852150	S	**Peterbilt Pantograph Windshield Wipers** With intermittent feature.	0	0

Sales Code	Std/ Opt	Description	$ List	Weight
7900090	O	**Triangle Reflector Kit, Ship Loose** Florescent triangle emergency road flares are designed to meet and exceed all DOT standards.	39	13
7900270	O	**Fire Extinguisher, Cab Mounted** Hazmat approved UL listed/rated ABC	75	12
7900970	S	**Backup Alarm Wiring To EOF**	0	0
8011850	S	**Transmission Oil Temperature (Main)** Located in Digital Cluster Display.	0	0
8021315	S	**Air Restriction Indicator** Mounted on exhaust stanchion	0	0
8021800	O	**Air Filter Restriction Pressure Gauge** Located in Digital Cluster Display	0	0
8021810	O	**Brake Application Air Pressure (Tractor)** Located in Digital Cluster Display.	0	0
8041200	O	**Dual Scale Speedometer MPH Over KPH**	0	0
8070390	O	**Engine Hourmeter Gauge** Located in Digital Cluster Display	0	0
8070450	O	**Engine PTO Hourmeter Gauge** Located in Digital Cluster Display	0	0
8070810	O	**Engine Manifold Pressure (Turbo Boost)** Located in Digital Cluster Display	0	0
8070820	O	**Engine Percent Torque** Located in Digital Cluster Display	0	0
8070860	O	**Main Instrumentation Panel** Digital Cluster 7" Display includes: Physical (Analog) - Speedometer, Tachometer, Oil Pressure, Coolant Temp and Display Gauges - Fuel Level, DEF Level, DPF Filter Status, Fuel Economy, Volts Telltale, OAT and Primary Air Pressure, Secondary Air Pressure for air brake trucks.	0	0
8070940	O	**Voltmeter Gauge (MD/520 Only)** Located in Digital Cluster Display	0	0
8110090	S	**Headlights Single Rectangular Halogen**	0	0
8120570	S	**(5) LED Clearance With (2) LED Marker Lights** Includes (5) lights mounted on roof of cab and (1) cab side marker light mounted in front of each cab door	0	0
8133900	S	**None Furnished Stop/Tail/Backup Lights** Available with full truck only, not available with tractor	0	0
8134160	O	**Self-Canceling Turn Signal**	0	0
8140690	O	**Brake Lights Activated by Park Brake**	54	0
Paint				
8530770	O	**(1) Color Axalta Two Stage - Cab/Hood** Base Coat/Clear Coat N85020 A - L6035EY GREEN N85700 BUMPER L0001EA BLACK	0	0

Sales Code	Std/ Opt	Description	$ List	Weight
		N85500 CAB ROOF L6035EY GREEN N85200 FRAME L0001EA BLACK		

Shipping Destination

Options Not Subject To Discount

9400090	S	**Peterbilt Class 8 Standard Coverage** 1 year/100,000 Miles (160,000 km)	0	0
9400094	S	**PACCAR PX-9 Standard Coverage** 2 yrs/250,000 mi (402,336 km)/6,250 hrs	0	0
9407147	O	**Fuel Price Index Factor $135 NET**	135	0
9408632	O	**SmartLINQ RD - 3YR Sub** PACCAR PX Engines	499	0
9408703	O	**Base Warr: Emissions 5YR/100K MI-EPA Engine**	0	0
9408936	O	**Frame Layout Identical to Previous Chassis**	550	0

Miscellaneous

9409057	O	**State Registry: Connecticut**	0	0

Promotions

Special Requirements

Special Requirement 1 0098170
Special Requirement 2
Special Requirement 3
Special Requirement 4

Order Comments

Total List Price (W/O Freight & Warranty & Surcharges)	$271,541
Marketing and Service Support Fee	$1,395
Prepaid Freight	$4,300
Total Surcharge/Options Not Subject To Discount	$1,184
Total Weight	18,515

Prices and Specifications Subject to Change Without Notice.

Unpublished options may require review/approval.
Dimensional and performance data for unpublished options may vary from that displayed in CRM.

PRICING DISCLAIMER

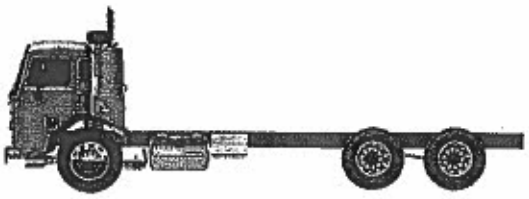
While we make every effort to maintain the web site to preserve pricing accuracy, prices are subject to change without notice. Although the information in this price list is presented in good faith and believed to be correct at the time of printing, we make no representations or warranties as to the completeness or accuracy of this information. We reserve the right to change, delete or otherwise modify the pricing information which is represented herein without any prior notice. We carefully check pricing specifications, but occasionally errors can occur, therefore we reserve the right to change such prices without notice. We disclaim all liability for any errors or omissions in the materials. In no event will we be responsible for any damages of any nature whatsoever from the reliance upon information from these materials. Please check your order prebills to confirm your pricing information

Shipping Destinations

Intermediate Destination: NONE

Final Destinations	Quantity
Sanitary Equipment Company, Inc. 25 Industry Drive P.O. Box 26006 West Haven, Connecticut 06516	1

FRAME RAKE

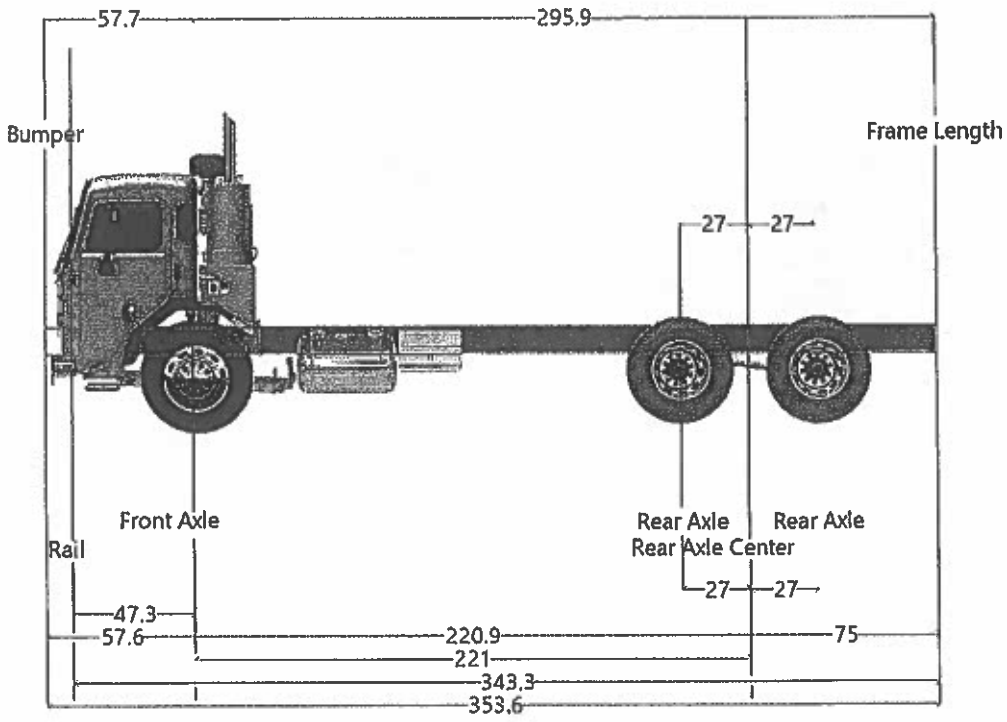


The listed heights should be considered approximations due to variations which may occur in component manufacturing processes, spring set, and the way in which the vehicle is loaded.

Component	Sales Code	Description	Laden	Unladen
Frame	0514170	10-3/4" Steel Rails 343-450"	10.8	10.8
Front Spring	1114030	Taper Leaf Springs, Shocks 20,000 lb	7.4	9.7
Front Axle Drop 3.5""	1011360	Dana Spicer D2000F 20,000 lb, 3.5 in. Drop	-1.5	-1.5
Height Adj.		25mm Front Spring Spacer Blocks	1.0	1.0
Front Tires	5058970	FF: MN 20ply 315/80R22.5 XZUS2	19.6	20.4
		Front Frame Height	37.2	40.4
Frame	0514170	10-3/4" Steel Rails 343-450"	10.8	10.8
Subframe				
Suspension	1024410	Hendrickson HMX EX 460 46,000 LBS., 54"	11.5	13.6
Rear Tires	5156510	RR: MN 20ply 315/80R22.5 X Works Z	19.8	21.2
		Rear Frame Height	42.1	45.5
		Frame Rake	4.9	5.1
		Frame Rake Slope (%)	2.2	2.3

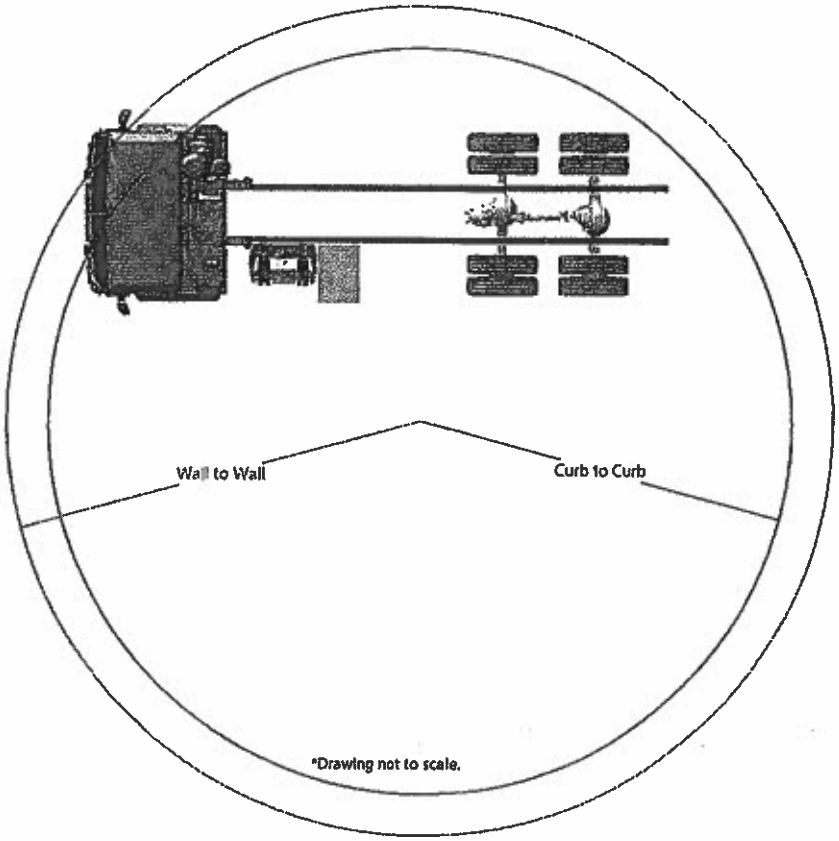
These characteristics are considered to be out of standard range:
Laden rake more than 1% of wheelbase from level (positive or negative).

HORIZONTAL DIMENSIONS



Dimension	Measurement	Start	End
Axle Spacing	54	194	248
Bumper to Back of Cab	57.7	-57.6	0.1
Bumper to Front Axle	57.6	-57.6	0
Bumper to Front Frame	10.3	-57.6	-47.3
Cab to End of Frame	295.9	0.1	296
Cab to Rear Axle	220.9	0.1	221
Effective Bumper to Back Of Cab	57.7	-57.6	0.1
Frame Length	343.3	-47.3	296
Front Axle to Back of Cab	0.1	0	0.1
Front of Frame to Axle	47.3	-47.3	0
Load Space	295.9	0.1	296
Overall Length	353.6	-57.6	296
Overhang	75	221	296
Pusher Offset #1	0	194	221
Pusher Offset #2	0	194	221
Pusher Offset #3	0	194	221
Tag Offset	0	221	248
Wheelbase	221	0	221

TURNING RADIUS



LEFT TURN RADIUS		RIGHT TURN RADIUS	
Curb to Curb	30.9	**Curb to Curb**	31.8
Wall to Wall	33.8	**Wall to Wall**	24.6

VEHICLE SUMMARY			
Truck	Model 520 / Full Truck	**Wheelbase**	221
Axle	Dana Spicer D2000F 20,000 lb. 3.5 in. Drop	**Weight**	18515
Tire	FF: MN 20ply 315/80R22.5 XZU52		
Wheel	FF: Alcoa 89U637 22.5 X 9.00 High Polish		

VEHICLE WEIGHT RATING

FRONT AXLE COMPONENTS

Component	Sales Code	Description	Ratings
Axle	1011360	Dana Spicer D2000F 20,000 lb, 3.5 in Drop	20,000
Springs	1114030	Taper Leaf Springs, Shocks 20,000 lb	20,000
Power Steering	1243010	Power Steering Sheppard M100 Dual Gear	20,000
Hubs, Drums	1354840	PHP10 Iron PreSet PLUS Hubs	23,000
Brakes			
Tires	5058970	FF: MN 20ply 315/80R22.5 XZUS2	20,000
Wheels	5220520	FF: Alcoa 89U637 22.5 X 9.00 High Polish	20,000

Requested Front (Lbs):	0
Minimum:	11,000
Maximum:	20,000

The front axle weight rating cannot exceed 20000

REAR AXLE COMPONENTS

Component	Sales Code	Description	Ratings
Axle	1523440	Dana Spicer D46-172 46,000 LBS	46,000
Hubs, Drums	1616300	PHP10 Iron PreSet PLUS Hubs	78,000
Service Brakes			
Spring Brakes			0
Suspension	1824410	Hendrickson HMX EX 460 46,000 LBS., 54"	46,000
Tires	5156510	RR: MN 20ply 315/80R22.5 X Works Z	66,160
Wheels	5320530	RR: Alcoa 89U647 22.5X9.00 High Polish	80,000

Requested Rear (Lbs):	0
Minimum:	20,000
Maximum:	46,000

The rear axle weight rating cannot exceed 46000

[LABEL:RPTVW_GROSSCOMBINATIONWEIGHTRATING

GCWR (lbs)	66,000
Min	66,000
Max	66,000

The Gross Combination Weight Rating rating cannot exceed 66000

Sanitary Equipment Company Inc. Source Well #112014-LEG

"Do It Right The First Time"

Date: May 22, 2023

25 Industry Drive / PO Box 26006
West Haven, CT. 06516
Phone 203-933-9599 Fax 203-933-4271
www.sanitaryequipment.com

Scott Black (30)
Phone 203 927-9070
scott@sanitaryequipment.com
Ref #

Quote for:
Mr. Garon VanOverloop
Town of Waterford

Waterford, CT

Subject:
Labrie Right Hand

Line	QTY	DESCRIPTION	AMOUNT
1.)	1.00	Labrie Right Hand 33 Yard Automated Refuse Body	$170,079.96
2.)		with The Following Equipment:	Included
3.)	1.00	Electric over Hydraulic Valve	Included
4.)		Work at Idle (900) RPM with Seven Second Cycle Time	Included
5.)	1.00	Hydraulic oil heater	Included
6.)	1.00	Amber strobe lights front of body	Included
7.)	1.00	Amber srtobe lights mounted on upper tailgate	Included
8.)	1.00	Spill Shield Behind Grabber	Included
9.)		Multi Cycle Packing 3 to 6 Strokes	Included
10.)		Front Mount Denison Hydraulic Piston Pump	Included
11.)		80 Gallon Aluminum Hydraulic Oil Tank with Sight and Temp Gage	Included
12.)		Ergonomic Arm Rest with Air Joy Stick Controls	Included
13.)	1.00	Crusher Panel	Included
14.)	1.00	Hardox Hopper Floor Liner Hardox 450 Steel	Included
15.)		High Mount and Low Mount Rear Lighting FMVSS Standards	Included
16.)		Auto Lock And Unlock Hydraulic Tail Gate	Included
17.)		Body Grit Blasted / Painted with chrome yellow Imron 5000 Paint Including	Included
18.)	1.00	Clean Out Shovel and Broom with Brackets	Included
19.)	1.00	20 lb Fire Extinguisher	Included
20.)	1.00	All LED Lights Instead of Standard Body Lighting Including Mid B	Included
21.)		All Fuses Replaced By Auto-Reset Circuit Breakers	Included
22.)	1.00	Grabber Counter	Included
23.)	1.00	Triple 3rd eye Camera System	Included
24.)	1.00	Steel Surcharge	Included
	QTY	[redacted] OPTIONS AVAILABLE [redacted] *Unless a QTY is entered on the left, the items below are an ADDITIONAL COST*	
25.)	1.00	Heavy Duty Arm with 6x6 Laced Chain	
26.)	1.00	Ziebart Undercoating	$2,200.00
27.)	1.00	Stainless Toolbox 24x18x18	$1,700.00
28.)	1.00	OnSpots Installed by SECI	$2,780.00
29.)	1.00	Work Light Curbside over arm LED	$880.00

SUBTOTAL w/ SELECTED OPTIONS	$	177,639.96
TAX RATE		
SALES TAX	$	-
12% FET TAX	$	-
FREIGHT	$	2,350.00
TOTAL	$	179,989.96

QUOTE NOTES:

Source Well Contract Number 112014-LEG

Single Color Body Paint Code L663ET

Thank You for the Opportunity to Quote our Products and Services

This proposal may be withdrawn by S.E.C.I if not accepted with a deposit > Wed - 06/21/23

PAYMENT TERMS: Balance Due at Time of Delivery unless otherwise noted. Equipment and Materials remain the property of S.E.C.I. until paid in full.

Accepted By: _____ Company: _____ Date: _____

Thank you, for the opportunity to quote you on your service needs

H36

HV507 SFA

Sales Proposal For:

TOWN OF WATERFORD

Presented By:

ALLEGIANCE TRUCKS

INTERNATIONAL®

Financial Summary
2025 HV507 SFA (HV507)

October 03, 2023

(US DOLLAR)

Description		Price
Net Sales Price:		$263,469.00
Memo Item(s):		
Body/Allied Equipment:	$133,469.00	*Body Pricing Included in Price*
Note: Memo Item(s) shown here are included in the above Net Sales Price.		

Please feel free to contact me regarding these specifications should your interests or needs change. I am confident you will be pleased with the quality and service of an International vehicle.

NOTE: PRICING IS CURRENT FOR MODEL YEAR 2025 / PRODUCTION CALENDAR YEAR 2024 BUT IF INTERNATIONAL LEVIES ADDITIONAL SURCHARGES DUE TO VENDORS INCREASING PRICING OR GOVERMENT MANDATES (EPA, ETC.) I WILL NEED TO RE-PRICE THE CHASSIS AT THAT POINT.
WHILE EVERY EFFORT WILL BE APPLIED TO SUPPLY THIS TRUCK, PRODUCTION IS LIMITED, WE CANNOT GUARANTEE A BUILD SLOT FOR EVERY ORDER PLACED DUE TO SUPPLY CHAIN CONSTRAINTS.
NAVISTAR HAS PUT A $5,000 ORDER CANCELLATION IN PLACE ON ALL ORDERS.
A $5000 DEPOSIT IS NOW REQUIRED FOR ALL ORDERS TO BE PLACED. IN THE EVENT YOU CANCEL AN ORDER YOU WILL FORFEIT YOUR DEPOSIT.

Approved by Seller:

Official Title and Date

Authorized Signature

ALLEGIANCE TRUCKS
130 BRAINARD RD
HARTFORD CT 06114 -
(860)249-8635

Accepted by Purchaser:

Firm or Business Name

Authorized Signature and Date

This proposal is not binding upon the seller without Seller's Authorized Signature

Official Title and Date

The TOPS FET calculation is an estimate for reference purposes only. The seller or retailer is responsible for calculating and reporting/paying appropriate FET to the IRS.

The limited warranties applicable to the vehicles described herein are Navistar, Inc.'s standard printed warranties which are incorporated herein by reference and to which you have been provided a copy and hereby agree to their terms and conditions.

INTERNATIONAL®

October 03, 2023

Prepared For:
TOWN OF WATERFORD
Garon VanOverloop
15 ROPE FERRY RD.
WATERFORD, CT 06385-
(860)444 - 5867
Reference ID: 6/6/2023 Prices

Presented By:
ALLEGIANCE TRUCKS
Marc Palumbo
130 BRAINARD RD
HARTFORD CT 06114 -
(860)249-8635

Thank you for the opportunity to provide you with the following quotation on a new International truck. I am sure the following detailed specification will meet your operational requirements, and I look forward to serving your business needs.

Model Profile
2025 HV507 SFA (HV507)

AXLE CONFIG:	4X2
APPLICATION:	Front Plow with spreader
MISSION:	Requested GVWR: 44000. Calc. GVWR: 48180. Calc. GCWR: 80000 Calc. Start / Grade Ability: 30.33% / 3.65% @ 55 MPH Calc. Geared Speed: 68.9 MPH
DIMENSION:	Wheelbase: 177.00, CA: 102.00, Axle to Frame: 65.00
ENGINE, DIESEL:	{Cummins L9 360} EPA 2024, 360HP @ 2200 RPM, 1150 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed, 359 Peak HP (Max)
TRANSMISSION, AUTOMATIC:	{Allison 3000 RDS} 6th Generation Controls, Close Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, with 80,000-lb GVW and GCW Max, On/Off Highway
CLUTCH:	Omit Item (Clutch & Control)
AXLE, FRONT NON-DRIVING:	{Meritor MFS-20-133A} Wide Track, I-Beam Type, 20,000-lb Capacity
AXLE, REAR, SINGLE:	{Dana Spicer S30-190D} Single Reduction, 30,000-lb Capacity, Driver Control Locking Differential, W Wheel Ends Gear Ratio: 6.14
CAB:	Conventional, Day Cab
TIRE, FRONT:	(2) 315/80R22.5 Load Range L X WORKS Z (MICHELIN), 485 rev/mile, 68 MPH, All-Position
TIRE, REAR:	(4) 315/80R22.5 Load Range L HAU 3 WT (CONTINENTAL), 480 rev/mile, 68 MPH, All-Position
SUSPENSION, REAR, SINGLE:	31,000-lb Capacity, Vari-Rate Springs, with 4500-lb Capacity Auxiliary Rubber Springs
PAINT:	Cab schematic 100WK Location 1: 5047, Groon (Prom) Chassis schematic N/A

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
HV50700	Base Chassis, Model HV507 SFA with 177.00 Wheelbase, 102.00 CA, and 65.00 Axle to Frame.	5783/3857	9640
AXLE CONFIGURATION			
1ANA	AXLE CONFIGURATION {Navistar} 4x2	56/-115	-59
	Notes : Pricing may change if axle configuration is changed.		
ENGINE			
12EYZ	ENGINE, DIESEL {Cummins L9 360} EPA 2024, 360HP @ 2200 RPM, 1150 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed, 359 Peak HP (Max)	559/5	564
12VJS	EMISSION, CALENDAR YEAR {Cummins L9} EPA, OBD and GHG Certified for Calendar Year 2024	0/0	0
12XCS	CARB EMISSION WARR COMPLIANCE Does Not Comply with CARB Emission Warranty	0/0	0
12WZE	CARB IDLE COMPLIANCE Does Not Comply with California Clean Air Idle Regulations	0/0	0
12WVG	EPA IDLE COMPLIANCE Low NOx Idle Engine, Complies with EPA Clean Air Regulations; Includes "Certified Clean Idle" Decal on Hood	0/0	0
12UYH	RADIATOR Aluminum, Cross Flow, Front to Back System, 1469 Sqin, with 1172 Sqin Charge Air Cooler	-49/2	-47
	Includes : DEAERATION SYSTEM with Surge Tank : HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic Coolant Hose Clamps . RADIATOR HOSES Premium, Rubber		
12THT	FAN DRIVE {Horton Drivemaster} Two-Speed Type, Direct Drive, with Residual Torque Device for Disengaged Fan Speed	0/0	0
	Includes : FAN Nylon		
12VAG	AIR CLEANER Single Element, with Integral Snow Valve and In-Cab Control	2/0	2
12703	ANTI-FREEZE Red, Extended Life Coolant; To -40 Degrees F/ -40 Degrees C, Freeze Protection	0/0	0
12849	BLOCK HEATER, ENGINE 120V/1000W, for Cummins ISB/B6.7/ISL/L9 Engines	3/0	3
	Includes : BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door		
12VYP	ENGINE CONTROL, REMOTE MOUNTED No Provision for Remote Mounted Engine Control	0/0	0
12VXT	THROTTLE, HAND CONTROL Engine Speed Control; Electronic, Stationary, Variable Speed; Mounted on Steering Wheel	0/0	0
TRANSMISSION			

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
13BCS	TRANSMISSION, AUTOMATIC {Allison 3000 RDS} 6th Generation Controls, Close Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, with 80,000-lb GVW and GCW Max, On/Off Highway	206/77	283
13WYH	TRANSMISSION TCM LOCATION Located Inside Cab	0/0	0
13WUC	ALLISON SPARE INPUT/OUTPUT for Rugged Duty Series (RDS) and Regional Haul Series (RHS), General Purpose Trucks, Construction, Package Number 223	0/0	0
13WVV	NEUTRAL AT STOP Allison Transmission Shifts to Neutral When Service Brake is Depressed and Vehicle is at Stop; Remains in Neutral Until Service Brake is Released	0/0	0
13WAW	OIL COOLER, TRANSMISSION {Modine} Water to Oil Type	25/0	25
13XAM	PTO LOCATION Dual, Customer Intends to Install PTO at Left and/or Right Side of Transmission	0/0	0
13WDZ	SHIFT CONTROL PARAMETERS {Allison} 3000 or 4000 Series Transmissions, S1 Performance in Primary and Fixed Programming in Secondary	0/0	0
13WLP	TRANSMISSION OIL Synthetic; 29 thru 42 Pints	0/0	0
13WET	TRANSMISSION SHIFT CONTROL Column Mounted Stalk Shifter, Not for Use with Allison 1000 & 2000 Series Transmission	1/0	1
CLUTCH			
11001	CLUTCH Omit Item (Clutch & Control)	0/0	0
REAR AXLES, SUSPENSIONS			
14AHJ	AXLE, REAR, SINGLE {Dana Spicer S30-190D} Single Reduction, 30,000-lb Capacity, Driver Control Locking Differential, W Wheel Ends . Gear Ratio: 6.14	0/368	368
14VAJ	SUSPENSION, REAR, SINGLE 31,000-lb Capacity, Vari-Rate Springs, with 4500-lb Capacity Auxiliary Rubber Springs	0/132	132
FRONT AXLES			
2ARY	AXLE, FRONT NON-DRIVING {Meritor MFS-20-133A} Wide Track, I-Beam Type, 20,000-lb Capacity	186/0	186
FRONT SUSPENSIONS			
3AGA	SUSPENSION, FRONT, SPRING Parabolic Taper Leaf, Shackle Type, 20,000-lb Capacity, with Shock Absorbers	58/0	58
3770	SPRINGS, FRONT AUXILIARY Rubber	10/0	10
CABS, COWLS, BODIES			
16030	CAB Conventional, Day Cab	0/0	0
16ZBT	ACCESS, CAB Steel, Driver & Passenger Sides, Two Steps per Door, for use with Day Cab and Extended Cab	0/0	0
16BAM	AIR CONDITIONER with Integral Heater and Defroster	0/0	0
16WBY	ARM REST, RIGHT, DRIVER SEAT	3/0	3
16VKK	CAB INTERIOR TRIM Diamond, for Day Cab	6/1	7

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
	Includes : CONSOLE, OVERHEAD Molded Plastic with Dual Storage Pockets, Retainer Nets and CB Radio Pocket; Located Above Driver and Passenger : DOME LIGHT, CAB Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Reading Lights; Integral to Overhead Console, Center Mounted : SUN VISOR (3) Padded Vinyl; 2 Moveable (Front-to-Side) Primary Visors, Driver Side with Vanity Mirror and Toll Ticket Strap, plus 1 Auxiliary Visor (Front Only), Driver Side		
16VHX	CAB MOUNTING HEIGHT EFFECTS High Cab in Lieu of Mid High Cab Mounting (Approx. 4.5")	0/0	0
16WSK	CAB REAR SUSPENSION Air Bag Type	0/0	0
16XXC	COWL TRAY LID	7/4	11
16ZPH	FLOOR, COATING LINE-X, Applied to Interior Cab Floor	0/0	0
16WLS	FRESH AIR FILTER Attached to Air Intake Cover on Cowl Tray in Front of Windshield Under Hood	0/0	0
16GED	GAUGE CLUSTER Base Level; English with English Electronic Speedometer	0/0	0
	Includes : GAUGE CLUSTER DISPLAY: Base Level (3" Monochromatic Display), Premium Level (5" LCD Color Display); Odometer, Voltmeter, Diagnostic Messages, Gear Indicator, Trip Odometer, Total Engine Hours, Trip Hours, MPG, Distance to Empty/ Refill for : GAUGE CLUSTER Speedometer, Tachometer, Engine Coolant Temp, Fuel Gauge, DEF Gauge, Oil Pressure Gauge, Primary and Secondary Air Pressure : WARNING SYSTEM Low Fuel, Low DEF, Low Oil Pressure, High Engine Coolant Temp, Low Battery Voltage (Visual and Audible), Low Air Pressure (Primary and Secondary)		
16HGH	GAUGE, OIL TEMP, AUTO TRANS for Allison Transmission	1/0	1
16HLX	GAUGE, VOLTMETER Auxiliary Gauge, Located in Center Panel. Standard Cluster Also Includes Digital Voltage Readout	0/0	0
16SEE	GRAB HANDLE, EXTERIOR Chrome, Towel Bar Type, with Anti-Slip Rubber Inserts, for Cab Entry Mounted Left Side at B-Pillar	3/0	3
16XJN	INSTRUMENT PANEL Flat Panel	0/0	0
16HKT	IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster	0/0	0
16SNM	MIRRORS (2) C-Loop, Heated, Black Heads and Arms, 7.5" x 14" Flat Glass, Includes 7.5" x 7" Convex Mirrors, for 102" Load Width	0/0	0
	Notes : Mirror Dimensions are Rounded to the Nearest 0.5"		
16SJW	MIRROR, CONVEX, HOOD MOUNTED {Lang Mekra} (2) Right and Left Sides, Black, Heated, 7.5" Sq.	9/0	9
16VLV	MONITOR, TIRE PRESSURE Omit	-9/-2	-11
16JNT	SEAT, DRIVER {National 2000} Air Suspension, High Back with Integral Headrest, Vinyl, Isolator, 1 Chamber Lumbar, with 2 Position Front Cushion Adjust, -3 to +14 Degree Angle Back Adjust	0/0	0

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
16LUM	SEAT, PASSENGER {National} Non Suspension, High Back with Integral Headrest, Vinyl, with Fixed Back, with Under Seat Storage	33/15	48
16WJU	WINDOW, POWER (2) and Power Door Locks, Left and Right Doors, Includes Express Down Feature	0/0	0
16VSL	WINDSHIELD Heated, Single Piece	0/0	0
16XWJ	WINDSHIELD WIPER BLADES Snow Type	2/0	2
FRAMES			
1CAJ	FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.866" x 3.622" x 0.437" (276.0mm x 92.0mm x 11.1mm); 456.0" (11582mm) Maximum OAL	122/334	456
1LLA	BUMPER, FRONT Swept Back, Steel, Heavy Duty	0/0	0
1WDS	FRAME EXTENSION, FRONT Integral; 20" In Front of Grille	140/-35	105
1LEH	LICENSE PLATE HOLDER Single Plate, Swing Type, Mounted Below Front Bumper	3/0	3
1WEV	WHEELBASE RANGE 146" (370cm) Through and Including 195" (495cm)	93/-93	0
BRAKES			
4091	BRAKE SYSTEM, AIR Dual System for Straight Truck Applications Includes : BRAKE LINES Color and Size Coded Nylon : DRAIN VALVE Twist-Type : GAUGE, AIR PRESSURE (2) Air 1 and Air 2 Gauges; Located in Instrument Cluster : PARKING BRAKE CONTROL Yellow Knob, Located on Instrument Panel : PARKING BRAKE VALVE For Truck : QUICK RELEASE VALVE On Rear Axle for Spring Brake Release: 1 for 4x2, 2 for 6x4 : SPRING BRAKE MODULATOR VALVE R-7 for 4x2, SR-7 with relay valve for 6x4/8x6	0/0	0
4AZJ	AIR BRAKE ABS {Bendix AntiLock Brake System} 4-Channel (4 Sensor/4 Modulator) Full Vehicle Wheel Control System, with Automatic Traction Control	0/0	0
4GBM	BRAKE, PARKING Manual Push-Pull Pneumatic Parking Brake	1/0	1
4XDT	BRAKES, FRONT {Meritor 16.5X6 Q-PLUS CAST} Air S-Cam Type, Cast Spider, Fabricated Shoe, Double Anchor Pin, Size 16.5" X 6", 23,000-lb Capacity	33/0	33
4EXV	BRAKE CHAMBERS, FRONT AXLE {Bendix} 24 Sqin	4/0	4
4LAA	SLACK ADJUSTERS, FRONT {Haldex} Automatic	14/0	14
4WBX	DUST SHIELDS, FRONT BRAKE for Air Cam Brakes	10/0	10
4XCZ	BRAKES, REAR {Meritor 16.5X7 P} Air S-Cam Type, Cast Spider, Cast Shoe, Double Anchor Pin, Includes Greaseable and Zinc Coated Anchor Pins, Size 16.5" X 7", 38,000-lb Capacity per Axle	0/106	106
4EXT	BRAKE CHAMBERS, REAR AXLE {Bendix EverSure} 36/36 Sqin Spring Brake	0/23	23
4LGA	SLACK ADJUSTERS, REAR {Haldex} Automatic	0/16	16
4WDM	DUST SHIELDS, REAR BRAKE for Air Cam Brakes	0/10	10

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
4LGR	SLACK ADJUSTER PINS Stainless Steel Slack Adjuster Pins/Cotter Pins on Front and Rear	0/0	0
4SPA	AIR COMPRESSOR {Cummins} 18.7 CFM	0/0	0
4EBD	AIR DRYER {Wabco System Saver 1200} with Heater	7/4	11
4VKC	AIR DRYER LOCATION Mounted Inside Left Rail, Back of Cab	13/8	21
4VGN	AIR TANK Painted Aluminum, with Straight Thread O-Ring Ports	-12/-4	-16
4WZJ	AIR TANK LOCATION (2) : One Mounted Under Each Rail, Front of Rear Suspension, Parallel to Rail	-36/56	20
4WWZ	DRAIN VALVE (3) with Pull Chains for Air Tanks	0/0	0
4619	TRAILER CONNECTIONS Four-Wheel, with Hand Control Valve and Tractor Protection Valve, for Straight Truck	2/0	2
	Notes : When electronic stability control is ordered with trailer connections on a 4x2 truck, please check the operator manual for trailer weight restrictions.		
STEERING			
5PTB	STEERING GEAR (2) {Sheppard M100/M80} Dual Power	101/-5	96
5710	STEERING COLUMN Tilting and Telescoping	16/3	19
5CAW	STEERING WHEEL 4-Spoke; 18" Dia., Black	0/0	0
DRIVELINES			
6DGC	DRIVELINE SYSTEM {Dana Spicer} SPL170, for 4x2/6x2	8/30	38
EXHAUST SYSTEMS			
7BLW	EXHAUST SYSTEM Horizontal Aftertreatment System, Frame Mounted Right Side Under Cab, for Single Vertical Tail Pipe, Frame Mounted Right Side Back of Cab	126/50	176
7BEU	AFTERTREATMENT COVER Aluminum	8/3	11
7SDP	ENGINE COMPRESSION BRAKE {Jacobs} for Cummins ISL/L9 Engines; with Selector Switch and On/Off Switch	40/8	48
7WDM	EXHAUST HEIGHT 10'	15/12	27
7WBS	MUFFLER/TAIL PIPE GUARD (1) Bright Stainless Steel	14/11	25
7WAZ	TAIL PIPE (1) Turnback Type	5/5	10
ELECTRICAL SYSTEMS			
8000	ELECTRICAL SYSTEM 12-Volt, Standard Equipment	0/0	0
	Includes : DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab : HAZARD SWITCH Push On/Push Off, Located on Instrument Panel to Right of Steering Wheel : HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever : PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light : STARTER SWITCH Electric, Key Operated		

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
	: STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector : TURN SIGNAL SWITCH Self-Cancelling for Trucks, Manual Cancelling for Tractors, with Lane Change Feature : WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever : WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted : WIRING, CHASSIS Color Coded and Continuously Numbered		
12VYL	ACCESSORY WIRING, SPECIAL for Road Speed Wire Coiled Under Instrument Panel for Customer Use	0/0	0
8GXD	ALTERNATOR {Leece-Neville AVI160P2013} Brush Type, 12 Volt, 160 Amp Capacity, Pad Mount, with Remote Sense	0/0	0
8RPP	ANTENNA Shark Fin, Roof Mounted	1/0	1
8THJ	AUXILIARY HARNESS 3.0' for Auxiliary Front Head Lights and Turn Signals for Front Plow Applications	2/0	2
8THB	BACK-UP ALARM Electric, 102 dBA	0/3	3
8XDU	BATTERY BOX Steel, with Aluminum Cover, 14" Wide, 2-3 Battery Capacity, Mounted Left Side Under Cab	-12/6	-6
8XHD	BATTERY DISCONNECT SWITCH 300 Amp, Disconnects Charging Circuits, Locks with Padlock, Cab Mounted	2/0	2
8MSG	BATTERY SYSTEM {Fleetrite} Maintenance-Free, (3) 12-Volt 1980CCA Total, Top Threaded Stud	24/29	53
8HAU	BODY BUILDER WIRING INSIDE CAB; Includes Sealed Connectors for Tail/ Amber, Turn/Marker/Backup/Accessory, Power/Ground, and Stop/Turn	1/0	1
8REA	2-WAY RADIO Wiring Effects; Wiring with 20 Amp Fuse Protection, Includes Ignition Wire with 5 Amp Fuse, Wire Ends Heat Shrink and 10' Coil Taped to Base Harness	2/0	2
8XAH	CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III with Trip Indicators, Replaces All Fuses	0/0	0
8518	CIGAR LIGHTER Includes Ash Cup	1/0	1
8WPH	CLEARANCE/MARKER LIGHTS (5) {Truck Lite} Amber LED Lights, Flush Mounted on Cab or Sunshade	0/0	0
8HAG	ELECTRIC TRAILER BRAKE/LIGHTS Accommodation Package to Rear of Frame; for Separate Trailer Stop, Tail, Turn, Marker Light Circuits; Includes Electric Trailer Brake accommodation package with Cab Connections for Mounting Customer Installed Electric Brake Unit, Less Trailer Socket	0/2	2
8XNY	HEADLIGHTS Halogen	0/0	0
8WRB	HEADLIGHTS ON W/WIPERS Headlights Will Automatically Turn on if Windshield Wipers are turned on	0/0	0
8XHN	HORN, AIR Single Trumpet, Black, with Lanyard Pull Cord	3/0	3
8VAY	HORN, ELECTRIC Disc Style	0/0	0
8WWJ	INDICATOR, LOW COOLANT LEVEL with Audible Alarm	0/0	0
8RPS	RADIO AM/FM/WB/Clock/Bluetooth/USB Input/Auxiliary Input	3/0	3

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
8RMZ	SPEAKERS (2) 6.5" Dual Cone Mounted in Both Doors, (2) 5.25" Dual Cone Mounted in Both B-Pillars	5/3	8
8WXG	STARTING MOTOR (Mitsubishi Electric Automotive America 105P) 12-Volt, with Soft-Start	9/1	10
8WPZ	TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except Back-up Lights	0/0	0
8TKK	TRAILER AUXILIARY FEED CIRCUIT for Electric Trailer Brake Accommodation/ Air Trailer ABS; with 30 Amp Fuse and Relay, Controlled by Ignition Switch	1/0	1
8XGT	TURN SIGNALS, FRONT Includes LED Side Turn Lights Mounted on Fender	0/0	0
8WGL	WINDSHIELD WIPER SPD CONTROL Force Wipers to Slowest Intermittent Speed When Park Brake Set and Wipers Left on for a Predetermined Time	0/0	0
FRONT END			
9WBC	FRONT END Tilting, Fiberglass, with Three Piece Construction, for WorkStar/HV	0/0	0
9WAC	BUG SCREEN Mounted Behind Grille	5/0	5
9585	FENDER EXTENSIONS Rubber	6/0	6
9HBM	GRILLE Stationary, Chrome	0/0	0
9HBN	INSULATION, SPLASH PANELS for Sound Abatement	2/0	2
9AAB	LOGOS EXTERIOR Model Badges	0/0	0
9AAE	LOGOS EXTERIOR, ENGINE Badges	0/0	0
SPEEDOMETER, TOOLS, MISC			
10AGB	COMMUNICATIONS MODULE Telematics Device with Over the Air Programming; Includes Five Year Data Plan and International 360	1/0	1
10060	PAINT SCHEMATIC, PT-1 Single Color, Design 100 Includes : PAINT SCHEMATIC ID LETTERS "WK"	0/0	0
10761	PAINT TYPE Base Coat/Clear Coat, 1-2 Tone	0/0	0
10SLV	PROMOTIONAL PACKAGE Government Silver Package	0/0	0
10769	PAINT CLASS Premium Color	0/0	0
FUEL TANKS			
15SXJ	FUEL TANK Top Draw, Non-Polished Aluminum, 24" Dia, 50 US Gal (189L), Mounted Left Side, Under Cab	29/5	34
15WCN	DEF TANK 5 US Gal (19L) Capacity, Frame Mounted Outside Left Rail, Under Cab	-2/19	17
15924	FUEL TANK STRAPS Bright Finish Stainless Steel	0/0	0
15LNR	FUEL/WATER SEPARATOR (Racor 400 Series) with Primer Pump, Includes Water-in-Fuel Sensor, Mounted on Engine	0/0	0
WHEELS, TIRES - FRONT			

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
27DUL	WHEELS, FRONT (Accuride 29300) DISC; 22.5x9.00 Rims, Powder Coat Steel, 5-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs	72/0	72
7652543287	(2) TIRE, FRONT 315/80R22.5 Load Range L X WORKS Z (MICHELIN), 485 rev/mile, 68 MPH, All-Position	64/0	64
WHEELS, TIRES - REAR			
28DUL	WHEELS, REAR (Accuride 29300) DUAL DISC: 22.5x9.00 Rims, Powder Coat Steel, 5-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs	0/144	144
7792545437	(4) TIRE, REAR 315/80R22.5 Load Range L HAU 3 WT (CONTINENTAL), 480 rev/mile, 68 MPH, All-Position	0/124	124
BODY INTEGRATION			
60AAH	BDY INTG, REMOTE POWER MODULE (2) Mounted Inside Cab Behind Driver Seat, Up to 6 Outputs & 6 Inputs Each, Max 20 amp per Channel, Max 80 amp Total; Includes 2 Switch Packs with Latched Switches	0/0	0
60AKY	BDY INTG, DASH IND LT TRICOLOR (1) for Optional Usage Customer to Program	0/0	0
60AJK	BDY INTG, INDICATOR LIGHTS (2) 1 for Body Up, 1 for Gate Open, Includes Audible Alarm, Programmable Mode for Various Switch Actions. (Requires 2 Remote Power Module Inputs)	0/0	0
60ABE	BDY INTG, PTO ACCOMMODATION for Electric over Hydraulic PTO, Does Not Include Solenoids, with Latched Switch Mounted on Dash Includes Audible Alarm and Indicator Light in Gauge Cluster (Requires 1 Remote Power Module Input & 1 output)	0/0	0
60ACT	BDY INTG, SWITCH MOMNTRY 3POS Rocker, Backlit, with "ON" Indicator Mounted on Dash, Latching Software, for 2; Auxiliary Load 20 amp. Maximum; Power Available Only in "Ignition" or "Accessory" Position, Output Also Controlled by a Customer Remote Mounted Switch (requires 2 Remote Power Module Inputs & 2 outputs)	0/0	0
	Services Section:		
WARRANTY			
40128	WARRANTY Standard for HV507, HV50B, HV607 Models, Effective with Vehicles Built July 1, 2017 or Later, CTS-2025A	0/0	0
40YZL	SRV CONTRACT, EXT CMS ENG/AFTR (Cummins) To 60-Month/100,000 Miles (160,000 km), Extended Cummins L9 Engine Coverage, Protection Plan 1 and Aftertreatment, (Truck Application Only)	0/0	0
40YAP	SRV CONTRACT, EXT VEH COVERAGE (Navistar) To 60-Month/100,000 Miles (160,000 km), Excludes Extended Warranty for Engine and Transmission	0/0	0
	Total Component Weight:	**7841/5222 (lbs)**	**13063 (lbs)**
2	Equipment Specialists - Body Equip	0/0	0
	Total Body Allied:	**0/0 (lbs)**	**0 (lbs)**

The weight calculations included in this proposal are an estimate of future vehicle weight. The actual weight as manufactured may be different from the estimated weight. Navistar, Inc. shall not be liable for any consequences resulting from any differences between the estimated weight of a vehicle and the actual weight.

H36

EQUIPMENT SPECIALISTS

180 Roberts Street, East Hartford CT 06108 Tel: (860) 296-7000 • www.ES-CT.com

September 25, 2023

NUTMEG IH
ATTN: Marc Palumbo

TENCO 12M-10-ES EQUIPMENT PKG

REF: WATERFORD

Chassis Requirements

- ❖ Chassis MUST HAVE Clear Right-Side Frame Rail Behind Cab (as much as Possible) for Valve and Tank Mounting. Relocating of Components Interfering in Installation will be Billed at Shop Rate of $197 per Hour

- ❖ Chassis Must Have factory option switches, 6-Minimum preferred
- ❖ Minimum 44,000 GVW Six (6) Wheel Cab & Chassis
- ❖ 96" to 102" cab to axle measurement
- ❖ Allison 3000 or Higher Transmission
- ❖ INTEGRAL Front Frame Extensions
- ❖ Three (3) indicator lights for body up, gate open and low oil
- ❖ Snow Plow Prep Package for Plow Lights
- ❖ Air and Electric to Rear
- ❖ Electric Trailer Brake Prep Package in cab
- ❖ Ground speed output for electronic sander control
- ❖ PTO switch in dash and wired to right side of transmission for Chelsea HOT shift PTO.

Additional charges may apply for items not supplied on chassis

Equipment Package to include the following:

BODY:

- ➢ Tenco 12M-10-ES All Season Body
- ➢ Body Construction 3/16" Hardox 450 Steel 205,000 Psi And Stainless Steel
- ➢ Hardox 450 205,000 Psi Walls, Headsheet, Tailgate, Floor, & Chain Cover
- ➢ 304# 3/16" Stainless Steel Rear Cornerposts
- ➢ Stainless Steel Removable Conveyor System
- ➢ **Stainless Steel Hydraulic Body Lines**
- ➢ 6.0 Cubic Yard Capacity Level
- ➢ 39" Airgate with Coal Door on LEFT Side
- ➢ Three (3) Section Bolt-On Pillow Block Floor Hinge
- ➢ Bolt-on Asphalt Apron
- ➢ Mailhot CS-90 Stage Telescopic Main Dump
- ➢ 30" Cabshield Fully reinforced
- ➢ Open Understructure With 3" C-Channel
- ➢ Three (3) Section Bolt-on Pillow Block Floor Hinge with remote Grease Manifold
- ➢ Two (2)Bank Grease Manifold for Rear Bearings
- ➢ REAR DRIVERSIDE SS SWING-UP LADDER
- ➢ Access Step over Gearbox

- Grease Actuators For Chain Tensioning
- Poly Discharge Chute Chassis-Mount
- 16" Poly Spinner
- 3-1/2" X 22" Side Dump Cylinders 19 Ton Capacity
- Front & Rear Mud Flaps With Anti-Sail On Stainless Steel Brackets
- Additional Flap In Front Of Discharge Chute
- Center Flap To Protect Brake Chambers With Stainless Steel Brackets
- Conspicuity Tape & Safety Stickers As Required
- Shovel Holder With Snap Pin
- Wheel Chock Holder With Chocks

PLOW FRAME:

- Plow Frame With 4" X 10" Da Lift Cylinder And Multiple Push Point
- 5/8" Cheek Plates
- TWO (2) Shovel/broom Holders (round) On PLOW FRAME- (for long handle)
- Plow Relief Circuit For Ease Of Plow Disconnect

MID-MOUNT WING:

- Tenco 8' Mid-Mount Wing with Additional Hydraulics
- LED Spot Light
- LED Wing Strobe

HYDRAULIC SYSTEM:

- 37 Gallon Hydraulic Reservoir With Sight/Temp Gauge
- Hydraulic Filter With Indicator
- Low Oil Alert Light
- 2" Ball Valve Shut-Offs
- Suction Line Strainer
- 75cc Variable Displacement Pump
- Hot-Shift Wet-Spline PTO Via Allison 3000 Series & Chassis-Supplied Switch
- Force America SEVEN (7) Bank Cable Load Sense Valve System
- SEVEN (7) Cable Controls For Body, Load Cover, Plow, & Wing Functions, Mounted On Custom Reinforced Tower
- Stainless Steel Valve Enclosure
- Force America 5100EX Spreader Control
- Stainless Steel Hydraulic Manifold & ½" Stainless Steel Piping Throughout Utilizing Short Lengths Of Hose & Swivel Fittings

ELECTRICAL:

- Body LED ICC Lighting
- LED Spinner Light With In Cab Switch
- LED Load Light With In Cab Switch
- Heated LED Plow Lights Mounted On Stainless Steel Brackets Utilizing Chassis Plow Light Circuitry
- SOUND OFF System GREEN/AMBER Four (4) Strobe with three light rear cluster in Rear Corner Posts.
- LED STROBES ON PLOW LIGHT BRACKETS
- Allied Lighting To Be Tied Into Factory Aux Switches
- PTO To Be Switch To Be Chassis-Supplied

LOAD COVER & PINTLE ASSEMBLY:

- Hydraulic Load Cover
- ¾" Rear Plate With 25 Ton Pintle, Gladhands, And 7 Way Rv Electrical Plug
- Electric Brake Controller

MISCELLANEOUS:

- Poly Fenders
- 24" x 18" x 18" SS Toolbox
- Body Painted GREEN
- Black Enamel Applied To Plow Frame, Pintle Assy, & Body Understructure
- ARMOURSEAL BODY AND CHASSIS (UNDERCARRIAGE)
- Complete Package Installed & Operational On Chassis With Front Frame Extension And **96-102" CA***

***Chalmers suspension will allow unlimited placement of body, Spring Suspension limits the body placement. We recommend 102" CA with <u>Chalmers Suspension</u>**

FOB: Hartford, CT..... **$ 131,869.00**

OPTIONS:

A.	DUAL LED REAR LIGHTS.....	$ 580.00
B.	COMPLETE BODY GREASE MANIFOLD.....	$ 1600.00
C.	SINGLE CAMERA.....	$ 1065.00
D.	AUGER SENSOR FOR CLOSED LOOP HYDS.....	$ 1600.00

QUOTE VALID: 30 DAYS

Respectfully Submitted,

Glenn Slade
Sales Consultant
Equipment Specialists

Cives Corporation, dba
Viking Cives (USA)
14331 Mill Street
Harrisville, NY 13648
Phone: (315) 543-2321
Fax: (315) 543-2366
www.vikingcives.com

QUOTATION

Quote ID: 3

2012 Factory/Shipper Catalog

Customer: Town of Waterford
Contact:
Address: Note: Purchase thru Vikings Sourcewell Contract #080114-VCM

Plow Quote

Phone: Sold thru our Waterbury CT location, contact Chris Rose with any questions: 860-936-5091
Fax:
Attn: Garon

Quote Number: 39247
Quote Date: 11/14/2023
Quote valid until: 12/14/2023
For: Waterford
Terms: Net 30 days
Salesperson: Chris Rose
FOB: Waterford

QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
1	Viking 11' power angle snow plow model PRR113645FEF, 36" high from the left edge the center raising to 45" high at the right edge, full trip moldboard including cylinder type reverse with cushion valve, 30 1/2" on center drive ears, no cutting edge, curb and moldboard shoes, cable drum lift, 12" rubber cross flap and plow guides. Option 1: Rubber cutting edge with steel cover blade..... Add $1,050.00		

Includes +5% Increase for 2024

Quote Total:	**$9,181.00**
Discount:	**$0.00**
Total Due:	**$9,181.00**

The following options may be added:

QUANTITY	DESCRIPTION	PRICE EACH	AMOUNT

Customer must fill out the information below before the order can be processed...

Accepted by:	
Date:	
P.O. number:	

The price and terms on this quotation are not subject to verbal changes or other agreements unless approved in writing by the Home Office of the Seller. All quotations and agreements are contingent upon strikes, accidents, fires, availability of material and all other causes beyond our control. Prices are based on costs and conditions existing on date of quotation and are subject to change by the Seller before final acceptance.

- Typographical and stenographic errors subject to corrections. Purchaser agrees to accept either overage or shortage not in excess of ten percent to be charged pro-rata. Purchaser assumes liability for patent and copyright infringement when goods are mode to Purchaser's specifications. When quotation specifies material to be furnished by the purchaser, ample allowance must be made for reasonable spoilage and material must be of suitable quality to facilitate efficient production.
- Conditions not specifically stated herein shall be governed by the established trade customs. Terms inconsistent with those stated herein which may appear on Purchaser's formal order will not be binding on the Seller.
- Unless otherwise stated, Installation charges do not include modifications to exhaust systems, cab protectors or bumpers.

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NGP530 VEHICLE ORDER CONFIRMATION 10/04/23 07:09:5
=> Dealer: F1122.
2024 F-SERIES SD Page: 1 of
Order No: 0000 Priority: L3 Ord FIN: QS048 Order Type: 5B Price Level: 42
Ord Code: 660A Cust/Flt Name: WATWRFORD PO Number:

		RETAIL	DLR INV			RETAIL	DLR INV
F5H	F550 4X4 CHAS/C	$56920	$54074.00		18000# GVWR PKG		
	169" WHEELBASE			425	50 STATE EMISS	NC	NC
W6	GREEN GEM	660	600.00	473	SNOW PLOW PREP	250	228.00
A	VNYL 40/20/40			512	SPARE TIRE/WHL2	350	319.00
S	MED DARK SLATE			61J	JACK	NC	NC
660A	PREF EQUIP PKG			65Z	AFT AXLE TANK	NC	NC
	.XL TRIM			67A	350 AMP ALTRNTR	NC	NC
572	.AIR CONDITIONER	NC	NC	86M	DUAL BATTERY	NC	NC
	.AMFM/MP3/CLK			945	SS WHEEL COVERS	500	455.00
99T	6.7L V8 DIESEL	9995	9096.00		SP FLT ACCT CR		(1904.00)
44G	10-SPD AUTOMATC	NC	NC		FUEL CHARGE		45.10
TGK	225 MAX TRAC	215	195.00		DEST AND DELIV	1995	1995.00
X41	4.10 REG AXLE	NC	NC	TOTAL	BASE AND OPTIONS	71205	65394.10
	FRT LICENSE BKT	NC	NC	TOTAL		71205	65394.10
18B	PLAT RUNNING BD	320	291.00	*THIS	IS NOT AN INVOICE*		

=Help F2=Return to Order F3/F12=Veh Ord Menu
F4=Submit F5=Add to Library
6099 - PRESS F4 TO SUBMIT QC06048

Budgetary 2025 68,395.

Upfit 115,400.

183,795

Budgetary →

Cives Corporation, dba
Viking Cives (USA)
14331 Mill Street
Harrisville, NY 13648
Phone: (315) 543-2321
Fax: (315) 543-2366
www.vikingcives.com

QUOTATION

Quote ID: 3

2012 Factory/Shipper Catalog

HARTFORD TRUCK EQUIPMENT
95 John Flich Blvd. South Windsor, CT
860.280.9516 HartfordTruck.com
sales@hartfordtruck.com

QUOTATION

Quote: 092823-SB2
Ref: 23 F550 84" CA DRW
End User:
Date: 09/28/23

Town of Waterford – Garon

We are pleased to quote on the following
One (1) Reading Master Mechanic RM45 crane body including;
- Crane reinforcement curbside rear
- 60" high front roadside & curbside compartments
- 2nd curbside front, set up for O/A
- **(no compartment lighting in body with O/A set up)**
- Welder drawer in curbside first compartment
- Both front roadside compartments with 5-drawer storage unit
- 46" high rear curbside & roadside compartments
- Bolt bin in roadside horizontal compartment
- Master Locking slide bar system
- Four (4) exterior work lights
- Six (6) integrated tie-downs in cargo area
- Non-skid application in cargo area, top & back of compartments, tail skirt,
- 20" work bench bumper

Hydraulic outrigger
- Body is painted white
- 97db back up alarm, two (2) rear mud flaps, FMVSS lights & reflectors

Central Hydraulic Set Up
One (1) VanAir RS45 Compressor installed on top of C/S compartment
One (1) Liftmoore 6040DX WP crane including; **wireless control**, Hydraulic Crane
- boom rest, extra leaf springs, 6000lbs at 6', power rotation, elevation & extension to 16' (manual to 20')

One (1) Full size LED Amber lightbar mounted to the roof
- Tied to switch in cab

Four (4) Corner LED Amber Lights installed two in grill, two in rear of body
- Tied to switch in cab

One (1) **Fisher** plow model 9' **Heavy Contractor** w/ hand held controller, including:
- 9' long x 34" high. Blade approximately weighs 1,100 lbs.

Installed Municipal Budgetary Price: $ 115,400.00

Options:
Liftgate custom fit, remove tailgate and bumper *5,500.00*

Initial : _____ Vin:_____ Date:_____

**NOTE: Hartford Truck Equipment will accept dealer purchase orders for pool chassis without a plant date on a "subject to change" basis only. If the chassis does not have a plant date when the dealer PO is issued and our body/equipment manufacturer announces a price change that would affect the items on your PO, a revised PO will be required reflecting these price changes.

Terms: NET DUE ETA: TBD
for additional terms and signature complete 2nd page

Respectfully Submitted: Sean Breslin Hartford Truck Equipment Inc.
REV: F 3/28/2022

MV607 SBA

Sales Proposal For:

TOWN OF WATERFORD

Presented By:

ALLEGIANCE TRUCKS

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INTERNATIONAL®

Financial Summary
2025 MV607 SBA (MV607)

October 03, 2023

(US DOLLAR)

Description		Price
Net Sales Price:		$235,640.15
Memo Item(s):		
Body/Allied Equipment:	$132,410.00	*Body Price included in pricing*
Note: Memo item(s) shown here are included in the above Net Sales Price.		

Please feel free to contact me regarding these specifications should your interests or needs change. I am confident you will be pleased with the quality and service of an International vehicle.

NOTE: PRICING IS CURRENT FOR MODEL YEAR 2025 / PRODUCTION CALENDAR YEAR 2024 BUT IF INTERNATIONAL LEVIES ADDITIONAL SURCHARGES DUE TO VENDORS INCREASING PRICING OR GOVERMENT MANDATES (EPA, ETC.) I WILL NEED TO RE-PRICE THE CHASSIS AT THAT POINT.
WHILE EVERY EFFORT WILL BE APPLIED TO SUPPLY THIS TRUCK, PRODUCTION IS LIMITED, WE CANNOT GUARANTEE A BUILD SLOT FOR EVERY ORDER PLACED DUE TO SUPPLY CHAIN CONSTRAINTS.
NAVISTAR HAS PUT A $5,000 ORDER CANCELLATION IN PLACE ON ALL ORDERS.
A $5000 DEPOSIT IS NOW REQUIRED FOR ALL ORDERS TO BE PLACED. IN THE EVENT YOU CANCEL AN ORDER YOU WILL FORFEIT YOUR DEPOSIT.

Approved by Seller:

Official Title and Date

Authorized Signature

ALLEGIANCE TRUCKS
130 BRAINARD RD
HARTFORD CT 06114 -
(860)249-8635

Accepted by Purchaser:

Firm or Business Name

Authorized Signature and Date

This proposal is not binding upon the seller without Seller's Authorized Signature

Official Title and Date

The TOPS FET calculation is an estimate for reference purposes only. The seller or retailer is responsible for calculating and reporting/paying appropriate FET to the IRS.

The limited warranties applicable to the vehicles described herein are Navistar, Inc.'s standard printed warranties which are incorporated herein by reference and to which you have been provided a copy and hereby agree to their terms and conditions.

INTERNATIONAL®

October 03, 2023

Prepared For:
TOWN OF WATERFORD
Garon VanOverloop
15 ROPE FERRY RD.
WATERFORD, CT 06385-
(860)444 - 5867
Reference ID: N/A

Presented By:
ALLEGIANCE TRUCKS
Marc Palumbo
130 BRAINARD RD
HARTFORD CT 06114 -
(860)249-8635

Thank you for the opportunity to provide you with the following quotation on a new International truck. I am sure the following detailed specification will meet your operational requirements, and I look forward to serving your business needs.

Model Profile
2025 MV607 SBA (MV607)

AXLE CONFIG:	4X2
APPLICATION:	Landscape Dump
MISSION:	Requested GVWR: 25500. Calc. GVWR: 25999. Calc. GCWR: 50000 Calc. Start / Grade Ability: 57.65% / 3.23% @ 55 MPH Calc. Geared Speed: 72.8 MPH
DIMENSION:	Wheelbase: 163.00, CA: 95.90, Axle to Frame: 61.00
ENGINE, DIESEL:	{Cummins B6.7 300} EPA 2024, 300HP @ 2600 RPM, 660 lb-ft Torque @ 1600 RPM, 2600 RPM Governed Speed, 300 Peak HP (Max)
TRANSMISSION, AUTOMATIC:	{Allison 3500 RDS} 6th Generation Controls, Wide Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, with 80,000-lb GVW and GCW Max, On/Off Highway
CLUTCH:	Omit Item (Clutch & Control)
AXLE, FRONT NON-DRIVING:	{Meritor MFS-12-122A} I-Beam Type, 12,000-lb Capacity
AXLE, REAR, SINGLE:	{Meritor MS-21-14X-3DCL} Single Reduction, 21,000-lb Capacity, Driver Controlled Locking Differential, 190 Wheel Ends Gear Ratio: 5.29
CAB:	Conventional, Day Cab
TIRE, FRONT:	(2) 245/70R19.5 Load Range H R238 (BRIDGESTONE), 623 rev/mile, 75 MPH, All-Position
TIRE, REAR:	(4) 245/70R19.5 Load Range H HYBRID HD3 (CONTINENTAL), 623 rev/mile, 81 MPH, Drive
SUSPENSION, REAR, SINGLE:	23,500-lb Capacity, Vari-Rate Springs, with 4500-lb Capacity Auxiliary Rubber Springs
PAINT:	Cab schematic 100WP Location 1: 5047, Green (Prem) Chassis schematic N/A

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
MV60700	Base Chassis, Model MV607 SBA with 163.00 Wheelbase, 95.90 CA, and 61.00 Axle to Frame.	5354/2774	8128
AXLE CONFIGURATION			
1ANA	AXLE CONFIGURATION {Navistar} 4x2	0/0	0
	Notes : Pricing may change if axle configuration is changed.		
ENGINE			
12EXX	ENGINE, DIESEL {Cummins B6.7 300} EPA 2024, 300HP @ 2600 RPM, 660 lb-ft Torque @ 1600 RPM, 2600 RPM Governed Speed, 300 Peak HP (Max)	0/0	0
12VJR	EMISSION, CALENDAR YEAR {Cummins B6.7} EPA, OBD and GHG Certified for Calendar Year 2024	0/0	0
12XCS	CARB EMISSION WARR COMPLIANCE Does Not Comply with CARB Emission Warranty	0/0	0
12WZE	CARB IDLE COMPLIANCE Does Not Comply with California Clean Air Idle Regulations	0/0	0
12WVG	EPA IDLE COMPLIANCE Low NOx Idle Engine, Complies with EPA Clean Air Regulations; Includes "Certified Clean Idle" Decal on Hood	0/0	0
12XCE	RADIATOR Aluminum, 3-Row, Down Flow, Front to Back System, 738 Sqln Louvered, with 477 Sqln Charge Air Cooler, Includes In-Tank Oil Cooler	0/0	0
12TSY	FAN DRIVE {Borg-Warner SA85} Viscous Type, Screw On	0/0	0
	Includes : FAN Nylon		
12VCE	AIR CLEANER Single Element, Fire Retardant Media	0/0	0
12703	ANTI-FREEZE Red, Extended Life Coolant; To -40 Degrees F/ -40 Degrees C, Freeze Protection	0/0	0
12849	BLOCK HEATER, ENGINE 120V/1000W, for Cummins ISB/B6.7/ISL/L9 Engines	3/0	3
	Includes : BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door		
12VYP	ENGINE CONTROL, REMOTE MOUNTED No Provision for Remote Mounted Engine Control	0/0	0
12WPV	OIL PAN 15 Quart Capacity, For Cummins ISB/B6.7 Engines	0/0	0
12VXT	THROTTLE, HAND CONTROL Engine Speed Control; Electronic, Stationary, Variable Speed; Mounted on Steering Wheel	0/0	0
12EMZ	VENDOR WARRANTY, ENGINE {Cummins} B6.7 Engine, 3-Year Unlimited Miles Standard Warranty	0/0	0
TRANSMISSION			
13BDR	TRANSMISSION, AUTOMATIC {Allison 3500 RDS} 6th Generation Controls, Wide Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, with 80,000-lb GVW and GCW Max, On/Off Highway	215/68	283
13WYH	TRANSMISSION TCM LOCATION Located Inside Cab	0/0	0

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
13WUC	ALLISON SPARE INPUT/OUTPUT for Rugged Duty Series (RDS) and Regional Haul Series (RHS), General Purpose Trucks, Construction, Package Number 223	0/0	0
13WVV	NEUTRAL AT STOP Allison Transmission Shifts to Neutral When Service Brake is Depressed and Vehicle is at Stop; Remains in Neutral Until Service Brake is Released	0/0	0
13XAL	PTO LOCATION Customer Intends to Install PTO at Left Side of Transmission	0/0	0
13WYU	SHIFT CONTROL PARAMETERS (Allison) 3000 or 4000 Series Transmissions, Performance Programming	0/0	0
13WLP	TRANSMISSION OIL Synthetic; 29 thru 42 Pints	0/0	0
13WET	TRANSMISSION SHIFT CONTROL Column Mounted Stalk Shifter, Not for Use with Allison 1000 & 2000 Series Transmission	1/0	1
CLUTCH			
11001	CLUTCH Omit Item (Clutch & Control)	0/0	0
REAR AXLES, SUSPENSIONS			
14APL	AXLE, REAR, SINGLE (Meritor MS-21-14X-3DCL) Single Reduction, 21,000-lb Capacity, Driver Controlled Locking Differential, 190 Wheel Ends . Gear Ratio: 5.29	0/233	233
14VAH	SUSPENSION, REAR, SINGLE 23,500-lb Capacity, Vari-Rate Springs, with 4500-lb Capacity Auxiliary Rubber Springs	0/66	66
14WMG	AXLE, REAR, LUBE (EmGard FE-75W-90) Synthetic Oil; 30 thru 39.99 Pints	0/0	0
14WAP	SHOCK ABSORBERS, REAR (2)	0/45	45
FRONT AXLES			
2ASC	AXLE, FRONT NON-DRIVING (Meritor MFS-12-122A) I-Beam Type, 12,000-lb Capacity	42/0	42
FRONT SUSPENSIONS			
3ADC	SUSPENSION, FRONT, SPRING Parabolic Taper Leaf, Shackle Type, 12,000-lb Capacity, with Shock Absorbers Includes : SPRING PINS Rubber Bushings, Maintenance-Free	36/0	36
CABS, COWLS, BODIES			
16030	CAB Conventional, Day Cab Includes : CLEARANCE/MARKER LIGHTS (5) Flush Mounted	0/0	0
16ZJA	ACCESS, CAB Aluminum, Self-Cleaning, Open and Serrated Design, Driver & Passenger Sides, Two Steps per Door, for use with Day Cab, Extended Cab or Sleeper Cab	-1/0	-1
16BAM	AIR CONDITIONER with Integral Heater and Defroster	56/0	56
16WBY	ARM REST, RIGHT, DRIVER SEAT	3/0	3
16VKB	CAB INTERIOR TRIM Classic, for Day Cab	0/0	0

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
	Includes : CONSOLE, OVERHEAD Molded Plastic with Dual Storage Pockets, Retainer Nets and CB Radio Pocket; Located Above Driver and Passenger : DOME LIGHT, CAB Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Integral to Overhead Console, Center Mounted : SUN VISOR (2) Padded Vinyl; 2 Moveable (Front-to-Side) Primary Visors, Driver Side with Toll Ticket Strap		
16VLM	CAB REAR SUSPENSION Rubber Suspension, for Low Cab Height	0/0	0
16WEE	CAB SOUND INSULATION Includes Dash Insulator and Engine Cover Insulator	8/0	8
16ZPH	FLOOR, COATING LINE-X, Applied to Interior Cab Floor	0/0	0
16WLS	FRESH AIR FILTER Attached to Air Intake Cover on Cowl Tray in Front of Windshield Under Hood	1/0	1
16GED	GAUGE CLUSTER Base Level; English with English Electronic Speedometer	0/0	0
	Includes : GAUGE CLUSTER DISPLAY: Base Level (3" Monochromatic Display), Premium Level (5" LCD Color Display); Odometer, Voltmeter, Diagnostic Messages, Gear Indicator, Trip Odometer, Total Engine Hours, Trip Hours, MPG, Distance to Empty/ Refill for : GAUGE CLUSTER Speedometer, Tachometer, Engine Coolant Temp, Fuel Gauge, DEF Gauge, Oil Pressure Gauge, Primary and Secondary Air Pressure or Auxillary Air Pressure (if Air Equipped) : WARNING SYSTEM Low Fuel, Low DEF, Low Oil Pressure, High Engine Coolant Temp, Low Battery Voltage (Visual and Audible), Low Air Pressure, Primary and Secondary (if Air Equipped)		
16HHE	GAUGE, AIR CLEANER RESTRICTION {Filter-Minder} Mounted in Instrument Panel	2/0	2
16HGH	GAUGE, OIL TEMP, AUTO TRANS for Allison Transmission	1/0	1
16XJN	INSTRUMENT PANEL Flat Panel	0/0	0
16HKT	IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster	0/0	0
16WSE	LOW WASHER FLUID INDICATOR	1/0	1
16SSU	MIRRORS (2) C-Loop, Power Adjust, Heated, Turn Signals, LED Clearance Lights, Bright Heads and Arms, 7" x 14.5" Flat Glass, Includes 8" x 6" Convex Mirrors, for 102" Load Width	0/0	0
	Notes : Mirror Dimensions are Rounded to the Nearest 0.5"		
16SSE	MIRROR, CONVEX, HOOD MOUNTED (2) Right and Left Sides, Breakaway, Bright, Heated	0/0	0
16JNT	SEAT, DRIVER {National 2000} Air Suspension, High Back with Integral Headrest, Vinyl, Isolator, 1 Chamber Lumbar, with 2 Position Front Cushion Adjust, -3 to +14 Degree Angle Back Adjust	-13/-5	-18
16LUM	SEAT, PASSENGER {National} Non Suspension, High Back with Integral Headrest, Vinyl, with Fixed Back, with Under Seat Storage	32/13	45
16WJU	WINDOW, POWER (2) and Power Door Locks, Left and Right Doors, Includes Express Down Feature	5/0	5

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
16VSL	WINDSHIELD Heated, Single Piece	0/0	0
FRAMES			
1CAG	FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.250" x 3.610" x 0.375" (260.4mm x 91.7mm x 9.5mm); 456.0" (11582mm) Maximum OAL	121/284	405
1LSE	BUMPER, FRONT Swept Back, Steel, Painted Gray, Heavy Duty	50/-7	43
1WDS	FRAME EXTENSION, FRONT Integral; 20" In Front of Grille	141/-36	105
1570	TOW HOOK, FRONT (2) Frame Mounted	8/0	8
1WEH	WHEELBASE RANGE 134" (340cm) Through and Including 197" (500cm)	75/-75	0
BRAKES			
4091	BRAKE SYSTEM, AIR Dual System for Straight Truck Applications Includes : BRAKE LINES Color and Size Coded Nylon : DRAIN VALVE Twist-Type : GAUGE, AIR PRESSURE (2) Air 1 and Air 2 Gauges; Located in Instrument Cluster : PARKING BRAKE CONTROL Yellow Knob, Located on Instrument Panel : PARKING BRAKE VALVE For Truck : QUICK RELEASE VALVE On Rear Axle for Spring Brake Release: 1 for 4x2, 2 for 6x4 : SPRING BRAKE MODULATOR VALVE R-7 for 4x2, SR-7 with relay valve for 6x4/8x6	-29/-21	-50
4AZJ	AIR BRAKE ABS {Bendix AntiLock Brake System} 4-Channel (4 Sensor/4 Modulator) Full Vehicle Wheel Control System, with Automatic Traction Control	4/1	5
4GBM	BRAKE, PARKING Manual Push-Pull Pneumatic Parking Brake	1/0	1
4XDD	BRAKES, FRONT {Meritor 15X5 Q-PLUS CAST} Air S-Cam Type, Cast Spider, Fabricated Shoe, Double Anchor Pin, Size 15" X 5", 13,200-lb Capacity	121/0	121
4EXP	BRAKE CHAMBERS, FRONT AXLE {Bendix} 20 Sqin	16/0	16
4LAG	SLACK ADJUSTERS, FRONT {Gunite} Automatic	14/0	14
4XDU	BRAKES, REAR {Meritor 15X8.625 Q-PLUS CAST} Air S-Cam Type, Cast Spider, Fabricated Shoe, Double Anchor Pin, Size 15" X 8.625", 21,000-lb Capacity per Axle	0/197	197
4EXS	BRAKE CHAMBERS, REAR AXLE {Bendix EverSure} 24/30 Sqin Spring Brake	0/35	35
4LGG	SLACK ADJUSTERS, REAR {Gunite} Automatic	0/14	14
4SPA	AIR COMPRESSOR {Cummins} 18.7 CFM	37/1	38
4EDN	AIR DRYER {Bendix AD-9SI} with Heater, Includes Safety Valve	19/-2	17
4VLE	AIR DRYER LOCATION Mounted Inside Engine Compartment, Right Side	0/0	0
4VGN	AIR TANK Painted Aluminum, with Straight Thread O-Ring Ports	-12/-3	-15
4VKH	AIR TANK LOCATION (2) Mounted Under Battery Box, Outside Right Rail, Under Cab	37/14	51
4732	DRAIN VALVE {Berg} with Pull Chain, for Air Tank	0/0	0

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
STEERING			
5PSA	STEERING GEAR {Sheppard M100} Power	28/-6	22
5708	STEERING COLUMN Tilting	14/2	16
5CAW	STEERING WHEEL 4-Spoke; 18" Dia., Black	0/0	0
DRIVELINES			
6DGA	DRIVELINE SYSTEM {Dana Spicer} SPL100, for 4x2/6x2	0/0	0
EXHAUST SYSTEMS			
7BMJ	EXHAUST SYSTEM Horizontal Aftertreatment System, Frame Mounted Under Right Rail Back of Cab, for Single Vertical Tail Pipe, Frame Mounted Right Side Back of Cab	75/48	123
7SCP	ENGINE EXHAUST BRAKE for Cummins ISB/B6.7/ISL/L9 Engine with Variable Vane Turbo Charger	0/0	0
7WDM	EXHAUST HEIGHT 10'	15/12	27
7WBS	MUFFLER/TAIL PIPE GUARD (1) Bright Stainless Steel	13/11	24
7WBA	TAIL PIPE (1) Turnback Type, Bright	5/4	9
ELECTRICAL SYSTEMS			
8000	ELECTRICAL SYSTEM 12-Volt, Standard Equipment Includes : DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab : HAZARD SWITCH Push On/Push Off, Located on Instrument Panel to Right of Steering Wheel : HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever : PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light : STARTER SWITCH Electric, Key Operated : STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector : TURN SIGNAL SWITCH Self-Cancelling for Trucks, Manual Cancelling for Tractors, with Lane Change Feature : TURN SIGNALS, FRONT Includes Reflectors and Auxiliary Side Turn Signals, Solid State Flashers; Flush Mounted : WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever : WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted : WIRING, CHASSIS Color Coded and Continuously Numbered	0/0	0
12VYL	ACCESSORY WIRING, SPECIAL for Road Speed Wire Coiled Under Instrument Panel for Customer Use	0/0	0
8GXD	ALTERNATOR {Leece-Neville AVI160P2013} Brush Type, 12 Volt, 160 Amp Capacity, Pad Mount, with Remote Sense	0/0	0
8RPP	ANTENNA Shark Fin, Roof Mounted	1/0	1
8THJ	AUXILIARY HARNESS 3.0' for Auxiliary Front Head Lights and Turn Signals for Front Plow Applications	2/0	2
8THB	BACK-UP ALARM Electric, 102 dBA	0/3	3

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
8VUX	BATTERY BOX Steel, with Plastic Cover, 25" Wide, 2-3 Battery Capacity, Mounted Right Side Under Cab	0/0	0
8MJT	BATTERY SYSTEM {Fleetrite} Maintenance-Free, (2) 12-Volt 1900CCA Total, Top Threaded Stud	7/7	14
8HAU	BODY BUILDER WIRING INSIDE CAB; Includes Sealed Connectors for Tail/ Amber, Turn/Marker/Backup/Accessory, Power/Ground, and Stop/Turn	1/0	1
8XAH	CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III with Trip Indicators, Replaces All Fuses	0/0	0
8518	CIGAR LIGHTER Includes Ash Cup	1/0	1
8WPH	CLEARANCE/MARKER LIGHTS (5) {Truck Lite} Amber LED Lights, Flush Mounted on Cab or Sunshade	1/0	1
8HAH	ELECTRIC TRAILER BRAKE/LIGHTS Accommodation Package to Rear of Frame; for Combined Trailer Stop, Tail, Turn, Marker Light Circuits; Includes Electric Trailer Brake Accommodation Package with Cab Connections for Mounting Customer Installed Electric Brake Unit, Less Trailer Socket	0/2	2
8WXB	HEADLIGHT WARNING BUZZER Sounds When Head Light Switch Is on and Ignition Switch is in "Off" Position	0/0	0
8XNZ	HEADLIGHTS Halogen, with Daytime Running Lights	0/0	0
8WRB	HEADLIGHTS ON W/WIPERS Headlights Will Automatically Turn on if Windshield Wipers are turned on	0/0	0
8XHN	HORN, AIR Single Trumpet, Black, with Lanyard Pull Cord	3/0	3
8VBE	HORN, ELECTRIC (1) Trumpet Style	0/0	0
8WWJ	INDICATOR, LOW COOLANT LEVEL with Audible Alarm	0/0	0
8WBW	JUMP START STUD Remote Mounted	2/0	2
	Includes : JUMP START STUD Mounted to Battery Box		
8718	POWER SOURCE Cigar Type Receptacle without Plug and Cord	1/0	1
8XPK	POWER SOURCE, ADDITIONAL Auxiliary Power Outlet (APO) with USB-A Port and USB-C Port, Located in the Instrument Panel	0/0	0
8RPS	RADIO AM/FM/WB/Clock/Bluetooth/USB Input/Auxiliary Input	3/0	3
8RMV	SPEAKERS (2) 6.5" Dual Cone Mounted in Doors	5/0	5
8XKL	STARTING MOTOR {Mitsubishi Electric Automotive America 90P47} 12-Volt, with Soft-Start	0/0	0
8VTV	STOP-LIGHT WIRING MODIFIED Stop-Lights Turned on When Engine Compression Brake, Exhaust Brake or Retarder Is Activated	0/0	0
8WPZ	TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except Back-up Lights	0/0	0
8WGL	WINDSHIELD WIPER SPD CONTROL Force Wipers to Slowest Intermittent Speed When Park Brake Set and Wipers Left on for a Predetermined Time	0/0	0

FRONT END

9WBW	FRONT END Tilting, Fiberglass, with Three Piece Construction, Dual Air Intakes	0/0	0

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
9WBN	FENDER EXTENSIONS Painted	0/0	0
9HCX	GRILLE Stationary, Molded in Black	0/0	0
9HBN	INSULATION, SPLASH PANELS for Sound Abatement	2/0	2
9HAN	INSULATION, UNDER HOOD for Sound Abatement	10/0	10
9AAB	LOGOS EXTERIOR Model Badges	0/0	0
9AAE	LOGOS EXTERIOR, ENGINE Badges	0/0	0
SPEEDOMETER, TOOLS, MISC			
10021	CHASSIS COATING Corrosion Resistant E-Coat Primer Coating for Single Frame Rails	0/0	0
10AGB	COMMUNICATIONS MODULE Telematics Device with Over the Air Programming; Includes Five Year Data Plan and International 360	0/0	0
10060	PAINT SCHEMATIC, PT-1 Single Color, Design 100 Includes : PAINT SCHEMATIC ID LETTERS "WP"	0/0	0
10761	PAINT TYPE Base Coat/Clear Coat, 1-2 Tone	0/0	0
10WGD	SPECIAL RATING, GVWR Limited to 25,999-lb GVWR	0/0	0
10769	PAINT CLASS Premium Color	0/0	0
FUEL TANKS			
15SWU	FUEL TANK Top Draw, Non-Polished Aluminum, D-Style, 16" Tank Depth, 40 US Gal (151L), Mounted Left Side, Under Cab	0/0	0
15WDG	DEF TANK 7 US Gal (26L) Capacity, Frame Mounted Outside Left Rail, Under Cab	0/0	0
15924	FUEL TANK STRAPS Bright Finish Stainless Steel	0/0	0
15LMR	FUEL/WATER SEPARATOR {Racor 400 Series,} with Primer Pump, Includes Water-in-Fuel Sensor	0/0	0
15LRE	LOCATION FUEL/WATER SEPARATOR Mounted Under Hood, Left Side, Above Front Axle	0/0	0
WHEELS, TIRES - FRONT			
27DTS	WHEELS, FRONT {Accuride 29195} DISC; 19.5x7.50 Rims, Powder Coat Steel, 5-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs	-14/0	-14
7689459061	(2) TIRE, FRONT 245/70R19.5 Load Range H R238 (BRIDGESTONE), 623 rev/mile, 75 MPH, All-Position	-24/0	-24
WHEELS, TIRES - REAR			
28DTS	WHEELS, REAR {Accuride 29195} DUAL DISC; 19.5x7.50 Rims, Powder Coat Steel, 5-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs	0/-28	-28
7789455428	(4) TIRE, REAR 245/70R19.5 Load Range H HYBRID HD3 (CONTINENTAL), 623 rev/mile, 81 MPH, Drive	0/-36	-36

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
BODY INTEGRATION			
60AAG	BDY INTG, REMOTE POWER MODULE Mounted Inside Cab Behind Driver Seat, Up to 6 Outputs & 6 Inputs, Max 20 amp per Channel, Max 80 amp Total; Includes 1 Switch Pack with Latched Switches	0/0	0
60AKY	BDY INTG, DASH IND LT TRICOLOR (1) for Optional Usage Customer to Program	0/0	0
60AJK	BDY INTG, INDICATOR LIGHTS (2) 1 for Body Up, 1 for Gate Open, Includes Audible Alarm, Programmable Mode for Various Switch Actions. (Requires 2 Remote Power Module Inputs)	0/0	0
60ABE	BDY INTG, PTO ACCOMMODATION for Electric over Hydraulic PTO, Does Not Include Solenoids, with Latched Switch Mounted on Dash Includes Audible Alarm and Indicator Light in Gauge Cluster (Requires 1 Remote Power Module Input & 1 output)	0/0	0
60ACS	BDY INTG, SWITCH MOMNTRY 3POS Rocker, Backlit, with "ON" Indicator Mounted on Dash, Latching Software, for 1; Auxiliary Load 20 amp. Maximum; Power Available Only in "Ignition" or "Accessory" Position, Output Also Controlled by a Customer Remote Mounted Switch (requires 1 Remote Power Module Input & 1 output)	0/0	0
	Services Section:		
WARRANTY			
40129	WARRANTY Standard for MV Series, Effective with Vehicles Built July 1, 2017 or Later, CTS-2020A	0/0	0
40YYJ	SRV CONTRACT, EXT CMS ENG/AFTR {Cummins} To 60-Month/100,000 Miles (160,000 km), Extended Cummins B6.7 Engine Coverage, Protection Plan 1 and Aftertreatment, (Truck Application Only)	0/0	0
40XUJ	SRV CONTRACT, EXT VEH COVERAGE {Navistar} To 60-Month/100,000 Miles (160,000 km), Excludes Extended Warranty for Engine and Transmission	0/0	0
	Total Component Weight:	**6500/3615 (lbs)**	**10115 (lbs)**
2	Equip Spec. - Body Equip (see quote)	0/0	0
	Total Body Allied:	**0/0 (lbs)**	**0 (lbs)**
	Navistar Surcharge	0/0	0
	Total Goods Purchased:	**0/0**	**0**

The weight calculations included in this proposal are an estimate of future vehicle weight. The actual weight as manufactured may be different from the estimated weight. Navistar, Inc. shall not be liable for any consequences resulting from any differences between the estimated weight of a vehicle and the actual weight.

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EQUIPMENT SPECIALISTS

180 Roberts Street, East Hartford CT 06108 Tel: (860) 296-7000 • www.ES-CT.com

NUTMEG IH
ATTN: Marc Palumbo

September 25, 2023

TARCO T2000-10-SS EQUIPMENT PKG

REF: WATERFORD

Chassis Requirements

- ❖ Chassis MUST HAVE Clear RIGHT & LEFT SIDE Frame Rail Behind Cab (as much as Possible) for Valve and Tank Mounting. Relocating of Components Interfering in Installation will be Billed at Shop Rate of $197 per Hour

- ❖ Chassis Must Have factory option switches, 6-Minimum preferred
- ❖ Minimum 36,000 GVW Six (6) Wheel Cab & Chassis
- ❖ 96" cab to axle measurement
- ❖ Allison 3000 or Higher Transmission
- ❖ INTEGRAL Front Frame Extensions
- ❖ Three (3) indicator lights for body up, gate open and low oil
- ❖ Snow Plow Prep Package for Plow Lights
- ❖ Air and Electric to Rear
- ❖ Electric Trailer Brake Prep Package in cab
- ❖ Ground speed output for electronic sander control
- ❖ PTO switch in dash and wired to Right Side of transmission for Chelsea HOT shift PTO.

Additional charges may apply for items not supplied on chassis

Equipment Package to include the following:

Body:

- ➢ Tarco Model T-2000-SS-10 Combination 304# STAINLESS STEEL dump body and material spreader
- ➢ 10' Length. Outside width: 95"
- ➢ Body is constructed of 10-gauge STAINLESS steel throughout,
- ➢ Body side height – 16", tailgate height – 30"
- ➢ 304# STAINLESS STEEL Body sides are supported by front and rear corner posts with additional vertical side supports.
- ➢ 304# STAINLESS STEEL Formed body top rail with sideboard pockets
- ➢ 304# STAINLESS STEEL Body sides are dirt shedder design
- ➢ 10 gauge 304# STAINLESS STEEL ½ Cab Shield
- ➢ **3/16" HARDOX 450 205,000 PSI FLOOR**
- ➢ AIR tailgate latching mechanism.
- ➢ STAINLESS STEEL Coal Door
- ➢ Rear Bolt-on Asphalt Apron
- ➢ Conveyor system for ice and snow control is constructed of **7 gauge type 304 stainless steel with a ¾" thick poly wear plate**
- ➢ 304# STAINLESS STEEL Front mounted spinner assembly with POLY chute
- ➢ 14" diameter poly spinner.
- ➢ ACCESS STEP OVER AUGER BOX

- REAR DRIVERSIDE SS SWING-UP LADDER
- Conveyor chain is 14" in width and Chevron design.
- Conveyor drive through 20:1gear box with hydraulic motor.
- Front hoist cylinder is telescopic – NTEA rated Class 20
- Side tip cylinders are 5" x 16" double-acting.
- Continuous side tip floor hinge pin is stainless steel equipped with grease lines for remote lubrication.
- Body up light indicator for cab. Dump hoist safety prop. Side Tip safety prop.
- Conspicuity & Safety Tape
- Full Length Flap to protect Brake Chambers
- Front & Rear Mud Flaps

Plow Frame:

- Plow Frame shall Utilize Integral Front Frame Extensions & Allow Tilt Hood
- Plow Frame With 4" X 10" Da Lift Cylinder
- Multiple Push Point
- TWO (2) Shovel/broom Holders (round) On PLOW FRAME- (for long handle)
- Plow Relief Circuit For Ease Of Plow Disconnect

Plow:

- Henke 36R10 FULL TRIP Power Angle Plow
- 4" DA Reversing Cylinders With Cushion Valve
- Rubber Shield
- Mailbox Cut
- Parking Jack
- 30.5Pin-in Swivel Bar
- Cable Lift
- 5/8" Cutting Edge
- Right Hand Curb Guard
- Marker Sticks

Hydraulic System:

- 37 Gallon Hydraulic Reservoir With Sight/Temp Gauge
- Hydraulic Filter With Indicator
- Low Oil Alert Light
- 2" Ball Valve Shut-Offs
- Suction Line Strainer
- 75cc Variable Displacement Pump
- Hot-Shift Wet-Spline PTO Via Allison 3000 Series & Chassis-Supplied Switch
- Force America Five (5) Bank Cable Load Sense Valve System
- Five (5) Cable Controls For Body, Load Cover, And Plow Functions, Mounted On Custom Reinforced Tower
- Stainless Steel Valve Enclosure
- Force America 5100 Spreader Control
- Stainless Steel Hydraulic Manifold & ½" Stainless Steel Piping Throughout Utilizing Short Lengths Of Hose & Swivel Fittings

Electrical:

- Body LED ICC Lighting
- LED Spinner Light With In Cab Switch
- LED Load Light With In Cab Switch

- Heated LED Plow Lights Mounted On Stainless Steel Brackets Utilizing Chassis Plow Light Circuitry
- SOUND OFF System FOUR (4) Strobes with Two Front and One Each Side of Cabshield
- Three light rear cluster in Rear Corner Posts. STROBE; S/T/T/; REV
- Allied Lighting To Be Tied Into Factory Aux Switches
- PTO To Be Switch To Be Chassis-Supplied

Load Cover & Pintle Assembly:

- ALC Hydraulic Load Cover
- ¾" Rear Plate With 20 Ton Pintle, Gladhands, And 7 Way Rv Electrical Plug
- Electric Brake Controller

Miscellaneous:

- Poly Fenders
- 24" x 18" x 18" SS Toolbox
- Body NATURAL SS
- Black Enamel Applied To Plow Frame, Pintle Assy, & Body Understructure
- ARMOURSEAL BODY AND CHASSIS (UNDER)
- Complete Package Installed & Operational On Chassis With Front Frame Extension And 96" CA

FOB: E. HARTFORD, CT..... **$ 130,810.00**

OPTIONS:

A. DUAL LED REAR LIGHTS.....	$ 580.00
B. COMPLETE BODY GREASE MANIFOLD.....	$ 1600.00
C. AUGER SENSOR FOR CLOSED LOOP HYDS.....	$ 1600.00

QUOTE VALID: 30 DAYS

Respectfully Submitted,

Glenn Slade
Sales Consultant
Equipment Specialists

MV607 SBA

Sales Proposal For:

TOWN OF WATERFORD

2025 MV Steet Sweeper

Presented By:

ALLEGIANCE TRUCKS

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INTERNATIONAL®

Financial Summary
2025 MV607 SBA (MV607)

October 27, 2023

(US DOLLAR)

Description		Price
Net Sales Price:		$348,209.25
Memo Item(s):		
Body/Allied Equipment:	$240,251.05	

Note: Memo item(s) shown here are included in the above Net Sales Price.

Please feel free to contact me regarding these specifications should your interests or needs change. I am confident you will be pleased with the quality and service of an International vehicle.

NOTE: PRICING IS CURRENT FOR MODEL YEAR 2025 / PRODUCTION CALENDAR YEAR 2024 BUT IF INTERNATIONAL LEVIES ADDITIONAL SURCHARGES DUE TO VENDORS INCREASING PRICING OR GOVERMENT MANDATES (EPA, ETC.) I WILL NEED TO RE-PRICE THE CHASSIS AT THAT POINT.

WHILE EVERY EFFORT WILL BE APPLIED TO SUPPLY THIS TRUCK, PRODUCTION IS LIMITED, WE CANNOT GUARANTEE A BUILD SLOT FOR EVERY ORDER PLACED DUE TO SUPPLY CHAIN CONSTRAINTS.

NAVISTAR HAS PUT A $5,000 ORDER CANCELLATION IN PLACE ON ALL ORDERS.
A $5000 DEPOSIT IS NOW REQUIRED FOR ALL ORDERS TO BE PLACED. IN THE EVENT YOU CANCEL AN ORDER YOU WILL FORFEIT YOUR DEPOSIT.

Approved by Seller:

Official Title and Date

Authorized Signature

Accepted by Purchaser:

Firm or Business Name

Authorized Signature and Date

ALLEGIANCE TRUCKS
130 BRAINARD RD
HARTFORD CT 06114 -
(860)249-8635

This proposal is not binding upon the seller without Seller's Authorized Signature

Official Title and Date

The TOPS FET calculation is an estimate for reference purposes only. The seller or retailer is responsible for calculating and reporting/paying appropriate FET to the IRS.

The limited warranties applicable to the vehicles described herein are Navistar, Inc.'s standard printed warranties which are incorporated herein by reference and to which you have been provided a copy and hereby agree to their terms and conditions.

Prepared For:
TOWN OF WATERFORD
Garon VanOverloop
15 ROPE FERRY RD.
WATERFORD, CT 06385-
(860)444 - 5867
Reference ID: N/A

Presented By:
ALLEGIANCE TRUCKS
Marc Palumbo
130 BRAINARD RD
HARTFORD CT 06114 -
(860)249-8635

Thank you for the opportunity to provide you with the following quotation on a new International truck. I am sure the following detailed specification will meet your operational requirements, and I look forward to serving your business needs.

Model Profile
2025 MV607 SBA (MV607)

AXLE CONFIG:	4X2
APPLICATION:	Street Sweeper
MISSION:	Requested GVWR: 33000. Calc. GVWR: 33000. Calc. GCWR: 80000 Calc. Start / Grade Ability: 48.79% / 2.69% @ 55 MPH Calc. Geared Speed: 65.7 MPH
DIMENSION:	Wheelbase: 140.00, CA: 72.90, Axle to Frame: 22.00
ENGINE, DIESEL:	{Cummins L9 260} EPA 2024, 260HP @ 2200 RPM, 860 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed, 260 Peak HP (Max)
TRANSMISSION, AUTOMATIC:	{Allison 3500 RDS} 6th Generation Controls, Wide Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, with 80,000-lb GVW and GCW Max, On/Off Highway
CLUTCH:	Omit Item (Clutch & Control)
AXLE, FRONT NON-DRIVING:	{Dana Spicer E-1002IR} I-Beam Type, 10,000-lb Capacity, with Short Tie Rod Arm for Decreased Turning Radius
AXLE, REAR, SINGLE:	{Dana Spicer 23082T} Two-Speed, 23,000-lb Capacity, R Wheel Ends Gear Ratio(s): 6.17, 8.40
CAB:	Conventional, Day Cab
TIRE, FRONT:	(2) 255/70R22.5 Load Range H AH37 (HANKOOK), 562 rev/mile, 75 MPH, All-Position
TIRE, REAR:	(4) 11R22.5 Load Range G AH37 (HANKOOK), 501 rev/mile, 75 MPH, All-Position
SUSPENSION, REAR, AIR, SINGLE:	{Hendrickson HAS 230} 23,000-lb Capacity, 8.5" Ride Height, with Shock Absorbers
PAINT:	Cab schematic 100WP Location 1: 9219, Winter White (Std) Chassis schematic N/A

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
MV60700	Base Chassis, Model MV607 SBA with 140.00 Wheelbase, 72.90 CA, and 22.00 Axle to Frame.	5354/2774	8128
AXLE CONFIGURATION			
1ANA	AXLE CONFIGURATION {Navistar} 4x2	0/0	0
	Notes : Pricing may change if axle configuration is changed.		
ENGINE			
12EYU	ENGINE, DIESEL {Cummins L9 260} EPA 2024, 260HP @ 2200 RPM, 860 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed, 260 Peak HP (Max)	573/-9	564
12VJS	EMISSION, CALENDAR YEAR {Cummins L9} EPA, OBD and GHG Certified for Calendar Year 2024	0/0	0
12XCS	CARB EMISSION WARR COMPLIANCE Does Not Comply with CARB Emission Warranty	0/0	0
12WZE	CARB IDLE COMPLIANCE Does Not Comply with California Clean Air Idle Regulations	0/0	0
12WVG	EPA IDLE COMPLIANCE Low NOx Idle Engine, Complies with EPA Clean Air Regulations; Includes "Certified Clean Idle" Decal on Hood	0/0	0
12XCA	RADIATOR Aluminum, 3-Row, Down Flow, Front to Back System, 837 Sqin Louvered, with 477 Sqin Charge Air Cooler, Includes In-Tank Oil Cooler	0/0	0
12THT	FAN DRIVE {Horton Drivemaster} Two-Speed Type, Direct Drive, with Residual Torque Device for Disengaged Fan Speed	45/-5	40
	Includes : FAN Nylon		
12VCE	AIR CLEANER Single Element, Fire Retardant Media	0/0	0
12703	ANTI-FREEZE Red, Extended Life Coolant; To -40 Degrees F/ -40 Degrees C, Freeze Protection	0/0	0
12849	BLOCK HEATER, ENGINE 120V/1000W, for Cummins ISB/B6.7/ISL/L9 Engines	3/0	3
	Includes : BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door		
12XBM	ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder Installation of PTO Controls and Starter Lockout, with Ignition Switch Control, for Cummins B6.7 and L9 Engines	0/0	0
12VXV	THROTTLE, HAND CONTROL Engine Speed Control for PTO; Electronic, Mobile, Variable Speed; (Range 2 to 20 MPH) Mounted on Steering Wheel	2/0	2
TRANSMISSION			
13BDR	TRANSMISSION, AUTOMATIC {Allison 3500 RDS} 6th Generation Controls, Wide Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, with 80,000-lb GVW and GCW Max, On/Off Highway	203/80	283
13WVU	ALLISON SPARE INPUT/OUTPUT for Rugged Duty Series (RDS), Street Sweeper, Package Number 169	0/0	0

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
13WUA	AUTOMATIC NEUTRAL Allison Transmission Shifts to Neutral When Parking Brake is Engaged and Remains in Neutral When Parking Brake is Disengaged, with On/Off Switch	0/0	0
13WVV	NEUTRAL AT STOP Allison Transmission Shifts to Neutral When Service Brake is Depressed and Vehicle is at Stop; Remains in Neutral Until Service Brake is Released	0/0	0
13XAL	PTO LOCATION Customer Intends to Install PTO at Left Side of Transmission	0/0	0
13WYU	SHIFT CONTROL PARAMETERS (Allison) 3000 or 4000 Series Transmissions, Performance Programming	0/0	0
13WGH	TRANSMISSION DIPSTICK Relocated to Right Side of Transmission	1/0	1
13WLP	TRANSMISSION OIL Synthetic; 29 thru 42 Pints	0/0	0
13WBL	TRANSMISSION SHIFT CONTROL (Allison) Push-Button, for Allison 3000 & 4000 Series Transmission	0/0	0
CLUTCH			
11001	CLUTCH Omit Item (Clutch & Control)	0/0	0
REAR AXLES, SUSPENSIONS			
14CDP	AXLE, REAR, SINGLE (Dana Spicer 23082T) Two-Speed, 23,000-lb Capacity, R Wheel Ends . Gear Ratio: 6.17, 8.40	0/405	405
14TAZ	SUSPENSION, REAR, AIR, SINGLE (Hendrickson HAS 230) 23,000-lb Capacity, 8.5" Ride Height, with Shock Absorbers	0/56	56
14WCJ	SHOCK ABSORBERS, REAR (2) Mounted Inside Rails	0/0	0
FRONT AXLES			
2AYV	AXLE, FRONT NON-DRIVING (Dana Spicer E-1002IR) I-Beam Type, 10,000-lb Capacity, with Short Tie Rod Arm for Decreased Turning Radius	27/0	27
FRONT SUSPENSIONS			
3ADB	SUSPENSION, FRONT, SPRING Parabolic Taper Leaf, Shackle Type, 10,000-lb Capacity, with Shock Absorbers	25/0	25
	Includes : SPRING PINS Rubber Bushings, Maintenance-Free		
3770	SPRINGS, FRONT AUXILIARY Rubber	10/0	10
CABS, COWLS, BODIES			
16030	CAB Conventional, Day Cab	0/0	0
	Includes : CLEARANCE/MARKER LIGHTS (5) Flush Mounted		
16ZBT	ACCESS, CAB Steel, Driver & Passenger Sides, Two Steps per Door, for use with Day Cab and Extended Cab	0/0	0
16BAM	AIR CONDITIONER with Integral Heater and Defroster	56/0	56
16WBZ	ARM REST, LEFT, PASSENGER SEAT	3/0	3

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
16WBY	ARM REST, RIGHT, DRIVER SEAT	3/0	3
16VKB	CAB INTERIOR TRIM Classic, for Day Cab	0/0	0
	Includes : CONSOLE, OVERHEAD Molded Plastic with Dual Storage Pockets, Retainer Nets and CB Radio Pocket; Located Above Driver and Passenger : DOME LIGHT, CAB Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Integral to Overhead Console, Center Mounted : SUN VISOR (2) Padded Vinyl; 2 Moveable (Front-to-Side) Primary Visors, Driver Side with Toll Ticket Strap		
16XCW	CAB, INTERIOR TRIM, CLOSEOUT Under IP, Driver Side	0/0	0
16VLK	CAB REAR SUSPENSION Air Suspension, for Mid Cab Height	41/1	42
16VEX	CONTROLS, CENTER PANEL Includes Ignition Switch, Headlights and Power Mirror Controls Located in Center Panel	0/0	0
16WLS	FRESH AIR FILTER Attached to Air Intake Cover on Cowl Tray in Front of Windshield Under Hood	1/0	1
16GED	GAUGE CLUSTER Base Level; English with English Electronic Speedometer	0/0	0
	Includes : GAUGE CLUSTER DISPLAY: Base Level (3" Monochromatic Display), Premium Level (5" LCD Color Display); Odometer, Voltmeter, Diagnostic Messages, Gear Indicator, Trip Odometer, Total Engine Hours, Trip Hours, MPG, Distance to Empty/ Refill for : GAUGE CLUSTER Speedometer, Tachometer, Engine Coolant Temp, Fuel Gauge, DEF Gauge, Oil Pressure Gauge, Primary and Secondary Air Pressure or Auxillary Air Pressure (if Air Equipped) : WARNING SYSTEM Low Fuel, Low DEF, Low Oil Pressure, High Engine Coolant Temp, Low Battery Voltage (Visual and Audible), Low Air Pressure, Primary and Secondary (if Air Equipped)		
16HHE	GAUGE, AIR CLEANER RESTRICTION (Filter-Minder) Mounted in Instrument Panel	2/0	2
16HGH	GAUGE, OIL TEMP, AUTO TRANS for Allison Transmission	1/0	1
16GHU	GRAB HANDLE, CAB INTERIOR (2) Safety Yellow	0/0	0
16XJN	INSTRUMENT PANEL Flat Panel	0/0	0
16HKT	IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster	0/0	0
16SSU	MIRRORS (2) C-Loop, Power Adjust, Heated, Turn Signals, LED Clearance Lights, Bright Heads and Arms, 7" x 14.5" Flat Glass, Includes 8" x 6" Convex Mirrors, for 102" Load Width	0/0	0
	Notes : Mirror Dimensions are Rounded to the Nearest 0.5"		
16SSC	MIRROR, CONVEX, HOOD MOUNTED (2) Right and Left Sides, Breakaway, Bright	0/0	0
16VCC	SEAT BELT All Orange; 1 to 3	0/0	0
16JNV	SEAT, DRIVER (National 2000) Air Suspension, High Back with Integral Headrest, Cloth, Isolator, 1 Chamber Lumbar, 2 Position Front Cushion Adjust, -3 to +14 Degree Back Angle Adjust	-12/-6	-18

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
16RPX	SEAT, PASSENGER (National) Air-Suspension, High Back with Integral Headrest, Cloth, Isolated, 1 Chamber Lumbar, 2 Position Front Cushion Adjustment, -3 to +14 Degree Seat Back Adjustment	67/37	104
16WJU	WINDOW, POWER (2) and Power Door Locks, Left and Right Doors, Includes Express Down Feature	5/0	5
FRAMES			
1CAD	FRAME RAILS High Strength Low Alloy Steel (80,000 PSI Yield); 10.250" x 3.092" x 0.375" (260.4mm x 78.5mm x 9.5mm); 455.0" (11557mm) Maximum OAL	87/8	95
1LNG	BUMPER, FRONT Contoured, Steel, Painted Gloss Black	0/0	0
1UBV	CROSSMEMBER, INTERMEDIATE Omit Intermediate Crossmember	-10/-10	-20
1SCK	CROSSMEMBER, REAR, AF (1) for 50 Degree Tapered Frame Rails	61/89	150
1MEJ	FRAME DIMPLE Dimple on Left and Right Top Flange of Frame Rail to Reference Rear Axle Centerline	0/0	0
1AMU	FRAME RAILS WITH TAPERED REAR 50 Degree Taper (Full)	0/0	0
1MCK	SPECIAL FRAME PIERCING for Elgin Sweeper Company "AF Broom Bear" Body	0/0	0
1570	TOW HOOK, FRONT (2) Frame Mounted	9/-1	8
1LEG	LICENSE PLATE HOLDER Includes Upper & Lower Mounting Plate Hardware, Mounted In Existing Holes in Front Bumper	3/0	3
1WEH	WHEELBASE RANGE 134" (340cm) Through and Including 197" (500cm)	75/-75	0
BRAKES			
4091	BRAKE SYSTEM, AIR Dual System for Straight Truck Applications Includes : BRAKE LINES Color and Size Coded Nylon : DRAIN VALVE Twist-Type : GAUGE, AIR PRESSURE (2) Air 1 and Air 2 Gauges; Located in Instrument Cluster : PARKING BRAKE CONTROL Yellow Knob, Located on Instrument Panel : PARKING BRAKE VALVE For Truck : QUICK RELEASE VALVE On Rear Axle for Spring Brake Release: 1 for 4x2, 2 for 6x4 : SPRING BRAKE MODULATOR VALVE R-7 for 4x2, SR-7 with relay valve for 6x4/8x6	-25/-25	-50
4AZA	AIR BRAKE ABS (Bendix AntiLock Brake System) 4-Channel (4 Sensor/4 Modulator) Full Vehicle Wheel Control System	9/21	30
4GBM	BRAKE, PARKING Manual Push-Pull Pneumatic Parking Brake	1/0	1
4XDC	BRAKES, FRONT (Meritor 15X4 Q-PLUS CAST) Air S-Cam Type, Cast Spider, Fabricated Shoe, Double Anchor Pin, Size 15" X 4", 13,200-lb Capacity	77/0	77
4EXP	BRAKE CHAMBERS, FRONT AXLE (Bendix) 20 Sqin	16/0	16
4LAG	SLACK ADJUSTERS, FRONT (Gunite) Automatic	14/0	14
4WBX	DUST SHIELDS, FRONT BRAKE for Air Cam Brakes	10/0	10

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
4XDR	BRAKES, REAR {Meritor 16.5X7 Q-PLUS CAST} Air S-Cam Type, Cast Spider, Fabricated Shoe, Double Anchor Pin, Size 16.5" X 7", 23,000-lb Capacity per Axle	0/195	195
4EXU	BRAKE CHAMBERS, REAR AXLE {Bendix EverSure} 30/30 Sqin Spring Brake	0/39	39
4LGG	SLACK ADJUSTERS, REAR {Gunite} Automatic	0/14	14
4WDM	DUST SHIELDS, REAR BRAKE for Air Cam Brakes	0/10	10
4SPA	AIR COMPRESSOR {Cummins} 18.7 CFM	36/2	38
4EDN	AIR DRYER {Bendix AD-9SI} with Heater, Includes Safety Valve	20/-3	17
4VLE	AIR DRYER LOCATION Mounted Inside Engine Compartment, Right Side	0/0	0
4XAD	AIR TANK LOCATION (2) : One Mounted Outside Right Rail Back of Cab, One Mounted Inside Right Rail Back of Cab	21/40	61
4732	DRAIN VALVE {Berg} with Pull Chain, for Air Tank	0/0	0
STEERING			
5PSA	STEERING GEAR {Sheppard M100} Power	29/-7	22
5708	STEERING COLUMN Tilting	13/3	16
5CAW	STEERING WHEEL 4-Spoke; 18" Dia., Black	0/0	0
DRIVELINES			
6DGG	DRIVELINE SYSTEM {Dana Spicer} 1710, for 4x2/6x2	8/20	28
EXHAUST SYSTEMS			
7BLW	EXHAUST SYSTEM Horizontal Aftertreatment System, Frame Mounted Right Side Under Cab, for Single Vertical Tail Pipe, Frame Mounted Right Side Back of Cab	125/53	178
7BEV	AFTERTREATMENT COVER Steel, Black	9/4	13
7WCM	EXHAUST HEIGHT 8' 10"	11/13	24
7WDN	MUFFLER/TAIL PIPE GUARD (1) Aluminum	8/9	17
7WZY	SWITCH, FOR EXHAUST 2 Position, Lighted & Latching, On/Off Type, Mounted in IP, Inhibits Diesel Particulate Filter Regeneration as Long as Switch is in On Position	2/0	2
7WAZ	TAIL PIPE (1) Turnback Type	4/5	9
ELECTRICAL SYSTEMS			
8000	ELECTRICAL SYSTEM 12-Volt, Standard Equipment	0/0	0
	Includes : DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab : HAZARD SWITCH Push On/Push Off, Located on Instrument Panel to Right of Steering Wheel : HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever : PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light : STARTER SWITCH Electric, Key Operated : STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector		

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
	: TURN SIGNAL SWITCH Self-Cancelling for Trucks, Manual Cancelling for Tractors, with Lane Change Feature : TURN SIGNALS, FRONT Includes Reflectors and Auxiliary Side Turn Signals, Solid State Flashers; Flush Mounted : WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever : WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted : WIRING, CHASSIS Color Coded and Continuously Numbered		
8GXD	ALTERNATOR {Leece-Neville AVI160P2013} Brush Type, 12 Volt, 160 Amp Capacity, Pad Mount, with Remote Sense	0/0	0
8RPR	ANTENNA for Increased Roof Clearance Applications	1/0	1
8XDU	BATTERY BOX Steel, with Aluminum Cover, 14" Wide, 2-3 Battery Capacity, Mounted Left Side Under Cab	5/19	24
8MSG	BATTERY SYSTEM {Fleetrite} Maintenance-Free, (3) 12-Volt 1980CCA Total, Top Threaded Stud	20/33	53
8HAE	BODY BUILDER WIRING Rear of Frame; Includes Sealed Connectors for Tail/ Amber Turn/Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn	0/3	3
8XAH	CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III with Trip Indicators, Replaces All Fuses	0/0	0
8518	CIGAR LIGHTER Includes Ash Cup	1/0	1
8XKC	HEADLIGHTS Halogen, with Daytime Running Lights, Automatic Twilight Controlled	0/0	0
8XHN	HORN, AIR Single Trumpet, Black, with Lanyard Pull Cord	3/0	3
8VBE	HORN, ELECTRIC (1) Trumpet Style	0/0	0
8WWJ	INDICATOR, LOW COOLANT LEVEL with Audible Alarm	0/0	0
8RPS	RADIO AM/FM/WB/Clock/Bluetooth/USB Input/Auxiliary Input	2/1	3
8RMV	SPEAKERS (2) 6.5" Dual Cone Mounted in Doors	4/1	5
8WTL	STARTING MOTOR {Delco Remy 39MT} 12 Volt, Gear Reduced, with Thermal Over-Crank Protection	12/1	13
8TKD	STOP, TURN, TAIL & B/U LIGHTS Omit Item, Does Not Omit Cable to End of Frame, DOES NOT INCLUDE LICENSE PLATE LIGHT	0/-5	-5
8WGL	WINDSHIELD WIPER SPD CONTROL Force Wipers to Slowest Intermittent Speed When Park Brake Set and Wipers Left on for a Predetermined Time	0/0	0
8HAT	WIRING, SPECIAL Includes Wires Installed Through the Dash Panel and End in Engine Compartment, In Cab Wire Ends Will Have ESC Input Terminals, Engine Compartment Wire Ends will have Sealed Connectors	0/0	0
FRONT END			
9WBW	FRONT END Tilting, Fiberglass, with Three Piece Construction, Dual Air Intakes	0/0	0
9WBN	FENDER EXTENSIONS Painted	0/0	0
9HCY	GRILLE Molded in Black, with Chrome Surround	0/0	0
9AAB	LOGOS EXTERIOR Model Badges	0/0	0

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
9AAE	LOGOS EXTERIOR, ENGINE Badges	0/0	0
SPEEDOMETER, TOOLS, MISC			
10AGB	COMMUNICATIONS MODULE Telematics Device with Over the Air Programming; Includes Five Year Data Plan and International 360	0/0	0
10RHE	DUAL DRIVE Customer Intends to Convert to In-Cab Dual Drive Positions	0/0	0
10060	PAINT SCHEMATIC, PT-1 Single Color, Design 100 Includes : PAINT SCHEMATIC ID LETTERS "WP"	0/0	0
10761	PAINT TYPE Base Coat/Clear Coat, 1-2 Tone	0/0	0
FUEL TANKS			
15SXJ	FUEL TANK Top Draw, Non-Polished Aluminum, 24" Dia, 50 US Gal (189L), Mounted Left Side, Under Cab	12/-3	9
15WCN	DEF TANK 5 US Gal (19L) Capacity, Frame Mounted Outside Left Rail, Under Cab	-7/24	17
15LMR	FUEL/WATER SEPARATOR {Racor 400 Series,} with Primer Pump, Includes Water-in-Fuel Sensor	0/0	0
15LRE	LOCATION FUEL/WATER SEPARATOR Mounted Under Hood, Left Side, Above Front Axle	0/0	0
WHEELS, TIRES - FRONT			
27DUW	WHEELS, FRONT {Accuride 51408} DISC; 22.5x8.25 Rims, Powder Coat Steel, 2-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs	-10/0	-10
7752525009	(2) TIRE, FRONT 255/70R22.5 Load Range H AH37 (HANKOOK), 562 rev/mile, 75 MPH, All-Position	0/0	0
WHEELS, TIRES - REAR			
28DUW	WHEELS, REAR {Accuride 51408} DUAL DISC; 22.5x8.25 Rims, Powder Coat Steel, 2-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs	0/-20	-20
7372135809	(4) TIRE, REAR 11R22.5 Load Range G AH37 (HANKOOK), 501 rev/mile, 75 MPH, All-Position	0/112	112
BODY INTEGRATION			
60AAG	BDY INTG, REMOTE POWER MODULE Mounted Inside Cab Behind Driver Seat, Up to 6 Outputs & 6 Inputs, Max 20 amp per Channel, Max 80 amp Total; Includes 1 Switch Pack with Latched Switches	0/0	0
60ABE	BDY INTG, PTO ACCOMMODATION for Electric over Hydraulic PTO, Does Not Include Solenoids, with Latched Switch Mounted on Dash Includes Audible Alarm and Indicator Light in Gauge Cluster (Requires 1 Remote Power Module input & 1 output)	0/0	0
	Services Section:		
WARRANTY			

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
40129	WARRANTY Standard for MV Series, Effective with Vehicles Built July 1, 2017 or Later, CTS-2020A	0/0	0
40YZL	SRV CONTRACT, EXT CMS ENG/AFTR {Cummins} To 60-Month/100,000 Miles (160,000 km), Extended Cummins L9 Engine Coverage, Protection Plan 1 and Aftertreatment, (Truck Application Only)	0/0	0
40XUH	SRV CONTRACT, EXT VEH COVERAGE {Navistar} To 60-Month/50,000 Miles (80,000 km), Excludes Extended Warranty for Engine and Transmission	0/0	0
	Total Component Weight:	**7066/3903 (lbs)**	**10969 (lbs)**
1	Elgin Broom Bear (Qoute 2023-69897)	0/0	0
	Total Body Allied:	**0/0 (lbs)**	**0 (lbs)**

The weight calculations included in this proposal are an estimate of future vehicle weight. The actual weight as manufactured may be different from the estimated weight. Navistar, Inc. shall not be liable for any consequences resulting from any differences between the estimated weight of a vehicle and the actual weight.

H24

C.N. WOOD

C.N. Wood Enviro LLC
an affiliate of C.N. Wood Co., Inc.

Presents a

Proposal Summary

BroomBear ®
Powerful. Proven.
Single-Engine Mechanical Sweeper.

For Waterford CT
ATTN Garon VanOverloop Fleet Manager

BroomBear

Sidebrooms/Steering	Dual Sidebroom/Dual Steering
Fuel Type	Diesel
Hopper Capacity	4.5 Yard
Domicile	Continental USA

Basic Chassis Info

Source	Customer Supplied
Chassis Brand/Model	Special IH
Chassis Mounting Charge	Internal

Chassis Equipment

Horn Options	Standard Electric
Cab Mounted Rectangular Mirrors	Right And Left Hand Heated And Remote Controlled Mirrors

Brooms

Sidebroom Material	Steel Bristles with Polyethylene Segments
Sidebroom Tilt Option Left Hand	Yes
Sidebroom Tilt Option Right Hand	Yes
Mainbroom Material	Single Wrap Polypropylene - Disposable
In Cab Hydraulic Float Sidebrooms	Yes

Sidebroom Speed Controls	Manual Sidebroom Speed Controls, Not Reversing

Conveyance & Hopper

Conveyor Stall Alarm	Yes
Conveyor Type	Squeegee
Hopper Coating Systems	None (Painted Only)
Dirt Shoes	Carbide Single Row Dirt Shoes

Dust Control & Flush Systems

Fill Hose Length	16'8"
Washdown	Yes

Productivity Enhancements

Air Purge for Water System	Yes

Component Protection

Autolube	Sweeper and Chassis

Lighting & Compliance

(2) Rear Low Mounted Oval Amber LED Flashers	Yes
(2) Rear High Mounted Oval Amber LED Flashers	Yes

Backup Alarms	Federal Signal (Standard)

Manuals and Warranty

Sweeper Warranty	1 Year Parts and Labor
Sweeper: Operators Manuals	1
Sweeper: Parts Manuals	1
Sweeper: Service Manuals	1

Paint & Decal

Paint Sweeper	Standard White
Paint Chassis	Standard White
Elgin Logo	Red Logo

Chassis Notes :

Total: $240,251.05

Price Indicated includes approved Special Request
Price valid for 30 Days from date of 10-24-2023

Product Model:BroomBear
Proposal Date: 10-24-2023
Quote Number: 2023-69897
Price List Date: 10-24-2023

QTY: 1 Customer Initials_____

Proposal Notes:

1. Multiple unit orders will be identical to signed proposal. Changes or deviations to any unit of a multiple unit order will require a new signed proposal.
2. Chassis specifications and data codes for customer supplied chassis must be submitted to and approved by ELGIN prior to submittal of customer purchase order.
3. All prices quoted are in US Dollars unless otherwise noted.
4. This proposal incorporates, and is subject to, Elgin's standard terms and conditions attached hereto and made a part hereof.

Signed By: _____ **Date:** _____

LIMITED WARRANTY

Limited Warranty. Each machine manufactured by ELGIN SWEEPER COMPANY ("ESCO" or the "Company") is warranted against defects in material and workmanship for a period of 12 months, provided the machine is used in a normal and reasonable manner and in accordance with all operating instructions. If sold to an end user, the applicable warranty period commences from the date of delivery to the end user. If used for rental purposes, the applicable warranty period commences from the date the machine is first made available for rental by the Company or its representative. This limited warranty may be enforced by any subsequent transferee during the warranty period. This limited warranty is the sole and exclusive warranty given by the Company.

Exclusive Remedy. Should any warranted product fail during the warranty period, ESCO will cause to be repaired or replaced, as the Company may elect, any part or parts of such machine that the Company's examination discloses to be defective in material or factory workmanship. Repairs or replacements are to be made at the selling Elgin distributor's location or at other locations approved by ESCO. In lieu of repair or replacement, the Company may elect, at its sole discretion, to refund the purchase price of any product deemed defective. The foregoing remedies shall be the sole and exclusive remedies of any party making a valid warranty claim.

The ESCO Limited Warranty shall not apply to (and ESCO shall not be responsible for):

1. Major components or trade accessories that have a separate warranty from their original manufacturer, such as, but not limited to, trucks, engines, hydraulic pumps and motors, tires and batteries.
2. Normal adjustments and maintenance services.
3. Normal wear parts such as, but not limited to, brooms, oils, fluids, filters, broom wire, shoe runners, rubber deflectors and suction hoses.
4. Failures resulting from the machine being operated in a manner or for a purpose not recommended by ESCO.
5. Repairs, modifications or alterations without the express written consent of ESCO, which in the Company's sole judgment, have adversely affected the machine's stability, operation or reliability as originally designed and manufactured.
6. Items subject to misuse, negligence, accident or improper maintenance.

NOTE The use in the product of any part other than parts approved by ESCO may invalidate this warranty. ESCO reserves the right to determine, in its sole discretion, if the use of non-approved parts operates to invalidate the warranty. Nothing contained in this warranty shall make ESCO liable for loss, injury, or damage of any kind to any person or entity resulting from any defect or failure in the machine.

THIS WARRANTY SHALL BE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH ARE DISCLAIMED.

This warranty is in lieu of all other obligations or liabilities, contractual and otherwise, on the part of ESCO. For the avoidance of doubt, ESCO shall not be liable for any indirect, special, incidental or consequential damages, including, but not limited to, loss of use or lost profits. ESCO makes no representation that the machine has the capacity to perform any functions other than as contained in the Company's written literature, catalogs or specifications accompanying delivery of the machine. No person or affiliated company representative is authorized to alter the terms of this warranty, to give any other warranties or to assume any other liability on behalf of ESCO in connection with the sale, servicing or repair of any machine manufactured by the Company. Any legal action based hereon must be commenced within eighteen (18) months of the event or facts giving rise to such action.

ESCO reserves the right to make design changes or improvements in its products without imposing any obligation upon itself to change or improve previously manufactured products.

ELGIN SWEEPER COMPANY
1300 W. Bartlett Road
Elgin, Illinois 60120

11-20-2007

TERMS AND CONDITIONS

ORDERS: All orders are subject to acceptance by Elgin Sweeper, Inc. (hereafter referred to as Elgin). Orders for products not normally carried in stock or requiring special engineering or manufacturing is in every case subject to approval by Elgin's Management.

PRICES: All orders are subject to current prices in effect at the time of order acknowledgment. F.O.B. Point: Unless otherwise stated, all prices listed are F.O.B. factory. Elgin reserves the right to increase the order price set forth in this Proposal Summary at any time before delivery to Buyer to reflect any increase in Elgin's costs to manufacture or deliver the ordered product due to any factor beyond the reasonable control of Elgin. Elgin shall provide Buyer with prompt electronic notice of any such price increase. Buyer shall have five days from receipt of such notice to cancel its order, absent which Buyer shall be deemed to have consented to the price increase.

PAYMENT TERMS: The company's payment terms are due upon receipt, unless otherwise stated. However, until such time as Elgin receives full payment, Elgin shall maintain a purchase money security interest in the product.

CANCELLATION: Orders cannot be canceled except upon terms that will compensate Elgin for any loss or damage sustained. Such loss will be a minimum of 10% of the purchase price.

SHIPMENT: All proposals are based on continuous and uninterrupted delivery of the order upon completion, unless specifications distinctly state otherwise. In the event that agreement is reached for Elgin to store completed items, they will be immediately invoiced to the customer and become due and payable. Storage shall be at the risk of the customer and Elgin shall be liable only for ordinary care of the property.

STORAGE CHARGES: Elgin shall charge the customer at current rates for handling and storing customer's property (e.g. truck chassis) held for more than thirty (30) days after notification of availability for shipment. All customer's property, or third party's property, that is stored by Elgin is at the customer's or other party's risk. Elgin is not liable for any loss or damage thereto caused by fire, water, corrosion, theft, negligence, or any caused beyond its reasonable control.

PERFORMANCE: Elgin shall not be liable for failure to complete the contract in accordance with its terms if failure is due to wars, strikes, fires, floods, accidents, delays in transportation or other causes beyond its reasonable control.

EXPERIMENTAL WORK: Work performed at customer's request such as sketches, drawings, design, testing, fabrication and materials shall be charged at current rates.

SKETCHES, ENGINEERING DRAWINGS, MODELS, and all preparatory work created or furnished by Elgin, shall remain its exclusive property; and no use of same shall be made nor may ideas obtained therefrom be used except with the consent of and on terms acceptable to Elgin.

TAXES: Buyer's final cost shall include all applicable sales and use taxes, including all sales and use taxes attributable to any changes made to Buyer's initial order placed hereunder or to any changes to applicable sales and use tax laws. However, Elgin Manufacturing, Inc. shall be responsible for Federal Excise Tax(F.E.T.) unless it is separately stated on the invoice and added to the selling price. If F.E.T. is not separately stated on the invoice it has not been included in the price and Elgin will pay any F.E.T. due itself and bear the cost of the tax. Any refunds or adjustments to the F.E.T. in such cases belong to Elgin.

PRODUCT IMPROVEMENTS: Elgin reserves the right to change manufacturing specifications and procedures in accordance with its product improvement policy.

MOUNTING PRICES: Mounting prices assume normally factory installation on a truck chassis suitable for the unit purchased. Relocation of batteries, fuel tanks, mufflers, air tanks, etc. will be an additional charge, billed at the standard factory labor rate.

WARRANTY: Elgin warrants its products to be free from defects in material and workmanship for a period of 12 months, subject to the limitations and conditions set forth in its current published warranty. Other than those expressly stated herein. THERE ARE NOT OTHER WARRANTIES OF ANY KIND EXPRESS OR IMPLIED, AND SPECIFICALLY EXCLUDED BUT NOT BY WAY OF LIMITATION, ARE THE IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MECHANTABILITY.

IT IS UNDERSTOOD AND AGREED THE ELGIN'S LIABILITY WHETHER IN CONTRACT, IN TORT, UNDER ANY WARRANTY IN NEGLIGENCE OR OTHERWISE SHALL NOT EXCEED THE RETURN OF THE AMOUNT OF THE PURCHASE PRICE PAID BY THE PURCHASER AND UNDER NO CIRCUMSTANCES SHALL ELGIN BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES. THE PRICES STATED FOR THE EQUIPMENT IS A CONSIDERATION IN LIMITING ELGIN'S LIABILITY. NO ACTION REGARDLESS OF FORM, ARISING OUT OF THE TRANSACTION OF THE AGREEMENT MAY BE BROUGHT BY PURCHASER MORE THAN ONE YEAR AFTER THE CAUSE OF ACTION HAS OCCURRED.

ELGIN'S MAXIMUM LIABILITY SHALL NOT EXCEED AND BUYER'S REMEDY IS LIMITED TO EITHER (I) REPAIR OR REPLACEMENT OF THE DEFECTIVE PART OF PRODUCT, OR AT ELGIN'S OPTION (II) RETURN OF THE PRODUCT AND REFUND OF THE PURCHASE PRICE AND SUCH REMEDY SHALL BE BUYER'S ENTIRE AND EXCLUSIVE REMEDY.

CHOICE OF LAW: These Terms and Conditions shall be construed according to the laws of the State of Illinois. Failure at any time by Elgin to exercise any of its rights under this agreement shall not constitute a waiver-thereof nor prejudice Elgin's right to enforce it thereafter.

COMPLETE AGREEMENT: These terms and conditions, contain the complete and final agreement between the parties hereto and no other agreement in any way modifying any of these terms and conditions will be binding on Elgin unless in writing and agreed to by an authorized representative of Elgin. All proposed terms included in Buyer's purchase order or other standard contracting documents are expressly rejected.

I agree with the above terms and conditions:

Signed By: _____

Date: _____

#9

MV607 SBA

Sales Proposal For:

TOWN OF WATERFORD

2025 MV Flat - Stake

Presented By:

ALLEGIANCE TRUCKS

INTERNATIONAL®

Financial Summary
2025 MV607 SBA (MV607)

October 27, 2023

(US DOLLAR)

Description		Price
Net Sales Price:		$98,528.42
Memo Item(s):		
Body/Allied Equipment:	$0.00	*Chassis Only*
Note: Memo item(s) shown here are included in the above Net Sales Price.		

Please feel free to contact me regarding these specifications should your interests or needs change. I am confident you will be pleased with the quality and service of an International vehicle.

NOTE: PRICING IS CURRENT FOR MODEL YEAR 2025 / PRODUCTION CALENDAR YEAR 2024 BUT IF INTERNATIONAL LEVIES ADDITIONAL SURCHARGES DUE TO VENDORS INCREASING PRICING OR GOVERMENT MANDATES (EPA, ETC.) I WILL NEED TO RE-PRICE THE CHASSIS AT THAT POINT.

WHILE EVERY EFFORT WILL BE APPLIED TO SUPPLY THIS TRUCK, PRODUCTION IS LIMITED, WE CANNOT GUARANTEE A BUILD SLOT FOR EVERY ORDER PLACED DUE TO SUPPLY CHAIN CONSTRAINTS.

NAVISTAR HAS PUT A $5,000 ORDER CANCELLATION IN PLACE ON ALL ORDERS.
A $5000 DEPOSIT IS NOW REQUIRED FOR ALL ORDERS TO BE PLACED. IN THE EVENT YOU CANCEL AN ORDER YOU WILL FORFEIT YOUR DEPOSIT.

Approved by Seller:

_____
Official Title and Date

_____
Authorized Signature

ALLEGIANCE TRUCKS
130 BRAINARD RD
HARTFORD CT 06114 -
(860)249-8635

This proposal is not binding upon the seller without Seller's Authorized Signature

Accepted by Purchaser:

_____
Firm or Business Name

_____
Authorized Signature and Date

_____
Official Title and Date

The TOPS FET calculation is an estimate for reference purposes only. The seller or retailer is responsible for calculating and reporting/paying appropriate FET to the IRS.

The limited warranties applicable to the vehicles described herein are Navistar, Inc.'s standard printed warranties which are incorporated herein by reference and to which you have been provided a copy and hereby agree to their terms and conditions.

Prepared For:
TOWN OF WATERFORD
Garon VanOverloop
15 ROPE FERRY RD.
WATERFORD, CT 06385-
(860)444 - 5867
Reference ID: N/A

Presented By:
ALLEGIANCE TRUCKS
Marc Palumbo
130 BRAINARD RD
HARTFORD CT 06114 -
(860)249-8635

Thank you for the opportunity to provide you with the following quotation on a new International truck. I am sure the following detailed specification will meet your operational requirements, and I look forward to serving your business needs.

Model Profile
2025 MV607 SBA (MV607)

AXLE CONFIG:	4X2
APPLICATION:	Stake Flat
MISSION:	Requested GVWR: 25500. Calc. GVWR: 25999. Calc. GCWR: 33000 Calc. Start / Grade Ability: 35.49% / 2.78% @ 55 MPH Calc. Geared Speed: 80.9 MPH
DIMENSION:	Wheelbase: 163.00, CA: 95.90, Axle to Frame: 49.00
ENGINE, DIESEL:	{Cummins B6.7 280} EPA 2024, 280HP @ 2400 RPM, 660 lb-ft Torque @ 1600 RPM, 2600 RPM Governed Speed, 280 Peak HP (Max)
TRANSMISSION, AUTOMATIC:	{Allison 2500 RDS} 6th Generation Controls, Wide Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, with 33,000-lb GVW and GCW Max
CLUTCH:	Omit Item (Clutch & Control)
AXLE, FRONT NON-DRIVING:	{Dana Spicer D-800F} I-Beam Type, 8,000-lb Capacity
AXLE, REAR, SINGLE:	{Meritor RS-21-160} Single Reduction, 21,000-lb Capacity, 200 Wheel Ends Gear Ratio: 6.14
CAB:	Conventional, Day Cab
TIRE, FRONT:	(2) 11R22.5 Load Range H HSR 3 (CONTINENTAL), 494 rev/mile, 75 MPH, All-Position
TIRE, REAR:	(4) 11R22.5 Load Range G HDR2+ (CONTINENTAL), 491 rev/mile, 75 MPH, Drive
SUSPENSION, REAR, SINGLE:	23,500-lb Capacity, Vari-Rate Springs, with 4500-lb Capacity Auxiliary Rubber Springs
PAINT:	Cab schematic 100WP Location 1: 5047, Green (Prem) Chassis schematic N/A

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
MV60700	Base Chassis, Model MV607 SBA with 163.00 Wheelbase, 95.90 CA, and 49.00 Axle to Frame.	5354/2774	8128
AXLE CONFIGURATION			
1ANA	AXLE CONFIGURATION {Navistar} 4x2	0/0	0
	Notes : Pricing may change if axle configuration is changed.		
ENGINE			
12EXW	ENGINE, DIESEL {Cummins B6.7 280} EPA 2024, 280HP @ 2400 RPM, 660 lb-ft Torque @ 1600 RPM, 2600 RPM Governed Speed, 280 Peak HP (Max)	0/0	0
12VJR	EMISSION, CALENDAR YEAR {Cummins B6.7} EPA, OBD and GHG Certified for Calendar Year 2024	0/0	0
12XCS	CARB EMISSION WARR COMPLIANCE Does Not Comply with CARB Emission Warranty	0/0	0
12WZE	CARB IDLE COMPLIANCE Does Not Comply with California Clean Air Idle Regulations	0/0	0
12WVG	EPA IDLE COMPLIANCE Low NOx Idle Engine, Complies with EPA Clean Air Regulations; Includes "Certified Clean Idle" Decal on Hood	0/0	0
12XCE	RADIATOR Aluminum, 3-Row, Down Flow, Front to Back System, 738 Sqin Louvered, with 477 Sqin Charge Air Cooler, Includes In-Tank Oil Cooler	0/0	0
12TSY	FAN DRIVE {Borg-Warner SA85} Viscous Type, Screw On	0/0	0
	Includes : FAN Nylon		
12VCE	AIR CLEANER Single Element, Fire Retardant Media	0/0	0
12703	ANTI-FREEZE Red, Extended Life Coolant; To -40 Degrees F/ -40 Degrees C, Freeze Protection	0/0	0
12WUL	BLOCK HEATER, ENGINE {Phillips} 120V/1000W, with "Y" Cord for Dealer Installed 120V/300W Oil Pan Heater	3/0	3
	Includes : BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door		
12VYP	ENGINE CONTROL, REMOTE MOUNTED No Provision for Remote Mounted Engine Control	0/0	0
12WPV	OIL PAN 15 Quart Capacity, For Cummins ISB/B6.7 Engines	0/0	0
12VXT	THROTTLE, HAND CONTROL Engine Speed Control; Electronic, Stationary, Variable Speed; Mounted on Steering Wheel	0/0	0
12EMZ	VENDOR WARRANTY, ENGINE {Cummins} B6.7 Engine, 3-Year Unlimited Miles Standard Warranty	0/0	0
TRANSMISSION			
13BBK	TRANSMISSION, AUTOMATIC {Allison 2500 RDS} 6th Generation Controls, Wide Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, with 33,000-lb GVW and GCW Max	0/0	0

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
13WYH	TRANSMISSION TCM LOCATION Located Inside Cab	0/0	0
13WVV	NEUTRAL AT STOP Allison Transmission Shifts to Neutral When Service Brake Is Depressed and Vehicle Is at Stop; Remains in Neutral Until Service Brake Is Released	0/0	0
13XAL	PTO LOCATION Customer Intends to Install PTO at Left Side of Transmission	0/0	0
13WYY	SHIFT CONTROL PARAMETERS {Allison} 1000 or 2000 Series Transmissions, Performance Programming	0/0	0
13WEV	TRANSMISSION FEATURE EFFECTS for Allison, Disable Aftertreatment Regeneration When in PTO Mode	0/0	0
13WLN	TRANSMISSION OIL Synthetic; 20 thru 28 Pints	0/0	0
13WVS	TRANSMISSION SHIFT CONTROL T-Handle	0/0	0
CLUTCH			
11001	CLUTCH Omit Item (Clutch & Control)	0/0	0
REAR AXLES, SUSPENSIONS			
14ATE	AXLE, REAR, SINGLE {Meritor RS-21-160} Single Reduction, 21,000-lb Capacity, 200 Wheel Ends . Gear Ratio: 6.14	0/402	402
	Notes : Axle Lead Time is 30 Days Standard, 90 Days w/no Spin Option		
14VAH	SUSPENSION, REAR, SINGLE 23,500-lb Capacity, Vari-Rate Springs, with 4500-lb Capacity Auxiliary Rubber Springs	0/66	66
14WMG	AXLE, REAR, LUBE {EmGard FE-75W-90} Synthetic Oil; 30 thru 39.99 Pints	0/0	0
14WAP	SHOCK ABSORBERS, REAR (2)	0/45	45
FRONT AXLES			
2AEM	AXLE, FRONT NON-DRIVING {Dana Spicer D-800F} I-Beam Type, 8,000-lb Capacity	-12/0	-12
FRONT SUSPENSIONS			
3ADA	SUSPENSION, FRONT, SPRING Parabolic Taper Leaf, Shackle Type, 8,000-lb Capacity, with Shock Absorbers	0/0	0
	Includes : SPRING PINS Rubber Bushings, Maintenance-Free		
CABS, COWLS, BODIES			
16030	CAB Conventional, Day Cab	0/0	0
	Includes : CLEARANCE/MARKER LIGHTS (5) Flush Mounted		
16ZJA	ACCESS, CAB Aluminum, Self-Cleaning, Open and Serrated Design, Driver & Passenger Sides, Two Steps per Door, for use with Day Cab, Extended Cab or Sleeper Cab	-1/0	-1
16BAM	AIR CONDITIONER with Integral Heater and Defroster	56/0	56

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
16WBY	ARM REST, RIGHT, DRIVER SEAT	3/0	3
16VKB	CAB INTERIOR TRIM Classic, for Day Cab	0/0	0
	Includes : CONSOLE, OVERHEAD Molded Plastic with Dual Storage Pockets, Retainer Nets and CB Radio Pocket; Located Above Driver and Passenger : DOME LIGHT, CAB Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Integral to Overhead Console, Center Mounted : SUN VISOR (2) Padded Vinyl; 2 Moveable (Front-to-Side) Primary Visors, Driver Side with Toll Ticket Strap		
16VLK	CAB REAR SUSPENSION Air Suspension, for Mid Cab Height	42/0	42
16WEE	CAB SOUND INSULATION Includes Dash Insulator and Engine Cover Insulator	8/0	8
16WLS	FRESH AIR FILTER Attached to Air Intake Cover on Cowl Tray in Front of Windshield Under Hood	1/0	1
16GEG	GAUGE CLUSTER Premium Level; English with English Electronic Speedometer	0/0	0
	Includes : GAUGE CLUSTER DISPLAY: Base Level (3" Monochromatic Display), Premium Level (5" LCD Color Display); Odometer, Voltmeter, Diagnostic Messages, Gear Indicator, Trip Odometer, Total Engine Hours, Trip Hours, MPG, Distance to Empty/ Refill for : GAUGE CLUSTER Speedometer, Tachometer, Engine Coolant Temp, Fuel Gauge, DEF Gauge, Oil Pressure Gauge, Primary and Secondary Air Pressure or Auxiliary Air Pressure (if Air Equipped) : WARNING SYSTEM Low Fuel, Low DEF, Low Oil Pressure, High Engine Coolant Temp, Low Battery Voltage (Visual and Audible), Low Air Pressure, Primary and Secondary (if Air Equipped)		
16HHE	GAUGE, AIR CLEANER RESTRICTION (Filter-Minder) Mounted in Instrument Panel	2/0	2
16HGH	GAUGE, OIL TEMP, AUTO TRANS for Allison Transmission	1/0	1
16XJN	INSTRUMENT PANEL Flat Panel	0/0	0
16HKT	IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster	0/0	0
16WSE	LOW WASHER FLUID INDICATOR	1/0	1
16SNM	MIRRORS (2) C-Loop, Heated, Black Heads and Arms, 7.5" x 14" Flat Glass, Includes 7.5" x 7" Convex Mirrors, for 102" Load Width	0/0	0
	Notes : Mirror Dimensions are Rounded to the Nearest 0.5"		
16SSB	MIRROR, CONVEX, HOOD MOUNTED (2) Right and Left Sides, Breakaway, Black	0/0	0
16JNT	SEAT, DRIVER (National 2000) Air Suspension, High Back with Integral Headrest, Vinyl, Isolator, 1 Chamber Lumbar, with 2 Position Front Cushion Adjust, -3 to +14 Degree Angle Back Adjust	-13/-5	-18
16SMH	SEAT, TWO-MAN PASSENGER (National) Fixed Back, Integrated Headrest in Both Occupant Positions, Vinyl, with Under Seat Storage Compartment	36/35	71
16WJU	WINDOW, POWER (2) and Power Door Locks, Left and Right Doors, Includes Express Down Feature	5/0	5

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
FRAMES			
1CAD	FRAME RAILS High Strength Low Alloy Steel (80,000 PSI Yield); 10.250" x 3.092" x 0.375" (260.4mm x 78.5mm x 9.5mm); 455.0" (11557mm) Maximum OAL	102/153	255
1LNN	BUMPER, FRONT Contoured, Steel, Chrome Plated	0/0	0
1570	TOW HOOK, FRONT (2) Frame Mounted	8/0	8
1LEG	LICENSE PLATE HOLDER Includes Upper & Lower Mounting Plate Hardware, Mounted in Existing Holes in Front Bumper	3/0	3
1WEH	WHEELBASE RANGE 134" (340cm) Through and Including 197" (500cm)	75/-75	0
BRAKES			
4091	BRAKE SYSTEM, AIR Dual System for Straight Truck Applications Includes : BRAKE LINES Color and Size Coded Nylon : DRAIN VALVE Twist-Type : GAUGE, AIR PRESSURE (2) Air 1 and Air 2 Gauges; Located in Instrument Cluster : PARKING BRAKE CONTROL Yellow Knob, Located on Instrument Panel : PARKING BRAKE VALVE For Truck : QUICK RELEASE VALVE On Rear Axle for Spring Brake Release: 1 for 4x2, 2 for 6x4 : SPRING BRAKE MODULATOR VALVE R-7 for 4x2, SR-7 with relay valve for 6x4/8x6	-29/-21	-50
4AZJ	AIR BRAKE ABS {Bendix AntiLock Brake System} 4-Channel (4 Sensor/4 Modulator) Full Vehicle Wheel Control System, with Automatic Traction Control	4/1	5
4GBM	BRAKE, PARKING Manual Push-Pull Pneumatic Parking Brake	1/0	1
4XDC	BRAKES, FRONT {Meritor 15X4 Q-PLUS CAST} Air S-Cam Type, Cast Spider, Fabricated Shoe, Double Anchor Pin, Size 15" X 4", 13,200-lb Capacity	77/0	77
4ESX	BRAKE CHAMBERS, FRONT AXLE {Haldex} 20 Sqin	13/0	13
4LAG	SLACK ADJUSTERS, FRONT {Gunite} Automatic	14/0	14
4WBX	DUST SHIELDS, FRONT BRAKE for Air Cam Brakes	10/0	10
4XDR	BRAKES, REAR {Meritor 16.5X7 Q-PLUS CAST} Air S-Cam Type, Cast Spider, Fabricated Shoe, Double Anchor Pin, Size 16.5" X 7", 23,000-lb Capacity per Axle	0/195	195
4EXU	BRAKE CHAMBERS, REAR AXLE {Bendix EverSure} 30/30 Sqin Spring Brake	0/39	39
4LGG	SLACK ADJUSTERS, REAR {Gunite} Automatic	0/14	14
4WDM	DUST SHIELDS, REAR BRAKE for Air Cam Brakes	0/10	10
4LGR	SLACK ADJUSTER PINS Stainless Steel Slack Adjuster Pins/Cotter Pins on Front and Rear	0/0	0
4SPA	AIR COMPRESSOR {Cummins} 18.7 CFM	37/1	38
4EDN	AIR DRYER {Bendix AD-9SI} with Heater, Includes Safety Valve	19/-2	17
4VLE	AIR DRYER LOCATION Mounted Inside Engine Compartment, Right Side	0/0	0
4EYD	AIR DRYER SHIELD to Protect from Debris	0/0	0
4VGM	AIR TANK Polished Aluminum, with Straight Thread O-Ring Ports	-12/-3	-15

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
4VKH	AIR TANK LOCATION (2) Mounted Under Battery Box, Outside Right Rail, Under Cab	37/14	51
4732	DRAIN VALVE {Berg} with Pull Chain, for Air Tank	0/0	0
STEERING			
5PRG	STEERING GEAR {TRW (Ross) TAS40} Power	0/0	0
5708	STEERING COLUMN Tilting	14/2	16
5CAW	STEERING WHEEL 4-Spoke; 18" Dia., Black	0/0	0
DRIVELINES			
6DGA	DRIVELINE SYSTEM {Dana Spicer} SPL100, for 4x2/6x2	0/0	0
EXHAUST SYSTEMS			
7BMJ	EXHAUST SYSTEM Horizontal Aftertreatment System, Frame Mounted Under Right Rail Back of Cab, for Single Vertical Tail Pipe, Frame Mounted Right Side Back of Cab	75/48	123
7SCP	ENGINE EXHAUST BRAKE for Cummins ISB/B6.7/ISL/L9 Engine with Variable Vane Turbo Charger	0/0	0
7WDM	EXHAUST HEIGHT 10'	15/12	27
7WBS	MUFFLER/TAIL PIPE GUARD (1) Bright Stainless Steel	13/11	24
7WBA	TAIL PIPE (1) Turnback Type, Bright	5/4	9
ELECTRICAL SYSTEMS			
8000	ELECTRICAL SYSTEM 12-Volt, Standard Equipment Includes : DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab : HAZARD SWITCH Push On/Push Off, Located on Instrument Panel to Right of Steering Wheel : HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever : PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light : STARTER SWITCH Electric, Key Operated : STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector : TURN SIGNAL SWITCH Self-Cancelling for Trucks, Manual Cancelling for Tractors, with Lane Change Feature : TURN SIGNALS, FRONT Includes Reflectors and Auxiliary Side Turn Signals, Solid State Flashers; Flush Mounted : WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever : WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted : WIRING, CHASSIS Color Coded and Continuously Numbered	0/0	0
8WXD	ALARM, PARKING BRAKE Electric Horn Sounds In Repetitive Manner When Vehicle Park Brake is "NOT" Set, with Ignition "OFF" and any Door Opened	0/0	0
8GHP	ALTERNATOR {Delco Remy 28SI} Brush Type, 12 Volt, 160 Amp Capacity, Pad Mount, with Remote Sense	-1/0	-1
8RPP	ANTENNA Shark Fin, Roof Mounted	1/0	1

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
8THB	BACK-UP ALARM Electric, 102 dBA	0/3	3
8VUX	BATTERY BOX Steel, with Plastic Cover, 25" Wide, 2-3 Battery Capacity, Mounted Right Side Under Cab	0/0	0
8MSG	BATTERY SYSTEM (Fleetrite) Maintenance-Free, (3) 12-Volt 1980CCA Total, Top Threaded Stud	25/28	53
8HAB	BODY BUILDER WIRING Back of Day Cab at Left Frame or Under Sleeper, Extended or Crew Cab at Left Frame; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/ Turn	2/0	2
8RGA	2-WAY RADIO Wiring Effects; Wiring with 20 Amp Fuse Protection, Includes Ignition Wire with 5 Amp Fuse, Wire Ends Heat Shrink and Routed to Center of Header Console in Cab	1/0	1
8XAH	CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III with Trip Indicators, Replaces All Fuses	0/0	0
8518	CIGAR LIGHTER Includes Ash Cup	1/0	1
8WPH	CLEARANCE/MARKER LIGHTS (5) (Truck Lite) Amber LED Lights, Flush Mounted on Cab or Sunshade	1/0	1
8XHA	CRUISE DISABLED W/WIPERS Cruise Control will Automatically be Disabled if Windshield Wipers are Turned on when Vehicle Speed Exceeds 25 MPH	0/0	0
8XNZ	HEADLIGHTS Halogen, with Daytime Running Lights	0/0	0
8WRB	HEADLIGHTS ON W/WIPERS Headlights Will Automatically Turn on if Windshield Wipers are turned on	0/0	0
8XHN	HORN, AIR Single Trumpet, Black, with Lanyard Pull Cord	3/0	3
8540	HORN, ELECTRIC (2) Trumpet Style	0/0	0
8WWJ	INDICATOR, LOW COOLANT LEVEL with Audible Alarm	0/0	0
8XPK	POWER SOURCE, ADDITIONAL Auxiliary Power Outlet (APO) with USB-A Port and USB-C Port, Located in the Instrument Panel	0/0	0
8RPS	RADIO AM/FM/WB/Clock/Bluetooth/USB Input/Auxillary Input	3/0	3
8RMZ	SPEAKERS (2) 6.5" Dual Cone Mounted in Both Doors, (2) 5.25" Dual Cone Mounted in Both B-Pillars	7/1	8
8WTK	STARTING MOTOR (Delco Remy 38MT Type 300) 12 Volt, Less Thermal Over-Crank Protection	8/0	8
8TKJ	STOP, TURN, TAIL & B/U LIGHTS (Truck Lite) Super 44, with LED Lights for Stop, Turn, Tail and Backup Lights, with Power Module, "International" Termination and Less Junction Box, Includes License Plate Light	0/2	2
8VTV	STOP-LIGHT WIRING MODIFIED Stop-Lights Turned on When Engine Compression Brake, Exhaust Brake or Retarder is Activated	0/0	0
8WMA	SWITCH, TOGGLE, FOR WORK LIGHT Lighted; on Instrument Panel and Wiring Effects for Customer Furnished Back of Cab Light	2/1	3
8WPZ	TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except Back-up Lights	0/0	0

FRONT END

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
9WBW	FRONT END Tilting, Fiberglass, with Three Piece Construction, Dual Air Intakes	0/0	0
9WBN	FENDER EXTENSIONS Painted	0/0	0
9HCY	GRILLE Molded in Black, with Chrome Surround	0/0	0
9HBN	INSULATION, SPLASH PANELS for Sound Abatement	2/0	2
9HAN	INSULATION, UNDER HOOD for Sound Abatement	10/0	10
9AAB	LOGOS EXTERIOR Model Badges	0/0	0
9AAE	LOGOS EXTERIOR, ENGINE Badges	0/0	0
SPEEDOMETER, TOOLS, MISC			
10021	CHASSIS COATING Corrosion Resistant E-Coat Primer Coating for Single Frame Rails	0/0	0
10AGB	COMMUNICATIONS MODULE Telematics Device with Over the Air Programming; Includes Five Year Data Plan and International 360	0/0	0
10XAN	FIRE EXTINGUISHER 5 lb Class A B C	8/2	10
10XAP	FIRE EXTINGUISHER BRACKET Mounted Left Side Driver Seat	1/0	1
10WBS	KEYS - ALL ALIKE, ADDITIONAL 2 Keys	0/0	0
10WUE	MUD FLAPS, FRONT WHEELS (2) Rubber, Mounted on Fender Extension	12/0	12
10060	PAINT SCHEMATIC, PT-1 Single Color, Design 100	0/0	0
	Includes : PAINT SCHEMATIC ID LETTERS "WP"		
10761	PAINT TYPE Base Coat/Clear Coat, 1-2 Tone	0/0	0
10SLV	PROMOTIONAL PACKAGE Government Silver Package	0/0	0
10WCY	SAFETY TRIANGLES	6/0	6
10WGD	SPECIAL RATING, GVWR Limited to 25,999-lb GVWR	0/0	0
10769	PAINT CLASS Premium Color	0/0	0
FUEL TANKS			
15SGJ	FUEL TANK Top Draw, Non-Polished Aluminum, D-Style, 16" Tank Depth, 50 US Gal (189L), Mounted Left Side, Under Cab	23/3	26
15WDG	DEF TANK 7 US Gal (26L) Capacity, Frame Mounted Outside Left Rail, Under Cab	0/0	0
15BAA	DEF TANK COVER Stainless Steel	2/0	2
15924	FUEL TANK STRAPS Bright Finish Stainless Steel	0/0	0
15LMN	FUEL/WATER SEPARATOR {Racor 400 Series,} 12 VDC Electric Heater, Includes Pre-Heater, with Primer Pump, Includes Water-in-Fuel Sensor	-3/0	-3
15LRE	LOCATION FUEL/WATER SEPARATOR Mounted Under Hood, Left Side, Above Front Axle	0/0	0
WHEELS, TIRES - FRONT			

Code	Description	F/R Wt (lbs)	Tot Wt (lbs)
27DTU	WHEELS, FRONT {Accuride 29001} DISC; 22.5x7.50 Rims, Powder Coat Steel, 5-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs	0/0	0
7382135439	(2) TIRE, FRONT 11R22.5 Load Range H HSR 3 (CONTINENTAL), 494 rev/mile, 75 MPH, All-Position	78/0	78
WHEELS, TIRES - REAR			
28DTU	WHEELS, REAR {Accuride 29001} DUAL DISC; 22.5x7.50 Rims, Powder Coat Steel, 5-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs	0/0	0
7372135444	(4) TIRE, REAR 11R22.5 Load Range G HDR2+ (CONTINENTAL), 491 rev/mile, 75 MPH, Drive	0/168	168
WHEELS, SPARE			
26DTU	WHEEL, SPARE, DISC {Accuride 29001} 22.5x7.50 Rims, Powder Coat Steel, 5-Hand Hole 10-Stud, 285.75mm BC, Hub-Piloted	0/72	72
WHEELS MISC OPTIONS			
29WLK	WHEEL BEARING, FRONT, LUBE {EmGard FE-75W-90} Synthetic Oil	0/0	0
	Services Section:		
WARRANTY			
40129	WARRANTY Standard for MV Series, Effective with Vehicles Built July 1, 2017 or Later, CTS-2020A	0/0	0
40YYJ	SRV CONTRACT, EXT CMS ENG/AFTR {Cummins} To 60-Month/100,000 Miles (160,000 km), Extended Cummins B6.7 Engine Coverage, Protection Plan 1 and Aftertreatment, (Truck Application Only)	0/0	0
40XUJ	SRV CONTRACT, EXT VEH COVERAGE {Navistar} To 60-Month/100,000 Miles (160,000 km), Excludes Extended Warranty for Engine and Transmission	0/0	0
	Total Component Weight:	**6159/4000 (lbs)**	**10159 (lbs)**
		(lbs)	(lbs)

The weight calculations included in this proposal are an estimate of future vehicle weight. The actual weight as manufactured may be different from the estimated weight. Navistar, Inc. shall not be liable for any consequences resulting from any differences between the estimated weight of a vehicle and the actual weight.

H9

EQUIPMENT SPECIALISTS

180 Roberts Street, East Hartford CT 06108 Tel: (860) 296-7000 • www.ES-CT.com

Town of Waterford

November 8, 2023

Public Works

Waterford, CT.

IROQUOIS 14FT RACK BODY

ATTN: Garon

BUDGET ONLY

- Chassis MUST HAVE Clear Right-Side Frame Rail Behind Cab (as much as Possible). Relocating of Components Interfering in Installation will be Billed at Shop Rate of $165 per Hour

- Chassis Must Have factory option switches, 6-Minimum preferred
- Minimum 26,000 GVW Six (6) Wheel Cab & Chassis
- ***106" CA with Spring Suspension- (Need to confirm)***
- Allison 3000 or Higher Transmission
- Air and Electric to Rear
- Electric Trailer Brake Prep Package in cab

Additional charges may apply for items not supplied on chassis

We are Pleased to Quote the Following One (1) New Iroquois Custom Built Flatbed INSTALLED ON IH MV 26,000 GVW WITH 106" CA:

BODY:

- IROQUOIS STAKE/PLATFORM BODY
- LENGTH: 14' 4" WIDTH: 96"
- ¼" STEEL DIAMOND PLATE FLOOR & RAILS, TWO (2) PIECE STYLE
- 4" STRUCTURAL CHANNEL CROSSMEMBERS ON 16" CENTERS
- 6" STRUCTURAL CHANNEL LONGSILLS
- 60" HIGH 10 GA SMOOTH STEEL HEADBOARD BRACED WITH 3" STRUCTURAL CHANNEL
- VERTICAL SUPPORTS, BOXED TOP RAIL WITH FULL WIDTH TRIPPLE WIDE INTERGRATED SCREEN WINDOW, BRACED FORWARD
- INSTALL PIPE STYLE WINCH BAR HOLDER AT FRONT SIDE OF HEADBOARD
- RAIL STAKE POCKET HOLES AT THE SIDES & REAR
- 42" HIGH WOODED SLATTED SIDES
- FIVE (5) WOODED SLATTS
- WESTERN STYLE RACK CONNECTORS, ALL REMOVABLE

- LED CLEARANCE LIGHTS & REFLECTORS

RAILGATE:

- Thiemen Model AATVLR-20-9036+6 All Aluminum Railgate
- 2000 Lb Capacity
- Weld-On Aluminum Rails
- One Piece Aluminum Platform
- 90" X 36" Loading Platform With 6" Tapered Ramp
- Toggle Switch Control With In-Cab Shut-Off
- Gravity Down
- Manual Close Platform / Torsion Assist
- Sliders With Top & Bottom Rollers
- 96" Wide Body Required
- Platform To Store Approx. 32" Above Floor
- 54" Rails
- Outside Width Rail-To-Rail 95"
- Inside Width 86.63"
- Bed Height 33"-51"
- Led Tailight Kit
- Remote Pendant

TOOLBOXES:

- Two (2) Bawer 24" X 24" X 60" STAINLESS STEEL Underbody Boxes with Double Doors
- Two (2) Bawer 24" X 24" X 60" STAINLESS STEEL Boxes with Double Doors Mounted on outside edges of Flatbed Body
-

LIGHTING:

- SOUND-OFF LIGHT BAR (Chassis must have reinforcements)
- Front Strobes: 2 @ SOUND-OFF GREEN/AMBER Recessed In Grill
- Dual Beacons: SOUND-OFF GREEN AMBER on Headboard
- Rear Strobes: 2 @ SOUND-OFF GREEN/AMBER Mounted In Boxes at Top Sides of Railgate
- Two (2) Led Spots – Location TBD
- Icc Required Led Lighting on Body

TOW PLATE:

- 5/8"" Towplate Mounted W/ Gussetts, 2 D-Rings, 7 Flat Rv Pin & 6 Round Trailer Plugs, 2-5/16" Pintle Ball Combo (19" To Top of Ball) Bolted To Towplate W/ 3 Different Height Hole Sets
- Custom ICC Bar

MISC:

- Cone Holders Front Bumper
- Poly Fenders
- Varitech 150 Gallon Tank mounted to Headboard
- Misc Tool Holders

- Access Ladder on Rear Side of Body
- Wheel Chock Holder
- Back-Up Alarm
- Fully Installed on Chasis with 106" CA And Six (6) Aux Switches

BUDGET..... **$ 52,000.00**

OPTIONS:

A. REARVIEW CAMERA..... $ 950.00
B. RACK BODY WITH 102" ILO 96"..... $ 1600.00

QUOTE VALID: 30 DAYS

DELIVERY: 90 DAYS AROC

Respectfully Submitted,

Glenn Slade - Sales Consultant

Equipment Specialists

Vehicle Report

Town of Waterford Public Works

70 records

Report generated on 11/21/2023 8:36 AM by Kimberly Allen

Filters

Vehicle Group is any of or any subgroup of: PUBLIC WORKS

Fleetio ID	Name	Group	Year	Make	Model	Type	Current Meter	Current Meter Unit	Status	VIN/SN	License Plate	Cost Per Meter Unit (Lifetime) (USD)
2028462	A18	PUBLIC WORKS	2006	Ford	Crown Victoria	Passenger/Admin	75201.0	mi	Active	2FAHP71W86X122289	110WFD	0.04
2028464	A2	PUBLIC WORKS	2009	Ford	Escape	Passenger/Admin	98805.0	mi	Active	1FMCU92779KB46666	45WFD	0.5
2028463	A8	PUBLIC WORKS	2001	Jeep	Cherokee	Passenger/Admin	102930.0	mi	Active	1J4FF48S51L565909	106WFD	0.16
2028524	H10	PUBLIC WORKS	2006	Chevrolet	Silverado 2500HD	Light duty truck	173315.0	mi	Active	1GBHK24DX6E251727	150WFD	0.3
2028465	H11	PUBLIC WORKS	2019	Ford	F-350 Super Duty	Light duty truck	54855.0	mi	Active	1FTRF3B68KEG24790	78WFD	0.04
2028466	H12	PUBLIC WORKS	2003	Ford	F-450 Super Duty	Light duty truck	55772.0	mi	Active	1FDXF46F63EB17892	80WFD	0.45
2863466	H13	PUBLIC WORKS	2014	Chevrolet	Silverado 2500HD	Car	74868.0	mi	Active	1GC0KVCGXEF154607	79WFD	1.22
2028468	H14	PUBLIC WORKS	2015	International	DuraStar 4300	Medium duty	42884.0	mi	Active	1HTMMAAL8FH734287	32WFD	0.16
2095548	H147	PUBLIC WORKS	1991	ROSCO	3 TON UTILITY TRAILER	Trailer	0.0	mi	Active	1YB411327M1B1T617	147WFD	
2028469	H15	PUBLIC WORKS	2015	International	DuraStar 4300	Medium duty	42770.0	mi	Active	1HTMMAALXFH734288	129WFD	0.12
2028470	H16	PUBLIC WORKS	2018	Freightliner	M2 106	Medium duty	26175.0	mi	Active	1FVACWFC5JHJJ7757	123WFD	0.12

Fleetio ID	Name	Group	Year	Make	Model	Type	Current Meter	Current Meter Unit	Status	VIN/SN	License Plate	Cost Per Meter Unit (Lifetime) (USD)
2028471	H17	PUBLIC WORKS	2018	Freightliner	M2 106	Medium duty	31265.0	mi	Active	1FVACWFC3JHJJ7756	83WFD	0.22
2028472	H18	PUBLIC WORKS	2010	International	DuraStar 4300	Medium duty	64460.0	mi	Active	1HTMMAAL8AH188776	125WFD	1.6
2028473	H19	PUBLIC WORKS	2012	Ford	F-250 Super Duty	Light duty truck	146590.0	mi	Active	1FTBF2B68CEA59387	108WFD	0.03
2028474	H24	PUBLIC WORKS	2003	Elgin	PELICAN P SWEEPER	SWEEPER	17143.0	mi	Active	P-3928-S	56WFD	1.77
2028475	H25	PUBLIC WORKS	2018	Freightliner	M2 106	Medium duty	21754.0	mi	Active	1FVACXFC9JHJH1578	57WFD	0.23
2629949	H25Aux	PUBLIC WORKS				SWEEPER	2115.0	hr	Active			307.17
2095549	H27	PUBLIC WORKS	2008	JOHN DEERE	MODEL 5603 TRACTOR	Road side mower	6884.0	hr	Out of Service	LV5603R268632	63WFD	0.66
2028476	H30	PUBLIC WORKS	2018	Freightliner	114 SD	Medium duty	61568.0	mi	Active	1FVAG3FE9JHJH1112	87WFD	0.16
2028477	H31	PUBLIC WORKS	2017	Freightliner	114 SD	Medium duty	63481.0	mi	Active	1FVAG3CY3HHJA1291	88WFD	0.59
2028478	H32	PUBLIC WORKS	2017	Freightliner	114 SD	Medium duty	32372.0	mi	Active	1FVAG3CY5HHJA1292	95WFD	0.54
2095550	H33	PUBLIC WORKS	2004	CARLTON	7500 - Stump Grinder	STUMP GRINDER	258.0	mi	Active	1J9G42122C1167474	135WFD	1.52
2028479	H34	PUBLIC WORKS	2019	FREIGHTLINER	114SD	Medium duty	19288.0	mi	Active	1FVAG3FE0KHM1621	94WFD	0.45
2028480	H35	PUBLIC WORKS	2012	International	WorkStar 7400	Medium duty	54433.0	mi	Active	1HTWDAZR8CH121003	92WFD	1.63
2028481	H36	PUBLIC WORKS	2014	International	WorkStar 7400	Medium duty	56857.0	mi	Active	1HTWDAAR2EH025219	124WFD	0.96
2028482	H37	PUBLIC WORKS	2014	International	WorkStar 7400	Medium duty	42134.0	mi	Active	1HTWDAAR0EH025218	131WFD	2.39

Fleetio ID	Name	Group	Year	Make	Model	Type	Current Meter	Current Meter Unit	Status	VIN/SN	License Plate	Cost Per Meter Unit (Lifetime) (USD)
2028483	H38	PUBLIC WORKS	2014	International	WorkStar 7400	Medium duty	43782.0	mi	Active	1HTWDAAR9EH025220	130WFD	0.72
2028484	H39	PUBLIC WORKS	2009	International	WorkStar 7400	Medium duty	64116.0	mi	Active	1HTWDAAR29J077349	96WFD	2.86
2028485	H40	PUBLIC WORKS	2018	Freightliner	114 SD	Medium duty	30613.0	mi	Active	1FVAG3FE8JHJX2787	97WFD	0.99
2206433	H42	PUBLIC WORKS	2019	Freightliner	Coronado 122 SD	18-YEAR SPECIALTY UNIT	79532.0	mi	Active	3AKJGNFG4KDKE1916	99WFD	0.65
2095601	H43DT	PUBLIC WORKS	2001	FRUEHAUF	DUMP TRAILER	Trailer	0.0	mi	Active	1JJU262F61S737748	161WFD	
2095551	H43LB	PUBLIC WORKS	2006	TOWMASTER	T-70DTG DUMP TRAILER	Trailer	0.0	mi	Active	4KNFT22276L160354	164WFD	
2095602	H43RO	PUBLIC WORKS	2000	BENLEE	TRAILER TA60TC34	Trailer	0.0	mi	Active	1B9A13420YB183504	151WFD	
2095552	H44	PUBLIC WORKS	2005	VERMEER	BC1000XL- CHIPPER	CHIPPER	1872.0	hr	Active	1VRY1119X51005548	158WFD	114.52
2095553	H45	PUBLIC WORKS	2009	VOLVO	BL70 BACKHOE/LOADER	Off highway heavy equipment	4310.0	hr	Active	VCEOBL70A00020080	60WFD	7.73
2095554	H47	PUBLIC WORKS	2008	JOHN DEERE	5603 LOADER/TRACTOR	Road side mower	4998.0	hr	In Shop	LV5603R270211	58WFD	8.47
2095555	H48	PUBLIC WORKS	2012	HAMM	HD 10VV Asphalt Roller	ROLLER	0.0	mi	Active	2001793	N/A	
2028486	H50	PUBLIC WORKS	2009	International	WorkStar 7400	Medium duty	8264.0	mi	Active	1HTWCAAR79J077348	101WFD	0.35
2110281	H50-1A	PUBLIC WORKS	2022			15 YD BODY SLED FOR H50	0.0	mi	Active	110565	N/A	
2110282	H50-1B	PUBLIC WORKS	2022			Car	0.0	mi	Active	113404	N/A	
2110283	H50-1C	PUBLIC WORKS	2022			HOOKLIFT SLED	0.0	mi	Active	CH0089	N/A	

Fleetio ID	Name	Group	Year	Make	Model	Type	Current Meter	Current Meter Unit	Status	VIN/SN	License Plate	Cost Per Meter Unit (Lifetime) (USD)
2110284	H50-1D	PUBLIC WORKS	2022			Car	0.0	mi	Active	213727	N/A	
2110285	H50-1E	PUBLIC WORKS	2022			Car	0.0	mi	Active	F145AZ	N/A	
2110286	H50-1F	PUBLIC WORKS	2022			Car	0.0	mi	Active	41037	N/A	
2110287	H50-1G	PUBLIC WORKS	2022			Car	0.0	mi	Active	410296	N/A	
2028488	H51	PUBLIC WORKS	2010	International	DuraStar 4300	Medium duty	40009.0	mi	Active	1HTMMAAR3AH247768	90WFD	0.48
2095556	H52	PUBLIC WORKS	2004	Ingersoll Rand	P185WJD COMPRESSOR	COMPRESSOR	0.0	mi	Active	350036UJ0221	162WFD	
2095557	H53	PUBLIC WORKS	2004	TRACKLESS	MT5TD SIDEWALK PLOW w/ attachments	Off highway heavy equipment	13768.0	mi	Active	MT5TD-2330	66WFD	
2095558	H54	PUBLIC WORKS	2015	WACKER NEUSON	WL32 COMPACT LOADER W/ATTACHMENTS	Off highway heavy equipment	751.0	mi	Active	3031050	67WFD	
2095559	H55	PUBLIC WORKS	2017	VERMEER	BC1000XL	CHIPPER	711.0	hr	Active	1VRY11196H1025266	127WFD	44.24
2095561	H58	PUBLIC WORKS	2008	Ingersoll Rand	XP185WJD Port. Compressor	COMPRESSOR	0.0	mi	Active	402988UGS222	146WFD	
2095562	H59	PUBLIC WORKS	2021	SALSCO	TP44-TD	MINI PAVER	0.0	mi	Active	2.11E+16	N/A	
2028489	H6	PUBLIC WORKS	2019	Ford	F-350 Super Duty	Light duty truck	51711.0	mi	Active	1FTRF3B61KEG24789	81WFD	0.11
2095563	H60	PUBLIC WORKS	2023	TORO	72946 (60" COMMERCIAL ZERO TURN)	Mower	13.0	hr	Active	412654613	N/A	
2028490	H64	PUBLIC WORKS	2017	VOLVO	L90H LOADER WHEEL	Off highway heavy equipment	4702.0	mi	Active	VCE0L90HC0S623984	61WFD	1.43
2028491	H65	PUBLIC WORKS	2004	VOLVO	L90E LOADER	Off highway heavy equipment	12566.0	mi	Active	L90EV66599	59WFD	7.05

Fleetio ID	Name	Group	Year	Make	Model	Type	Current Meter	Current Meter Unit	Status	VIN/SN	License Plate	Cost Per Meter Unit (Lifetime) (USD)
2095564	H77	PUBLIC WORKS	2013	BIG TEX	70TV-12 UTILITY TRAILER	Trailer	0.0	mi	Active	16VUX1220D3E93806	168WFD	
2028492	H9	PUBLIC WORKS	2011	International	DuraStar 4300	Medium duty	105980.0	mi	Active	1HTMMAAL9BH388342	77WFD	2.23
2028523	S18	PUBLIC WORKS	2011	Peterbilt	320	Truck	93983.0	mi	Active	3BPZL50X9BF129187	70WFD	0.87
2028499	S19	PUBLIC WORKS	2011	Peterbilt	320	Truck	98229.0	mi	Active	3BPZL50X7BF129186	93WFD	2.22
2028493	S20	PUBLIC WORKS	2016	Peterbilt	320	Truck	98079.0	mi	Active	3BPZLJ0X2GF100839	72WFD	1.62
2028494	S21	PUBLIC WORKS	2016	Peterbilt	320	Truck	80285.0	mi	Active	3BPZLJ0X9GF100840	64WFD	1.0
2028495	S22	PUBLIC WORKS	2019	Peterbilt	520	Truck	59816.0	mi	Active	3BPDLJ0X5KF102586	71WFD	1.85
2028496	S23	PUBLIC WORKS	2009	International	WorkStar 7400	Truck	43066.0	mi	Active	1HTWGAAT19J093030	73WFD	0.25
2028497	S24	PUBLIC WORKS	2009	International	WorkStar 7400	Truck	48725.0	mi	Active	1HTWGAAT39J093031	74WFD	0.1
2028498	S25	PUBLIC WORKS	2020	Peterbilt	520	Truck	27009.0	mi	Active	3BPDLJ0X7LF109508	75WFD	1.09
2028500	S26	PUBLIC WORKS	2022	Peterbilt	520	Truck	23136.0	mi	Active	3BPDLJ0X9NF112574	76WFD	0.82
2028501	S29	PUBLIC WORKS	2016	Peterbilt	320	Truck	128687.0	mi	Active	3BPZXJ0X2GF102983	69WFD	0.61
2095565	S30	PUBLIC WORKS	2001	VOLVO	EW170 EXCAVATOR	EXCAVATOR	15526.0	hr	Active	26289408	65WFD	4.54
2095566	UT2	PUBLIC WORKS	2009	CAM	Utility Trailer	Trailer	0.0	mi	Active	5JPBU292X9P024572	163WFD	

Service History by Vehicle

Town of Waterford - Public Works

Report generated on 11/16/2023 11:18 AM by Garon VanOverloop

16 records

Filters

Status: completed Vehicle: S21

Labor Cost	Parts Cost	Total Cost
$1,777.06	$10,289.39	$12,066.45

Vehicle

S21

Service Entry	Start Date	Completion Date	Primary Meter	Service Tasks	Resolved Issue Summary	Total Labor	Total Parts	Total Cost
20701184	10/30/2023 12:30 PM	10/30/2023 2:30 PM	80,285 mi	Hydraulic hose replacement		$62.46	$1,560.23	$1,622.69
20583437	10/26/2023 12:30 PM	10/27/2023 10:30 AM	80,252 mi	Electrical diagnostics	Windows inop	$46.14	$0.00	$46.14
19800045	09/11/2023 10:49 AM	09/19/2023 8:30 AM	79,292 mi	Preventative Maintenance • Electrical System (Miscellaneous) • Brake Shoes Replacement • Collection Arm Repair • Tire/Wheel (Miscellaneous)		$804.18	$3,650.17	$4,454.35
19616422	09/06/2023	09/06/2023	79,222 mi	Hydraulic hose replacement		$62.46	$90.19	$152.65
19134571	08/14/2023 7:52 AM	08/14/2023 7:52 AM	78,439 mi	Headlamp Bulb Replacement		$11.54	$9.99	$21.53
19156129	08/09/2023	08/09/2023	78,379 mi	Electrical System (Miscellaneous) • Hydraulic Oil Add		$39.04	$156.68	$195.72
18826716	07/27/2023	07/27/2023	78,059 mi	Electrical System (Miscellaneous) • Tire Replacement		$39.04	$1,531.63	$1,570.67

Service Entry	Start Date	Completion Date	Primary Meter	Service Tasks	Resolved Issue Summary	Total Labor	Total Parts	Total Cost
17674433	05/16/2023 7:30 AM	05/16/2023 8:30 AM	75,551 mi	Collection Arm Repair		$38.80	$190.48	$229.28
17366701	04/26/2023	04/26/2023	74,947 mi	TAIL LIGHT BRACKET		$50.28	$48.13	$98.41
17225705	04/17/2023 7:30 AM	04/17/2023 9:00 AM	74,712 mi	Collection Arm Repair		$45.60	$31.43	$77.03
17705961	04/13/2023	04/13/2023	74,605 mi	Towing/Roadside Assistance		$50.28	$510.54	$560.82
17043764	04/03/2023 2:30 PM	04/04/2023 11:00 AM	74,266 mi	Diagnostics (Unspecified)		$155.20	$98.24	$253.44
16611422	03/16/2023 8:30 AM	03/16/2023 11:55 AM	73,827 mi	Turbo Actuator Replacement	Check engine light - Turbo	$91.20	$1,578.44	$1,669.64
16094177	02/09/2023	02/09/2023	73,797 mi	Headlamp Alignment Inspect		$16.76	$9.54	$26.30
15655264	01/05/2023 8:00 AM	01/05/2023 8:00 AM	72,791 mi	Window Regulator/Motor Replacement		$172.88	$721.32	$894.20
15501062	12/23/2022 1:00 PM	12/23/2022 3:18 PM	72,509 mi	Towing/Roadside Assistance		$91.20	$102.38	$193.58
					Total Amount	$1,777.06	$10,289.39	$12,066.45

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE: s21
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: s21

UNIT: S21 LF MTR: 70805.0 CUR MTR: 70805.0 YR: 16 MAKE: PETERBILT DEPT: PW SIZE: H CLASS: SIDE PAC FUEL: D

VMRS CODE	DATE	WO NUM	LF-MILS ODOM		WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
01 TITLE > A/C, HEAT, VENTILATI														
01-000-000	09102019	2035236	43530	43528	A/C, HEAT, VENTILA		115.46	180.55	296.01	5.00	04	01	8	XX
01-001-000	10152021	2036528	60860	60855	REFRIGERANT, ADD		147.91	134.75	282.66	5.00	07	01	8	XX
01 TOTAL >A/C, HEAT, VENTILATI							263.37	315.30	578.67					
02 TITLE > CAB/SHEET METALS														
02-000-000	10312017	2032951	24870	24873	CAB/SHEET METALS		39.31	271.60	310.91	8.00	04	01	4	XX
02-054-000	01292018	2033255	27110	27112	MIRROR		101.13	67.90	169.03	2.00	04	01	4	XX
02-054-000	05042017	2032216	17290	17290	MIRROR		100.00	74.86	174.86	2.00	03	01	12	XX
02-062-000	08052019	2035045	41580	41576	WINDSHIELD		271.93	39.81	311.74	1.00	03	01	8	XX
02 TOTAL >CAB/SHEET METALS							512.37	454.17	966.54					
13 TITLE > BRAKES														
13-003-000	07232021	2036599	60100	60103	REAR BRAKE PADS &		1799.01	565.95	2364.96	21.00	07	01	8	XX
13-004-000	07232021	2036599	60100	60103	REAR BRAKE SHOES		0.00	0.00	0.00	0.00	07	01	8	XX
13-019-000	03072020	2035537	45550	45545	AIR BRAKE ANTIFREE		5.70	36.11	41.81	1.00	04	01	8	XX
13 TOTAL >BRAKES							1804.71	602.06	2406.77					
17 TITLE > TIRES,TUBES,LINERS														
17-000-000	03072020	2035602	45550	45545	TIRES,TUBES,LINERS		754.12	61.34	815.46	2.00	07	01	8	XX
17-000-000	11202018	2034252	36750	36754	TIRES,TUBES,LINERS		1242.76	70.64	1313.40	2.00	04	01	8	XX
17-000-000	03232018	2033267	27110	27112	TIRES,TUBES,LINERS		1239.70	71.38	1311.08	2.00	03	01	4	XX
17-000-000	03142017	2032137	17290	17290	TIRES,TUBES,LINERS		1174.44	67.90	1242.34	2.00	04	01	4	XX
17-000-000	03082017	2032025	17270	17267	TIRES,TUBES,LINERS		1320.44	63.28	1383.72	2.00	05	01	4	XX
17-000-000	02132017	2031965	16550	16553	TIRES,TUBES,LINERS		0.00	29.33	29.33	1.00	05	01	4	XX
17-000-000	02192016	2030634	5800	5795	TIRES,TUBES,LINERS		2972.83	54.50	3027.33	2.00	06	01	4	XX
17-000-000	01202016	2030473	5220	5215	TIRES,TUBES,LINERS		587.22	27.25	614.47	1.00	06	01	4	XX
17-003-000	08142018	2033951	33060	33062	TIRE CHANGE FRONT		0.00	38.94	38.94	1.00	03	01	8	XX
17-004-000	08032017	2032623	21800	21800	TIRE CHANGE REAR		643.86	37.43	681.29	1.00	03	01	4	XX
17-005-000	02222022	2036979	65110	65106	TIRE REPLACEMENT		1258.12	63.44	1321.56	2.00	05	01	8	XX
17-005-000	01082021	2036189	54780	54780	TIRE REPLACEMENT		1258.12	33.94	1292.06	1.00	02	01	8	XX
17-005-000	07082020	2035947	50350	50351	TIRE REPLACEMENT		377.06	36.11	413.17	1.00	04	01	8	XX
17 TOTAL >TI[illegible],TUBES,LINERS							12828.67	655.48	13484.15					

18 TITLE > WHEELS,RIMS,HUBS,BEA

18-001-000	11162017	2032972	25450	25451 HUB ADD OIL	7.36	33.95	41.31	1.00	04	01	4 XX
18-009-000	08202021	2036652	60670	60671 HUB OR GASKET REAR	4.54	53.90	58.44	2.00	07	01	8 XX

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: s21
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: s21

UNIT: S21 LF MTR: 70805.0 CUR MTR: 70805.0 YR: 16 MAKE: PETERBILT DEPT: PW SIZE: H CLASS: SIDE PAC FUEL: D

VMRS CODE	DATE	WO NUM	LF-MILS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
18 TOTAL >WHEELS,RIMS,HUBS,BEA							11.90	87.85	99.75					
32 TITLE > CRANKING SYSTEM														
32-002-000	11292021	2036807	63380	63384	BATTERY		292.39	0.00	292.39	0.00	09	01	8	XX
32 TOTAL >CRANKING SYSTEM							292.39	0.00	292.39					
34 TITLE > LIGHTING SYSTEM														
34-002-000	11162020	2036130	53500	53500	BACKUP LAMP		124.00	34.39	158.39	1.00	05	01	8	XX
34-004-000	10042022	2037372	69830	69828	WIRING / REPAIR		723.39	369.20	1092.59	10.00	04	01	8	XX
34-004-000	09292022	2037361	69750	69754	WIRING / REPAIR		15.52	23.80	39.32	1.00	09	01	8	XX
34-004-000	09092022	2037325	69260	69262	WIRING / REPAIR		0.00	36.92	36.92	1.00	04	01	8	XX
34-004-000	02042019	2034454	38240	38239	WIRING / REPAIR		67.02	192.24	259.26	6.00	06	01	8	XX
34-009-000	12172021	2036823	63590	63585	CLEARANCE LIGHT		0.00	0.00	0.00	0.00	07	01	8	XX
34-018-000	09022022	2037318	69080	69077	HEADLAMP SEALED		9.14	11.33	20.47	0.30	06	01	8	XX
34-018-000	08302021	2036654	60860	60855	HEADLAMP SEALED		9.12	23.80	32.92	1.00	09	01	8	XX
34-018-000	05052021	2036459	58280	58277	HEADLAMP SEALED		8.85	36.92	45.77	1.00	04	01	8	XX
34-018-000	11302020	2036278	53900	53902	HEADLAMP SEALED		17.63	26.95	44.58	1.00	07	01	8	XX
34-018-000	04012020	2035709	48810	48809	HEADLAMP SEALED		7.84	10.32	18.16	0.30	06	01	8	XX
34-018-000	03222019	2034559	40040	40039	HEADLAMP SEALED		8.23	32.04	40.27	1.00	06	01	8	XX
34-018-000	08142017	2032637	22120	22122	HEADLAMP SEALED		8.68	29.33	38.01	1.00	06	01	4	XX
34-036-000	08032018	2033934	33060	33062	TURN SIGNAL LAMP		21.67	35.32	56.99	1.00	04	01	8	XX
34 TOTAL >LIGHTING SYSTEM							1021.09	862.56	1883.65					
42 TITLE > COOLING SYSTEM														
42-001-000	07242018	2033918	29390	29386	COOLANT ADD		9.73	32.04	41.77	1.00	06	01	8	XX
42 TOTAL >COOLING SYSTEM							9.73	32.04	41.77					
43 TITLE > EXHAUST SYSTEM														
43-012-000	03152022	2037038	65590	65593	EGR COOLER		3186.22	566.40	3752.62	15.00	06	01	8	XX
43-013-000	03102022	2037021	65840	65844	EXHAUST GAS PRESSU		137.05	39.64	176.69	1.00	05	01	8	XX
43 TOTAL >EXHAUST SYSTEM							3323.27	606.04	3929.31					
44 TITLE > FUEL SYSTEM														
44-044-000	11052015	2030323	4280	4277	FUEL TANK		1200.00	54.50	1254.50	2.00	06	01	1	XX
44-099-000	01[illegible]019	2034381	36750	36754	FUEL LINES FROZEN		0.00	67.36	67.36	2.00	04	01	8	XX
44 TOTAL >FU[illegible]SYSTEM							1200.00	121.86	1321.86					

)45 TITLE > POWER PLANT/ENGINE

)45-010-000	04052022	2037093	65590	65593	HEAD GASKET, ENG	1828.16	0.00	1828.16	0.00	01	9 XX

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: s21
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: s21

UNIT: S21 LF MTR: 70805.0 CUR MTR: 70805.0 YR: 16 MAKE: PETERBILT DEPT: PW SIZE: H CLASS: SIDE PAC FUEL: D

VMRS CODE	DATE	WO NUM	LF-MILS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
45-045-000	04052022	2037093	65590	65593	SEAL ENG OIL FRONT		90.12	0.00	90.12	0.00		01	9	XX
45 TOTAL >POWER PLANT/ENGINE							1918.28	0.00	1918.28					
51 TITLE > GENERAL ACCESSORIES														
51-000-000	12172015	2030294	4280	4277	GENERAL ACCESSORIE		2.00	31.75	33.75	1.00	04	01	4	XX
51 TOTAL >GENERAL ACCESSORIES							2.00	31.75	33.75					
52 TITLE > ELECTRICAL ACCESSRES														
52-000-000	08232022	2037150	66300	66297	ELECTRICAL ACCESSR		360.66	161.70	522.36	6.00	07	01	8	XX
52-000-000	05042022	2037101	66030	66025	ELECTRICAL ACCESSR		15.37	0.00	15.37	0.00		01	9	XX
52-000-000	04042018	2033621	28950	28952	ELECTRICAL ACCESSR		0.00	33.95	33.95	1.00	04	01	8	XX
52 TOTAL >ELECTRICAL ACCESSRES							376.03	195.65	571.68					
53 TITLE > EXPENDABLE ITEMS														
53-000-000	06262018	2033713	31360	31360	EXPENDABLE ITEMS		155.58	33.95	189.53	1.00	04	01	8	XX
53-001-000	02092022	2036966	64950	64946	TIRE CHAINS		21.35	26.95	48.30	1.00	07	01	8	XX
53-003-000	02082022	2036936	64920	64923	CLAW REPLACEMENT P		30.75	36.92	67.67	1.00	04	01	8	XX
53 TOTAL >EXPENDABLE ITEMS							207.68	97.82	305.50					
65 TITLE > HYDRAULIC SYSTEMS														
65-000-000	09092022	2037324	69260	69262	HYDRAULIC SYSTEMS		0.00	37.76	37.76	1.00	06	01	8	XX
65-000-000	04152020	2035768	48810	48809	HYDRAULIC SYSTEMS		13.83	34.39	48.22	1.00	06	01	8	XX
65-000-000	03072020	2035572	45550	45545	HYDRAULIC SYSTEMS		34.58	36.11	70.69	1.00	04	01	8	XX
65-000-000	09062019	2035214	43380	43384	HYDRAULIC SYSTEMS		27.94	36.11	64.05	1.00	04	01	8	XX
65-000-000	03112019	2034446	39250	39249	HYDRAULIC SYSTEMS		27.94	35.32	63.26	1.00	04	01	8	XX
65-000-000	09172015	2029991	108000	108004	HYDRAULIC SYSTEMS		45.00	774.81	819.81	27.00	05	01	4	XX
65-004-000	09022022	2037296	69080	69077	HYDRAULIC CYLINDER		591.70	341.72	933.42	9.00	05	01	8	XX
65-006-000	06162022	2037177	66030	66025	HYD HOSE/FITTINGS		90.49	67.38	157.87	2.50	07	01	8	XX
65-006-000	11242020	2036167	53880	53883	HYD HOSE/FITTINGS		5217.96	433.32	5651.28	12.00	04	01	8	XX
65-006-000	08072018	2033800	31920	31921	HYD HOSE/FITTINGS		141.38	234.64	376.02	8.00	05	01	8	XX
65-066-000	08252020	2036012	52080	52080	HYDRAULIC SYSTEMS		93.10	72.22	165.32	2.00	04	01	8	XX
65 TOTAL >HYDRAULIC SYSTEMS							6283.92	2103.78	8387.70					
66 TITLE > PREVENTIVE MAINTENAN														
66-000-000	0[illegible]2019	2034481	39250	39249	PREVENTIVE MAINTEN		572.80	423.84	996.64	12.00	04	01	8	XX
66-000-000	0[illegible]2018	2034153	34730	34727	PREVENTIVE MAINTEN		198.58	423.84	622.42	12.00	04	01	8	XX

66-000-000	02[illegible]2018	2033394	27790	27786	PREVENTIVE MAINTEN	1043.41	509.25	1552.66	15.00	04		01	8 XX
66-001-000	09202022	2037342	69330	69330	PM-A	676.50	849.16	1525.66	23.00	04		01	8 XX

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: s21
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: s21

UNIT: S21 LF MTR: 70805.0 CUR MTR: 70805.0 YR: 16 MAKE: PETERBILT DEPT: PW SIZE: H CLASS: SIDE PAC FUEL: D

VMRS CODE	DATE	WO NUM	LF-MILS ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
66-001-000	06302021	2036700	59410	59408 PM-A		0.00	36.92	36.92	1.00	04	01	8	XX
66-001-000	07232021	2036599	60100	60103 PM-A		0.00	0.00	0.00	0.00	07	01	8	XX
66-001-000	10132021	2036395	60860	60855 PM-A		704.43	886.08	1590.51	24.00	04	01	8	XX
66-001-000	09022020	2036055	52220	52220 PM-A		279.27	336.88	616.14	12.50	07	01	8	XX
66-001-000	03312020	2035700	48800	48801 PM-A		1043.91	722.20	1766.11	20.00	04	01	8	XX
66-001-000	06292018	2033797	31910	31908 PM-A		134.72	234.64	369.36	8.00	05	01	8	XX
66-002-000	10112017	2032867	24200	24201 PM-B		173.24	543.20	716.44	16.00	04	XX	8	XX
66-002-000	06192017	2032475	21000	21000 PM-B		145.08	388.92	534.00	12.00	05	XX	8	XX
66-002-000	03072017	2031859	16000	15996 PM-B		339.64	243.88	583.52	8.00	06	XX	8	XX
66-002-000	09072016	2031415	11940	11941 PM-B		165.98	441.35	607.33	13.00	04	XX	8	XX
66-002-000	05272016	2031031	9070	9071 PM-B		150.45	231.84	382.29	7.00	04	01	8	XX
66-002-000	11022015	2030183	3050	3045 PM-B		180.59	398.08	578.67	16.00	06	01	8	XX
66-009-000	09202022	2037342	69330	69330 PM ANNUAL INSPECTI		16.52	36.92	53.44	1.00	04	01	8	XX
66-009-000	04012021	2036395	57400	57396 PM ANNUAL INSPECTI		0.00	571.20	571.20	24.00	09	01	8	XX
66 TOTAL >PREVENTIVE MAINTENAN						5825.12	7278.20	13103.32					
99 TITLE > ROAD CALL TRAVEL TIM													
99-001-000	10142022	2037373	70050	70045 ROAD SERVICE ROAD		56.47	226.96	283.43	6.00	05	01	8	XX
99-001-000	09272022	2037359	69740	69743 ROAD SERVICE ROAD		356.61	40.43	397.04	1.50	07	01	8	XX
99-001-000	07222022	2037227	66030	66025 ROAD SERVICE ROAD		0.00	13.48	13.48	0.50	07	01	8	XX
99-001-000	06172022	2037186	66030	66025 ROAD SERVICE ROAD		0.00	53.90	53.90	2.00	07	01	8	XX
99-001-000	02092022	2036921	64910	64905 ROAD SERVICE ROAD		0.00	37.76	37.76	1.00	06	01	8	XX
99-001-000	01272022	2036909	64630	64626 ROAD SERVICE ROAD		0.00	37.76	37.76	1.00	06	01	8	XX
99-001-000	12172021	2036823	63590	63585 ROAD SERVICE ROAD		173.34	768.08	941.42	28.50	07	01	8	XX
99-001-000	04192021	2036428	57900	57897 ROAD SERVICE ROAD		0.00	36.92	36.92	1.00	04	01	8	XX
99-001-000	01192021	2036241	55070	55074 ROAD SERVICE ROAD		63.64	73.84	137.48	2.00	04	01	8	XX
99-001-000	01192020	2036138	53820	53818 ROAD SERVICE ROAD		0.00	36.11	36.11	1.00	04	01	8	XX
99-001-000	09292020	2036082	52880	52882 ROAD SERVICE ROAD		0.00	36.11	36.11	1.00	04	01	8	XX
99-001-000	07202020	2035987	50670	50668 ROAD SERVICE ROAD		8.11	36.11	44.22	1.00	04	01	8	XX
99-001-000	03072020	2035594	45550	45545 ROAD SERVICE ROAD		0.00	36.11	36.11	1.00	04	01	90	XX
99-001-000	03072020	2035536	45550	45545 ROAD SERVICE ROAD		0.00	36.11	36.11	1.00	04	01	8	XX
99-001-000	11262019	2035448	45550	45545 ROAD SERVICE ROAD		314.53	39.81	354.34	1.00	03	01	8	XX
99-001-000	08262019	2035141	42820	42820 ROAD SERVICE ROAD		28.98	103.17	132.15	3.00	06	01	8	XX
99-001-000	08142019	2035069	41580	41576 ROAD SERVICE ROAD		138.23	40.43	178.65	1.50	07	01	8	XX
99-001-000	0[illegible]018	2033545	28960	28960 ROAD SERVICE ROAD		0.00	48.24	48.24	2.00	07	01	8	XX
99-001-000	0[illegible]018	2033297	26820	26822 ROAD SERVICE ROAD		138.23	29.33	167.56	1.00	05	01	11	XX

99-001-000 06[illegible]2017 2032369	19870	19872 ROAD SERVICE ROAD	10.59	58.66	69.25	2.00	05		01 10 XX
99-001-000 04062017 2032265	18260	18259 ROAD SERVICE ROAD	0.00	126.56	126.56	4.00	05		01 10 XX

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: s21
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: s21

UNIT: S21 LF MTR: 70805.0 CUR MTR: 70805.0 YR: 16 MAKE: PETERBILT DEPT: PW SIZE: H CLASS: SIDE PAC FUEL: D

VMRS CODE	DATE	WO NUM	LF-MILS ODOM		WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
099-001-000	04102017	2032220	18320	18315	ROAD SERVICE ROAD		0.00	765.59	765.59	25.00	04	01	10	XX
099-001-000	03152017	2032024	17270	17267	ROAD SERVICE ROAD		486.36	271.60	757.96	8.00	04	01	10	XX
099-001-000	08182016	2031302	11330	11330	ROAD SERVICE ROAD		58.45	117.32	175.77	4.00	05	01	10	XX
099-001-000	07082016	2031266	10310	10310	ROAD SERVICE ROAD		10.00	58.66	68.66	2.00	06	01	10	XX
099-001-000	06202016	2031077	9550	9550	ROAD SERVICE ROAD		0.00	28.61	28.61	1.00	05	01	10	XX
099-001-000	10152015	2030152	2350	2350	ROAD SERVICE ROAD		10.00	734.80	744.80	25.00	07	01	10	XX
099-001-000	08312015	2029980	108000	108004	ROAD SERVICE ROAD		0.00	24.88	24.88	1.00	05	01	10	XX
099-004-000	02132018	2033327	27610	27607	SWING DRIVE CASE		52.43	135.80	188.23	4.00	04	01	10	XX
099-007-000	12072021	2036830	63570	63573	ONSPOTS ONSPOT INS		0.00	406.12	406.12	11.00	04	01	8	XX
099-008-000	11012019	2035402	45140	45136	GENERAL CHECK		0.00	40.43	40.43	1.50	07	01	8	XX
099-009-000	06212021	2036534	59110	59108	DIAGNOSIS		0.00	137.56	137.56	4.00	06	01	8	XX
099-009-000	02292020	2035472	45550	45545	DIAGNOSIS		0.00	137.56	137.56	4.00	06	01	8	XX
099-009-000	11062019	2035385	45140	45136	DIAGNOSIS		148.40	275.12	423.52	8.00	06	01	8	XX
099-009-000	08162019	2035107	42820	42820	DIAGNOSIS		61.30	550.24	611.54	16.00	06	01	8	XX
099-009-000	05312019	2034808	41580	41576	DIAGNOSIS		0.00	33.64	33.64	1.00	05	01	8	XX
099-009-000	04252019	2034700	41300	41298	DIAGNOSIS		0.00	35.32	35.32	1.00	04	01	8	XX
099-009-000	03222019	2034563	40070	40066	DIAGNOSIS		0.00	35.32	35.32	1.00	04	01	8	XX
099-009-000	01112018	2033276	26650	26650	DIAGNOSIS		8.32	29.33	37.65	1.00	06	01	11	XX
099-009-000	05082017	2032393	19060	19063	DIAGNOSIS		241.97	441.35	683.32	13.00	04	01	4	XX
099-009-000	07272016	2031234	10620	10624	DIAGNOSIS		142.01	175.98	317.99	6.00	05	01	4	XX
099-010-000	12172021	2036823	63590	63585	FABRICATION,'WELDIN		0.00	0.00	0.00	0.00	07	01	8	XX
099-010-000	12092021	2036809	63380	63384	FABRICATION,'WELDIN		3500.57	983.68	4484.24	36.50	07	01	8	XX
099-041-000	11042022	2037411	70810	70805	REPAIRS		141.10	23.80	164.90	1.00	09	01	8	XX
099-041-000	08092022	2037273	66030	66025	REPAIRS		175.57	592.90	768.47	22.00	07	01	8	XX
099-041-000	08032021	2036596	60100	60103	REPAIRS		264.27	40.43	304.69	1.50	07	01	8	XX
099-041-000	07262021	2036561	59880	59876	REPAIRS		309.49	110.76	420.25	3.00	05	01	8	XX
099-041-000	07262021	2036497	59880	59876	REPAIRS		4.49	68.78	73.27	2.00	06	01	8	XX
099-041-000	01132021	2036173	53990	53991	REPAIRS		535.91	161.70	697.61	6.00	07	01	8	XX
099-041-000	12142020	2036168	53990	53991	REPAIRS		184.21	36.11	220.32	1.00	04	01	8	XX
099-041-000	12142020	2036145	53990	53991	REPAIRS		261.06	161.70	422.76	6.00	07	01	8	XX
099-041-000	10062020	2036074	52910	52913	REPAIRS		271.82	686.09	957.91	19.00	04	01	8	XX
099-041-000	06262020	2035940	50150	50150	REPAIRS		585.36	3430.45	4015.81	95.00	04	01	8	XX
099-041-000	03272020	2035666	47500	47504	REPAIRS		1438.04	68.78	1506.82	2.00	05	01	8	XX
099-041-000	02292020	2035507	45550	45545	REPAIRS		246.02	216.66	462.68	6.00	04	01	8	XX
099-041-000	1[illegible]2019	2035367	44990	44987	REPAIRS		45.32	180.55	225.87	5.00	04	01	8	XX
099-041-000	1[illegible]2019	2035245	44470	44470	REPAIRS		295.73	687.80	983.53	20.00	06	01	8	XX

99-041-000	06032019	2034800	41300	41298 REPAIRS	3992.06	0.00	3992.06	0.00		01	8	XX
99-041-000	04012019	2034571	40290	40285 REPAIRS	16.57	0.00	16.57	0.50	10	01	8	XX

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: s21
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UNIT: S21 LF MTR: 70805.0 CUR MTR: 70805.0 YR: 16 MAKE: PETERBILT DEPT: PW SIZE: H CLASS: SIDE PAC FUEL: D

VMRS CODE	DATE	WO NUM	LF-MILS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
99-041-000	05012018	2033650	29790	29791	REPAIRS		0.00	33.95	33.95	1.00	04	01	8	XX
99-041-000	03262018	2033580	28630	28627	REPAIRS		15.25	67.90	83.15	2.00	04	01	8	XX
99-041-000	03272018	2033548	28680	28682	REPAIRS		0.00	58.66	58.66	2.00	05	01	8	XX
99-041-000	11282017	2033075	26170	26166	REPAIRS		29.28	63.28	92.56	2.00	05	01	4	XX
99-041-000	07252017	2032611	21570	21573	REPAIRS		794.39	611.10	1405.49	18.00	04	01	4	XX
99-041-000	05262017	2032440	19580	19578	REPAIRS		186.15	63.28	249.43	2.00	05	01	4	XX
99-041-000	05052017	2032365	19060	19063	REPAIRS		138.52	293.30	431.82	10.00	05	01	4	XX
99-041-000	05122017	2032284	21440	21440	REPAIRS		30.51	29.33	59.84	1.00	06	01	4	XX
99-041-000	12132016	2031657	13840	13844	REPAIRS		663.65	364.21	1027.86	11.00	05	01	4	XX
99-041-000	08282018	2031276	33060	33062	REPAIRS		1443.16	101.85	1545.01	3.00	04	01	4	XX
99-041-000	07152016	2031186	10580	10575	REPAIRS		40.00	87.99	127.99	3.00	06	01	4	XX
99-041-000	06302016	2031140	10090	10093	REPAIRS		0.00	33.12	33.12	1.00	04	01	4	XX
99-041-000	04252016	2030911	7880	7878	REPAIRS		9.49	198.72	208.21	6.00	04	01	4	XX
99-041-000	02162016	2030647	5600	5597	REPAIRS		0.00	66.24	66.24	2.00	04	01	4	XX
99-041-000	01192016	2030435	4280	4277	REPAIRS		43.02	0.00	43.02	0.00		01	12	XX
99-041-000	12162015	2030297	4220	4224	REPAIRS		0.00	31.75	31.75	1.00	04	01	4	XX
99-041-000	10052015	2030078	2290	2291	REPAIRS		16.63	176.76	193.39	6.00	05	01	10	XX
99-054-000	09232015	2030016	1440	1441	VEHICLE PUT IN SER		32.95	398.08	431.03	16.00	05	01	12	XX
99 TOTAL >ROAD CALL TRAVEL TIM							18218.56	16480.82	34699.38					

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VMRS Code	METER : STANDARD QUANTITY	SUBTOTALS OF VMRS CODES FOR DIVISION > AL LABOR HRS	LABOR COST	PARTS COST	PERIOD : LIFE TOTAL COST	PERCENT	TOT COST /METER
001 A/C, HEAT, VENTILATION	2	10.00	315.30	263.37	578.67	0.69 %	0.00817
002 CAB/SHEET METALS	4	13.00	454.17	512.37	966.54	1.15 %	0.01365
013 BRAKES	3	22.00	602.06	1804.71	2406.77	2.86 %	0.03399
017 TIRES,TUBES,LINERS	13	20.00	655.48	12828.67	13484.15	16.05 %	0.19044
018 WHEELS,RIMS,HUBS,BEARI	2	3.00	87.85	11.90	99.75	0.12 %	0.00141
032 CRANKING SYSTEM	1	0.00	0.00	292.39	292.39	0.35 %	0.00413
034 LIGHTING SYSTEM	14	25.60	862.56	1021.09	1883.65	2.24 %	0.02660
042 COOLING SYSTEM	1	1.00	32.04	9.73	41.77	0.05 %	0.00059
043 EXHAUST SYSTEM	2	16.00	606.04	3323.27	3929.31	4.68 %	0.05549
044 FUEL SYSTEM	2	4.00	121.86	1200.00	1321.86	1.57 %	0.01867
045 POWER PLANT/ENGINE	2	0.00	0.00	1918.28	1918.28	2.28 %	0.02709
051 GENERAL ACCESSORIES	1	1.00	31.75	2.00	33.75	0.04 %	0.00048
052 ELECTRICAL ACCESSRES	3	7.00	195.65	376.03	571.68	0.68 %	0.00807
053 EXPENDABLE ITEMS	3	3.00	97.82	207.68	305.50	0.36 %	0.00431
065 HYDRAULIC SYSTEMS	11	65.50	2103.78	6283.92	8387.70	9.98 %	0.11846
066 PREVENTIVE MAINTENANCE	18	224.50	7278.20	5825.12	13103.32	15.59 %	0.18506
099 ROAD CALL TRAVEL TIME	77	514.00	16480.82	18218.56	34699.38	41.30 %	0.49007
TOTALS:	159	929.60	29925.38	54099.09 TOT:	84024.47	100.00 %	1.18670

Service History by Vehicle

4 records

Town of Waterford - Public Works

Report generated on 11/16/2023 11:22 AM by Garon VanOverloop

Filters

Status: completed **Vehicle:** H36

Labor Cost	Parts Cost	Total Cost
$679.40	$3,284.61	$3,964.01

Vehicle

H36

Service Entry	Start Date	Completion Date	Primary Meter	Service Tasks	Resolved Issue Summary	Total Labor	Total Parts	Total Cost
21248796	11/08/2023 9:30 AM	11/09/2023 11:30 AM	56,853 mi	Preventative Maintenance • Winter Equipment Inspection • Drive Belt Tensioner Replacement		$92.28	$800.05	$892.33
16753541	03/14/2023	03/14/2023	54,973 mi	brake chamber • Slack adjuster replacement, rear		$202.10	$567.34	$769.44
15500098	12/23/2022 1:00 PM	12/23/2022 1:30 PM	53,573 mi	Plow blade flip		$42.78	$363.66	$406.44
15258329	11/28/2022	11/30/2022 12:39 PM	53,023 mi	Re-inspection • Rear Suspension- Spring Replacement • Undercoating		$342.24	$1,553.56	$1,895.80
					Total Amount	$679.40	$3,284.61	$3,964.01

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: h36
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: h36

UNIT: H36 LF MTR: 52814.0 CUR MTR: 52814.0 YR: 14 MAKE: INTERNATIONAL DEPT: PW SIZE: H CLASS: 5-TON DU FUEL: D

VMRS CODE	DATE	WO NUM	LF-MILS ODOM		WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
01 TITLE > A/C, HEAT, VENTILATI														
01-002-000	06072019	2034871	31700	31699	COMPRESSOR, A/C		311.79	256.32	568.11	8.00	06	01	8	XX
01 TOTAL >A/C, HEAT, VENTILATI							311.79	256.32	568.11					
02 TITLE > CAB/SHEET METALS														
02-056-000	01162018	2033278	23890	23887	MIRROR ARM OR BRAC		33.07	37.43	70.50	1.00	03	01	4	XX
02-056-000	02112015	2028742	33670	5393	MIRROR ARM OR BRAC		26.75	24.88	51.63	1.00	05	01	4	XX
02 TOTAL >CAB/SHEET METALS							59.82	62.31	122.13					
13 TITLE > BRAKES														
13-035-000	11122019	2035440	33540	33541	CHAMBER REAR		2340.58	433.32	2773.90	12.00	04	01	8	XX
13-035-000	11302017	2033029	21410	21414	CHAMBER REAR		95.81	237.65	333.46	7.00	04	01	4	XX
13 TOTAL >BRAKES							2436.39	670.97	3107.36					
16 TITLE > SUSPENSION														
16-005-000	10242017	2032912	20480	20484	SPRING REAR		1268.52	703.92	1972.44	24.00	06	01	4	XX
16 TOTAL >SUSPENSION							1268.52	703.92	1972.44					
17 TITLE > TIRES,TUBES,LINERS														
17-005-000	03092022	2037004	51130	51131	TIRE REPLACEMENT		294.74	37.76	332.50	1.00	06	01	8	XX
17 TOTAL >TIRES,TUBES,LINERS							294.74	37.76	332.50					
18 TITLE > WHEELS,RIMS,HUBS,BEA														
18-001-000	02162015	2029080	6300	6295	HUB ADD OIL		3.68	12.44	16.12	0.50	05	01	4	XX
18-007-000	02162015	2029080	6300	6295	DUST CAP, HUB		15.52	12.44	27.96	0.50	05	01	4	XX
18 TOTAL >WHEELS,RIMS,HUBS,BEA							19.20	24.88	44.08					
32 TITLE > CRANKING SYSTEM														
32-002-000	05282019	2034788	31580	31582	BATTERY		0.00	70.64	70.64	2.00	04	01	8	XX
32-010-000	12012021	2036801	48260	48255	STARTER		0.00	0.00	0.00	0.00	06	01	8	XX
32 TOTAL >CRANKING SYSTEM							0.00	70.64	70.64					
34 TITLE > LIGHTING SYSTEM														
34-000-000	03082018	2033748	26180	26179	LIGHTING SYSTEM		19.78	24.12	43.90	1.00	07	01	8	XX

34-000-000	08122015	2029894	8280	8276	LIGHTING SYSTEM	20.00	49.76	69.76	2.00	06	01	4	XX
34-003-000	01292021	2036224	40580	40582	Backup Alarm	28.85	67.88	96.73	2.00	02	01	8	XX
34-004-000	10272015	2030125	9380	9379	WIRING / REPAIR	40.00	74.64	114.64	3.00	06	01	4	XX

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UNIT: H36 LF MTR: 52814.0 CUR MTR: 52814.0 YR: 14 MAKE: INTERNATIONAL DEPT: PW SIZE: H CLASS: 5-TON DU FUEL: D

VMRS CODE	DATE	WO NUM	LF-MILS ODOM		WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
34-006-000	11152018	2034249	27350	27346	BULB, REPLACE EXTE		8.73	38.94	47.67	1.00	03	01	8	XX
34-006-000	12292015	2030369	9830	9830	BULB, REPLACE EXTE		8.78	56.03	64.80	2.50	07	01	4	XX
34-017-000	02272015	2029179	6300	6295	HEADLIGHT ASSEMBLY		13.50	20.47	33.97	1.00	07	01	4	XX
34 TOTAL >LIGHTING SYSTEM							139.64	331.84	471.48					
43 TITLE > EXHAUST SYSTEM														
43-012-000	11042022	2037403	52810	52814	EGR COOLER		0.00	215.60	215.60	8.00	07	01	8	XX
43-012-000	08312022	2037309	52610	52611	EGR COOLER		6166.56	916.30	7082.86	34.00	07	01	8	XX
43 TOTAL >EXHAUST SYSTEM							6166.56	1131.90	7298.46					
45 TITLE > POWER PLANT/ENGINE														
45-041-000	12082021	2036801	48260	48255	OIL PAN, ENG		693.43	453.12	1146.55	12.00	06	01	8	XX
45-053-000	01272017	2031756	17120	17120	ENGINE RBLD IN CHA		0.00	0.00	0.00	0.00		01	9	XX
45 TOTAL >POWER PLANT/ENGINE							693.43	453.12	1146.55					
51 TITLE > GENERAL ACCESSORIES														
51-015-000	10192017	2032842	19210	19206	WASHER ASSY, W/S I		10.16	37.43	47.59	1.00	03	01	12	XX
51-025-000	02112015	2028842	5390	5393	MUD FLAP		10.53	24.88	35.41	1.00	05	01	4	XX
51-038-000	12092016	2031673	16660	16657	WIPER BLADE		5.99	37.43	43.42	1.00	03	01	4	XX
51 TOTAL >GENERAL ACCESSORIES							26.68	99.74	126.42					
54 TITLE > HORN AND MOUNTING														
54-001-000	05242022	2037148	51130	51131	HORN ASSEMBLY		52.24	80.85	133.09	3.00	07	01	8	XX
54 TOTAL >HORN AND MOUNTING							52.24	80.85	133.09					
56 TITLE > POWER TAKE OFF														
56-000-000	02102021	2036321	41300	41297	POWER TAKE OFF		39.78	68.78	108.56	2.00	06	01	8	XX
56-000-000	07272020	2035985	36640	36636	POWER TAKE OFF		4537.29	722.20	5259.49	20.00	04	01	8	XX
56 TOTAL >POWER TAKE OFF							4577.07	790.98	5368.05					
65 TITLE > HYDRAULIC SYSTEMS														
65-000-000	01182020	2035965	34990	34989	HYDRAULIC SYSTEMS		57.53	70.50	128.03	2.00	06	01	8	XX
65-000-000	04032018	2033622	25980	25983	HYDRAULIC SYSTEMS		755.34	142.76	898.10	4.00	03	01	8	XX
65-006-000	02182021	2036300	41460	41460	HYD HOSE/FITTINGS		78.10	36.92	115.02	1.00	04	01	8	XX
65-006-000	07242019	2035002	32480	32480	HYD HOSE/FITTINGS		119.91	275.12	395.03	8.00	06	01	8	XX
65-006-000	09172018	2034148	27350	27346	HYD HOSE/FITTINGS		270.64	512.64	783.28	16.00	06	01	8	XX

65-006-000	01042018	2033202	21950	21951	HYD HOSE/FITTINGS	26.25	29.33	55.58	1.00	05	01	4 XX
65-006-000	07172017	2032573	19090	19089	HYD HOSE/FITTINGS	51.36	175.98	227.34	6.00	06	01	4 XX

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UNIT: H36 LF MTR: 52814.0 CUR MTR: 52814.0 YR: 14 MAKE: INTERNATIONAL DEPT: PW SIZE: H CLASS: 5-TON DU FUEL: D

VMRS CODE	DATE	WO NUM	LF-MILS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
065-006-000	06302016	2031154	14770	14766	HYD HOSE/FITTINGS		14.30	171.66	185.96	6.00	06	01	4	XX
065 TOTAL >HYDRAULIC SYSTEMS							1373.43	1414.91	2788.34					
066 TITLE > PREVENTIVE MAINTENAN														
066-000-000	03252015	2029338	7480	7480	PREVENTIVE MAINTEN		201.27	149.28	350.55	6.00	05	01	4	XX
066-001-000	05242022	2037148	51130	51131	PM-A		153.37	161.70	315.07	6.00	07	01	8	XX
066-001-000	09212021	2036667	46990	46987	PM-A		299.51	282.98	582.48	10.50	07	01	8	XX
066-001-000	05282021	2036369	42250	42250	PM-A		307.46	215.60	523.06	8.00	07	01	8	XX
066-001-000	04232020	2035801	36410	36409	PM-A		173.45	469.43	642.88	13.00	04	01	8	XX
066-001-000	07092019	2034967	32250	32250	PM-A		114.88	269.12	384.00	8.00	05	01	8	XX
066-001-000	02012019	2034415	29600	29595	PM-A		114.83	256.32	371.15	8.00	05	01	8	XX
066-001-000	02092017	2033336	23890	23887	PM-A		128.38	234.64	363.02	8.00	05	01	8	XX
066-001-000	11022016	2031606	16500	16502	PM-A		1168.31	703.92	1872.23	24.00	05	01	8	XX
066-002-000	04152020	2035761	35260	35255	PM-B		206.78	825.36	1032.14	24.00	06	01	8	XX
066-002-000	09222017	2032848	19760	19755	PM-B		88.90	271.60	360.50	8.00	04	XX	8	XX
066-002-000	08042017	2032641	19210	19206	PM-B		107.31	373.45	480.76	11.00	04	XX	8	XX
066-002-000	01292016	2030497	10740	10741	PM-B		136.42	136.25	272.67	5.00	05	XX	8	XX
066-002-000	01162015	2028955	3600	3600	PM-B		112.27	49.76	162.03	2.00	05	XX	8	XX
066-009-000	04122019	2034637	31580	31575	PM ANNUAL INSPECTI		0.00	141.28	141.28	4.00	04	01	8	XX
066 TOTAL >PREVENTIVE MAINTENAN							3313.14	4540.69	7853.83					
099 TITLE > ROAD CALL TRAVEL TIM														
099-000-000	03192019	2034590	29600	29595	ROAD CALL TRAVEL T		0.00	6.59	6.59	0.25	07	01	8	XX
099-000-000	04112018	2033627	26020	26017	ROAD CALL TRAVEL T		414.18	74.86	489.04	2.00	03	01	8	XX
099-001-000	12152017	2033136	21950	21951	ROAD SERVICE ROAD		192.04	131.02	323.06	5.00	07	01	10	XX
099-001-000	04212015	2029418	7700	7700	ROAD SERVICE ROAD		173.08	99.52	272.60	4.00	05	01	1	XX
099-002-000	01282022	2036939	49300	49302	PLOWS (BLADES/SHOE		686.99	23.80	710.79	1.00	09	01	8	XX
099-002-000	12222020	2036187	40260	40256	PLOWS (BLADES/SHOE		367.37	36.92	404.29	1.00	04	01	8	XX
099-002-000	02292020	2035495	33540	33541	PLOWS (BLADES/SHOE		674.81	104.89	779.70	3.00	04	01	8	XX
099-002-000	01252019	2034399	29440	29440	PLOWS (BLADES/SHOE		642.77	134.72	777.49	4.00	04	01	8	XX
099-002-000	01312018	2033223	23890	23887	PLOWS (BLADES/SHOE		562.93	29.33	592.26	1.00	05	01	4	XX
099-002-000	01042018	2033221	22390	22391	PLOWS (BLADES/SHOE		463.44	90.88	554.32	3.00	06	01	4	XX
099-002-000	11202017	2032991	21150	21146	PLOWS (BLADES/SHOE		119.14	29.33	148.47	1.00	06	01	4	XX
099-002-000	03152017	2032138	18530	18531	PLOWS (BLADES/SHOE		490.82	61.55	552.37	2.00	07	01	4	XX
099-002-000	03152017	2032107	18050	18051	PLOWS (BLADES/SHOE		606.77	36.18	642.95	1.50	07	01	4	XX
099-002-000	03092017	2031967	18050	18051	PLOWS (BLADES/SHOE		91.18	29.33	120.51	1.00	05	01	4	XX

99-002-000	11222016	2031597	16660	16657	PLOWS (BLADES/SHOE	391.18	58.66	449.84	2.00	05	01	4	XX
99-002-000	12302015	2030375	10030	10033	PLOWS (BLADES/SHOE	769.41	81.75	851.16	3.00	05	01	4	XX

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: h36
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UNIT: H36 LF MTR: 52814.0 CUR MTR: 52814.0 YR: 14 MAKE: INTERNATIONAL DEPT: PW SIZE: H CLASS: 5-TON DU FUEL: D

VMRS CODE	DATE	WO NUM	LF-MILS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
099-002-000	03102015	2029271	7250	7246	PLOWS (BLADES/SHOE		427.96	83.21	511.17	2.00	07	01	4	XX
099-002-000	02252015	2029207	6300	6295	PLOWS (BLADES/SHOE		120.97	20.47	141.44	1.00	07	01	4	XX
099-002-000	02172015	2029043	58140	58140	PLOWS (BLADES/SHOE		363.98	39.16	403.14	1.00	07	01	4	XX
099-002-000	02152015	2029025	55590	55586	PLOWS (BLADES/SHOE		127.96	47.62	175.58	1.00	07	01	4	XX
099-002-000	02152015	2029018	5590	5586	PLOWS (BLADES/SHOE		131.98	20.47	152.45	1.00	07	01	4	XX
099-002-000	02142015	2029000	5390	5393	PLOWS (BLADES/SHOE		140.00	20.47	160.47	1.00	07	01	4	XX
099-002-000	01162015	2028955	3600	3600	PLOWS (BLADES/SHOE		0.00	81.51	81.51	3.00	04	01	8	XX
099-002-000	02072015	2028919	5390	5393	PLOWS (BLADES/SHOE		426.89	55.48	482.37	2.00	07	01	4	XX
099-002-000	01272015	2028801	1940	41000	PLOWS (BLADES/SHOE		116.00	168.15	284.15	4.00	05	01	4	XX
099-002-000	01272015	2028756	830	39885	PLOWS (BLADES/SHOE		100.00	12.44	112.44	0.50	05	01	4	XX
099-002-000	01242015	2028747	35200	3862	PLOWS (BLADES/SHOE		0.00	78.32	78.32	2.00	07	01	4	XX
099-002-000	03032014	2028173	0	0	PLOWS (BLADES/SHOE		400.00	99.54	499.54	4.00	0000000005			
099-002-000	02032014	2028102	0	0	PLOWS (BLADES/SHOE		119.96	20.47	140.43	1.00	0000000007			
099-003-000	10312022	2037402	52810	52814	SPREADERS		128.65	80.85	209.50	3.00	07	01	8	XX
099-003-000	09212021	2036667	46990	46987	SPREADERS		0.00	0.00	0.00	0.00	07	01	8	XX
099-003-000	12172020	2036215	40060	40056	SPREADERS		699.06	147.68	846.74	4.00	04	01	8	XX
099-003-000	10152019	2035338	33080	33084	SPREADERS		17.30	216.66	233.96	6.00	04	01	8	XX
099-003-000	01162015	2028955	3600	3600	SPREADERS		0.00	99.52	99.52	4.00	05	01	8	XX
099-007-000	03032014	2028172	820	825	ONSPOTS ONSPOT INS		7.19	199.07	206.26	8.00	0000000005			
099-007-000	02132014	2028123	39000	39000	ONSPOTS ONSPOT INS		6.41	24.88	31.29	1.00	0000000005			
099-007-000	02132014	2028116	39000	39000	ONSPOTS ONSPOT INS		365.48	49.77	415.25	2.00	0000000005			
099-007-000	02182014	2028109	39880	39885	ONSPOTS ONSPOT INS		404.95	127.04	531.99	4.00	0000000004			
099-009-000	04212020	2035888	36410	36409	DIAGNOSIS		0.00	137.56	137.56	4.00	06	01	8	XX
099-009-000	12282017	2033160	22390	22391	DIAGNOSIS		71.22	117.32	188.54	4.00	05	01	4	XX
099-009-000	12142017	2033095	21950	21951	DIAGNOSIS		2.50	216.94	219.44	5.00	06	01	4	XX
099-009-000	12112017	2033069	21950	21951	DIAGNOSIS		0.00	146.65	146.65	5.00	05	01	4	XX
099-009-000	06232017	2032505	19030	19027	DIAGNOSIS		207.58	187.15	394.73	5.00	03	01	4	XX
099-009-000	02082017	2031959	17430	17431	DIAGNOSIS		45.59	117.32	162.91	4.00	05	01	4	XX
099-010-000	12042017	2033025	20480	20484	FABRICATION/WELDIN		79.99	29.33	109.32	1.00	05	01	4	XX
099-018-000	01132021	2036103	38210	38208	TRANSPORT VEHICLES		338.73	516.88	855.61	14.00	04	01	8	XX
099-018-000	09032015	2029988	8420	8415	TRANSPORT VEHICLES		0.00	24.88	24.88	1.00	05	01	4	XX
099-018-000	08282015	2029987	8420	8415	TRANSPORT VEHICLES		0.00	24.88	24.88	1.00	05	01	4	XX
099-041-000	06132019	2034928	31770	31773	REPAIRS		37.94	64.08	102.02	2.00	06	01	8	XX
099-041-000	01222019	2034382	29440	29437	REPAIRS		0.00	128.16	128.16	4.00	05	01	8	XX
099-041-000	05212018	2033668	26180	26179	REPAIRS		51.49	58.66	110.15	2.00	05	01	8	XX
099-041-000	03152016	2033564	23890	23887	REPAIRS		62.91	24.12	87.03	1.00	07	01	8	XX

99-041-000	12172017	2033153	22270	22274	REPAIRS	213.99	498.61	712.60	17.00	05	01	4	XX
99-041-000	09292017	2032905	19760	19755	REPAIRS	0.00	60.30	60.30	2.50	07	01	4	XX

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VMRS CODE	DATE	WO NUM	LF-MILS ODOM		WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
099-041-000	09282017	2032844	19760	19755	REPAIRS		55.39	285.89	341.28	9.00	07	01	4	XX
099-041-000	09192017	2032821	19210	19206	REPAIRS		0.00	36.18	36.18	1.50	07	01	4	XX
099-041-000	03172017	2032154	18530	18531	REPAIRS		93.73	29.33	123.06	1.00	05	01	4	XX
099-041-000	12162015	2030304	9830	9830	REPAIRS		162.95	796.16	959.11	32.00	06	01	4	XX
099-121-000	06072019	2034908	31700	31699	PARTS RUN		0.00	26.36	26.36	1.00	07	01	8	XX
099 TOTAL >ROAD CALL TRAVEL TIM							12174.86	6248.87	18423.73					
103 TITLE > ELECTRICAL, BLDG														
103-005-000	01152019	2034347	27350	27346	LIGHT BULB REPLACE		8.76	0.00	8.76	1.00	10	01	8	XX
103 TOTAL >ELECTRICAL, BLDG							8.76	0.00	8.76					

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METER : STANDARD SUBTOTALS OF VMRS CODES FOR DIVISION > AL PERIOD : LIFE

VMRS Code	QUANTITY	LABOR HRS	LABOR COST	PARTS COST	TOTAL COST	PERCENT	TOT COST /METER
001 A/C, HEAT, VENTILATION	1	8.00	256.32	311.79	568.11	1.14 %	0.01076
002 CAB/SHEET METALS	2	2.00	62.31	59.82	122.13	0.25 %	0.00231
013 BRAKES	2	19.00	670.97	2436.39	3107.36	6.24 %	0.05884
016 SUSPENSION	1	24.00	703.92	1268.52	1972.44	3.96 %	0.03735
017 TIRES,TUBES,LINERS	1	1.00	37.76	294.74	332.50	0.67 %	0.00630
018 WHEELS,RIMS,HUBS,BEARI	2	1.00	24.88	19.20	44.08	0.09 %	0.00083
032 CRANKING SYSTEM	2	2.00	70.64	0.00	70.64	0.14 %	0.00134
034 LIGHTING SYSTEM	7	12.50	331.84	139.64	471.48	0.95 %	0.00893
043 EXHAUST SYSTEM	2	42.00	1131.90	6166.56	7298.46	14.64 %	0.13819
045 POWER PLANT/ENGINE	2	12.00	453.12	693.43	1146.55	2.30 %	0.02171
051 GENERAL ACCESSORIES	3	3.00	99.74	26.68	126.42	0.25 %	0.00239
054 HORN AND MOUNTING	1	3.00	80.85	52.24	133.09	0.27 %	0.00252
056 POWER TAKE OFF	2	22.00	790.98	4577.07	5368.05	10.77 %	0.10164
065 HYDRAULIC SYSTEMS	8	44.00	1414.91	1373.43	2788.34	5.60 %	0.05280
066 PREVENTIVE MAINTENANCE	15	145.50	4540.69	3313.14	7853.83	15.76 %	0.14871
099 ROAD CALL TRAVEL TIME	59	207.25	6248.87	12174.86	18423.73	36.97 %	0.34884
103 ELECTRICAL, BLDG	1	1.00	0.00	8.76	8.76	0.02 %	0.00017
TOTALS:	111	549.25	16919.70	32916.27 TOT:	49835.97	100.00 %	0.94361

Service History by Vehicle

Town of Waterford - Public Works

Report generated on 11/16/2023 11:24 AM by Garon VanOverloop

6 records

Filters

Status: completed Vehicle: H14

Labor Cost	Parts Cost	Total Cost
$484.78	$675.63	$1,160.41

Vehicle

H14

Service Entry	Start Date	Completion Date	Primary Meter	Service Tasks	Resolved Issue Summary	Total Labor	Total Parts	Total Cost
20529364	10/20/2023 10:31 AM	10/25/2023 1:41 PM	42,884 mi	Preventative Maintenance - Winter Equipment Inspection	Due for service, see descri...	$85.88	$362.44	$448.32
20190090	08/25/2023	08/28/2023	42,165 mi	Electrical System (Miscellaneous)	Misc	$249.84	$0.00	$249.84
16587091	03/14/2023 4:30 PM	03/14/2023 4:30 PM	41,221 mi	Headlamp Bulb Replacement		$9.70	$8.76	$18.46
16181550	02/21/2023 10:50 AM	02/21/2023 10:54 AM	40,708 mi			$38.80	$13.17	$51.97
16110026	02/14/2023	02/14/2023	40,685 mi	Towing/Roadside Assistance	Tailgate chain	$33.52	$0.00	$33.52
15153714	11/14/2022	11/14/2022	39,634 mi	Towing/Roadside Assistance - Cameras/Alarms/Safety (Miscellaneous)		$67.04	$291.26	$358.30
					Total Amount	$484.78	$675.63	$1,160.41

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: h14
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: h14

UNIT: H14 LF MTR: 39344.0 CUR MTR: 39344.0 YR: 15 MAKE: INTERNATIONAL DEPT: PW SIZE: H CLASS: MEDIUM D FUEL:

VMRS CODE	DATE	WO NUM	LF-MILS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
002 TITLE > CAB/SHEET METALS														
002-002-000	07172015	2029727	3570	3574	DOOR LOCK		0.00	37.32	37.32	1.50	05	01	4	XX
002 TOTAL >CAB/SHEET METALS							0.00	37.32	37.32					
013 TITLE > BRAKES														
013-000-000	11272019	2035449	29200	29195	BRAKES		1301.38	238.86	1540.24	6.00	03	01	8	XX
013-003-000	03282017	2032183	14750	14750	REAR BRAKE PADS &		618.40	205.31	823.71	7.00	06	01	4	XX
013-004-000	01202022	2036947	36940	36944	REAR BRAKE SHOES		1112.18	296.45	1408.63	11.00	07	01	8	XX
013-005-000	07172015	2029727	3570	3574	CK/ADJUST BRAKES		0.00	37.32	37.32	1.50	05	01	4	XX
013-045-000	01202022	2036947	36940	36944	DRUM REAR WHEEL		0.00	0.00	0.00	0.00		01	8	XX
013 TOTAL >BRAKES							3031.96	777.94	3809.90					
017 TITLE > TIRES,TUBES,LINERS														
017-000-000	05172018	2033684	22420	22416	TIRES,TUBES,LINERS		527.96	60.30	588.26	2.50	07	01	8	XX
017-000-000	01312018	2033245	20770	20773	TIRES,TUBES,LINERS		649.32	67.90	717.22	2.00	04	01	4	XX
017 TOTAL >TIRES,TUBES,LINERS							1177.28	128.20	1305.48					
022 TITLE > AXLE DRVN REAR														
022-009-000	01262022	2036908	36950	36950	DIFFERENTIAL ASSEM		2609.59	317.12	2926.71	8.00	05	01	8	XX
022 TOTAL >AXLE DRVN REAR							2609.59	317.12	2926.71					
027 TITLE > TRANSMISSION AUTOMAT														
027-000-000	08172018	2034020	24480	24481	TRANSMISSION AUTOM		321.93	1976.40	2298.33	58.00	05	01	8	XX
027-000-000	04102015	2029007	88060	88055	TRANSMISSION AUTOM		0.00	285.72	285.72	6.00	04	01	4	XX
027 TOTAL >TRANSMISSION AUTOMAT							321.93	2262.12	2584.05					
032 TITLE > CRANKING SYSTEM														
032-002-000	09022022	2037314	39060	39055	BATTERY		200.00	26.95	226.95	1.00	07	01	8	XX
032-013-000	09022022	2037314	39060	39055	BATTERY TEST		0.00	26.95	26.95	1.00	07	01	8	XX
032 TOTAL >CRANKING SYSTEM							200.00	53.90	253.90					
034 TITLE > LIGHTING SYSTEM														
034-004-000	0[illegible]2022	2037012	37770	37767	WIRING / REPAIR		0.00	37.76	37.76	1.00	06	01	8	XX
034-004-000	0[illegible]2020	2035844	30510	30510	WIRING / REPAIR		0.00	144.44	144.44	4.00	04	01	8	XX

134-006-000	04152020	2035843	29200	29195	BULB, REPLACE EXTE	9.09	34.39	43.48	1.00	06	01	8 XX
134-006-000	02082016	2030540	6960	6963	BULB, REPLACE EXTE	13.87	54.50	68.37	2.00	06	01	4 XX
134-006-000	01082015	2028716	940	942	BULB, REPLACE EXTE	8.04	35.01	43.05	1.00	03	01	4 XX

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: h14
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: h14

UNIT: H14 LF MTR: 39344.0 CUR MTR: 39344.0 YR: 15 MAKE: INTERNATIONAL DEPT: PW SIZE: H CLASS: MEDIUM D FUEL:

VMRS CODE	DATE	WO NUM	LF-MILS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
034-031-000	01242015	2028781	960	958	TAIL LIGHT ASSEMBL		0.00	10.24	10.24	0.50	07	01	4	XX
034 TOTAL >LIGHTING SYSTEM							31.00	316.34	347.34					
042 TITLE > COOLING SYSTEM														
042-001-000	01072022	2036844	36920	36918	COOLANT ADD		10.27	36.92	47.19	1.00	04	01	8	XX
042 TOTAL >COOLING SYSTEM							10.27	36.92	47.19					
043 TITLE > EXHAUST SYSTEM														
043-000-000	02082018	2033328	20910	20914	EXHAUST SYSTEM		37.43	33.95	71.38	1.00	04	01	8	XX
043 TOTAL >EXHAUST SYSTEM							37.43	33.95	71.38					
051 TITLE > GENERAL ACCESSORIES														
051-000-000	03072020	2035579	29200	29195	GENERAL ACCESSORIE		83.15	68.78	151.93	2.00	06	01	8	XX
051-038-000	12192018	2034313	24580	24581	WIPER BLADE		4.01	11.68	15.69	0.30	03	01	8	XX
051 TOTAL >GENERAL ACCESSORIES							87.16	80.46	167.62					
052 TITLE > ELECTRICAL ACCESSRES														
052-000-000	02052021	2036250	33260	33259	ELECTRICAL ACCESSR		0.00	147.68	147.68	4.00	04	01	8	XX
052-000-000	12162020	2036178	31800	31799	ELECTRICAL ACCESSR		28.85	36.92	65.77	1.00	04	01	8	XX
052-000-000	03042019	2034542	27350	27350	ELECTRICAL ACCESSR		466.70	67.36	534.06	2.00	05	01	8	XX
052-000-000	04032018	2033623	22420	22416	ELECTRICAL ACCESSR		0.00	135.80	135.80	4.00	04	01	8	XX
052-000-000	05022017	2032320	15780	15779	ELECTRICAL ACCESSR		9.83	234.64	244.47	8.00	05	01	4	XX
052 TOTAL >ELECTRICAL ACCESSRES							505.38	622.40	1127.78					
056 TITLE > POWER TAKE OFF														
056-000-000	09042018	2034025	24580	24581	POWER TAKE OFF		109.44	141.28	250.72	4.00	04	01	8	XX
056 TOTAL >POWER TAKE OFF							109.44	141.28	250.72					
065 TITLE > HYDRAULIC SYSTEMS														
065-000-000	01292018	2033258	20740	20739	HYDRAULIC SYSTEMS		107.74	67.90	175.64	2.00	04	01	4	XX
065-000-000	12152017	2033105	19570	19571	HYDRAULIC SYSTEMS		68.36	33.95	102.31	1.00	04	01	5	XX
065-000-000	01202016	2030450	6010	6010	HYDRAULIC SYSTEMS		0.00	33.62	33.62	1.50	07	01	4	XX
065-000-000	10092015	2030098	3570	3574	HYDRAULIC SYSTEMS		0.00	20.47	20.47	1.00	07	01	4	XX
065-000-000	01122015	2028961	87150	87153	HYDRAULIC SYSTEMS		220.31	785.02	1005.33	31.00	04	01	4	XX
065-006-000	0[illegible]019	2034352	24580	24581	HYD HOSE/FITTINGS		0.00	77.88	77.88	2.00	03	01	8	XX
065-006-000	0[illegible]2016	2030478	6490	6490	HYD HOSE/FITTINGS		19.80	109.00	128.80	4.00	06	01	4	XX

)65-006-000	01172016	2030470	6010	6010 HYD HOSE/FITTINGS	0.00	74.48	74.48	2.00	07		01	4 XX
)65-006-000	02162015	2029496	2000	1999 HYD HOSE/FITTINGS	98.14	95.24	193.38	2.00	04		01	4 XX

VEHICLE REPAIR HISTORY REPORT
FACILITY: 00001

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: h14
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: h14

UNIT: H14 LF MTR: 39344.0 CUR MTR: 39344.0 YR: 15 MAKE: INTERNATIONAL DEPT: PW SIZE: H CLASS: MEDIUM D FUEL:

VMRS CODE	DATE	WO NUM	LF-MILS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
65 TOTAL >HYDRAULIC SYSTEMS							514.35	1297.56	1811.91					
66 TITLE > PREVENTIVE MAINTENAN														
66-000-000	02252019	2034555	27350	27350	PREVENTIVE MAINTEN		178.85	211.92	390.77	6.00	04	01	8	XX
66-000-000	01192018	2033266	20480	20475	PREVENTIVE MAINTEN		113.24	271.60	384.84	8.00	04	01	8	XX
66-001-000	09022022	2037314	39060	39055	PM-A		186.46	67.38	253.84	2.50	07	01	8	XX
66-001-000	05282021	2036474	35060	35061	PM-A		817.63	584.63	1402.26	17.00	06	01	8	XX
66-001-000	09222017	2032803	18350	18347	PM-A		9.02	135.80	144.82	4.00	04	01	8	XX
66-002-000	02292020	2035522	29200	29195	PM-B		129.56	206.34	335.90	6.00	06	01	8	XX
66-002-000	03162017	2032143	14690	14690	PM-B		592.28	351.96	944.24	12.00	06	XX	8	XX
66-002-000	08032016	2031258	10360	10357	PM-B		192.02	373.45	565.47	11.00	04	XX	8	XX
66-002-000	01042016	2030390	6010	6010	PM-B		137.79	218.00	355.79	8.00	06	XX	8	XX
66-002-000	12232015	2030298	5270	5270	PM-B		25.33	222.25	247.58	7.00	04	XX	8	XX
66-002-000	07172015	2029513	3000	3002	PM-B		141.31	127.00	268.31	4.00	04	XX	8	XX
66 TOTAL >PREVENTIVE MAINTENAN							2523.49	2770.33	5293.82					
71 TITLE > BODY														
71-000-000	10152019	2035311	28210	28214	BODY		0.00	40.43	40.43	1.50	07	01	8	XX
71 TOTAL >BODY							0.00	40.43	40.43					
99 TITLE > ROAD CALL TRAVEL TIM														
99-000-000	08152018	2033977	23270	23274	ROAD CALL TRAVEL T		0.00	26.36	26.36	1.00	07	01	8	XX
99-001-000	04052017	2032211	14980	14984	ROAD SERVICE ROAD		0.00	29.33	29.33	1.00	05	01	10	XX
99-002-000	03082022	2037006	37770	37767	PLOWS (BLADES/SHOE		452.52	47.60	500.12	2.00	09	01	8	XX
99-002-000	03012021	2036444	34120	34117	PLOWS (BLADES/SHOE		119.14	34.39	153.53	1.00	06	01	8	XX
99-002-000	02112021	2036311	33650	33651	PLOWS (BLADES/SHOE		403.67	68.78	472.45	2.00	06	01	8	XX
99-002-000	02022021	2036277	33070	33065	PLOWS (BLADES/SHOE		91.18	73.84	165.02	2.00	04	01	8	XX
99-002-000	03032019	2034548	27330	27330	PLOWS (BLADES/SHOE		119.14	52.98	172.12	1.00	04	01	8	XX
99-002-000	01162019	2034376	24580	24581	PLOWS (BLADES/SHOE		334.63	77.88	412.51	2.00	03	01	8	XX
99-002-000	06202018	2033428	21890	21892	PLOWS (BLADES/SHOE		119.14	163.40	282.54	5.00	07	01	8	XX
99-002-000	01142018	2033287	20390	20391	PLOWS (BLADES/SHOE		442.47	63.28	505.75	2.00	05	01	4	XX
99-002-000	01172018	2033269	20410	20408	PLOWS (BLADES/SHOE		119.14	100.71	219.85	3.00	06	01	4	XX
99-002-000	01302018	2033249	20760	20761	PLOWS (BLADES/SHOE		442.47	33.95	476.42	1.00	04	01	4	XX
99-002-000	12292017	2033158	19570	19571	PLOWS (BLADES/SHOE		119.14	66.76	185.90	2.00	06	01	4	XX
99-002-000	0[illegible]017	2032103	10360	10357	PLOWS (BLADES/SHOE		391.18	24.12	415.30	1.00	07	01	4	XX
99-002-000	0[illegible]016	2030551	6960	6963	PLOWS (BLADES/SHOE		148.96	22.41	171.37	1.00	07	01	4	XX

)99-002-000	02082016	2030532	6490	6490	PLOWS (BLADES/SHOE	134.95	27.25	162.20	1.00	06	01	4 XX
)99-002-000	02222015	2029495	1330	1332	PLOWS (BLADES/SHOE	0.00	84.94	84.94	2.00	05	01	4 XX

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: h14
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: h14

INIT: H14 LF MTR: 39344.0 CUR MTR: 39344.0 YR: 15 MAKE: INTERNATIONAL DEPT: PW SIZE: H CLASS: MEDIUM D FUEL:

VMRS CODE	DATE	WO NUM	LF-MILS ODOM		WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
099-002-000	03052015	2029260	1820	1823	PLOWS (BLADES/SHOE		427.96	83.21	511.17	2.00	07	01	4	XX
099-002-000	02072015	2028915	87530	87530	PLOWS (BLADES/SHOE		55.92	55.48	111.40	2.00	07	01	4	XX
099-002-000	02092015	2028741	960	958	PLOWS (BLADES/SHOE		400.00	99.52	499.52	4.00	05	01	12	XX
099-002-000	01252015	2028733	87520	87520	PLOWS (BLADES/SHOE		0.00	95.24	95.24	2.00	04	01	4	XX
099-003-000	11022022	2037406	39340	39344	SPREADERS		30.39	80.85	111.24	3.00	07	01	8	XX
099-003-000	12282021	2036839	36630	36634	SPREADERS		96.19	67.38	163.57	2.50	07	01	8	XX
099-003-000	11142019	2035438	29200	29195	SPREADERS		14.58	216.66	231.24	6.00	04	01	8	XX
099-003-000	01262015	2028876	87530	87530	SPREADERS		0.00	127.00	127.00	4.00	04	01	4	XX
099-008-000	02292020	2035478	29200	29195	GENERAL CHECK		0.00	80.85	80.85	3.00	07	01	8	XX
099-009-000	03032022	2037012	37730	37730	DIAGNOSIS		13.29	151.04	164.33	4.00	06	01	8	XX
099-009-000	09162021	2036637	35600	35600	DIAGNOSIS		443.65	906.24	1349.89	24.00	06	01	8	XX
099-009-000	02052021	2036329	33260	33260	DIAGNOSIS		0.00	34.39	34.39	1.00	06	01	8	XX
099-009-000	05172018	2033684	22420	22416	DIAGNOSIS		40.84	144.72	185.56	6.00	07	01	8	XX
099-009-000	03292016	2030709	8110	8114	DIAGNOSIS		0.00	54.50	54.50	2.00	05	01	4	XX
099-009-000	01262016	2030385	5270	5270	DIAGNOSIS		0.00	146.04	146.04	4.00	03	01	1	XX
099-009-000	01262015	2028735	87520	87520	DIAGNOSIS		0.00	52.52	52.52	1.50	03	01	4	XX
099-018-000	10282015	2030123	5270	5270	TRANSPORT VEHICLES		0.00	74.64	74.64	3.00	06	01	11	XX
099-018-000	10142015	2030115	3570	3574	TRANSPORT VEHICLES		0.00	61.41	61.41	3.00	07	01	12	XX
099-018-000	01262015	2028735	87520	87520	TRANSPORT VEHICLES		0.00	52.52	52.52	1.50	03	01	4	XX
099-041-000	07272021	2036375	35060	35061	REPAIRS		52.15	68.78	120.93	2.00	06	01	8	XX
099-041-000	07272021	2036330	35060	35061	REPAIRS		336.69	275.12	611.81	8.00	06	01	8	XX
099-041-000	08142019	2035081	28210	28214	REPAIRS		11.00	53.90	64.90	2.00	07	01	8	XX
099-041-000	06192019	2034887	28210	28214	REPAIRS		0.00	67.28	67.28	2.00	05	01	8	XX
099-041-000	07122018	2033705	23270	23274	REPAIRS		881.68	2104.90	2986.58	62.00	04	01	8	XX
099-041-000	03132018	2033570	21890	21892	REPAIRS		0.00	24.12	24.12	1.00	07	01	8	XX
099-041-000	10132017	2032820	18350	18347	REPAIRS		0.00	24.12	24.12	1.00	07	01	4	XX
099-041-000	06302016	2031137	9740	9736	REPAIRS		0.00	28.61	28.61	1.00	05	01	4	XX
099-041-000	12022015	2030345	5270	5270	REPAIRS		0.00	22.41	22.41	1.00	07	01	4	XX
099-054-000	03162015	2029289	2000	1999	VEHICLE PUT IN SER		46.69	348.32	395.01	14.00	05	01	4	XX
099-054-000	02092015	2028741	960	958	VEHICLE PUT IN SER		0.00	99.52	99.52	4.00	05	01	12	XX
099 TOTAL >ROAD CALL TRAVEL TIM							6288.76	6699.27	12988.03					

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: h14
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VMRS Code	METER : STANDARD QUANTITY	SUBTOTALS OF VMRS CODES FOR DIVISION > AL LABOR HRS	LABOR COST	PARTS COST	PERIOD : LIFE TOTAL COST	PERCENT	TOT COST /METER
002 CAB/SHEET METALS	1	1.50	37.32	0.00	37.32	0.11 %	0.00095
013 BRAKES	5	25.50	777.94	3031.96	3809.90	11.52 %	0.09684
017 TIRES,TUBES,LINERS	2	4.50	128.20	1177.28	1305.48	3.95 %	0.03318
022 AXLE DRVN REAR	1	8.00	317.12	2609.59	2926.71	8.85 %	0.07439
027 TRANSMISSION AUTOMATIC	2	64.00	2262.12	321.93	2584.05	7.82 %	0.06568
032 CRANKING SYSTEM	2	2.00	53.90	200.00	253.90	0.77 %	0.00645
034 LIGHTING SYSTEM	6	9.50	316.34	31.00	347.34	1.05 %	0.00883
042 COOLING SYSTEM	1	1.00	36.92	10.27	47.19	0.14 %	0.00120
043 EXHAUST SYSTEM	1	1.00	33.95	37.43	71.38	0.22 %	0.00181
051 GENERAL ACCESSORIES	2	2.30	80.46	87.16	167.62	0.51 %	0.00426
052 ELECTRICAL ACCESSRES	5	19.00	622.40	505.38	1127.78	3.41 %	0.02866
056 POWER TAKE OFF	1	4.00	141.28	109.44	250.72	0.76 %	0.00637
065 HYDRAULIC SYSTEMS	9	46.50	1297.56	514.35	1811.91	5.48 %	0.04605
066 PREVENTIVE MAINTENANCE	11	85.50	2770.33	2523.49	5293.82	16.01 %	0.13455
071 BODY	1	1.50	40.43	0.00	40.43	0.12 %	0.00103
099 ROAD CALL TRAVEL TIME	47	206.50	6699.27	6288.76	12988.03	39.28 %	0.33011
TOTALS:	97	482.30	15615.54	17448.04 TOT:	33063.58	100.00 %	0.84037

Service History by Vehicle

Town of Waterford - Public Works

Report generated on 11/16/2023 11:26 AM by Garon VanOverloop

2 records

Filters

Status: completed **Vehicle:** H12

Labor Cost	Parts Cost	Total Cost
$528.04	$14.58	$542.62

Vehicle

H12

Service Entry	Start Date	Completion Date	Primary Meter	Service Tasks	Resolved Issue Summary	Total Labor	Total Parts	Total Cost
19837964	09/15/2023	09/19/2023	55,772 mi	Diagnostics (Unspecified)		$92.28	$14.58	$106.86
16006653	01/31/2023	02/02/2023	54,979 mi	Welding & Fabrication	Body repairs	$435.76	$0.00	$435.76
					Total Amount	$528.04	$14.58	$542.62

DATE: 11/16/2023
TIME: 11:25 a.m.

TOWN OF WATERFORD
VEHICLE REPAIR HISTORY REPORT
FACILITY: 00001

ID: 1-32/RRV PAGE: 1

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: h12
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: h12

UNIT: H12 LF MTR: 53905.0 CUR MTR: 53905.0 YR: C3 MAKE: FORD DEPT: PW SIZE: L CLASS: PICKUP FUEL: D

VMRS CODE	DATE	WO NUM	LF-MILS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
013 TITLE > BRAKES														
013-003-000	09292021	2036653	53590	53589	REAR BRAKE PADS &		401.51	238.00	639.51	10.00	09	01	8	XX
013 TOTAL >BRAKES							401.51	238.00	639.51					
018 TITLE > WHEELS,RIMS,HUBS,BEA														
018-013-000	09292021	2036653	53590	53589	SEAL WHEEL REAR		0.00	0.00	0.00	0.00	09	01	8	XX
018 TOTAL >WHEELS,RIMS,HUBS,BEA							0.00	0.00	0.00					
024 TITLE > DRIVE SHAFT(S)														
024-001-000	05292019	2034807	50300	50300	DRIVESHAFT CENTER		44.78	201.84	246.62	6.00	05	01	8	XX
024 TOTAL >DRIVE SHAFT(S)							44.78	201.84	246.62					
032 TITLE > CRANKING SYSTEM														
032-002-000	01112021	2036203	52940	52944	BATTERY		254.59	36.92	291.51	1.00	05	01	8	XX
032 TOTAL >CRANKING SYSTEM							254.59	36.92	291.51					
034 TITLE > LIGHTING SYSTEM														
034-002-000	11292018	2034269	46770	46772	BACKUP LAMP		85.29	29.08	114.37	0.80	03	01	8	XX
034 TOTAL >LIGHTING SYSTEM							85.29	29.08	114.37					
053 TITLE > EXPENDABLE ITEMS														
053-000-000	08252015	2029968	39400	39397	EXPENDABLE ITEMS		142.44	40.94	183.38	2.00	07	01	4	XX
053 TOTAL >EXPENDABLE ITEMS							142.44	40.94	183.38					
066 TITLE > PREVENTIVE MAINTENAN														
066-001-000	05182021	2036477	53300	53300	PM-A		42.98	137.56	180.54	4.00	06	01	8	XX
066-001-000	08152013	2027208	37080	37084	PM-A		34.92	74.65	109.57	3.00	0000000005			
066-001-000	10252012	2025914	34100	34103	PM-A		285.20	113.90	399.10	5.00	0000000006			
066-001-000	11282011	2024432	31040	31040	PM-A		55.30	39.64	94.94	2.00	0000000006			
066-001-000	09012010	2022354	26550	26555	PM-A		329.92	337.26	667.18	14.00	0000000004			
066-001-000	04282009	2019911	21890	21893	PM-A		40.36	79.28	119.64	4.00	0000000006			
066-001-000	02012008	2018510	18180	18182	PM-A		54.93	138.74	193.67	7.00	0000000008			
066-001-000	06212006	2016807	0	0	PM-A		31.07	59.46	90.53	3.00	0000000008			
066-001-000	01112005	2015179	7960	7969	PM-A		52.49	24.09	76.58	1.00	0000000004			

)66-001-000	11072003	2013959	2820	2820	PM-A		29.17	36.14	65.31	1.50	0000000005			
)66-002-000	07242017	2032613	46590	46592	PM-B		52.16	67.90	120.06	2.00	04		XX	8 XX
)66-002-000	09042015	2030071	42990	42985	PM-B		113.03	476.25	589.28	15.00	04		XX	8 XX

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: h12
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: h12

UNIT: H12 LF MTR: 53905.0 CUR MTR: 53905.0 YR: 03 MAKE: FORD DEPT: PW SIZE: L CLASS: PICKUP FUEL: D

VMRS CODE	DATE	WO NUM	LF-MILS ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
066 TOTAL >PREVENTIVE MAINTENAN						1121.53	1584.87	2706.40					
071 TITLE > BODY													
071-000-000	09282015	2030080	43270	43269 BODY		50.00	793.75	843.75	25.00	04	01	4	XX
071 TOTAL >BODY						50.00	793.75	843.75					
099 TITLE > ROAD CALL TRAVEL TIM													
099-007-000	05052014	2028383	39390	39397 ONSPOTS ONSPOT INS		63.06	99.54	162.60	4.00	0000000005			
099-007-000	08072013	2027217	0	0 ONSPOTS ONSPOT INS		24.99	74.65	99.64	3.00	0000000005			
099-007-000	02052013	2026329	0	0 ONSPOTS ONSPOT INS		0.00	37.48	37.48	2.00	0000000007			
099-007-000	12292011	2024578	0	0 ONSPOTS ONSPOT INS		96.01	68.34	164.35	3.00	0000000006			
099-007-000	12302011	2024552	31180	31186 ONSPOTS ONSPOT INS		33.99	250.58	284.57	11.00	0000000005			
099-007-000	01042012	2024551	0	0 ONSPOTS ONSPOT INS		0.00	136.68	136.68	6.00	0000000005			
099-007-000	09282011	2024180	30470	30475 ONSPOTS ONSPOT INS		29.25	39.64	68.89	2.00	0000000008			
099-007-000	09062011	2024066	30230	30237 ONSPOTS ONSPOT INS		112.19	53.14	165.33	2.00	0000000003			
099-007-000	09082010	2022401	26600	26605 ONSPOTS ONSPOT INS		0.00	144.54	144.54	6.00	0000000004			
099-007-000	09072010	2022389	26600	26601 ONSPOTS ONSPOT INS		25.91	120.45	146.36	5.00	0000000004			
099-007-000	03192010	2021633	0	0 ONSPOTS ONSPOT INS		1.95	9.91	11.86	0.50	0000000008			
099-007-000	02172010	2021432	24390	24390 ONSPOTS ONSPOT INS		2.69	128.83	131.52	6.50	0000000008			
099-007-000	02112010	2021422	24370	24373 ONSPOTS ONSPOT INS		0.00	240.90	240.90	10.00	0000000004			
099-007-000	02112010	2021419	24370	24373 ONSPOTS ONSPOT INS		0.00	59.46	59.46	3.00	0000000008			
099-007-000	12162009	2021079	23970	23972 ONSPOTS ONSPOT INS		43.99	72.27	116.26	3.00	0000000004			
099-007-000	10052009	2020803	0	0 ONSPOTS ONSPOT INS		0.00	48.18	48.18	2.00	0000000005			
099-007-000	09172009	2020680	23300	23309 ONSPOTS ONSPOT INS		180.00	48.18	228.18	2.00	0000000005			
099-007-000	01212009	2019611	0	0 ONSPOTS ONSPOT INS		348.23	72.27	420.50	3.00	0000000005			
099-007-000	05192008	2018854	18970	18972 ONSPOTS ONSPOT INS		0.00	144.54	144.54	6.00	0000000004			
099-007-000	01082007	2017385	15020	15026 ONSPOTS ONSPOT INS		14.22	12.05	26.27	0.50	0000000004			
099-007-000	10122005	2015946	10000	10000 ONSPOTS ONSPOT INS		0.00	59.46	59.46	3.00	0000000008			
099-007-000	01292003	2013512	0	0 ONSPOTS ONSPOT INS		419.43	385.44	804.87	16.00	0000000004			
099-007-000	05162003	2013467	0	0 ONSPOTS ONSPOT INS		24.19	24.09	48.28	1.00	0000000005			
099-007-000	02282003	2013237	0	0 ONSPOTS ONSPOT INS		28.65	120.45	149.10	5.00	0000000005			
099-008-000	04052021	2036408	53130	53125 GENERAL CHECK		107.23	188.65	295.88	7.00	07	01	8	XX
099-009-000	01142022	2036887	53910	53905 DIAGNOSIS		0.00	0.00	0.00	0.00		01	8	XX
099-009-000	05252021	2036507	53350	53350 DIAGNOSIS		1718.86	275.12	1993.98	8.00	06	01	8	XX
099-041-000	09152020	2036063	52630	52630 REPAIRS		0.00	80.85	80.85	3.00	07	01	8	XX
099-041-000	11132018	2034229	9860	9860 REPAIRS		37.87	192.24	230.11	6.00	05	01	8	XX

)99-041-000	11022017	2032876	46770	46772	REPAIRS	2.00	48.24	50.24	2.00	07	01	4 XX
)99-041-000	08282017	2032756	46770	46772	REPAIRS	7.98	87.99	95.97	3.00	05	01	4 XX

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: h12
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: h12

UNIT: H12 LF MTR: 53905.0 CUR MTR: 53905.0 YR: 03 MAKE: FORD DEPT: PW SIZE: L CLASS: PICKUP FUEL: D

VMRS CODE	DATE	WO NUM	LF-MILS ODOM		WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
099-041-000	02102017	2031766	44040	44035	REPAIRS		208.00	192.96	400.96	8.00	07	01	4	XX
099-041-000	05132016	2030997	44040	44035	REPAIRS		0.00	99.36	99.36	3.00	04	01	4	XX
099-041-000	03182016	2030708	44040	44035	REPAIRS		7.98	81.75	89.73	3.00	05	01	4	XX
099-120-000	11082019	2034686	50300	50300	PARTS ONLY		57.12	19.91	77.03	0.50	03	01	8	XX
099 TOTAL >ROAD CALL TRAVEL TIM							3595.79	3718.14	7313.93					

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: h12
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: h12

VMRS Code	METER : STANDARD QUANTITY	SUBTOTALS OF VMRS CODES FOR DIVISION > AL LABOR HRS	LABOR COST	PARTS COST	PERIOD : LIFE TOTAL COST	PERCENT	TOT COST /METER
)13 BRAKES	1	10.00	238.00	401.51	639.51	5.18 %	0.01186
)18 WHEELS,RIMS,HUBS,BEARI	1	0.00	0.00	0.00	0.00	0.00 %	0.00000
)24 DRIVE SHAFT(S)	1	6.00	201.84	44.78	246.62	2.00 %	0.00458
)32 CRANKING SYSTEM	1	1.00	36.92	254.59	291.51	2.36 %	0.00541
)34 LIGHTING SYSTEM	1	0.80	29.08	85.29	114.37	0.93 %	0.00212
)53 EXPENDABLE ITEMS	1	2.00	40.94	142.44	183.38	1.49 %	0.00340
)66 PREVENTIVE MAINTENANCE	12	61.50	1584.87	1121.53	2706.40	21.93 %	0.05021
)71 BODY	1	25.00	793.75	50.00	843.75	6.84 %	0.01565
)99 ROAD CALL TRAVEL TIME	35	149.00	3718.14	3595.79	7313.93	59.27 %	0.13568
TOTALS:	54	255.30	6643.54	5695.93 TOT:	12339.47	100.00 %	0.22891

Service History by Vehicle

Town of Waterford - Public Works

Report generated on 11/16/2023 11:28 AM by Garon VanOverloop

5 records

Filters

Status: completed Vehicle: H24

Labor Cost	Parts Cost	Total Cost
$5,062.70	$15,349.21	$20,411.91

Vehicle

H24

Service Entry	Start Date	Completion Date	Primary Meter	Service Tasks	Resolved Issue Summary	Total Labor	Total Parts	Total Cost
20190069	08/10/2023	10/10/2023	17,143 mi	conveyor repair	Conveyor replacement	$3,747.60	$5,450.39	$9,197.99
16886260	03/23/2023 2:40 PM	03/27/2023	17,141 mi	Hydraulic hose replacement		$583.18	$475.90	$1,059.08
16863128	03/22/2023	03/22/2023	17,119 mi	Tire Replacement		$33.52	$80.99	$114.51
15695405	01/06/2023 8:44 AM	01/12/2023 8:44 AM	17,035 mi			$388.00	$1,966.13	$2,354.13
15581158	12/22/2022 9:47 AM	12/22/2022 9:47 AM	17,033 mi		RF drive motor	$310.40	$7,375.80	$7,686.20
					Total Amount	$5,062.70	$15,349.21	$20,411.91

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: h24
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: h24

UNIT: H24 LF MTR: 19433.0 CUR MTR: 19433.0 YR: 02 MAKE: ELGIN DEPT: PW SIZE: H CLASS: SWEEPER FUEL: D

VMRS CODE	DATE	WO NUM	LF-MILS ODOM		WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
01 TITLE > A/C, HEAT, VENTILATI														
01-000-000	05112015	2029515	12820	12815	A/C, HEAT, VENTILA		9.06	31.75	40.81	1.00	04	01	4	XX
01-000-000	06022014	2028525	12480	12483	A/C, HEAT, VENTILA		117.00	31.76	148.76	1.00	0000000004			
01-000-000	05192014	2028470	12360	12363	A/C, HEAT, VENTILA		373.40	47.64	421.04	1.50	0000000004			
01-000-000	06102013	2027001	0	0	A/C, HEAT, VENTILA		256.40	30.53	286.93	1.00	0000000004			
01-000-000	06032013	2026904	11810	11817	A/C, HEAT, VENTILA		322.23	61.06	383.29	2.00	0000000004			
01-000-000	04012013	2026846	0	0	A/C, HEAT, VENTILA		0.00	56.22	56.22	3.00	0000000007			
01-000-000	04162013	2026787	11560	11569	A/C, HEAT, VENTILA		432.85	244.24	677.09	8.00	0000000004			
01-000-000	08102012	2025579	11220	11229	A/C, HEAT, VENTILA		7.37	33.66	41.03	1.00	0000000003			
01-000-000	04272012	2025132	11160	11169	A/C, HEAT, VENTILA		112.00	22.78	134.78	1.00	0000000005			
01-000-000	04022012	2025010	10930	10933	A/C, HEAT, VENTILA		112.00	9.37	121.37	0.50	0000000007			
01-000-000	03142012	2024905	10770	10771	A/C, HEAT, VENTILA		437.00	22.78	459.78	1.00	0000000006			
01-000-000	10212011	2024313	10600	10601	A/C, HEAT, VENTILA		210.61	49.55	260.16	2.50	0000000008			
01-000-000	08302011	2024048	10550	10551	A/C, HEAT, VENTILA		223.99	144.54	368.53	6.00	0000000004			
01-000-000	05042011	2023694	10390	10391	A/C, HEAT, VENTILA		66.40	24.09	90.49	1.00	0000000005			
01-000-000	04292011	2023557	10350	10359	A/C, HEAT, VENTILA		223.99	39.85	263.84	1.50	0000000003			
01-000-000	04152011	2023480	10270	10273	A/C, HEAT, VENTILA		66.40	48.18	114.58	2.00	0000000005			
01-000-000	03282011	2023405	10020	10020	A/C, HEAT, VENTILA		92.00	9.91	101.91	0.50	0000000008			
01-000-000	09032009	2020642	9210	9214	A/C, HEAT, VENTILA		271.00	39.64	310.64	2.00	0000000006			
01-000-000	07302009	2020555	0	0	A/C, HEAT, VENTILA		0.00	24.09	24.09	1.00	0000000005			
01-000-000	07162009	2020341	9050	9056	A/C, HEAT, VENTILA		327.63	53.14	380.77	2.00	0000000003			
01-000-000	07152009	2020325	9030	9036	A/C, HEAT, VENTILA		84.00	19.82	103.82	1.00	0000000008			
01-000-000	03312009	2019824	8840	8849	A/C, HEAT, VENTILA		98.51	24.09	122.60	1.00	0000C00004			
01-000-000	03262009	2019812	8790	8790	A/C, HEAT, VENTILA		0.00	48.18	48.18	2.00	0000C00005			
01-000-000	03182009	2019790	0	0	A/C, HEAT, VENTILA		84.00	24.09	108.09	1.00	0000C00005			
01-000-000	03052009	2019741	8520	8524	A/C, HEAT, VENTILA		84.00	19.82	103.82	1.00	0000C00008			
01-000-000	02242009	2019697	8460	8466	A/C, HEAT, VENTILA		325.00	26.57	351.57	1.00	0000C00003			
01-000-000	10242008	2019293	8370	8372	A/C, HEAT, VENTILA		84.00	9.91	93.91	0.50	0000C00006			
01-000-000	05092008	2018823	0	0	A/C, HEAT, VENTILA		307.00	118.92	425.92	6.00	0000C00008			
01-000-000	04152008	2018779	7910	7915	A/C, HEAT, VENTILA		84.00	29.73	113.73	1.50	0000C00008			
01-000-000	04112007	2017727	7010	7013	A/C, HEAT, VENTILA		223.00	29.73	252.73	1.50	0000C00008			
01-000-000	04262006	2016575	6020	6029	A/C, HEAT, VENTILA		66.40	19.82	86.22	1.00	0000C00008			
01-000-000	0[illegible]006	2016571	6010	6010	A/C, HEAT, VENTILA		249.75	29.73	279.48	1.50	0000C00[illegible]			
01-000-000	0[illegible]006	2016489	5760	5762	A/C, HEAT, VENTILA		84.00	48.18	132.18	2.00	0000C00[illegible]			

)01-000-000	03242006	2016454	5620	5627 A/C, HEAT, VENTILA	66.40	19.82	86.22	1.00 0000000008
)01-000-000	03172006	2016436	5500	5502 A/C, HEAT, VENTILA	361.41	89.19	450.60	4.50 0000000006
)01-000-000	03152006	2016415	5450	5450 A/C, HEAT, VENTILA	66.40	9.91	76.31	0.50 0000000008

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: h24
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: h24

UNIT: H24 LF MTR: 19433.0 CUR MTR: 19433.0 YR: 02 MAKE: ELGIN DEPT: PW SIZE: H CLASS: SWEEPER FUEL: D

VMRS CODE	DATE	WO NUM	LF-MILS ODOM		WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
001-000-000	01312006	2016277	5100	5101	A/C, HEAT, VENTILA		409.00	19.82	428.82	1.00	0000000008			
001-000-000	01092006	2016190	4880	4883	A/C, HEAT, VENTILA		84.00	19.82	103.82	1.00	0000000006			
001-000-000	07122005	2015700	0	0	A/C, HEAT, VENTILA		84.00	19.82	103.82	1.00	0000000006			
001-000-000	06152005	2015696	4360	4369	A/C, HEAT, VENTILA		84.00	19.82	103.82	1.00	0000000006			
001-000-000	05202005	2015563	4280	4283	A/C, HEAT, VENTILA		424.00	29.73	453.73	1.50	0000000008			
001-000-000	04252005	2015526	3980	3984	A/C, HEAT, VENTILA		325.00	24.09	349.09	1.00	0000000005			
001-000-000	05022005	2015512	4050	4059	A/C, HEAT, VENTILA		84.00	24.09	108.09	1.00	0000000005			
001-000-000	04192005	2015497	3910	3919	A/C, HEAT, VENTILA		84.00	48.18	132.18	2.00	0000000005			
001-000-000	04012005	2015481	370	376	A/C, HEAT, VENTILA		325.00	29.73	354.73	1.50	0000000006			
001-000-000	03222005	2015435	3560	3563	A/C, HEAT, VENTILA		107.00	48.18	155.18	2.00	0000000005			
001-000-000	02152005	2015297	3290	3294	A/C, HEAT, VENTILA		409.00	12.05	421.05	0.50	0000000005			
001-000-000	06112004	2014644	2720	2722	A/C, HEAT, VENTILA		325.00	24.09	349.09	1.00	0000000004			
001-000-000	06242004	2014632	2850	2851	A/C, HEAT, VENTILA		28.75	24.09	52.84	1.00	0000000004			
001-000-000	07122004	2014574	2940	2946	A/C, HEAT, VENTILA		295.00	26.57	321.57	1.00	0000000003			
001-000-000	05132004	2014440	2450	2459	A/C, HEAT, VENTILA		78.00	19.82	97.82	1.00	0000000006			
001-000-000	04302004	2014427	2270	2274	A/C, HEAT, VENTILA		295.00	24.09	319.09	1.00	0000000005			
001-000-000	04132004	2014415	2060	2061	A/C, HEAT, VENTILA		303.95	13.28	317.23	0.50	0000000003			
001-000-000	04272004	2014393	2200	2202	A/C, HEAT, VENTILA		78.00	19.82	97.82	1.00	0000000006			
001-000-000	03152004	2014365	1730	1735	A/C, HEAT, VENTILA		78.00	48.18	126.18	2.00	0000000004			
001-000-000	04122004	2014344	2030	2034	A/C, HEAT, VENTILA		78.00	12.05	90.05	0.50	0000000004			
001-000-000	03292004	2014334	1890	1893	A/C, HEAT, VENTILA		78.00	9.91	87.91	0.50	0000000008			
001-000-000	03252004	2014326	1840	1842	A/C, HEAT, VENTILA		295.00	24.09	319.09	1.00	0000000004			
001-000-000	03052004	2014292	1540	1546	A/C, HEAT, VENTILA		78.00	19.82	97.82	1.00	0000000008			
001-000-000	03102004	2014279	1650	1654	A/C, HEAT, VENTILA		26.75	26.57	53.32	1.00	0000000003			
001-000-000	02252004	2014259	0	0	A/C, HEAT, VENTILA		78.00	19.82	97.82	1.00	0000000008			
001-000-000	02122004	2014214	1270	1272	A/C, HEAT, VENTILA		333.00	29.73	362.73	1.50	0000000008			
001-000-000	12312003	2014109	0	0	A/C, HEAT, VENTILA		78.00	12.05	90.05	0.50	0000000004			
001-000-000	05212003	2013476	910	912	A/C, HEAT, VENTILA		78.00	0.00	78.00	0.00	0000000005			
001-000-000	05092003	2013421	800	800	A/C, HEAT, VENTILA		78.00	19.82	97.82	1.00	0000000008			
001-000-000	04222003	2013390	650	655	A/C, HEAT, VENTILA		270.60	36.14	306.74	1.50	0000000005			
001-000-000	04042003	2013315	490	493	A/C, HEAT, VENTILA		78.00	19.82	97.82	1.00	0000000006			
001-000-000	03212003	2013288	310	312	A/C, HEAT, VENTILA		295.00	26.57	321.57	1.00	0000000003			
001-000-000	03262003	2013276	370	374	A/C, HEAT, VENTILA		78.00	19.82	97.82	1.00	0000000006			
001-013-000	04092019	2034613	19430	19433	A/C LEAK TEST		15.55	103.02	118.57	3.00	06	01	8	XX
001 TOTAL >A					HEAT, VENTILATI		11767.80	2466.79	14234.59					

002 TITLE > CAB/SHEET METALS

002-062-000	04132015 2029389	12600	12603 WINDSHIELD	144.60	49.76	194.36	2.00	05	01	12 XX

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VMRS CODE	DATE	WO NUM	LF-MILS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
002 TOTAL >CAB/SHEET METALS							144.60	49.76	194.36					
013 TITLE > BRAKES														
013-000-000	03262014	2028279	11930	11935	BRAKES		127.00	190.55	317.55	6.00	0000000004			
013-000-000	07272009	2020498	3290	3297	BRAKES		79.47	192.72	272.19	8.00	0000000004			
013-000-000	03262009	2019812	8790	8790	BRAKES		325.00	48.18	373.18	2.00	0000000004			
013-000-000	07142008	2019006	0	0	BRAKES		1842.21	385.44	2227.65	16.00	0000000004			
013-044-000	06162022	2037174	19430	19433	DRUM FRONT WHEEL		2229.33	633.33	2862.65	23.50	07	01	8	XX
013 TOTAL >BRAKES							4603.01	1450.22	6053.23					
015 TITLE > STEERING														
015-000-000	10092019	2035289	16360	16355	STEERING		0.00	144.44	144.44	4.00	04	01	8	XX
015 TOTAL >STEERING							0.00	144.44	144.44					
017 TITLE > TIRES,TUBES,LINERS														
017-000-000	05202016	2030895	19430	19433	TIRES,TUBES.LINERS		453.43	73.02	526.45	2.00	03	01	12	XX
017 TOTAL >TIRES,TUBES,LINERS							453.43	73.02	526.45					
034 TITLE > LIGHTING SYSTEM														
034-004-000	04092019	2034613	19430	19433	WIRING / REPAIR		155.50	1217.52	1373.02	38.00	06	01	8	XX
034-004-000	03262019	2034581	19430	19433	WIRING / REPAIR		0.00	52.72	52.72	2.00	07	01	8	XX
034-006-000	10242018	2034179	19430	19433	BULB, REPLACE EXTE		17.90	38.94	56.84	1.00	03	01	8	XX
034 TOTAL >LIGHTING SYSTEM							173.40	1309.18	1482.58					
042 TITLE > COOLING SYSTEM														
042-000-000	05112015	2029515	12820	12815	COOLING SYSTEM		13.90	47.63	61.53	1.50	04	01	4	XX
042-004-000	03302017	2032189	15140	15141	FAN BELT REPLACEME		16.20	169.75	185.95	5.00	04	01	4	XX
042 TOTAL >COOLING SYSTEM							30.10	217.38	247.48					
052 TITLE > ELECTRICAL ACCESSRES														
052-000-000	03212012	2024920	10830	10836	ELECTRICAL ACCESSR		98.13	67.32	165.45	2.00	0000000003			
052-000-000	01212012	2024637	15710	15717	ELECTRICAL ACCESSR		0.00	91.59	91.59	2.00	0000000004			
052-000-000	01192012	2024624	0	0	ELECTRICAL ACCESSR		7.19	67.32	74.51	2.00	0000000003			
052 TOTAL >ELECTRICAL ACCESSRES							105.32	226.23	331.55					
053 TITLE > EXPENDABLE ITEMS														

053-000-000	05282019	2034811	16240	16244	EXPENDABLE ITEMS	354.68	64.08	418.76	2.00	06	01	8 XX
053-000-000	04252018	2033639	15520	15515	EXPENDABLE ITEMS	412.46	135.80	548.26	4.00	04	01	8 XX

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053-000-000	02282017	2032075	14890	14885	EXPENDABLE ITEMS		337.49	67.90	405.39	2.00	04	01	4	XX
053-000-000	03012017	2032074	14910	14907	EXPENDABLE ITEMS		116.12	33.95	150.07	1.00	04	01	4	XX
053-000-000	06292016	2031139	14530	14526	EXPENDABLE ITEMS		336.23	66.24	402.47	2.00	04	01	4	XX
053-000-000	05132016	2030983	14220	14222	EXPENDABLE ITEMS		336.23	66.24	402.47	2.00	04	01	4	XX
053-000-000	06112015	2029602	12900	12900	EXPENDABLE ITEMS		455.33	47.63	502.96	1.50	04	01	11	XX
053-000-000	06172015	2029586	12900	12900	EXPENDABLE ITEMS		0.00	63.50	63.50	2.00	04	01	10	XX
053-000-000	04282015	2029558	12730	12727	EXPENDABLE ITEMS		338.33	31.75	370.08	1.00	04	01	11	XX
053-000-000	05222015	2029504	12890	12885	EXPENDABLE ITEMS		117.00	31.75	148.75	1.00	04	01	4	XX
053-002-000	08172021	2036606	19430	19433	REPLACE SWEEPER WE		12.24	812.24	824.48	22.00	04	01	8	XX
053-002-000	04042021	2036405	16750	16747	REPLACE SWEEPER WE		0.00	0.00	0.00	0.00	07	01	8	XX
053-002-000	05132019	2034722	16150	16151	REPLACE SWEEPER WE		124.29	67.28	191.57	2.00	05	01	8	XX
053-002-000	07182016	2031195	14550	14545	REPLACE SWEEPER WE		116.12	29.33	145.45	1.00	05	01	4	XX
053-002-000	05272016	2031003	19340	19343	REPLACE SWEEPER WE		129.96	61.73	191.69	2.00	04	01	4	XX
053-002-000	04082016	2030854	19430	19433	REPLACE SWEEPER WE		116.72	11.21	127.93	0.50	07	01	4	XX
053-002-000	03292016	2030783	13900	13895	REPLACE SWEEPER WE		336.23	60.37	396.60	2.00	06	01	4	XX
053-002-000	03242016	2030773	19430	19433	REPLACE SWEEPER WE		116.72	11.21	127.93	0.50	07	01	4	XX
053-002-000	03182016	2030753	13830	13827	REPLACE SWEEPER WE		116.72	27.25	143.97	1.00	05	01	4	XX
053-002-000	09112015	2030007	13390	13391	REPLACE SWEEPER WE		115.80	24.88	140.68	1.00	06	01	4	XX
053-002-000	08212015	2029921	13370	13367	REPLACE SWEEPER WE		256.40	49.76	306.16	2.00	05	01	4	XX
053-002-000	07072015	2029773	13170	13165	REPLACE SWEEPER WE		115.80	24.88	140.68	1.00	06	01	4	XX
053-002-000	04242015	2029424	12640	12638	REPLACE SWEEPER WE		117.00	35.01	152.01	1.00	03	01	4	XX
053-002-000	03162015	2029359	12600	12603	REPLACE SWEEPER WE		274.57	825.50	1100.07	26.00	04	01	8	XX
053 TOTAL >EXPENDABLE ITEMS							4752.44	2649.49	7401.93					
065 TITLE > HYDRAULIC SYSTEMS														
065-001-000	08242021	2036620	16900	16898	HYDRAULIC OIL ADD		0.00	0.00	0.00	0.00	09	01	8	XX
065-006-000	07252022	2037197	19430	19433	HYD HOSE/FITTINGS		323.99	590.72	914.71	16.00	04	01	8	XX
065-018-000	06172021	2036541	16850	16848	HYDRAULIC VALVE		897.45	1428.00	2325.45	60.00	09	01	8	XX
065 TOTAL >HYDRAULIC SYSTEMS							1221.44	2018.72	3240.16					
066 TITLE > PREVENTIVE MAINTENAN														
066-000-000	03192019	2033738	19430	19433	PREVENTIVE MAINTEN		1546.31	821.24	2367.55	28.00	06	01	8	XX
066-000-000	06112018	2033737	15740	15742	PREVENTIVE MAINTEN		87.84	351.96	439.80	12.00	06	01	8	XX
066-000-000	03162015	2029359	12600	12603	PREVENTIVE MAINTEN		52.67	254.00	306.67	8.00	04	01	8	XX
066-001-000	0[illegible]2021	2036484	19430	19433	PM-A		34.67	103.17	137.84	3.00	06	01	8	XX
066-001-000	0[illegible]2013	2027230	11860	11861	PM-A		81.52	199.07	280.59	8.00	0000000			

066-001-000	10302012	2025958	11420	11428	PM-A	273.31	134.64	407.95	4.00 0000000003
066-001-000	04182012	2025079	11110	11116	PM-A	421.44	113.90	535.34	5.00 0000000006

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066-001-000	02132012	2024795	0	0	PM-A		42.35	46.85	89.20	2.50	0000000007			
066-001-000	06292011	2023834	10440	10440	PM-A		48.64	132.50	181.14	5.50	0000000004			
066-001-000	06282011	2023827	11520	11524	PM-A		114.07	79.28	193.35	4.00	0000000008			
066-001-000	03242011	2023427	10000	10005	PM-A		1379.06	361.35	1740.41	15.00	0000000004			
066-001-000	06232010	2022046	9690	9693	PM-A		98.00	156.59	254.59	6.50	0000000004			
066-001-000	04132010	2021767	5160	5162	PM-A		80.70	158.56	239.26	8.00	0000000008			
066-001-000	01252010	2021343	0	0	PM-A		72.27	39.64	111.91	2.00	0000000008			
066-001-000	06292009	2020257	8960	8964	PM-A		59.01	26.57	85.58	1.00	0000000003			
066-001-000	02262009	2019742	8490	8497	PM-A		172.88	144.54	317.42	6.00	0000000004			
066-001-000	04282008	2018821	0	0	PM-A		66.79	72.27	139.06	3.00	0000000005			
066-001-000	03262008	2018706	7710	7716	PM-A		78.88	69.37	148.25	3.50	0000000006			
066-001-000	01182008	2018468	219880	219881	PM-A		995.56	426.13	1421.69	21.50	0000000008			
066-001-000	05172007	2017835	7330	7339	PM-A		152.01	289.08	441.09	12.00	0000000004			
066-001-000	01112007	2017388	0	0	PM-A		552.09	192.72	744.81	8.00	0000000005			
066-001-000	02272006	2016293	5280	5288	PM-A		179.68	96.36	276.04	4.00	0000000005			
066-001-000	04272005	2015518	4020	4026	PM-A		141.01	79.28	220.29	4.00	0000000008			
066-001-000	03082005	2015359	3400	3401	PM-A		118.11	144.54	262.65	6.00	0000000005			
066-001-000	08122004	2014776	3080	3089	PM-A		78.21	96.36	174.57	4.00	0000000005			
066-001-000	05192004	2014497	2530	2535	PM-A		366.90	72.27	439.17	3.00	0000000005			
066-001-000	03262004	2014333	1860	1868	PM-A		47.24	26.57	73.81	1.00	0000000003			
066-001-000	10292003	2013922	1150	1155	PM-A		60.91	36.14	97.05	1.50	0000000005			
066-001-000	05192003	2013470	890	891	PM-A		311.41	24.09	335.50	1.00	0000000005			
066-001-000	04092003	2013341	500	509	PM-A		56.41	48.18	104.59	2.00	0000000004			
066-002-000	03012016	2030683	13700	13698	PM-B		84.56	518.18	602.74	16.00	05	XX	8	XX
066-002-000	05052006	2016601	0	0	PM-B		22.86	29.73	52.59	1.50	0000000008			
066-002-000	04072005	2015468	3780	3788	PM-B		16.77	72.27	89.04	3.00	0000000005			
066-002-000	04292003	2013410	0	0	PM-B		75.47	24.09	99.56	1.00	0000000005			
066 TOTAL >PREVENTIVE MAINTENAN							7969.61	5441.49	13411.10					
099 TITLE > ROAD CALL TRAVEL TIM														
099-000-000	05022014	2028406	12240	12245	ROAD CALL TRAVEL T		117.00	49.77	166.77	2.00	0000000005			
099-000-000	04292014	2028377	0	0	ROAD CALL TRAVEL T		0.00	35.01	35.01	1.00	0000000003			
099-000-000	04142014	2028319	12070	12078	ROAD CALL TRAVEL T		117.00	24.88	141.88	1.00	0000000005			
099-000-000	05292013	2026900	11800	11802	ROAD CALL TRAVEL T		117.00	22.78	139.78	1.00	0000000005			
099-000-000	[illegible]2013	2026859	0	0	ROAD CALL TRAVEL T		0.00	33.66	33.66	1.00	000000[illegible]			
099-000-000	[illegible]2013	2026767	11540	11543	ROAD CALL TRAVEL T		17.32	274.77	292.09	9.00	000000[illegible]			

099-000-000	08172012	2025608	11270	11270 ROAD CALL TRAVEL T	0.00	22.78	22.78	1.00 0000000005
099-000-000	08162012	2025598	11260	11268 ROAD CALL TRAVEL T	0.00	22.78	22.78	1.00 0000000005

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099-000-000	08152012	2025597	11260	11267	ROAD CALL TRAVEL T		0.00	45.56	45.56	2.00	0000000006			
099-000-000	08142012	2025593	11250	11256	ROAD CALL TRAVEL T		117.00	22.78	139.78	1.00	0000000005			
099-000-000	05082012	2025159	11210	11212	ROAD CALL TRAVEL T		0.00	182.24	182.24	8.00	0000000005			
099-000-000	05072012	2025149	0	0	ROAD CALL TRAVEL T		0.00	22.78	22.78	1.00	0000000005			
099-000-000	04232012	2025097	11140	11141	ROAD CALL TRAVEL T		0.00	22.78	22.78	1.00	0000000006			
099-000-000	03282012	2024981	0	0	ROAD CALL TRAVEL T		0.00	30.53	30.53	1.00	0000000004			
099-000-000	03052012	2024835	10650	10656	ROAD CALL TRAVEL T		23.00	45.56	68.56	2.00	0000000006			
099-000-000	03012012	2024809	10610	10616	ROAD CALL TRAVEL T		0.00	30.53	30.53	1.00	0000000004			
099-000-000	02222012	2024785	10600	10604	ROAD CALL TRAVEL T		0.00	22.78	22.78	1.00	0000000005			
099-000-000	10202011	2024275	0	0	ROAD CALL TRAVEL T		0.00	53.14	53.14	2.00	0000000003			
099-000-000	10182011	2024271	10570	10571	ROAD CALL TRAVEL T		0.00	19.82	19.82	1.00	0000000008			
099-000-000	10032011	2024215	0	0	ROAD CALL TRAVEL T		0.00	24.09	24.09	1.00	0000000005			
099-000-000	05022011	2023604	0	0	ROAD CALL TRAVEL T		0.00	39.64	39.64	2.00	0000000008			
099-000-000	04262011	2023547	0	0	ROAD CALL TRAVEL T		0.00	39.64	39.64	2.00	0000000008			
099-000-000	04272011	2023546	10330	10332	ROAD CALL TRAVEL T		5.00	24.09	29.09	1.00	0000000004			
099-000-000	03282011	2023404	10020	10024	ROAD CALL TRAVEL T		540.36	96.36	636.72	4.00	0000000005			
099-000-000	03292011	2023392	1840	1842	ROAD CALL TRAVEL T		92.00	24.09	116.09	1.00	0000000005			
099-000-000	03142011	2023364	9920	9926	ROAD CALL TRAVEL T		0.00	19.82	19.82	1.00	0000000008			
099-000-000	06042010	2021960	0	0	ROAD CALL TRAVEL T		0.00	48.18	48.18	2.00	0000000005			
099-000-000	05242010	2021889	9670	9673	ROAD CALL TRAVEL T		92.00	36.14	128.14	1.50	0000000004			
099-000-000	09012009	2020643	0	0	ROAD CALL TRAVEL T		0.00	26.57	26.57	1.00	0000000003			
099-000-000	08252009	2020575	9150	9157	ROAD CALL TRAVEL T		0.00	19.82	19.82	1.00	0000000008			
099-000-000	03312009	2019824	8840	8849	ROAD CALL TRAVEL T		0.00	72.27	72.27	3.00	0000000004			
099-000-000	03182009	2019789	0	0	ROAD CALL TRAVEL T		3.00	29.73	32.73	1.50	0000000006			
099-000-000	05142008	2018841	0	0	ROAD CALL TRAVEL T		24.68	72.27	96.95	3.00	0000000005			
099-000-000	04252008	2018785	8040	8042	ROAD CALL TRAVEL T		84.00	48.18	132.18	2.00	0000000005			
099-000-000	03272008	2018709	0	0	ROAD CALL TRAVEL T		84.00	48.18	132.18	2.00	0000000005			
099-000-000	03062008	2018673	7560	7569	ROAD CALL TRAVEL T		84.00	48.18	132.18	2.00	0000000005			
099-000-000	02212008	2018610	7500	7500	ROAD CALL TRAVEL T		236.98	29.73	266.71	1.50	0000000008			
099-000-000	05072007	2017821	7280	7282	ROAD CALL TRAVEL T		84.00	48.18	132.18	2.00	0000000005			
099-000-000	04172007	2017758	7060	7068	ROAD CALL TRAVEL T		0.00	24.09	24.09	1.00	0000000004			
099-000-000	04102007	2017713	7000	7002	ROAD CALL TRAVEL T		84.00	48.18	132.18	2.00	0000000005			
099-000-000	03052007	2017604	6710	6713	ROAD CALL TRAVEL T		175.14	144.54	319.68	6.00	0000000004			
099-000-000	06122006	2016703	6350	6350	ROAD CALL TRAVEL T		26.75	39.64	66.39	2.00	0000000008			
099-000-000	0[illegible]2006	2016511	0	0	ROAD CALL TRAVEL T		0.00	26.57	26.57	1.00	000000[illegible]			
099-000-000	0[illegible]2006	2016465	5710	5713	ROAD CALL TRAVEL T		0.00	48.18	48.18	2.00	000000[illegible]			

099-000-000	07252005	2015863	0	0	ROAD CALL TRAVEL T	84.00	19.82	103.82	1.00 0000000006
099-000-000	06012005	2015651	4340	4345	ROAD CALL TRAVEL T	0.00	29.73	29.73	1.50 0000000008

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VMRS CODE	DATE	WO NUM	LF-MILS ODOM		WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
099-000-000	05232005	2015616	4300	4309	ROAD CALL TRAVEL T		0.00	24.09	24.09	1.00	0000000005			
099-000-000	05132005	2015603	4210	4214	ROAD CALL TRAVEL T		0.00	49.55	49.55	2.50	0000000008			
099-000-000	05102005	2015592	4150	4159	ROAD CALL TRAVEL T		84.00	19.82	103.82	1.00	0000000006			
099-000-000	04052005	2015473	3750	3756	ROAD CALL TRAVEL T		84.00	48.18	132.18	2.00	0000000005			
099-000-000	04072005	2015468	3780	3788	ROAD CALL TRAVEL T		0.00	24.09	24.09	1.00	0000000005			
099-000-000	08042004	2014775	3050	3055	ROAD CALL TRAVEL T		84.00	24.09	108.09	1.00	0000000004			
099-000-000	07012004	2014654	2890	2898	ROAD CALL TRAVEL T		84.00	48.18	132.18	2.00	0000000005			
099-000-000	06162004	2014647	2710	2711	ROAD CALL TRAVEL T		84.00	48.18	132.18	2.00	0000000005			
099-000-000	06232004	2014636	2820	2827	ROAD CALL TRAVEL T		0.00	39.64	39.64	2.00	0000000008			
099-000-000	06032004	2014542	2680	2682	ROAD CALL TRAVEL T		23.00	29.73	52.73	1.50	0000000008			
099-000-000	05212004	2014503	2550	2553	ROAD CALL TRAVEL T		0.00	48.18	48.18	2.00	0000000005			
099-000-000	05052004	2014467	2310	2317	ROAD CALL TRAVEL T		78.00	48.18	126.18	2.00	0000000005			
099-000-000	05062004	2014462	2350	2354	ROAD CALL TRAVEL T		26.75	36.14	62.89	1.50	0000000004			
099-000-000	04212004	2014402	2150	2152	ROAD CALL TRAVEL T		0.00	24.09	24.09	1.00	0000000004			
099-000-000	06032003	2013489	1010	1013	ROAD CALL TRAVEL T		78.00	19.82	97.82	1.00	0000000006			
099-000-000	04232003	2013384	670	674	ROAD CALL TRAVEL T		0.00	24.09	24.09	1.00	0000000005			
099-001-000	07052022	2037208	19430	19433	ROAD SERVICE ROAD		18.39	147.68	166.07	4.00	04	01	8	XX
099-001-000	06012020	2035824	19430	19433	ROAD SERVICE ROAD		124.51	26.95	151.46	1.00	07	01	8	XX
099-001-000	06072019	2034906	19430	19433	ROAD SERVICE ROAD		0.00	26.36	26.36	1.00	07	01	8	XX
099-001-000	05232019	2034848	19430	19433	ROAD SERVICE ROAD		124.29	26.36	150.65	1.00	07	01	8	XX
099-001-000	05302019	2034839	19430	19433	ROAD SERVICE ROAD		0.00	26.36	26.36	1.00	07	01	8	XX
099-001-000	06032019	2034836	19430	19433	ROAD SERVICE ROAD		124.29	39.54	163.83	1.50	07	01	8	XX
099-001-000	05032019	2034765	19430	19433	ROAD SERVICE ROAD		0.00	26.36	26.36	1.00	07	01	8	XX
099-001-000	05092019	2034709	19430	19433	ROAD SERVICE ROAD		26.00	77.88	103.88	2.00	03	01	8	XX
099-001-000	05022019	2034696	16080	16084	ROAD SERVICE ROAD		122.43	70.64	193.07	2.00	04	01	8	XX
099-001-000	04182019	2034681	15980	15979	ROAD SERVICE ROAD		122.43	35.32	157.75	1.00	04	01	8	XX
099-001-000	04122019	2034652	19430	19433	ROAD SERVICE ROAD		0.00	26.36	26.36	1.00	07	01	8	XX
099-001-000	04052019	2034596	19430	19433	ROAD SERVICE ROAD		0.00	77.88	77.88	2.00	03	01	8	XX
099-001-000	03262019	2034581	19430	19433	ROAD SERVICE ROAD		0.00	52.72	52.72	2.00	07	01	8	XX
099-001-000	09072017	2032311	19430	19433	ROAD SERVICE ROAD		1029.86	685.23	1715.09	21.00	05	01	10	XX
099-001-000	04052017	2032237	19430	19433	ROAD SERVICE ROAD		116.71	24.12	140.83	1.00	07	01	10	XX
099-001-000	03222017	2032173	19430	19433	ROAD SERVICE ROAD		116.12	24.12	140.24	1.00	07	01	10	XX
099-001-000	02062017	2032056	19430	19433	ROAD SERVICE ROAD		116.12	24.12	140.24	1.00	07	01	10	XX
099-001-000	09132016	2031322	19430	19433	ROAD SERVICE ROAD		116.12	37.43	153.55	1.00	03	01	12	XX
099-001-000	[illegible]2016	2031200	19430	19433	ROAD SERVICE ROAD		0.00	58.66	58.66	2.00	05	01	10	XX
099-001-000	[illegible]2016	2031026	19430	19433	ROAD SERVICE ROAD		185.00	57.22	242.22	2.00	05	01	10	XX

099-001-000	0[illegible]12016	2031008	14380	14379 ROAD SERVICE ROAD	115.57	28.61	144.18	1.00	05	01 10 XX
099-001-000	05192016	2030992	19430	19433 ROAD SERVICE ROAD	115.57	28.61	144.18	1.00	05	01 10 XX

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: h24
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: h24

UNIT: H24 LF MTR: 19433.0 CUR MTR: 19433.0 YR: 02 MAKE: ELGIN DEPT: PW SIZE: H CLASS: SWEEPER FUEL: D

VMRS CODE	DATE	WO NUM	LF-MILS ODOM		WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
099-001-000	05122016	2030981	14200	14196	ROAD SERVICE ROAD		0.00	49.68	49.68	1.50	04	01	10	XX
099-001-000	05042016	2030954	19430	19433	ROAD SERVICE ROAD		115.57	16.81	132.38	0.75	07	01	10	XX
099-001-000	05062016	2030950	19430	19433	ROAD SERVICE ROAD		0.00	22.41	22.41	1.00	07	01	10	XX
099-001-000	04282016	2030926	19430	19433	ROAD SERVICE ROAD		0.00	33.62	33.62	1.50	07	01	10	XX
099-001-000	04252016	2030903	19430	19433	ROAD SERVICE ROAD		115.57	22.41	137.98	1.00	07	01	10	XX
099-001-000	04182016	2030873	14030	14025	ROAD SERVICE ROAD		77.43	180.68	258.11	6.00	04	01	10	XX
099-001-000	04062016	2030812	13950	13954	ROAD SERVICE ROAD		294.80	190.75	485.55	7.00	05	01	4	XX
099-001-000	05202015	2030131	13620	13616	ROAD SERVICE ROAD		250.00	49.76	299.76	2.00	05	01	10	XX
099-001-000	09252015	2030055	13620	13616	ROAD SERVICE ROAD		115.80	37.32	153.12	1.50	06	01	10	XX
099-001-000	09232015	2030052	4460	4455	ROAD SERVICE ROAD		0.00	37.32	37.32	1.50	06	01	10	XX
099-001-000	08262015	2029955	13390	13391	ROAD SERVICE ROAD		115.80	24.88	140.68	1.00	05	01	10	XX
099-001-000	07022015	2029764	13170	13165	ROAD SERVICE ROAD		0.00	10.24	10.24	0.50	07	01	10	XX
099-001-000	07172015	2029728	13170	13165	ROAD SERVICE ROAD		117.00	24.88	141.88	1.00	05	01	10	XX
099-001-000	06172015	2029586	12900	12900	ROAD SERVICE ROAD		0.00	31.75	31.75	1.00	04	01	10	XX
099-001-000	06042015	2029542	12890	12885	ROAD SERVICE ROAD		0.00	20.47	20.47	1.00	07	01	4	XX
099-001-000	05062015	2029484	12640	12638	ROAD SERVICE ROAD		117.00	20.47	137.47	1.00	07	01	10	XX
099-001-000	04152015	2029407	12640	12638	ROAD SERVICE ROAD		0.00	24.88	24.88	1.00	05	01	4	XX
099-002-000	01022010	2021222	0	0	PLOWS (BLADES/SHOE		9.96	24.09	34.05	1.00	0000000005			
099-002-000	12192008	2019506	0	0	PLOWS (BLADES/SHOE		0.00	24.09	24.09	1.00	0000000004			
099-003-000	02212011	2023229	0	0	SPREADERS		0.00	108.41	108.41	3.00	0000000005			
099-004-000	05102018	2033674	15680	15676	SWING DRIVE CASE		120.56	33.95	154.51	1.00	04	01	8	XX
099-007-000	06022014	2028524	12500	12500	ONSPOTS ONSPOT INS		9.06	111.16	120.22	3.50	0000000004			
099-007-000	05162014	2028483	0	0	ONSPOTS ONSPOT INS		72.68	40.94	113.62	2.00	0000000007			
099-007-000	04302014	2028379	0	0	ONSPOTS ONSPOT INS		0.00	70.03	70.03	2.00	0000000003			
099-007-000	04232014	2028343	12160	12165	ONSPOTS ONSPOT INS		256.40	74.65	331.05	3.00	0000000005			
099-007-000	03182014	2028229	0	0	ONSPOTS ONSPOT INS		10.91	61.42	72.33	3.00	0000000007			
099-007-000	05092013	2026867	0	0	ONSPOTS ONSPOT INS		117.00	46.85	163.85	2.50	0000000007			
099-007-000	03272013	2026605	11440	11442	ONSPOTS ONSPOT INS		67.83	122.12	189.95	4.00	0000000004			
099-007-000	04012013	2026599	11450	11458	ONSPOTS ONSPOT INS		0.00	67.32	67.32	2.00	0000000003			
099-007-000	04042013	2026590	0	0	ONSPOTS ONSPOT INS		49.74	84.15	133.89	2.50	0000000003			
099-007-000	03252013	2026583	11440	11441	ONSPOTS ONSPOT INS		192.80	227.80	420.60	10.00	0000000006			
099-007-000	12122012	2026095	0	0	ONSPOTS ONSPOT INS		64.90	33.66	98.56	1.00	0000000003			
099-007-000	08082012	2025569	11220	11225	ONSPOTS ONSPOT INS		625.59	22.78	648.37	1.00	0000000005			
099-007-000	04182012	2025078	11100	11109	ONSPOTS ONSPOT INS		278.79	68.34	347.13	3.00	0000000006			
099-007-000	[illegible]2012	2025043	0	0	ONSPOTS ONSPOT INS		0.00	28.11	28.11	1.50	000000[illegible]7			
099-007-000	[illegible]2012	2024786	10600	10609	ONSPOTS ONSPOT INS		10.98	182.24	193.22	8.00	000000[illegible]6			

099-007-000	01172012	2024618	0	0	ONSPOTS	ONSPOT INS		7.98	33.66	41.64	1.00 0000000003
099-007-000	12072011	2024496	14900	14909	ONSPOTS	ONSPOT INS		26.34	22.78	49.12	1.00 0000000005

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UNIT: H24 LF MTR: 19433.0 CUR MTR: 19433.0 YR: 02 MAKE: ELGIN DEPT: PW SIZE: H CLASS: SWEEPER FUEL: D

VMRS CODE	DATE	WO NUM	LF-MILS ODOM		WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WF
099-007-000	10282011	2024398	14150	14156	ONSPOTS ONSPOT INS		0.00	29.73	29.73	1.50	0000000008			
099-007-000	10112011	2024245	0	0	ONSPOTS ONSPOT INS		14.64	19.82	34.46	1.00	0000000008			
099-007-000	07202011	2023899	0	0	ONSPOTS ONSPOT INS		0.00	26.57	26.57	1.00	0000000003			
099-007-000	06102011	2023753	11220	11223	ONSPOTS ONSPOT INS		8.27	26.57	34.84	1.00	0000000003			
099-007-000	05112011	2023624	10420	10427	ONSPOTS ONSPOT INS		20.00	192.72	212.72	8.00	0000000004			
099-007-000	05032011	2023568	0	0	ONSPOTS ONSPOT INS		3.62	26.57	30.19	1.00	0000000003			
099-007-000	04052011	2023502	10150	10155	ONSPOTS ONSPOT INS		10.90	72.27	83.17	3.00	0000000005			
099-007-000	03292011	2023434	0	0	ONSPOTS ONSPOT INS		282.00	96.36	378.36	4.00	0000000005			
099-007-000	03112011	2023318	9700	9700	ONSPOTS ONSPOT INS		22.20	168.63	190.83	7.00	0000000004			
099-007-000	03042011	2023311	9840	9842	ONSPOTS ONSPOT INS		66.40	24.09	90.49	1.00	0000000004			
099-007-000	01122011	2023047	0	0	ONSPOTS ONSPOT INS		5.99	9.91	15.90	0.50	0000000008			
099-007-000	01192011	2023029	8680	8680	ONSPOTS ONSPOT INS		5.00	24.09	29.09	1.00	0000000004			
099-007-000	01282011	2022992	9270	9278	ONSPOTS ONSPOT INS		0.00	29.73	29.73	1.50	0000000008			
099-007-000	12272010	2022893	7820	7824	ONSPOTS ONSPOT INS		16.54	36.14	52.68	1.50	0000000005			
099-007-000	11222010	2022710	0	0	ONSPOTS ONSPOT INS		36.13	72.27	108.40	3.00	0000000005			
099-007-000	10122010	2022530	6980	6983	ONSPOTS ONSPOT INS		0.00	48.18	48.18	2.00	0000000004			
099-007-000	09162010	2022379	0	0	ONSPOTS ONSPOT INS		1.74	24.09	25.83	1.00	0000000005			
099-007-000	09012010	2022353	9730	9735	ONSPOTS ONSPOT INS		223.99	106.28	330.27	4.00	0000000003			
099-007-000	07152010	2022147	6360	6365	ONSPOTS ONSPOT INS		13.53	19.82	33.35	1.00	0000000008			
099-007-000	06072010	2021950	6220	6221	ONSPOTS ONSPOT INS		27.37	48.18	75.55	2.00	0000000004			
099-007-000	04192010	2021788	9510	9510	ONSPOTS ONSPOT INS		315.99	24.09	340.08	1.00	0000000005			
099-007-000	04192010	2021787	9510	9510	ONSPOTS ONSPOT INS		0.00	19.82	19.82	1.00	0000000008			
099-007-000	03222010	2021660	9400	9400	ONSPOTS ONSPOT INS		84.00	9.91	93.91	0.50	0000000008			
099-007-000	03192010	2021643	9370	9378	ONSPOTS ONSPOT INS		0.00	24.09	24.09	1.00	0000000004			
099-007-000	02182010	2021476	0	0	ONSPOTS ONSPOT INS		8.27	29.73	38.00	1.50	0000000006			
099-007-000	10162009	2021382	9230	9235	ONSPOTS ONSPOT INS		937.99	674.52	1612.51	28.00	0000000004			
099-007-000	01262010	2021355	0	0	ONSPOTS ONSPOT INS		0.00	19.82	19.82	1.00	0000000008			
099-007-000	10302009	2021336	9230	9234	ONSPOTS ONSPOT INS		1713.51	1397.22	3110.73	58.00	0000000004			
099-007-000	01052010	2021254	0	0	ONSPOTS ONSPOT INS		0.00	72.27	72.27	3.00	0000000005			
099-007-000	10232009	2020754	0	0	ONSPOTS ONSPOT INS		0.00	53.14	53.14	2.00	0000000003			
099-007-000	09032009	2020642	9210	9214	ONSPOTS ONSPOT INS		0.00	144.54	144.54	6.00	0000000004			
099-007-000	08282009	2020585	0	0	ONSPOTS ONSPOT INS		65.83	24.09	89.92	1.00	0000000005			
099-007-000	07272009	2020498	3290	3297	ONSPOTS ONSPOT INS		0.00	192.72	192.72	8.00	0000000004			
099-007-000	07242009	2020473	0	0	ONSPOTS ONSPOT INS		29.23	9.91	39.14	0.50	0000000008			
099-007-000	[illegible]2009	2020268	0	0	ONSPOTS ONSPOT INS		0.00	39.85	39.85	1.50	000000[illegible]3			
099-007-000	[illegible]12009	2019824	8840	8849	ONSPOTS ONSPOT INS		0.00	48.18	48.18	2.00	000000[illegible]4			

099-007-000 01052009 2019533	1540	1545	ONSPOTS	ONSPOT INS	135.26	59.46	194.72	3.00	0000000008
099-007-000 12192008 2019501	0	0	ONSPOTS	ONSPOT INS	0.00	24.09	24.09	1.00	0000000004

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: h24
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UNIT: H24 LF MTR: 19433.0 CUR MTR: 19433.0 YR: 02 MAKE: ELGIN DEPT: PW SIZE: H CLASS: SWEEPER FUEL: D

VMRS CODE	DATE	WO NUM	LF-MILS ODOM		WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
099-007-000	12112008	2019453	1090	1099	ONSPOTS ONSPOT INS		0.00	144.54	144.54	6.00	000C000004			
099-007-000	06052008	2018892	0	0	ONSPOTS ONSPOT INS		538.31	96.36	634.67	4.00	000C000005			
099-007-000	05272008	2018870	8290	8295	ONSPOTS ONSPOT INS		77.46	144.54	222.00	6.00	000C000004			
099-007-000	05202008	2018858	8250	8258	ONSPOTS ONSPOT INS		0.99	19.82	20.81	1.00	000C000008			
099-007-000	05202008	2018857	8260	8262	ONSPOTS ONSPOT INS		65.83	59.46	125.29	3.00	000C000008			
099-007-000	04142008	2018784	7880	7880	ONSPOTS ONSPOT INS		0.00	29.73	29.73	1.50	000C000008			
099-007-000	04102008	2018761	7870	7877	ONSPOTS ONSPOT INS		0.00	79.28	79.28	4.00	000C000008			
099-007-000	03182008	2018634	7680	7682	ONSPOTS ONSPOT INS		5.78	39.64	45.42	2.00	000C000008			
099-007-000	06272007	2017931	2200	2208	ONSPOTS ONSPOT INS		0.00	24.09	24.09	1.00	0000000004			
099-007-000	05012007	2017819	7240	7244	ONSPOTS ONSPOT INS		0.00	39.64	39.64	2.00	0000000008			
099-007-000	04242007	2017804	7160	7168	ONSPOTS ONSPOT INS		613.28	39.64	652.92	2.00	0000000008			
099-007-000	03262007	2017667	6840	6847	ONSPOTS ONSPOT INS		66.40	13.28	79.68	0.50	0000000003			
099-007-000	03052007	2017620	6710	6713	ONSPOTS ONSPOT INS		0.00	39.64	39.64	2.00	0000000008			
099-007-000	03052007	2017619	6700	6703	ONSPOTS ONSPOT INS		66.40	19.82	86.22	1.00	0000000008			
099-007-000	01162007	2017472	0	0	ONSPOTS ONSPOT INS		0.00	49.55	49.55	2.50	0000000008			
099-007-000	01112007	2017393	0	0	ONSPOTS ONSPOT INS		9.80	79.28	89.08	4.00	0000000008			
099-007-000	11032006	2017299	6600	6605	ONSPOTS ONSPOT INS		0.00	96.36	96.36	4.00	0000000004			
099-007-000	07282006	2017024	6520	6528	ONSPOTS ONSPOT INS		84.00	39.64	123.64	2.00	0000000008			
099-007-000	05172006	2016888	6130	6138	ONSPOTS ONSPOT INS		84.00	19.82	103.82	1.00	0000000008			
099-007-000	06232006	2016802	6430	6438	ONSPOTS ONSPOT INS		0.00	39.64	39.64	2.00	0000000008			
099-007-000	06092006	2016715	6340	6340	ONSPOTS ONSPOT INS		26.75	48.18	74.93	2.00	0000000005			
099-007-000	06132006	2016712	6360	6366	ONSPOTS ONSPOT INS		301.03	96.36	397.39	4.00	0000000004			
099-007-000	06162006	2016693	6400	6406	ONSPOTS ONSPOT INS		84.00	19.82	103.82	1.00	0000000008			
099-007-000	03302006	2016471	5730	5733	ONSPOTS ONSPOT INS		710.10	60.23	770.33	2.50	0000000004			
099-007-000	01252006	2016249	5030	5034	ONSPOTS ONSPOT INS		110.39	96.36	206.75	4.00	0000000005			
099-007-000	07142005	2015760	0	0	ONSPOTS ONSPOT INS		20.45	26.57	47.02	1.00	0000000003			
099-007-000	04172005	2015543	3890	3893	ONSPOTS ONSPOT INS		0.00	29.73	29.73	1.50	0000000008			
099-007-000	03302005	2015450	0	0	ONSPOTS ONSPOT INS		19.19	19.93	39.12	0.75	0000000003			
099-007-000	02082005	2015275	3260	3265	ONSPOTS ONSPOT INS		26.75	24.09	50.84	1.00	0000000005			
099-007-000	04062004	2014341	1950	1957	ONSPOTS ONSPOT INS		26.75	24.09	50.84	1.00	0000000005			
099-007-000	09262003	2013802	0	0	ONSPOTS ONSPOT INS		0.00	19.82	19.82	1.00	0000000008			
099-007-000	06102003	2013585	1050	1051	ONSPOTS ONSPOT INS		288.60	49.55	338.15	2.50	0000000008			
099-007-000	06042003	2013487	1020	1022	ONSPOTS ONSPOT INS		76.50	48.18	124.68	2.00	0000000004			
099-007-000	02272003	2013233	110	115	ONSPOTS ONSPOT INS		105.82	19.82	125.64	1.00	0000000008			
099-007-000	[illegible]52003	2013224	110	114	ONSPOTS ONSPOT INS		121.46	39.64	161.10	2.00	000000[illegible]8			
099-008-000	[illegible]12021	2036405	16750	16747	GENERAL CHECK		307.52	1603.53	1911.05	59.50	07	01	8	XX

099-009-000	04072021	2036541	16850	16848	DIAGNOSIS		0.00	0.00	0.00	0.00		01 8 XX
099-009-000	04072011	2023510	10130	10134	DIAGNOSIS		0.00	48.18	48.18	2.00	0000000004	

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: h24
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: h24

UNIT: H24 LF MTR: 19433.0 CUR MTR: 19433.0 YR: 02 MAKE: ELGIN DEPT: PW SIZE: H CLASS: SWEEPER FUEL: D

VMRS CODE	DATE	WO NUM	LF-MILS ODOM		WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
099-010-000	08242021	2036620	16900	16898	FABRICATION/WELDIN		48.41	119.00	167.41	5.00	09	01	8	XX
099-010-000	04042021	2036405	16750	16747	FABRICATION/WELDIN		0.00	0.00	0.00	0.00	07	01	8	XX
099-010-000	06012018	2033729	19430	19433	FABRICATION/WELDIN		0.00	72.36	72.36	3.00	07	01	8	XX
099-010-000	04282015	2029558	12730	12727	FABRICATION/WELDIN		0.00	31.75	31.75	1.00	04	01	11	XX
099-010-000	01122012	2024708	15250	15258	FABRICATION/WELDIN		0.00	136.68	136.68	6.00	0000000005			
099-041-000	05182021	2036468	16800	16796	REPAIRS		0.00	40.43	40.43	1.50	07	01	8	XX
099-041-000	04232020	2035885	16670	16673	REPAIRS		577.94	343.90	921.84	10.00	06	01	8	XX
099-041-000	04232020	2035797	16550	16548	REPAIRS		0.00	34.39	34.39	1.00	06	01	8	XX
099-041-000	03312020	2035702	16380	16384	REPAIRS		53.36	433.32	486.68	12.00	04	01	8	XX
099-041-000	03302020	2035691	16410	16409	REPAIRS		124.29	34.39	158.68	1.00	05	01	8	XX
099-041-000	03272020	2035678	16380	16384	REPAIRS		372.50	577.76	950.26	16.00	04	01	8	XX
099-041-000	11142019	2035437	16380	16384	REPAIRS		183.75	830.53	1014.28	23.00	04	01	8	XX
099-041-000	04052019	2034596	19430	19433	REPAIRS		134.64	223.46	358.10	8.00	03	01	8	XX
099-041-000	03262019	2034581	19430	19433	REPAIRS		0.00	92.26	92.26	3.50	07	01	8	XX
099-041-000	03192019	2033912	19430	19433	REPAIRS		445.24	39.54	484.78	1.50	07	01	8	XX
099-041-000	03012018	2033613	19430	19433	REPAIRS		27.98	475.30	503.28	14.00	04	01	8	XX
099-041-000	03282018	2033579	19430	19433	REPAIRS		0.00	271.60	271.60	8.00	04	01	8	XX
099-041-000	02282018	2033497	19430	19433	REPAIRS		71.51	168.44	239.95	4.50	03	01	8	XX
099-041-000	10232017	2032908	15280	15280	REPAIRS		3.95	234.64	238.59	8.00	05	01	4	XX
099-041-000	02232017	2032078	14840	14837	REPAIRS		10.00	33.95	43.95	1.00	04	01	4	XX
099-041-000	03092016	2030731	13700	13698	REPAIRS		116.72	22.41	139.13	1.00	07	01	4	XX
099-041-000	02242016	2030672	13700	13698	REPAIRS		59.52	132.48	192.00	4.00	04	01	4	XX
099-064-000	10072021	2036502	19430	19433	EQUIPMENT INSTALL		138.34	36.92	175.26	1.00	04	01	8	XX
099-121-000	04052019	2034596	19430	19433	PARTS RUN		0.00	39.54	39.54	1.50	07	01	8	XX
099-121-000	03182019	2034586	19430	19433	PARTS RUN		0.00	65.90	65.90	2.50	07	01	8	XX
099-121-000	02242016	2030659	13620	13616	PARTS RUN		0.00	22.41	22.41	1.00	07	01	12	XX
099-121-000	03172015	2029295	12540	12540	PARTS RUN		0.00	61.41	61.41	3.00	07	01	4	XX
099 TOTAL >ROAD CALL TRAVEL TIM							18901.99	18564.39	37466.38					

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: h24
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: h24

METER : STANDARD SUBTOTALS OF VMRS CODES FOR DIVISION > AL PERIOD : LIFE

VMRS Code	QUANTITY	LABOR HRS	LABOR COST	PARTS COST	TOTAL COST	PERCENT	TOT COST /METER
001 A/C, HEAT, VENTILATION	70	104.00	2466.79	11767.80	14234.59	16.80 %	0.73250
002 CAB/SHEET METALS	1	2.00	49.76	144.60	194.36	0.23 %	0.01000
013 BRAKES	5	55.50	1450.22	4603.01	6053.23	7.14 %	0.31149
015 STEERING	1	4.00	144.44	0.00	144.44	0.17 %	0.00743
017 TIRES,TUBES,LINERS	1	2.00	73.02	453.43	526.45	0.62 %	0.02709
034 LIGHTING SYSTEM	3	41.00	1309.18	173.40	1482.58	1.75 %	0.07629
042 COOLING SYSTEM	2	6.50	217.38	30.10	247.48	0.29 %	0.01274
052 ELECTRICAL ACCESSRES	3	6.00	226.23	105.32	331.55	0.39 %	0.01706
053 EXPENDABLE ITEMS	24	80.50	2649.49	4752.44	7401.93	8.74 %	0.38089
065 HYDRAULIC SYSTEMS	3	76.00	2018.72	1221.44	3240.16	3.82 %	0.16673
066 PREVENTIVE MAINTENANCE	34	214.50	5441.49	7969.61	13411.10	15.83 %	0.69012
099 ROAD CALL TRAVEL TIME	225	700.50	18564.39	18901.99	37466.38	44.22 %	1.92798
TOTALS:	372	1292.50	34611.11	50123.14 TOT:	84734.25	100.00 %	4.36033

Service History by Vehicle

5 records

Town of Waterford - Public Works

Report generated on 11/16/2023 11:30 AM by Garon VanOverloop

Filters

Status: completed **Vehicle:** H9

Labor Cost	Parts Cost	Total Cost
$1,810.44	$5,906.36	$7,716.80

Vehicle

H9

Service Entry	Start Date	Completion Date	Primary Meter	Service Tasks	Resolved Issue Summary	Total Labor	Total Parts	Total Cost
19411302	08/24/2023 11:30 AM	08/29/2023 3:30 PM	105,980 mi	Engine Diagnosis • Fuel Injector Replacement	CEL	$138.42	$1,068.82	$1,207.24
17033423	03/29/2023	03/30/2023	104,133 mi	Air Injection System Inspect		$134.08	$89.15	$223.23
16179330	02/08/2023	02/17/2023 1:00 PM	103,749 mi	Wheel Spindle & Hub Replacement	LF hub, spindle	$0.00	$1,495.45	$1,495.45
16565968	02/01/2023 9:31 AM	02/03/2023	103,700 mi	Preventative Maintenance • Front Suspension System Inspect • Accessories/Upfitting (Miscellaneous) • Tires (Miscellaneous) • Engine (Miscellaneous)		$1,324.04	$2,580.20	$3,904.24
15892371	01/26/2023	01/31/2023 2:10 PM	103,694 mi	Re-inspection • Tire Replacement • Wheel Bearing Replacement		$213.90	$672.74	$886.64
					Total Amount	$1,810.44	$5,906.36	$7,716.80

DATE: 11/16/2023
TIME: 11:29 a.m.

TOWN OF WATERFORD
VEHICLE REPAIR HISTORY REPORT
FACILITY: 00001

ID: 1-32/RRV PAGE: 1

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: h9
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: h9

UNIT: H9 LF MTR: 100690.0 CUR MTR: 100690.0 YR: 11 MAKE: INTERNATIONAL DEPT: PW SIZE: O CLASS: STAKE BO FUEL: D

VMRS CODE	DATE	WO NUM	LF-MILS ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
001 TITLE > A/C, HEAT, VENTILATI													
001-000-000	06092015	2029595	30190 30193	A/C, HEAT, VENTILA		22.93	285.75	308.68	9.00	04	01	12	XX
001 TOTAL >A/C, HEAT, VENTILATI						22.93	285.75	308.68					
013 TITLE > BRAKES													
013-035-000	09242019	2035235	77390 77392	CHAMBER REAR		603.45	216.66	820.11	6.00	04	01	8	XX
013 TOTAL >BRAKES						603.45	216.66	820.11					
017 TITLE > TIRES,TUBES,LINERS													
017-003-000	06142016	2031056	38870 38870	TIRE CHANGE FRONT		0.00	28.61	28.61	1.00	06	01	10	XX
017 TOTAL >TIRES,TUBES,LINERS						0.00	28.61	28.61					
031 TITLE > CHARGING SYSTEM													
031-003-000	10222018	2034188	65420 65419	ALTERNATOR		159.00	116.82	275.82	3.00	03	01	8	XX
031 TOTAL >CHARGING SYSTEM						159.00	116.82	275.82					
032 TITLE > CRANKING SYSTEM													
032-002-000	10242018	2034184	65420 65419	BATTERY		343.38	64.08	407.46	2.00	06	01	8	XX
032-013-000	01212015	2028946	26910 26914	BATTERY TEST		0.00	12.44	12.44	0.50	05	01	4	XX
032 TOTAL >CRANKING SYSTEM						343.38	76.52	419.90					
034 TITLE > LIGHTING SYSTEM													
034-004-000	10222018	2034188	65420 65419	WIRING / REPAIR		0.00	128.16	128.16	4.00	06	01	8	XX
034-004-000	12012017	2032984	49680 49677	WIRING / REPAIR		161.82	112.29	274.11	3.00	03	01	10	XX
034 TOTAL >LIGHTING SYSTEM						161.82	240.45	402.27					
042 TITLE > COOLING SYSTEM													
042-001-000	08062019	2035047	74700 74700	COOLANT ADD		7.69	39.81	47.50	1.00	03	01	8	XX
042 TOTAL >COOLING SYSTEM						7.69	39.81	47.50					
044 TITLE > FUEL SYSTEM													
044-050-000	02062015	2028949	26990 26990	FUEL TANK STRAP		17.34	49.76	67.10	2.00	06	01	4	XX
044 TOTAL >FUEL SYSTEM						17.34	49.76	67.10					

045	TITLE > POWER PLANT/ENGINE										
045-011-000	01202022 2036880	97920	97920	VALVE COVER OR GAS	455.97	188.80	644.77	5.00	06	01	8 XX
045	TOTAL >POWER PLANT/ENGINE				455.97	188.80	644.77				
051	TITLE > GENERAL ACCESSORIES										
051-001-000	10242018 2034184	65420	65419	WASHER NOZZLE, W/S	211.28	192.24	403.52	6.00	06	01	8 XX

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: h9
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: h9

UNIT: H9 LF MTR: 100690.0 CUR MTR: 100690.0 YR: 11 MAKE: INTERNATIONAL DEPT: PW SIZE: O CLASS: STAKE BO FUEL: D

VMRS CODE	DATE	WO NUM	LF-MILS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
051 TOTAL >GENERAL ACCESSORIES							211.28	192.24	403.52					
052 TITLE > ELECTRICAL ACCESSRES														
052-000-000	01082021	2036206	77390	77392	ELECTRICAL ACCESSR		11.14	295.36	306.50	8.00	04	01	8	XX
052-000-000	07272015	2029817	31240	31243	ELECTRICAL ACCESSR		0.00	127.00	127.00	4.00	04	01	4	XX
052-000-000	11202012	2026026	12440	12448	ELECTRICAL ACCESSR		0.00	68.34	68.34	3.00	0000000005			
052-000-000	07162012	2025450	10010	10017	ELECTRICAL ACCESSR		65.56	91.12	156.68	4.00	0000000006			
052 TOTAL >ELECTRICAL ACCESSRES							76.70	581.82	658.52					
055 TITLE > CARGO HANDLING,LIFT														
055-001-000	11032016	2031609	43100	43104	POWER LIFT GATE		476.68	234.64	711.32	8.00	06	01	4	XX
055-001-000	01212015	2028946	26910	26914	POWER LIFT GATE		0.00	12.44	12.44	0.50	05	01	4	XX
055 TOTAL >CARGO HANDLING,LIFT							476.68	247.08	723.76					
066 TITLE > PREVENTIVE MAINTENAN														
066-000-000	04042018	2033620	58240	58244	PREVENTIVE MAINTEN		118.97	135.80	254.77	4.00	04	01	8	XX
066-001-000	05102022	2037109	100690	100690	PM-A		221.19	302.08	523.27	8.00	06	01	8	XX
066-001-000	11192021	2036771	96800	96799	PM-A		144.61	295.36	439.97	8.00	04	01	8	XX
066-001-000	07122021	2036558	93630	93628	PM-A		260.28	188.65	448.93	7.00	07	01	8	XX
066-001-000	06052020	2035894	77390	77392	PM-A		59.99	275.12	335.11	8.00	06	01	8	XX
066-001-000	02292020	2035484	77390	77392	PM-A		980.64	825.36	1806.00	24.00	05	01	8	XX
066-001-000	08132018	2033965	62360	62357	PM-A		454.19	192.24	646.43	6.00	05	01	8	XX
066-001-000	07012014	2028619	21690	21697	PM-A		139.41	158.80	298.21	5.00	0000000004			
066-001-000	11132013	2027578	18320	18320	PM-A		167.65	199.07	366.72	8.00	0000000006			
066-001-000	06272013	2027064	15470	15474	PM-A		166.88	91.12	258.00	4.00	0000000005			
066-002-000	07242019	2034995	74700	74700	PM-B		84.85	240.73	325.58	7.00	06	01	8	XX
066-002-000	08022019	2034345	74700	74700	PM-B		142.36	256.32	398.68	8.00	06	01	8	XX
066-002-000	10102017	2032869	49680	49677	PM-B		226.96	271.60	498.56	8.00	04	XX	8	XX
066-002-000	05242017	2032438	48860	48857	PM-B		134.70	67.90	202.60	2.00	04	XX	8	XX
066-002-000	10182016	2031506	42670	42665	PM-B		138.83	234.64	373.47	8.00	06	XX	8	XX
066-002-000	12102015	2030289	35590	35590	PM-B		157.51	149.28	306.79	6.00	06	XX	8	XX
066-002-000	08212015	2029922	32300	32295	PM-B		69.61	124.40	194.01	5.00	05	XX	8	XX
066-009-000	06172016	2031082	38860	38860	PM ANNUAL INSPECTI		133.86	198.72	332.58	6.00	04	01	8	XX
066 TOTAL >PREVENTIVE MAINTENAN							3802.49	4207.19	8009.68					
077 TITLE > FRAME AND SUPPORT														

077-005-000 01252022 2036891	97920	97920	KINGPIN	261.13	566.40	827.53	15.00	06	01 8	X)
077 TOTAL >FRAME AND SUPPORT				261.13	566.40	827.53				
099 TITLE > ROAD CALL TRAVEL TIM										
099-001-000 06202016 2031076	38880	38878	ROAD SERVICE ROAD	0.00	57.22	57.22	2.00	05	01 10	X)

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: h9
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: h9

UNIT: H9 LF MTR: 100690.0 CUR MTR: 100690.0 YR: 11 MAKE: INTERNATIONAL DEPT: PW SIZE: O CLASS: STAKE BO FUEL: D

VMRS CODE	DATE	WO NUM	LF-MILS ODOM		WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WF
099-001-000	06132016	2031048	38840	38839	ROAD SERVICE ROAD		0.00	28.61	28.61	1.00	05	01	10	XX
099-001-000	02012016	2030405	35940	35943	ROAD SERVICE ROAD		935.48	801.99	1737.47	29.00	04	01	10	XX
099-004-000	04092018	2033617	58470	58472	SWING DRIVE CASE		0.00	33.95	33.95	1.00	04	01	8	XX
099-007-000	07142014	2028654	0	0	ONSPOTS ONSPOT INS		4.55	30.71	35.26	1.50	0000000007			
099-007-000	11122013	2027557	0	0	ONSPOTS ONSPOT INS		54.21	122.83	177.04	6.00	0000000007			
099-007-000	11062013	2027514	0	0	ONSPOTS ONSPOT INS		0.00	99.54	99.54	4.00	0000000005			
099-007-000	09162013	2027380	0	0	ONSPOTS ONSPOT INS		0.00	74.65	74.65	3.00	0000000006			
099-007-000	10232012	2025947	11970	11975	ONSPOTS ONSPOT INS		22.46	122.12	144.58	4.00	0000000004			
099-007-000	09202012	2025778	11500	11509	ONSPOTS ONSPOT INS		0.00	22.78	22.78	1.00	0000000006			
099-007-000	08082012	2025587	10390	10398	ONSPOTS ONSPOT INS		1.50	9.37	10.87	0.50	0000000007			
099-007-000	06212012	2025354	9640	9646	ONSPOTS ONSPOT INS		0.00	7.63	7.63	0.25	0000000004			
099-007-000	06112012	2025321	0	0	ONSPOTS ONSPOT INS		13.95	56.22	70.17	3.00	0000000007			
099-007-000	05242012	2025232	8890	8893	ONSPOTS ONSPOT INS		0.68	67.32	68.00	2.00	0000000003			
099-007-000	03132012	2025062	8450	8450	ONSPOTS ONSPOT INS		0.29	33.66	33.95	1.00	0000000003			
099-007-000	04052012	2025024	0	0	ONSPOTS ONSPOT INS		5.00	9.37	14.37	0.50	0000000007			
099-007-000	12212011	2024527	0	0	ONSPOTS ONSPOT INS		0.29	33.66	33.95	1.00	0000000003			
099-009-000	06042020	2035910	77390	77392	DIAGNOSIS		0.00	137.56	137.56	4.00	06	01	8	XX
099-009-000	07242019	2034995	74700	74700	DIAGNOSIS		25.22	240.73	265.95	7.00	06	01	8	XX
099-009-000	02062015	2028949	26990	26990	DIAGNOSIS		0.00	49.76	49.76	2.00	06	01	4	XX
099-009-000	08302013	2027274	16750	16752	DIAGNOSIS		0.00	24.88	24.88	1.00	0000000005			
099-009-000	08122013	2027243	16340	16347	DIAGNOSIS		0.00	63.52	63.52	2.00	0000000004			
099-009-000	08212012	2025622	10800	10802	DIAGNOSIS		3.99	22.78	26.77	1.00	0000000005			
099-009-000	07062012	2025413	9800	9800	DIAGNOSIS		0.00	45.80	45.80	1.50	0000000004			
099-010-000	08162022	2037289	100690	100690	FABRICATION/WELDIN		468.00	590.72	1058.72	16.00	04	01	8	XX
099-010-000	10272015	2030124	34850	34850	FABRICATION/WELDIN		40.00	99.52	139.52	4.00	06	01	4	XX
099-013-000	12072017	2033073	55310	55314	SAFETY CHECK		0.00	29.33	29.33	1.00	05	01	4	XX
099-018-000	12262019	2035963	77390	77392	TRANSPORT VEHICLES		0.00	26.95	26.95	1.00	07	01	8	XX
099-018-000	10172018	2034116	64790	64791	TRANSPORT VEHICLES		0.00	65.90	65.90	2.50	07	01	8	XX
099-041-000	12022021	2036815	96960	96955	REPAIRS		80.74	679.68	760.42	18.00	06	01	8	XX
099-041-000	04232020	2035800	77390	77392	REPAIRS		23.51	288.88	312.39	8.00	04	01	8	XX
099-041-000	01082020	2035462	77390	77392	REPAIRS		7.27	39.81	47.08	1.00	03	01	8	XX
099-041-000	07252019	2035010	74700	74700	REPAIRS		0.00	107.80	107.80	4.00	07	01	8	XX
099-041-000	03252019	2034606	68400	68400	REPAIRS		25.00	192.24	217.24	6.00	06	01	8	XX
099-041-000	10022018	2034138	64790	64791	REPAIRS		40.81	256.32	297.13	8.00	06	01	8	XX
099-041-000	03072018	2033396	55310	55314	REPAIRS		0.00	48.24	48.24	2.00	07	01	8	XX
099-041-000	06192017	2032519	49680	49677	REPAIRS		523.69	410.62	934.31	14.00	06	01	4	XX

099-041-000	05022017	2032295	48290	48288	REPAIRS	7.16	29.33	36.49	1.00	06	01 4 X
099-041-000	06282016	2031135	39140	39144	REPAIRS	0.00	57.22	57.22	2.00	05	01 4 X

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: h9
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: h9

UNIT: H9 LF MTR: 100690.0 CUR MTR: 100690.0 YR: 11 MAKE: INTERNATIONAL DEPT: PW SIZE: O CLASS: STAKE BO FUEL: D

VMRS CODE	DATE	WO NUM	LF-MILS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	W
099-064-000	08162022	2037289	100690	100690	EQUIPMENT INSTALL		39.57	951.36	990.93	24.00	05	01	8	X
099-121-000	02262016	2030668	35940	35943	PARTS RUN		0.00	56.03	56.03	2.50	07	01	11	X
099 TOTAL >ROAD CALL TRAVEL TIM							2323.37	6126.61	8449.98					
730 TITLE > HOUSEKEEPING														
730-000-000	07242015	2029783	30190	30193	HOUSEKEEPING		4.48	20.47	24.95	1.00	07	01	4	X
730 TOTAL >HOUSEKEEPING							4.48	20.47	24.95					

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: h9
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: h9

VMRS Code	METER : STANDARD QUANTITY	SUBTOTALS OF VMRS CODES FOR DIVISION > AL LABOR HRS	LABOR COST	PARTS COST	PERIOD : LIFE TOTAL COST	PERCENT	TOT COST /METER
001 A/C, HEAT, VENTILATION	1	9.00	285.75	22.93	308.68	1.40 %	0.00307
013 BRAKES	1	6.00	216.66	603.45	820.11	3.71 %	0.00814
017 TIRES,TUBES,LINERS	1	1.00	28.61	0.00	28.61	0.13 %	0.00028
031 CHARGING SYSTEM	1	3.00	116.82	159.00	275.82	1.25 %	0.00274
032 CRANKING SYSTEM	2	2.50	76.52	343.38	419.90	1.90 %	0.00417
034 LIGHTING SYSTEM	2	7.00	240.45	161.82	402.27	1.82 %	0.00400
042 COOLING SYSTEM	1	1.00	39.81	7.69	47.50	0.21 %	0.00047
044 FUEL SYSTEM	1	2.00	49.76	17.34	67.10	0.30 %	0.00067
045 POWER PLANT/ENGINE	1	5.00	188.80	455.97	644.77	2.92 %	0.00640
051 GENERAL ACCESSORIES	1	6.00	192.24	211.28	403.52	1.82 %	0.00401
052 ELECTRICAL ACCESSRES	4	19.00	581.82	76.70	658.52	2.98 %	0.00654
055 CARGO HANDLING,LIFT	2	8.50	247.08	476.68	723.76	3.27 %	0.00719
066 PREVENTIVE MAINTENANCE	18	132.00	4207.19	3802.49	8009.68	36.22 %	0.07955
077 FRAME AND SUPPORT	1	15.00	566.40	261.13	827.53	3.74 %	0.00822
099 ROAD CALL TRAVEL TIME	41	194.25	6126.61	2323.37	8449.98	38.21 %	0.08392
730 HOUSEKEEPING	1	1.00	20.47	4.48	24.95	0.11 %	0.00025
TOTALS:	79	412.25	13184.99	8927.71 TOT:	22112.70	100.00 %	0.21961

Office of the Director
Waterford Fire Department
204 Boston Post Road
Waterford CT. 06385

11/27/23

First Selectman Rob Brule
15 Rope Ferry Road
Waterford, CT 06385

Re: Fleet Plan Fire Services

As the Director of Fire Services, I have been evaluating our fleet since my arrival in June of 2021. Looking at the direction of where we are going with our Town and its growth and changes. With our personnel, both Career staff and our Volunteers that are remaining and active. At one time each Company was looked at independently. This cannot happen anymore, not in this day and age. We need to respond as a Town, one fire service. Plan as one fire service. With that being said our fleet is costly to maintain, but worth the cost and investment considering new vehicle cost skyrocketing. We need to increase budgeting for repairs (this will happen). Our fleet gives us options that we will need to plan accordingly soon. Besides the replacement of an Ariel unit we could concentrate on doing one or two refurbishments over the next 2-5 years and save a considerately amount of funds in our fleet. These refurbishments are also the better older engines with less problems.

Some considerations listed below.

New Engine cost $900,000

New Aerial Truck cost $2,000,000 plus and a wait time of two plus years

Refurbishments $100,000 – $250,000 estimations

Refurbish Engine11 2014 busiest engine. Do this in F/Y 2027 est. $150,000

Refurbish Engine 21 2006 unit low miles. Do this in F/Y 2026 est. $175,000

Refurbish Truck 55 in F/Y 2028, once new truck/Aerial comes in 2-3 years wait time. Estimated cost $250,000 to refurbish Truck 55. This is considered a quint. Pumper with hose and an aerial unit.
This could eliminate buying a newer engine that will need to be replaced in 3-5 years.
Refurbishment would take 4-8 months on any one of our units. This is becoming popular as cost skyrocket on new apparatus.

The other item we need to consider is moving apparatus around to different companies as needed. Not be so dedicated by company but by Town needs. This will have to happen in the next year or two. We need to spread the wear & tear on the units.

Director/Chief of Fire Services
M.J.H.
Michael J. Howley

C.C. File

TOWN OF WATERFORD
FLEET MANAGEMENT PLAN - VEHICLES
FISCAL YEARS 2025 - 2029

TOTAL NO. OF VEHICLES 27 **Submitted 11/27/2023** Updated

												Number Vehicles to be Replaced	3	3	1	4	-		
												Total Budget	2,328,000	138,000	74,000	1,240,000	-		
FLEET Asset ID	Agency Code	Agency Name	Vehicle Assigned to:	Class Code	Repl. Cycle in Years	Class Description	Asset Model Year	In-Service Date	Gross Vehicle Cost	Manuf.	Model	Serial #	2025	2026	2027	2028	2029	Current Mileage / or Usage Hours	Total Repair Costs to date
W-51	COH	Cohanzie Fire Company		1500PMP-F	18	1500 GPM PUMPER (FIRE)	2016	04/11/16	$563,200	E-One	Custom Pumper (diesel)	4EN6AAA8XG1009830						30,589m/ 2,461 hrs	37,991.00
W-53	COH	Cohanzie Fire Company		BRS-F	20	BRUSH TRUCK (FIRE)	2009	05/12/09	$95,854	Ford	Super Duty F-550 (diesel)	1FDAW57R29EA35364				315,000		10,449m/ 1419 hrs	2,943.00
W-55	COH	Cohanzie Fire Company		T&A-F	20	LADDER/AERIAL (FIRE)	2004	12/29/04	$650,446	SUTPHEN	Ladder Truck (diesel)	1S9A7LLD442003078	2,200,000			-		41,812m/ 4816 hrs	132,074.00
W-56	COH	Cohanzie Fire Company		UTL-F	15	UTILITY UNIT (FIRE)	2011	10/12/10	$47,426	Ford	F350 (diesel)	1FT8X3BT6BEA81633		73,000				54,224	4,925.00
W-57	COH	Cohanzie Fire Company		SPC-F	20	SPECIALTY UNIT (FIRE)	2010	10/05/10	$511,983	Ferrara Igniter Custom	Rescue Truck (diesel)	1F9505328AH140755						2512 hrs	40,740.00
W-16	COH	Jordan Company		UTL-F	12	UTILITY UNIT (FIRE)	2018	03/01/18	$49,368	Ford	F350 4x4 crew cab	1FT8W3B62JEC10625						22,833m/ 1180	-
Car 115 (Q115)	23/FM	FIRE SERVICES	Fire Inspector (Bauch)	SUV-FIRE	8	SUV	2015	06/19/15	$33,333	Ford	Explorer	1FM5K8AR6FGB52372						37,500	1,250.00
Car 55 (Q55)	23/FM	FIRE SERVICES	Fire Marshal (Dubicki)	PCK-F	10	UTILITY UNIT (FIRE)	2013	11/16/12	$31,620	Ford	F150 PICKUP (with cap)	1FTFW1EFXDKD31481	64,000					117,000	2,489.00
Car 85	23/FM	FIRE SERVICES	Director of Fire Services (Howley)	CAR-F	8	SUV	2016	02/26/16	$43,884	Ford	EXPEDITION	1FMJU1JT9GEF29608	64,000					118,000	3,001.00
NEW		FIRE SERVICES	Assitant Chief of Fire Services		15									65,000				0	-
W-31	GOS	Goshen Fire Company		1500PMP-F	18	1500 GPM PUMPER (FIRE)	2014	07/25/13	$486,826	KME Custom	Pumper (diesel)	1K9AF4281EN058620						16,669m/ 1539 hrs	25,046.00
W-32	GOS	Goshen Fire Company		1500PMP-F	18	1500 GPM PUMPER (FIRE)	1998	02/23/99	$307,935	Spartan	1,500 GPM Pumper (diesel)	4S7AT419XWC026143						39,230m/ 4295 hrs	49,062.00
W-34	GOS	Goshen Fire Company		UTL-F	20	UTILITY UNIT (FIRE)	2012	03/01/12	$58,114	Ford	F450 (diesel)	1FDUF4HT2CEA51122						9,183 m/ 701hrs	2,778.00
W-36	GOS	Goshen Fire Company		UTL-F	20	UTILITY UNIT (FIRE)	2007	08/29/06	$36,973	Ford	F350 pickup (diesel)	1FTWW31P17EA67953			74,000			53,206m/ 2355 hrs	28,619.00
W-93	GOS	Goshen Fire Company		BOT-F	30	BOAT (FIRE)	2007	06/29/07	$103,334	Lake Assault	24' Landing Craft	LKKGFD93G707						1139/1028	25,601.00
W-94	GOS	Goshen Fire Company		ATV	20	ATV EMS Utility Unit												218m/ 20 hrs	-
W-11	JOR	Jordan Fire Company		1500PMP-F	18	1500 GPM PUMPER (FIRE)	2014	12/05/14	$458,400	Typhoon	1,500 GPM Pumper (diesel)	4EN6AAA80E1008750						38,156m/ 3287 hrs	50,574.00
W-15	JOR	Jordan Fire Company		T&A-F	20	TOWER LADDER/AERIAL (FIRE)	2016	07/28/17	$998,854	Pierce	Arrow XT Ladder Truck (diesel)	4P1BCAGF1GA016140						32,844m/ 2866 hrs	66,333.00
W-41	OSW	Oswegatchie Fire Company		1500PMP-F	18	1500 GPM PUMPER (FIRE)	2018	08/15/18	$537,205	Spartan	Pumper (diesel)	4S7CT2D92JC085317						9,105ml / 822 hrs	11,901.00

TOWN OF WATERFORD
FLEET MANAGEMENT PLAN - VEHICLES
FISCAL YEARS 2025 - 2029

TOTAL NO. OF VEHICLES 27 **Submitted 11/27/2023** Updated

												Number Vehicles to be Replaced		3	3	1	4	-	
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FLEET Asset ID	Agency Code	Agency Name	Vehicle Assigned to	Class Code	Repl Cycle in Years	Class Description	Asset Model Year	In-Service Date	Gross Vehicle Cost	Manuf.	Model	Serial #	2025	2026	2027	2028	2029	Current Mileage / or Usage Hours	Total Repair Costs to date
W-42	OSW	Oswegatchie Fire Company	Refurbished 2022	1500PMP-F	12	1500 GPM PUMPER (FIRE)	2007	05/14/08	6793/100,0	Seagrave	1,500 Marauder Pumper (diesel)	1F9ES28T97CST2165						43,720m/ 4831 hrs	61,882.00
W-43	OSW	Oswegatchie Fire Company		BRS-F	25	BRUSH TRUCK (FIRE)	2006	06/06/06	$125,245	Ford	F550 Brush Truck (diesel)	1FDAX57P66ED51762						12,834m/ 1294 hrs	13,930.00
W-46		Oswegatchie Fire Company		UTL-F	12	UTILITY UNIT (FIRE)	2020	12/18/20	$59,841	Ford	F-350 (Gas) Pick-Up	1FT8W3B66LED86628						15,127m/ 566 hrs	840.00
W-21	QH	Quaker Hill Fire Company		1500PMP-F	25	1500 GPM PUMPER (FIRE)	2006	10/02/06	$396,447	Ferrara	Igniter Custom Pumper (diesel)	1F94047266H140373				925,000		35,488m/ 3503 hrs	59,406.00
W-23	QH	Quaker Hill Fire Company		BRS-F	25	BRUSH TRUCK (FIRE)	2006	07/01/06	$125,245	Ford	F550 Brush Truck (diesel)	1FDAX57P86ED51763						8,374m/ 1329 hrs	15,545.00
W-25	QH	Quaker Hill Fire Company		1500PMP-F	18	1500 GPM PUMPER (FIRE)	2016	06/17/16	$773,695	Spartan	Gladiator TeleSquirt Pumper (diesel)	4S7AV2E94FC080868						7808m/ 1075 hrs	24,603.00
A19	QH	EOC/EM		UTL-F	12	UTILITY UNIT (FIRE)	2006	02/01/06	$44,076	Ford	F350 (diesel)	1FDWW31P76EB60910						54,800m/ 3373 hrs	6,232.00
W-26	QH	Quaker Hill Fire Company			15	Utility UNIT (FIRE)	2021	08/15/23	$64,000	Ford	F-25- Gas Pickup/Utility							2,150m	

WATERFORD POLICE DEPARTMENT
41 AVERY LANE
WATERFORD, CT 06385-2819

Marc Balestracci
Police Chief

(860) 442-9451 TEL
mbalestracci@waterfordct.org

To: Finance Director, Kim Allen
Cc: First Selectman Rob Brule
From: Marc Balestracci, Chief of Police
Date: November 20, 2023
Re: Police Fleet Management Plan Request FY25

We are requesting that the following vehicles be replaced in FY 2025:

***It should be noted that these vehicles will remain in service for at least twelve more months. During this time patrol vehicles will accumulate approximately 25,000 additional miles and admin vehicles will accumulate approximately 7,000 additional miles. Patrol vehicles are the traditional police vehicles which have multiple officers assigned to them and are driven daily on multiple shifts. Admin vehicles are assigned to one officer and are used by detectives or members of the administration. The factory powertrain warranty for these vehicles are 5 yrs/100,000 miles. The projected replacement costs were determined by using the cost to replace similar vehicle in FY 2024. Three percent was added to the cost to adjust for inflation.**

Car #3: A marked 2017 Ford Police Interceptor Utility with 13,715 hours, 108,520 miles, and $5,737.43 in repair costs. This vehicle is no longer covered by the factory warranty. It should be noted that Ford Motor Corp advises one hour of engine wear is equivalent to 30 miles of driving. Using these figures, this vehicle has the equivalent of 411,450 miles. This vehicle is assigned to a K-9 officer and is on an eight year replacement interval. The current Fleet Management Plan doesn't show a replacement date. At this time we are requesting that this vehicle be replaced in FY 2025 in accordance with the replacement interval and due to the mileage, hours, and repair costs. The projected cost to replace this vehicle with another Ford Police Interceptor is $83,945.

Car #28: An unmarked 2015 Ford Police Interceptor Utility with 3,230 hours, 70,218 miles, and $3,487 in repair costs. This vehicle is no longer covered by factory warranty. This vehicle was originally on the Fleet Plan as being up for replacement in FY 2023, however it was pushed out to FY 2025. The projected cost to replace this vehicle with another Ford Police Interceptor is $60,106. The projected cost includes emergency lighting/siren equipment and the installation of that equipment. At this time we are requesting that upon replacement, this vehicle be retained for further use at the department. Since the COVID pandemic our new hires are no longer staying overnight at the academy and we therefore have to provide them with a vehicle to commute from the police department to the academy. The academy lasts approximately twenty-two weeks. By retaining this vehicle it would accomplish two things. It would keep them from using a fully equipped cruiser which could remain in town for regular patrol functions and it would also keep the new hires in an unmarked vehicle as it is not ideal to have them driving marked police vehicles outside of town when they aren't fully trained officers yet.

WATERFORD POLICE DEPARTMENT
41 AVERY LANE
WATERFORD, CT 06385-2819

Marc Balestracci
Police Chief

(860) 442-9451 TEL
mbalestracci@waterfordct.org

Car #29: An unmarked 2014 Chevrolet Caprice with 4,706 hours, 115,407 miles, and $4,892 in repair costs. This vehicle is no longer covered by factory warranty. This vehicle was originally on the Fleet Plan as being up for replacement in FY 2022, however it was pushed out to FY 2025. The projected cost to replace this vehicle with a Ford Police Interceptor is $78,879. The projected cost includes emergency lighting/siren equipment and the installation of that equipment.

Car #31: An unmarked 2016 Ford Police Interceptor Utility with 4,571 hours, 82,625 miles, and $3,507 in repair costs. This vehicle is no longer covered by the factory warranty. This vehicle was originally on the Fleet Plan as being up for replacement in FY 2024, however it was pushed out to FY 2025. The projected cost to replace this vehicle with another Ford Police Interceptor is $60,106. At this time we are requesting that upon replacement, this vehicle be retained for further use at the department. Our Community Engagement Officer and his comfort dog are currently assigned to Car #34, which is a vehicle that isn't part of our Fleet Plan as a replaceable vehicle. Car #34 is a 2011 Ford Taurus that currently has 175,489 miles and $3,506 in repair costs. Due to the high mileage this vehicle is nearing the end of its service life. The Community Engagement Officer regularly drives long distances to other towns throughout the state for various events/critical incidents with his comfort dog. By retaining the old Car #31 we would be able to provide him with a much more reliable vehicle.

We are requesting that the following police vehicle be pushed out for replacement in FY 2026:

Car #15: An unmarked 2017 Chevrolet Silverado Truck with 59,733 miles, 4,603 hours, and $3,856 in repair costs. The Fleet Plan calls for this vehicle to be replaced in FY 2025, however due to the low mileage we are requesting that it be pushed out to FY 2026.

Thank you for any consideration.

Thank you,

Marc Balestracci
Chief of Police
Waterford Police Department

COST BREAKDOWN

ADMIN VEHICLE

CAR-	$47,899
EQUIPMENT-	$7,430
INSTALL-	$3,006
TOTAL –	$58,355
ADJUSTED 3% FOR INFLATION-	$60,106

*Amounts obtained from the cost to purchase/equip/build Car #25 in Sept 2023

K-9 VEHICLE

CAR-	$47,899
EQUIPMENT-	$22,469
INSTALL-	$4,082
LETTERING-	$725
IN-CAR CAMERA-	$6,325
TOTAL-	$81,500
ADJUSTED 3% FOR INFLATION-	$83,945

*Amounts obtained from the cost to purchase/equip/build Car #16 in 2023

UNMARKED PATROL VEHICLE

CAR-	$47,899
EQUIPMENT-	$18,275
INSTALL-	$4,082
IN-CAR CAMERA-	$6,325
TOTAL-	$76,581
ADJUSTED 3% FOR INFLATION-	$78,879

*Amounts obtained from the cost to purchase/equip/build Car #16 in 2023

Competitive Service Solutions
1265 John Fitch Boulevard
South Windsor CT 06074

ADMIN INSTALL - 2023

Waterford Police Department
41 Avery Lane
Attn: Sgt. Farrior
Waterford CT 06385
United States

Quotation # S03082

Quotation Date:
08/29/2023

Description	Quantity	Unit Price	Total
Labor-Non Tax Installation or Service Labor	30.00 Units	75.00	$ 2,250.00
Installation of customer supplied equipment into new admin SUV.			
Shop Supplies Hardware, connectors, wire, loom, fuses, fuse holders, fabricated material, etc.	1.00 Units	200.00	$ 200.00
5025-Blue Sea 6 circuit fuseblock with neg ground	1.00 Units	33.30	$ 33.30
C-EB30-XG2-1P Harris Radio Bracket	1.00 Units	33.00	$ 33.00
VF4 12 Volt Relay 30 Amp	3.00 Units	6.00	$ 18.00
C-FP-2 2" Fillerplate	2.00 Units	10.40	$ 20.80
Labor-Non Tax Installation or Service Labor	6.00 Units	75.00	$ 450.00
		Subtotal	$ 755.10

Installation of keyless entry

Competitive Service Solutions
1265 John Fitch Boulevard
South Windsor CT 06074

Subtotal $ 0.00

Untaxed Amount	$ 3,005.10
Taxes on $ 305.10	$ 0.00
Total	$ 3,005.10

Thank you for choosing Competitive Service Solutions LLC. We are committed to providing excellent products and services to our customers. Warranty on all labor provided is covered for (90) ninety days from work date completed. All material is covered by manufacturer's warranty.

Payment terms: 30 Days

Competitive Service Solutions
1265 John Fitch Boulevard
South Windsor CT 06074

PATROL CRUISER INSTALL 2023

Waterford Police Department
41 Avery Lane
Attn: Sgt. Farrior
Waterford CT 06385
United States

Quotation # 303113

Quotation Date:
10/16/2023

Description	Quantity	Unit Price	Total
Labor-Non Tax Installation or Service Labor	48.00 Units	75.00	$ 3,600.00
Installation of customer supplied equipment into new patrol car.			
Shop Supplies Hardware, connectors, wire, loom, fuses, fuse holders, fabricated material, etc.	1.00 Units	250.00	$ 250.00
VF4 12 Volt Relay 30 Amp	3.00 Units	6.00	$ 18.00
Blue Sea 1039 Fast Charge Dual USB Charge Contura	1.00 Units	40.79	$ 40.79
5032BLUESEA Split Fuse Block	2.00 Units	60.00	$ 120.00
304326 25' ANTENNA CABLE W/CONNECTOR	1.00 Units	46.52	$ 46.52
80534 TNC Female crimp RG58	1.00 Units	6.92	$ 6.92

Untaxed Amount	$ 4,082.23
Total	$ 4,082.23

Competitive Service Solutions
1265 John Fitch Boulevard
South Windsor CT 06074

Thank you for choosing Competitive Service Solutions LLC. We are committed to providing excellent products and services to our customers. Warranty on all labor provided is covered for (90) ninety days from work date completed. All material is covered by manufacturer's warranty.

Payment terms: 30 Days

K-9 KENNEL HEATING/COOLING AND DOOR POPPER

GO!

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K9 HOT-N-POP PRO

K9 HOT-N-POP PRO

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Company Info

AceK9
1315 SW COMMERCE WAY
STUART FL 34997-7231
Phone: 772-600-7574
E-Mail: k9sales@acek9.com

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VO GREAT PRODUCTS IN ONE

The HOT-N-POP PRO® combines the features of our two best-selling canine safety products into one easy to use temperature alarm and door popper system.

This innovative unit monitors vital components including temperature sensors and vehicle battery voltage and shows the information on a 32-character backlit alphanumeric display.

Under alarm conditions, the unit activates an S.O.S. horn honk signal, siren, light-bar activation and dual window drop to immediately equalize the internal temperature of the vehicle.

The door popper feature releases the K-9 from the vehicle by remote control worn in a holster.

In addition, the special Door Pop Stopper™ feature disables the K-9 Door Popper® when the vehicle is in gear.

Features are software based to allow for future upgrades.

Note: This product is only available in U.S. for Law Enforcement/Military use only in U.S. Domestic Model Police Package Vehicles or Special Service Vehicles.
HOT-N-POP PRO WILL NOT WORK IN 2021 Up F150 & 2020 UP MODEL CIVILIAN EXPLORER & EXPEDITION WITH ELECTRONIC DIAL SHIFTER.

Patent # 7,081,811

Configure and Purchase Online US ONLY

HOT-N-POP® PRO (Model# HP-5020) MSRP $1,499.00

Includes:

- Control Head
- IntelaBox
- Protective Relay Module
- S.O.S Horn Honk™ Output
- Siren Activation Output
- Lightbar Activation Output
- Dual Window Drop Kit
- Dual Temperature Sensors
- Remote with Holster for Door Popper
- Heavy-Duty Solenoid Kit

- Gas Sp .g with Heavy-Duty Stainless Steel Mounts
- System Wiring Harnesses
- Installation Instructions
- Vehicle Specific Wiring Information

***Vehicle Make, Model and Year Required When Ordering**

- User Guide
- Two Year Warranty
- Tech Support

Innovative Features and Functions Patented! Patent # 7,081,811

Note: This product is only available in U.S. for Law Enforcement/Military use only in U.S. Domestic Model Police Package Vehicles or Special Service Vehicles.

HOT-N-POP PRO WILL NOT WORK IN 2021 Up F150 & 2020 UP MODEL CIVILIAN EXPLORER & EXPEDITION WITH ELECTRONIC DIAL SHIFTER.

OPTIONAL ADD ON FEATURES

- No K9 Left Behind Feature (Add $69.00)
- Engine Stall Feature (Add $142.95) NOTE:Cannot be used with Hybrid Vehicles, Stop/Start Technology or vehicles that have an Idle Timer.
- 10" Fan Kit (Add $239.00)
- Heavy-Duty Fan Guard (Add $85.00) ***note: Does not fit Dodge Charger***
-
- Smoke Detector (Add $114.95)

Wireless Alert Options

AceWatchDog™ (Add $899.00)

Proactive monitoring that displays System Temperatures on your cell phone. Calls and/or sends text alert to the K9 Handler and four other contacts.

More Info ut AceWatchDog™

REMOTE PAGER SYSTEM (Add $357.00)

The remote pager has up to 1/2-Mile Range (2,640 Feet) performance is dependant on the antenna placement.

- **HA-RBM-27-RD** Remote Pager kit with 27Mhz roof mount antenna

2 item(s) - Page 1 of 1 Items: 18 ↓ Sort: Best match ↓ View: Two column ↓

AceK9 Towel

$9.50

K9 Hot-N-Pop PRO

$1,499.00

K-9 KENNEL

K9-F28-1

Standard K9 Transport System For 2020-2023 Ford Interceptor Utility – White

Overview
Features
Specifications
Application Gallery
Resources
Compatibility
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FAQ

K9, INSERT, INUT, 20-23,

$4,968.00

Quantity: 1

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FEATURES

MHQ

Waterford Police Department

Contact Name:	Sgt. Andrew Farrior	**Date:**	2/18/2022
Company/Dept:	Waterford Police Department	**Valid for:**	60 days
Street Address:	15 Rope Ferry Road	**Customer #:**	
City, State, Zip:	Waterford, CT 06385	**Contract:**	22PSX00083AA
Phone:	860-691-8110	**Sales Rep:**	Marc Sheehan
E-Mail:			

Patrol Lighting Package

CONFIGURED ITEM NUMBER	ITEM DESCRIPTION	UNIT PRICE	QTY	EXTENDED PRICE
MRTNTR	Whelen Micron - Blue	$ 92.72	1	$92.72
MRNTR	Whelen Micron - Red	$ 92.72	1	$92.72
IONR	Whelen ION - Red	$ 102.48	2	$204.96
IONB	Whelen ION - Blue	$ 102.48	2	$204.96
IONKIB	Whelen ION Mounting Bracket	$ 25.62	4	$102.48
SFIONR	Whelen Solfire ION - Red	$ 134.20	1	$134.20
SFIONB	Whelen Solfire ION - Blue	$ 134.20	1	$134.20
MRFX20	Whelen Mirror Beacon	$ 286.70	1	$286.70
MRTZI	Whelen Duo ION's for Mirror Beacon	$ 18.90	2	$36.80
VTX609R	Whelen Vertex, Red	$ 87.96	2	$248.88
VTX609B	Whelen Vertex, Blue	$ 87.96	1	$87.96
VTX609C	Whelen Vertex, White	$ 87.96	2	$165.92
JB20EQE	Whelen 54" Liberty II Lightbar	$ 3,495.00	1	$3,495.00
SA315P	Whelen Siren Speaker	$ 218.51	1	$218.51
SAK660	Whelen Siren Speaker Mounting Bracket	$ 29.89	1	$29.89
C399	Whelen CORE Light/Siren Controller	$ 818.62	1	$818.62
C399M4	Whelen CORE1 Connect	$ 26.60	1	$26.60
CV2V	Whelen V2V Bench Module	$ 214.72	1	$214.72
CCTL6	Whelen Control Head w/Rotary Knob	$ 273.89	1	$273.89
TIMIR	Whelen Mini T-ION, Red	$ 90.89	1	$90.89
TIMIB	Whelen Mini T-ION, Blue	$ 90.89	1	$90.89
80CREOC3	Whelen 6" Dome Light, Red/White	$ 148.84	1	$148.84
79752	Streamlight Flashlight	$ 235.49	1	$235.49
MMSU1	Magnetic Mic Clip	$ 37.00	2	$74.00
TM1133HUTI	Tomco Anti Theft Shift Lock	$ 183.75	1	$183.75
T-FDEXRM1-20N-PS-LT	Single Drawer w/Lift System	$ 2,180.20	1	$2,180.20
PB450L4	Setina Push Bumper	$ 973.53	1	$973.53
P1000UNT20A	Pro Guard Half Cage System	$ 2,305.44	1	$2,305.44
CMCB	Mic Clip Bracket	$ 13.68	2	$27.36
C-VS-1012-INUT	Ford Interceptor Utility Specific High Flat Console	$ 433.44	1	$433.44
C-ADP-110	Screen Adapter	$ 29.52	1	$29.52
C-USB-3	Dual USB Charge Module	$ 71.28	1	$71.28
C-MD-119	11" Slide Out	$ 264.24	1	$264.24
C-KBM-201	Rugged Keyboard Mount and Adapter Combination	$ 98.64	1	$98.64
C-MDM-214	Telescoping Pole	$ 182.48	1	$182.48
CUP2-1001	Cup Holder	$ 40.87	1	$40.87
CG-X	Charge Guard	$ 77.04	1	$77.04
C-ARM-108	Arm Rest	$ 179.28	1	$179.28
C-UMM-103	Havis Mount	$ 84.96	1	$84.96
C-EB40-CCS-1P	Control Head Bracket	$ 26.64	1	$26.64
C-AP-0645-L	Gin Hinged Lid & Lock Accessory Pocket	$ 129.60	1	$129.60
C-EB30-XG2-3P	Radio Bracket for Harris XG-25M	$ 23.76	1	$23.76
KB-108	Havis Backlit Keyboard	$ 409.68	1	$409.68
LPS-103	DC Power Supply	$ 187.92	1	$187.92
C-EB20-WGD-1P	Watch Guard Bracket	$ 23.76	1	$23.76
DSPAN12012	Havis Docking Station	$ 848.00	1	$848.00
GK10271UHX	Setina T-Rail Mount 1 Universal Lock	$ 334.54	1	$334.54
GX0068E	Setina Black Rack Weapons Mount	$ 695.74	1	$695.74
			TOTAL:	$16,274.51

PATROL EQUIPMENT - 2023

For K-9 Car
18,275
less prisoner cage
- 2,306
= 15,969
+ Hot Pop → 1,500
+ Kennel → 5,000
= $22,469

K9 Equip

TERMS AND CONDITIONS

This quote is valid for 60 days from the date of quote. Any purchase orders or approved quotes received outside of the 60 day quote period will be subject to price adjustments. By signing this quote, the customer is agreeing to pay, in full, for all items listed above. Any requests for changes, modifications, replacements, returns or additional items may be subject to additional fees and/or adjusted delivery dates. The terms and conditions stated herein and the provisions of any agreement between MHQ and Buyer, if applicable, shall constitute the complete and only terms and conditions applicable to any and all purchases by Buyer from MHQ. Any additional and/or different terms and/or conditions printed anywhere including on, or with, Buyer's order shall be inapplicable in regard to any purchase by Buyer from MHQ.

ORDER ACKNOWLEDGEMENT

By signing this document you are agreeing to the above terms and conditions of this order from MHQ, Inc.

x _____
PRINT NAME

x _____
TITLE

x _____
SIGNATURE

Quote provided by Marc Sheehan, Fleet Account Manager at MHQ

MHQ
VEHICLES & EQUIPMENT & GEAR

Quote

Waterford Police Department

Contact Name:	Sgt. Andrew Farrior	Date:	5/24/2023
Company/Dept:	Waterford Police Department	Valid for:	60 days
Street Address:	15 Rope Ferry Road	Customer #:	
City, State, Zip:	Waterford, CT 06385	Contract:	22PSX0083AA
Phone:	860-561-8110	Sales Rep:	Marc Sheehan
E-Mail:			

Admin Lighting Quote

CONTRACT LINE REFERENCE	LINE DESCRIPTION	UNIT PRICE	QTY.	EXTENDED PRICE
MCRNTJ	Whelen Micron - Red/Blue Split	$ 96.99	2	$193.98
IONJ	Whelen ION - Red/Blue Split	$ 102.48	2	$204.96
SFIONJ	Whelen Spitfire ION - Red/Blue Split	$ 134.20	2	$268.40
IONPEDB	Whelen ION Pedistal Mount	$ 51.85	2	$103.70
VTX609R	Whelen Vertex, Red	$ 82.96	1	$82.96
VTX609B	Whelen Vertex, Blue	$ 82.96	1	$82.96
VTX609C	Whelen Vertex, White	$ 82.96	2	$165.92
BSFW50Z	Whelen Duo Colored Front Inner Edge	$ 1,162.05	1	$1,162.05
SA315P	Whelen Siren Speaker	$ 238.51	1	$238.51
SAK66D	Whelen Siren Speaker Mounting Bracket	$ 29.89	1	$29.89
HHS4200	Whelen HHS Series Light/Siren Controller	$ 506.91	1	$506.90
TLIR	Whelen T-ION, Red	$ 99.43	1	$99.43
TLIB	Whelen T-ION, Blue	$ 99.43	1	$99.43
60CREGCS	Whelen 6" Dome Light, Red/White	$ 148.84	1	$148.84
74752	Streamlight Flashlight	$ 235.49	1	$235.49
MTVLIFT2020VAULTPS	Truck Vault Lift System	$ 1,007.40	1	$1,007.40
C-VSX-1800-INUT	VSX Console	$ 504.81	1	$504.81
CUP2-1004	Cup Holder	$ 39.65	1	$39.65
CARM-1001	Arm Rest	$ 228.96	1	$228.96
C-APX-101	Front Bin Option	$ 26.64	1	$26.64
			TOTAL:	$5,430.88

ADMIN EQUIPMENT - 2023 + 2,000 For TruckVault

= $7,430

TERMS AND CONDITIONS

*This quote is valid for 60 days from the date of quote. Any purchase orders or approved quotes received outside of the 60 day quote period will be subject to price adjustments. By signing this quote, the customer is agreeing to pay, in full, for all items listed above. Any requests for changes, modifications, replacements, removals or additional items may be subject to additional fees and/or adjusted delivery dates. The terms and conditions stated herein and the provisions of any agreement between MHQ and Buyer, if applicable, shall constitute the complete and only terms and conditions applicable to any and all purchases by Buyer from MHQ. Any additional and/or different terms and/or conditions printed anywhere including on, or with, Buyer's order shall be inapplicable in regard to any purchase by Buyer from MHQ.

ORDER ACKNOWLEDGEMENT

By signing this document you are agreeing to the above terms and conditions of this order from MHQ, Inc.

x _____
PRINT NAME

x _____
TITLE

x _____
SIGNATURE

Quote provided by Marc Sheehan, Fleet Account Manager at MHQ

Dlr Lic # N0289

Bob Thomas

FORD INCORPORATED

2215 dixwell ave./hamden/connecticut 06514/(203) 281-7500 www.bobthomasford.com

PURCHASER TOWN OF WATERFORD SALESPERSON NANCYLEE D. MASTRACCHIO DELIVERY DATE DESIRED: 05/03/2023

PLEASE ENTER MY ORDER FOR: NEW ☐ USED ☐ LEASE/RENTAL ☐ MAKE FORD MODEL EXPLORER TYPE POLICE INTE STOCK NO. T3008

YEAR 2023 COLOR BLACK TRIM BLACK IDENT. NO. 1FM5K8AB4PGA04015

ODOMETER READING 15

INSTRUCTIONS TO SALESMEN: When figuring deal, fill in blanks as follows: White ☐ ; ALL Deals • Red ☐ ; CASH Deals ONLY • Blue ☐ ; FINANCED Deals ONLY

CASH PRICE AT SELLER'S PLACE OF BUSINESS	47200.00	
ACCESSORIES AND EXTRA EQUIPMENT: SOLD AS EQUIPPED WITH NO OPTIONS		
		N/A
		N/A
		N/A
		N/A
		N/A
		N/A

The Dealer Conveyance Fee is not payable to the State of CT. This Fee is negotiable.

PRICE OF VEHICLE WITH ACCESSORIES	47200.00

NO REFUND OF DEPOSIT

CASH DOWNPAYMENT DEPOSIT ON $ N/A (RECEIPT NO.) + ADDITIONAL DEPOSIT $ N/A (RECEIPT NO.) (7) N/A

TRADE-IN (8) N/A

LESS BALANCE OWING TO: (9) N/A (8-9) (10) N/A

DESCRIPTION OF TRADE-IN

YEAR MAKE CYL.

MODEL TYPE

COLOR IDENT. # TITLE # ODOMETER READING

WARRANTY INFORMATION

THIS MOTOR VEHICLE IS NOT GUARANTEED BY BOB THOMAS FORD, INC. THIS VEHICLE IS SUBJECT TO A LIMITED WARRANTY OF FORD MOTOR COMPANY FOR 36,000 MILES OR 36 MONTHS, WHICHEVER OCCURS FIRST COPY GIVEN TO CUSTOMER.

PRICE OF VEHICLE WITH ACCESSORIES	(1)	47200.00
DEALER CONVEYANCE FEE $699.00	(2)	699.00
SALES TAX	(3)	N/A
	(3A)	
CASH PRICE (1+2+3+3A)	(4)	47899.00
REGISTRATION AND TITLE FEE	(5)	N/A
TOTAL CASH DELIVERED PRICE (4+5)	(6)	47899.00

15. OTHER CHARGES: INSURANCE (No Insurance Included Except:)

A. Cost of Required Physical Damage Insurance (15A) $

B. Cost of Optional Mechanical Breakdown Insurance (15B) $

BUYER MAY CHOOSE THE PERSON THROUGH WHICH THE INSURANCE IN A AND B IS TO BE OBTAINED.

C. Cost of Creditor Insurance for the term hereof COVERAGE OF THE BUYER BY ANY SUCH INSURANCE IS NOT REQUIRED BY SELLER.

Check Creditor Insurance Desired ☐ Life (15C) ☐ Disability (Accident & Health) (15C) ☐ Other (describe) (15C)

BUYER'S APPROVAL: I DESIRE TO OBTAIN THE CREDITOR INSURANCE CHECKED ABOVE FOR THE BUYER PROPOSED FOR INSURANCE. Date

BUYER'S SIGNATURE X

CO-BUYER'S SIGNATURE X

* ANNUAL PERCENTAGE RATE % (THE COST OF YOUR CREDIT AS A YEARLY RATE)

TOTAL DOWNPAYMENT (7+10)	(11)	N/A
UNPAID BALANCE OF CASH DELIVERED PRICE (6-11)	(12)	47899.00
UNPAID BALANCE OF CASH PRICE (4-11)	(13)	
DMV CHARGES: REG. & TITLE $ + LIEN FEE $	(14)	
DEALER CONVEYANCE FEE $ 699.00	(14 b)	
OTHER CHARGES: INSURANCE (15A+15B ONLY)	(15a,b)	
SUB TOTAL		
OTHER CHARGES: INSURANCE (15c)	(15c)	
AMOUNT FINANCED (13+14+15a, b, c) (The amount of credit provided to you or on your behalf.)	(16)	
FINANCE CHARGE * (THE DOLLAR AMOUNT THE CREDIT WILL COST YOU)	(17)	
TOTAL OF PAYMENTS (16+17) (The amount you will have paid after you have made all payments as scheduled)	(18)	
TOTAL SALE PRICE (The total cost of your purchase on credit including your down payment of $) (4+14+15+17)	(19)	

CRUISER - 2023

FORD P.I.U

IN-CAR CAMERA - 2023

QUOTE-2235027

MOTOROLA SOLUTIONS

WATERFORD POLICE DEPT

07/17/202

The design, technical, pricing, and other information (" Information ") furnished with this submission is confidential proprietary information of Motorola Solutions, Inc. or the Motorola Solutions entity providing this quote (" Motorola ") and is submitted with the restriction that it is to be used for evaluation purposes only. To the fullest extent allowed by applicable law, the information is not to be disclosed publicly or in any manner to anyone other than those required to evaluate the information without the express written permission of Motorola.
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MOTOROLA SOLUTIONS

QUOTE-2235027

07/17/2023

WATERFORD POLICE DEPT
41 AVERY LN
WATERFORD, CT 06385

Dear Andrew Farrior,

Motorola Solutions is pleased to present WATERFORD POLICE DEPT with this quote for quality communications equipment and services. The development of this quote provided us the opportunity to evaluate your requirements and propose a solution to best fulfill your communications needs.

This information is provided to assist you in your evaluation process. Our goal is to provide WATERFORD POLICE DEPT with the best products and services available in the communications industry. Please direct any questions to Christopher Drake at Christopher.Drake@motorolasolutions.com.

We thank you for the opportunity to provide you with premier communications and look forward to your review and feedback regarding this quote.

Sincerely,

Christopher Drake
Regional Sales Manager

MOTOROLA SOLUTIONS

QUOTE-2235027

Billing Address:
WATERFORD POLICE DEPT
41 AVERY LN
WATERFORD, CT 06385
US

Shipping Address:
WATERFORD POLICE DEPT
41 AVERY LN
WATERFORD, CT 06385
US

Quote Date:07/17/2023
Expiration Date:10/15/2023
Quote Created By:
Christopher Drake
Regional Sales Manager
Christopher.Drake@
motorolasolutions.com
603-205-1845

End Customer:
WATERFORD POLICE DEPT
Andrew Farrior
afarrior@waterfordct.org
860-442-9451

Payment Terms:30 NET

Summary:

Any sales transaction resulting from Motorola's quote is based on and subject to the applicable Motorola Standard Terms and Conditions, notwithstanding terms and conditions on purchase orders or other Customer ordering documents. Motorola Standard Terms and Conditions are found at www.motorolasolutions.com/product-terms.

Line #	Item Number	Description	Qty	Sale Price	Ext. Sale Price
	M500				
1	WGA00428-103	CONFIGWIRLESKIT MTIK802.11AC,POE,5GHZANT	1	$250.00	$250.00
2	WGP01394-001	CBL, WIFI VHCL ANT MNT, NMO, 17'L	1	$60.00	$60.00
3	WGP02225-130-KIT2	BRKT4RE DISP/VISTA/CAMVR POST 2020+EXPL	1	Included	Included
4	WGB-0703A	M500 ICV SYSTEM, V300 WIFI DOCK, SPS	1	$6,015.00	$6,015.00

Grand Total $6,325.00(USD)

Notes:

- Unless otherwise noted, this quote excludes sales tax or other applicable taxes (such as Goods and Services Tax, sales tax, Value Added Tax and other taxes of a similar nature). Any tax the customer is subject to will be added to invoices.

Any sales transaction following Motorola's quote is based on and subject to the terms and conditions of the valid and executed written contract between Customer and Motorola (the "Underlying Agreement") that authorizes Customer to purchase equipment and/or services or license software (collectively "Products"). If no Underlying Agreement exists between Motorola and Customer, then Motorola's Standard Terms of Use and Motorola's Standard Terms and Conditions of Sales and Supply shall govern the purchase of the Products.
Motorola Solutions, Inc.: 500 West Monroe, United States - 60661 ~ #: 36-1115800

- Unless otherwise noted in this quote / order, installation of equipment is not included.

Any sales transaction following Motorola's quote is based on and subject to the terms and conditions of the valid and executed written contract between Customer and Motorola (the ""Underlying Agreement"") that authorizes Customer to purchase equipment and/or services or license software (collectively ""Products""). If no Underlying Agreement exists between Motorola and Customer, then Motorola's Standard Terms of Use and Motorola's Standard Terms and Conditions of Sales and Supply shall govern the purchase of the Products.

Motorola Solutions, Inc.: 500 West Monroe, United States - 60661 ~ #: 36-1115800

M500 In-Car Video System Solution Description

The M500 In-Car Video System is the first AI-enabled in-car video solution for law enforcement. It combines Motorola's powerful camera technology with our industry-leading digital evidence management software (DEMS), to improve the quality of evidence collected and streamline the data sharing process throughout investigation.

Video Recording and Capture

Equipped with high-definition front and cabin cameras with configurable recording resolution of up to 1080p, the M500 creates a reliable record of evidence that can be uploaded to your DEMS solution from any location with a cellular or Wi-Fi signal.

It is equipped with patented Record-After-the-Fact (RATF) technology, which ensures continuous recording from both front and cabin perspectives whenever the camera is on, even if the recording function isn't manually engaged. All RATF data is automatically uploaded to DEMS, for easy review and data capture whenever it is needed.

Display and User Interface

The M500 system features a 5" control panel with a bright, clear display. It offers an icon-driven interface and intuitive controls to streamline field operations. Users can execute any function on the device within three taps of the screen.

Automatic Recording Functionality

Users can program various sensors to activate a new recording. These sensors include emergency lights, sirens, auxiliary inputs, wireless microphones, vehicle speed, and crash detection. When these sensors are triggered, the integrated cameras automatically start recording, allowing officers to capture video evidence without manually activating any cameras.

INTEGRATION WITH V300

The M500 integrates with the V300 Body-Worn Camera for synchronized recording and playback, as well as wireless uploading. Whenever one camera in a group is activated, the Group Recording function enables other cameras in that group within Wi-Fi range to join in on a group recording for easy capture of all available information. Video evidence on a V300 Body-Worn Camera can be uploaded to your evidence management system via an in-car LTE network.

Any sales transaction following Motorola's quote is based on and subject to the terms and conditions of the valid and executed written contract between Customer and Motorola (the ""Underlying Agreement"") that authorizes Customer to purchase equipment and/or services or license software (collectively ""Products""). If no Underlying Agreement exists between Motorola and Customer, then Motorola's Standard Terms of Use and Motorola's Standard Terms and Conditions of Sales and Supply shall govern the purchase of the Products.

Motorola Solutions, Inc.
Chris Drake
Date 7/17/2023

Re: QUOTE-2235027

Agency: WATERFORD POLICE DEPT
Total Cost: 6325.00
Contract Reference:

Please be advised that the WATERFORD POLICE DEPT will purchase the goods and/or services offered in your Quote QUOTE-2235027 dated 7/17/2023 12:07 PI. This constitutes a purchase pursuant to the terms of the specified contract below, including any applicable addenda. Terms are NET 30 unless otherwise agreed upon.

Specified Contract: Master Customer Agreement and attached addenda, signed concurrently herewith.

Agency affirms that a purchase order or notice to proceed is not required for contract performance or for subsequent years of service, and acknowledges that pursuant to , the funds for this purchase has been authorized. Customer agrees to appropriate funding in accordance with the contract.

Invoices shall be according to the milestone schedule included in the quote and services agreement, should reference ' QUOTE-2235027 ' and be sent to:

WATERFORD POLICE DEPT
Attn:

The equipment will be shipped to the customer at the following address, and the ultimate destination where the equipment will be delivered to the customer is:

WATERFORD POLICE DEPT
Attn:

Sincerely,

Signature:

Name:

Title:

Email:

Online Terms Acknowledgement

This Online Terms Acknowledgement (this "**Acknowledgement**") is entered into between Motorola Solutions, Inc.("**Motorola**") and the entity set forth in the signature block below ("**Customer**").

1. Online Terms Acknowledgement. The Parties acknowledge and agree that the applicable terms available at https://www.motorolasolutions.com/product-terms are incorporated in and form part of the Parties' agreement as it relates to any Products or Services sold or provided to Customer. By signing the signature block below, Customer certifies that it has read and agrees to the provisions set forth and linked on-line in this Acknowledgement. To the extent Customer is unable to access the above referenced online terms for any reason, Customer may request a paper copy from Motorola. The signatory to this Acknowledgement represents and warrants that he or she has the requisite authority to bind Customer to this Acknowledgement and referenced online terms.

2. Entire Agreement. This Acknowledgement supplements any and all applicable and existing agreements, and supersedes any contrary terms as it relates Customer's purchase of products and services. This Acknowledgement and referenced terms constitutes the entire agreement of the Parties regarding the subject matter hereof and as set out in the referenced terms, and supersedes all previous agreements, proposals, and understandings, whether written or oral, relating to this subject matter.

3. Execution and Amendments. This Acknowledgement may be executed in multiple counterparts, and will have the same legal force and effect as if the Parties had executed it as a single document. The Parties may sign in writing or by electronic signature. An electronic signature, facsimile copy, or computer image of a signature, will be treated, and will have the same effect as an original signature, and will have the same effect, as an original signed copy of this document. This Acknowledgement may be amended or modified only by a written instrument signed by authorized representatives of both Parties.

4. Upon signature, Customer authorizes Motorola to proceed with all deliverables of this order for an order value of 6325.00

5. Purchase Order Requirements (Customer check one only)

☐ Purchase Order is issued and attached.

☐ No Purchase Order is required. Customer affirms that this ordering document is the only notice to proceed required, no further purchase orders will be issued against this order, and that funding has been encumbered for this order in its entirety.

6. Ship to, bill to and Ultimate Destination addresses are provided on the quote , attached to this letter or included on the Purchase Order.

The Parties hereby enter into this Acknowledgement as of the last signature date below.

Motorola Solutions, Inc.	**Customer:** WATERFORD POLICE DEPT
By:	By:
Name:	Name:
Title:	Title:
Date:	Date:

LETTERING - 2023

critical SIGNS AND MORE
www.Critical-Signs.com

tel. 860.443.7446
fax. 860.437.7444
1068 Hartford Turnpike
Waterford, CT 06385

Date	Invoice #
9/19/2023	29939

Waterford Police Department
41 Avery Lane
Waterford CT 06385

P.O. No.

Due Date
10/19/2023

Quantity	Description	Rate	Amount
1	Ford Explorer vehicle to have complete police lettering package- no white door wrapping like the other vehicles in fleet- customer provided white doors #16	725.00	725.00
		Subtotal	$725.00
		Sales Tax (6.35%)	$0.00

I/we agree to a service charge of 2% per month on all accounts in default and to maxium legal interest until paid.

Total	$725.00
Payments/Credits	$0.00
Balance Due	$725.00

Phone: 860-443-7446

Fax: 860-437-7444

Vehicles Report

Town of Waterford - . ublic Works

40 records

Report generated on 11/21/2023 8:44 AM by Kimberly Allen

Filters

Vehicle Group is any of or any subgroup of: POLICE

Fleetio ID	Name	Group	Year	Make	Model	Type	Current Meter	Current Meter Unit	Status	VIN/SN	License Plate	Cost Per Meter Unit (Lifetime) (USD)
2028422	ATV1	POLICE	2007	KAWASAKI	MULE OFF ROAD UTILITY VEHICLE	ALL TERRAIN VEHICLE	741.0	hr	Active	JK1AFEA127B534391		5.56
2028423	ATV2	POLICE	2017	POLARIS	A17SEA57A5 ATV	ALL TERRAIN VEHICLE	0.0	mi	Active	4XASEA571HA071534	G4737	
2028424	ATV3	POLICE	2017	POLARIS	A17SEA57A5 ATV	ALL TERRAIN VEHICLE	0.0	mi	Active	4XASEA571HA085837	G6071	
2028425	CAR1	POLICE	2020	Chevrolet	Tahoe	PATROL	88425.0	mi	Active	1GNSKDEC3LR276340	377MHN	0.12
2028426	CAR10	POLICE	2021	Ford	Explorer	PATROL	76684.9	mi	Active	1FM5K8AB4MGA64582	10WFD	0.06
2028428	CAR11	POLICE	2021	Ford	Explorer	PATROL	52405.0	mi	Active	1FM5K8AB6MGA64583	11WFD	0.1
2028429	CAR12	POLICE	2019	Ford	Sedan Interceptor	PATROL	113465.0	mi	Active	1FAHP2MKXKG106445	12WFD	0.14
2028430	CAR13	POLICE	2021	Ford	Explorer	PATROL	83205.0	mi	Active	1FM5K8AB8MGA64584	13WFD	0.12
2028431	CAR14	POLICE	2014	Chevrolet	Caprice	PATROL	80970.0	mi	Active	6G3NS5R37EL962766	14WFD	0.11
2028432	CAR15	POLICE	2017	Chevrolet	Silverado 1500	PATROL	58960.0	mi	Active	3GCUKNEC4HG276068	AG43371	0.22
2028433	CAR16	POLICE	2020	Chevrolet	Tahoe	PATROL	41535.0	mi	Out of Service	1GNSKDEC4LR276122	16WFD	0.04
2028434	CAR17	POLICE	2019	Ford	Utility Interceptor	PATROL	93424.0	mi	Active	1FM5K8AR6KGB14599	17WFD	0.11
2510477	CAR18	POLICE	2019	Ford	Explorer	Car	133750.0	mi	Active	1FM5K8AR9KGB14600	18WFD	0.15
2513580	CAR19	POLICE	2021	Ford	Explorer	Car	67085.0	mi	Active	1FM5K8ABXMGA64585	19WFD	0.36

Fleetio ID	Name	Group	Year	Make	Model	Type	Current Meter	Current Meter Unit	Status	VIN/SN	License Plate	Cost Per Meter Unit (Lifetime) (USD)
2172521	CAR2	POLICE	2016	Ford	Utility Interceptor	CRUISER	120824.0	mi	Active	1FM5K8AR9GGB89109	2WFD	0.53
2028437	CAR20	POLICE	2022	Ford	Explorer	Passenger/Admin	7240.0	mi	Active	1FM5K8AB6NGB76852	AB38068	
2028453	CAR21	POLICE	2022	Ford	Utility Interceptor	PATROL	5065.0	mi	Active	1FM5K8AB3NGA27430	4WFD	0.05
2028439	CAR21 (OLD)	POLICE	2011	Ford	Expedition	PATROL	81849.0	mi	Sold	1FMJU1G55BEF53860	21WFD	0.02
2028441	CAR22	POLICE	2015	Ford	Utility Interceptor	PATROL	137075.0	mi	Out of Service	1FM5K8AR7FGA94448	22WFD	0.83
2028442	CAR23	POLICE	2017	Ford	Utility Interceptor	PATROL	36080.0	mi	Active	1FM5K8AR5HGB83275	AG79330	0.04
2028443	CAR24	POLICE	2020	Ford	Utility Interceptor	PATROL	18451.0	mi	Active	1FM5K8AB5LGB85362	AZ70025	0.04
2498586	CAR25	POLICE	2023	Ford	Explorer	PATROL	65.9	mi	Active	1FM5K8AB4PGA04015	583UTH	
2028445	CAR26	POLICE	2022	Ford	Utility Interceptor	PATROL	12610.0	mi	Active	1FM5K8AB6NGA27373	584UTH	0.01
2028446	CAR27	POLICE	2017	Ford	Utility Interceptor	PATROL	53940.0	mi	Active	1FM5K8AR6HGA79474	8AMLP7	0.0
2028447	CAR28	POLICE	2015	Ford	Utility Interceptor	PATROL	63790.0	mi	Active	1FM5K8AR0FGA89060	8AMLP7	0.1
2028448	CAR29	POLICE	2014	Chevrolet	Caprice	PATROL	115425.0	mi	Active	6G3NS5R34EL958190	935GHH	0.18
2028542	CAR3	POLICE	2018	Ford	Utility Interceptor	PATROL	110320.0	mi	Active	1FM5K8AR7JGA84866	3WFD	0.09
2028449	CAR30	POLICE	2018	Ford	Utility Interceptor	Passenger/Admin	38730.0	mi	Active	1FMK8AR9JGA84867	156MCM	0.09
2028450	CAR31	POLICE	2016	Ford	Utility Interceptor	Passenger/Admin	82910.0	mi	Active	1FM5K8AR9GGB19609	AB38069	0.18
2028452	CAR34	POLICE	2011	Ford	Taurus	Passenger/Admin	176560.0	mi	Active	1FAHP2HW1BG145602	931PHE	0.07
2028440	CAR4	POLICE	2022	Ford	Utility Interceptor	PATROL	31035.0	mi	Active	1FM5K8AB3NGA27556	4WFD	0.09
2028454	CAR5	POLICE	2021	Ford	Explorer	PATROL	54328.0	mi	Active	1FM5K8AB2MGA64581	5WFD	0.1
2028455	CAR6	POLICE	2019	Chevrolet	Tahoe	PATROL	130935.0	mi	Active	1GNSKDEC0KR392402	6WFD	0.19
2028456	CAR7	POLICE	2016	Ford	Utility Interceptor	PATROL	116300.0	mi	Active	1FM5K8AR9GGB89112	7WFD	0.29
2028457	CAR8	POLICE	2020	Chevrolet	Tahoe	PATROL	68620.0	mi	Active	1GNSKDEC5LR276498	8WFD	0.15

Fleetio ID	Name	Group	Year	Make	Model	Type	Current Meter	Current Meter Unit	Status	VIN/SN	License Plate	Cost Per Meter Unit (Lifetime) (USD)
2028458	CAR9	POLICE	2019	Ford	Sedan Interceptor	PATROL	113955.0	mi	Active	1FAHP2MK8KG106444	9WFD	0.11
2028459	CP1	POLICE	1998	Ford	E-Series Chassis	Command Post	0.0	mi	Active	1FDXE40F2WHB92670	118WFD	
2095547	PD1	POLICE	1993	CROSS	59 TRAILER	BOX TRAILER	0.0	mi	Active	1C9FS0917P1431062	152WFD	
2028460	PD2	POLICE	2012	Sea Ark Marine 2810V	28' Dauntless Ram Patrol BOAT AND PROPULSION PKG	Boat (Police)	0.0	mi	Active	SAMA2026H111	N/A	
2741751	PD800	POLICE	2013	POLARIS	RANGER CREW	ALL TERRAIN VEHICLE	3008.0	mi	Active	4XAWH76A9D2713010		

Service History by Vehicle

19 records

Town of Waterford Public Works

Report generated on 11/21/2023 8:47 AM by Kimberly Allen

Filters

Vehicle: Car15, Car28, Car29, Car31, Car3

Labor Cost	Parts Cost	Total Cost
$2,600.39	$5,235.28	$7,835.67

Vehicle

CAR15

Service Entry	Start Date	Completion Date	Duration	Vendor	Primary Meter	Service Tasks	Resolved Issue Summary	Total Labor	Total Parts	Total Cost
18788273	07/17/2023 8:00 AM	07/25/2023 12:00 PM	8 days 4 hrs 0 mins		58,960 mi	Engine Oil & Filter Replacement • Vehicle Multi-Point Inspection • Tire Rotation • Brake Vacuum Pump Replacement • Front Brakes & Drums • Engine Mount Inspect	Anti-lock brake system service • Due for service	$597.90	$756.47	$1,354.37
17773688	05/23/2023 1:00 PM	05/23/2023 2:00 PM	1 hr 0 mins		57,538 mi	Tire Repair Kit Sealant Inspect		$44.91	$0.00	$44.91
15889161	01/30/2023 1:00 PM	01/31/2023 11:00 AM	22 hrs 0 mins		54,961 mi	Engine Oil & Filter Replacement • Vehicle Multi-Point Inspection • Tire Rotation	PM	$174.60	$59.50	$234.10
							Total Amount	$817.41	$815.97	$1,633.38

Vehicle

CAR28

Service Entry	Start Date	Completion Date	Duration	Vendor	Primary Meter	Service Tasks	Resolved Issue Summary	Total Labor	Total Parts	Total Cost

Service Entry	Start Date	Completion Date	Duration	Vendor	Primary Meter	Service Tasks	Resolved Issue Summary	Total Labor	Total Parts	Total Cost
15410035	12/14/2022 2:00 PM	12/15/2022 8:04 AM	18 hrs 4 mins		63,790 mi	Engine Oil & Filter Replacement • Vehicle Multi-Point Inspection • Tire Rotation		$116.40	$164.21	$280.61
							Total Amount	$116.40	$164.21	$280.61

Vehicle

CAR29

Service Entry	Start Date	Completion Date	Duration	Vendor	Primary Meter	Service Tasks	Resolved Issue Summary	Total Labor	Total Parts	Total Cost
19985083	09/26/2023 3:00 PM	09/28/2023 3:30 PM	2 days 0 hrs 30 mins		115,425 mi	Exhaust/Emissions (Miscellaneous)	Exhaust Leak	$159.44	$47.16	$206.60
18990343	08/07/2023 8:30 AM	08/08/2023 12:00 PM	1 day 3 hrs 30 mins		114,525 mi	Engine Oil & Filter Replacement • Vehicle Multi-Point Inspection • Tire Rotation • Front Brakes & Drums • Rear Brakes & Drums • Tire Replacement • Battery Replacement	Reed 93	$199.30	$1,400.77	$1,600.07
15732500	01/12/2023	01/17/2023 10:34 AM	5 days		108,859 mi	Vehicle Multi-Point Inspection • Tire Rotation • Engine Oil & Filter Replacement	PM	$0.00	$73.32	$73.32
							Total Amount	$358.74	$1,521.25	$1,879.99

Vehicle

CAR3

Service Entry	Start Date	Completion Date	Duration	Vendor	Primary Meter	Service Tasks	Resolved Issue Summary	Total Labor	Total Parts	Total Cost
20245478	10/16/2023 9:00 AM	10/16/2023 10:00 AM	1 hr 0 mins		110,320 mi	Warning lamp replacement	Replace spotlight assembly.	$39.86	$0.00	$39.86
19501740	09/05/2023 8:00 AM	09/05/2023 2:30 PM	6 hrs 30 mins		108,140 mi	Engine Oil & Filter Replacement • Vehicle Multi-Point Inspection • Tire Rotation • Transmission Fluid Drain & Refill • A/C System Evacuate & Recharge	Service	$239.16	$289.70	$528.86

Service Entry	Start D	Completion Date	Duration	Vendor	Primary Meter	Service Tasks	Resolved Issue Summary	Total Labor	Total Parts	Total Cost
19447872	08/31/2023 2:00 PM	08/31/2023 2:30 PM	30 mins		107,904 mi	Battery Replacement		$11.54	$149.95	$161.49
17813296	05/24/2023 8:00 AM	05/24/2023 12:30 PM	4 hrs 30 mins		103,805 mi	Engine Oil & Filter Replacement • Vehicle Multi-Point Inspection • Tire Rotation • Windshield Washer System Inspect	PM- Scheduled for 8am Wedne...	$116.40	$94.20	$210.60
16930301	03/30/2023 7:30 AM	03/30/2023 10:30 AM	3 hrs 0 mins		100,045 mi	Engine Oil & Filter Replacement • Tire Rotation • Vehicle Multi-Point Inspection	PM	$116.40	$85.51	$201.91
16003269	02/08/2023 8:00 AM	02/08/2023 10:00 AM	2 hrs 0 mins		97,440 mi	HVAC Blower Motor Replacement	HVAC Blower	$38.80	$141.74	$180.54
15550710	12/30/2022 7:30 AM	12/30/2022 12:00 PM	4 hrs 30 mins		94,780 mi	Engine Oil & Filter Replacement • Tire Rotation • Vehicle Multi-Point Inspection		$116.40	$53.23	$169.63
15152572	11/09/2022	11/09/2022			91,135 mi	Engine Oil & Filter Replacement • Front Brakes & Drums	PM	$194.00	$551.64	$745.64
							Total Amount	$872.56	$1,365.97	$2,238.53

Vehicle

CAR31

Service Entry	Start Date	Completion Date	Duration	Vendor	Primary Meter	Service Tasks	Resolved Issue Summary	Total Labor	Total Parts	Total Cost
19821284	09/20/2023 11:00 AM	09/20/2023 11:32 AM	32 mins		82,910 mi	Tire Pressure Monitoring System Reset		$19.93	$49.85	$69.78
18817385	07/26/2023 8:00 AM	07/27/2023 12:00 PM	1 day 4 hrs 0 mins		82,040 mi	Engine Oil & Filter Replacement • Vehicle Multi-Point Inspection • Tire Rotation • Tire Replacement • Front Suspension (Miscellaneous) • Rear Brakes & Drums	Service	$279.02	$1,236.18	$1,515.20
18505636	07/07/2023 9:30 AM	07/10/2023	3 days		81,492 mi	Sun visor repair		$19.93	$5.74	$25.67
16596989	03/15/2023 8:00 AM	03/15/2023 12:00 PM	4 hrs 0 mins		79,060 mi	Engine Oil & Filter Replacement • Vehicle Multi-Point Inspection • Tire Rotation	Oil Change Needed	$116.40	$76.11	$192.51

Service Entry	Start Date	Completion Date	Duration	Vendor	Primary Meter	Service Tasks	Resolved Issue Summary	Total Labor	Total Parts	Total Cost
							Total Amount	$435.28	$1,367.88	$1,803.16

RECREATION & PARKS

FLEET Asset ID	License Plate No.	Repl. Cycle in Years	Class Description	Asset Model Year	In-Service Date	Gross Vehicle Cost	Manuf.	Model	2025	2026	2027	2028	2029	Current Mileage / or Usage Hours	Total Repair Costs to date
R10	36WFD	14	PICK UP	2014	12/6/2013	$33,570	Chevrolet	Silverado K250		$47,500				75,392	
R11	37WFD	14	PICK UP	2015	12/31/2014	$52,824	Chevrolet	346			$55,000			40,165	
P51	119WFD	15	TRACTOR	2003	9/30/2003	$140,895	JOHN DEERE	4710 TRACTOR (diesel)		80,000				592 hrs	$10,320.16
P53	N/A	10	MOWER, LARGE	2016	10/19/2016	$60,650	TORO	GROUNDSMASTER 4100 (diesel)	60,650					1,593 hrs	$4,978.40
P54	N/A	10	MOWER	2017	11/14/2017	$11,000	Ferris	IS 3200 72" Mower			$18,000			1,225 hrs	$3,467.55
P55	N/A	10	MOWER, LARGE	2016	10/19/2016	$60,650	TORO	Groundsmaster 4100 (diesel)	60,650					1,125 hrs	$3,923.66
P60	N/A	10	MOWER, LARGE	2013	1/10/2014	$61,160	Toro	Groundsmaster 4000 D - 10' mower (diesel)		$61,160				2,171 hrs	$12,967.41
P62	N/A	10	MOWER	2013	8/23/2013	$27,568	GROUND MASTER	3280 MOWER/HI-LIFT & BLOWER KIT (diesel)	28,000					736 hrs	$4,074.56
P63	N/A	10	MOWER	2016	10/19/2016	$18,277	TORO	GM7200 - 6' mower (diesel)		$21,000				1,691 hrs	$4,873.72
P74	N/A	10	TRAP RAKE	2016	6/7/2016	$19,572	TORO	SANDPRO INFIELD PRO 3040	21,000					902 hrs	$1,870.48
P94	142WFD	20	TRAILER	2008	8/12/2008	$3,515						$5,500			
P90	143WFD	20	TRAILER	2008	10/30/2008	$3,534	Carry-On Trailer Corp.	Heavy Duty Landscape Trailer			$5,500				
P92	141WFD	20	TRAILER	1996	1/1/1996	$3,890	Cross Country			$7,998					

Additional Request for UTV in Civic Triangle

Quotes	TPC	Deere		
	$41,237.93	$42,698.21	$46,000	To include water tank for garden maintenance

SandPro issue when repairs needed, need two machines — **Do not surplus old machine when replacing.**

Robo-painter	SWOZI $49,500	TurfTank $17,696/annual subscription	$49,500	SWOZI - own over lease

Vehicles Report

Town of Waterford - . ublic Works

26 records

Report generated on 11/21/2023 2:54 PM by Kimberly Allen

Filters

Vehicle Group is any of or any subgroup of: REC/PARKS

Fleetio ID	Name	Group	Year	Make	Model	Type	Current Meter	Current Meter Unit	Status	VIN/SN	License Plate	Cost Per Meter Unit (Lifetime) (USD)
2095578	OLD P65	REC/PARKS	2013	TORO	GROUNDSMASTER W/PLOW ATTACH (diesel)	MOWER, LARGE	0.0	mi	Active	312000301	N/A	
2095568	P51	REC/PARKS	2003	JOHN DEERE	4710 TRACTOR (diesel)	TRACTOR	0.0	mi	Active	CVW1JD4510AS	119WFD	
2095569	P53	REC/PARKS	2016	TORO	GROUNDSMASTER 4100 (diesel)	MOWER, LARGE	1433.0	hr	Active	316000766	N/A	
2095570	P54	REC/PARKS	2017	Ferris	IS 3200 72" Mower	Mower	1246.0	hr	Active	2017982141	N/A	26.97
2095571	P55	REC/PARKS	2016	TORO	Groundsmaster 4100 (diesel)	MOWER, LARGE	0.0	mi	Active	316000682	N/A	
2095572	P59	REC/PARKS	2018	KUBOTA	L6060HSTC	TRACTOR	1740.0	hr	Active	46996	42WFD	24.0
2095573	P60	REC/PARKS	2013	Toro	Groundsmaster 4000 D - 10' mower (diesel)	MOWER, LARGE	2000.0	hr	Active	313000145	N/A	
2095574	P61	REC/PARKS	2014	KUBOTA	L4760HSTC TRACTOR/LOADER w/attachments (diesel)	TRACTOR	2849.0	hr	Active	30612	43WFD	20.78
2095575	P62	REC/PARKS	2013	GROUND MASTER	3280 MOWER/HI-LIFT & BLOWER KIT (diesel)	Mower	677.0	hr	Active	313,000,335,313,000,000	N/A	
2095576	P63	REC/PARKS	2016	TORO	GM7200 - 6' mower (diesel)	Mower	1750.0	hr	Active	316000281	N/A	10.64
2095577	P64	REC/PARKS	2006	SEEDA-VATOR	SE-60E	SEEDER	0.0	mi	Active	483	N/A	
2266355	P65	REC/PARKS	2022	VENTRAC	4520Z	Mower	54.0	hr	Active	4520Z-AR03257		5.09
2095579	P74	REC/PARKS	2016	TORO	SANDPRO INFIELD PRO 3040	TRAP RAKE	1037.0	hr	Active	316000434	N/A	23.99

Fleetio ID	Name	Group	Year	Make	Model	Type	Current Meter	Current Meter Unit	Status	VIN/SN	License Plate	Cost Per Meter Unit (Lifetime) (USD)
2095581	P90	REC/PARKS	2008	Carry-On Trailer Corp.	Heavy Duty Landscape Trailer	Trailer	0.0	mi	Active	4YMUL18289V006081	143WFD	
2095583	P91	REC/PARKS	2019	BRI-MAR	20 FT Trailer	Trailer	0.0	mi	Active	58CB1EF27LC001480	136WFD	
2095582	P92	REC/PARKS	1996	Cross Country		Trailer	0.0	mi	Active	1C9FS2227T1432852	141WFD	
2095585	P93	REC/PARKS	2019	BRI-MAR	Dump Body Trailer	Trailer	0.0	mi	Active	58CB1DB2OLC001479		
2095580	P94	REC/PARKS	2008			Trailer	0.0	mi	Active	4YMUL18278V194364	142WFD	
2095567	P95	REC/PARKS	1999	Parker	Utility Trailer	Trailer	0.0	mi	Active	13ZSA1014X1000005	345WFD	
2028514	R10	REC/PARKS	2014	Chevrolet	Silverado 2500HD	Truck	73355.0	mi	Active	1GC0KVCGXEF155367	36WFD	0.16
2028515	R11	REC/PARKS	2015	Chevrolet	Silverado 3500HD	Truck	40172.0	mi	Active	1GB3KYCG9FF540956	37WFD	0.12
2028516	R14	REC/PARKS	2009	Ford	F-450 Super Duty	Truck	74056.0	mi	Active	1FDAF47R49EA08998	38WFD	
2028517	R15	REC/PARKS	2020	Ford	F-250 Super Duty	Truck	20031.0	mi	Active	1FTBF2B63LEC13911	100WFD	0.13
2028518	R16	REC/PARKS	2020	Ford	F-250 Super Duty	Truck	21059.0	mi	Active	1FTBF2B65LEC13912	44WFD	0.07
2028543	R8	REC/PARKS	2016	Chevrolet	Silverado 1500 PU	PICK UP	38840.0	mi	Active	1GCNKNEC9GZ302876	34WFD	0.14
2028513	R9	REC/PARKS	2020	Ford	F-350 Super Duty	Truck	25460.0	mi	Active	1FDRF3H6XLEC13931	35WFD	0.09

Service History by Vehicle

Town of Waterford - Public Works

Report generated on 11/16/2023 11:44 AM by Garon VanOverloop

3 records

Filters

Status: completed Vehicle: R11

Labor Cost	Parts Cost	Total Cost
$1,175.53	$1,391.38	$2,566.91

Vehicle

R11

Service Entry	Start Date	Completion Date	Primary Meter	Service Tasks	Resolved Issue Summary	Total Labor	Total Parts	Total Cost
20130072	09/27/2023 2:46 PM	10/06/2023 7:59 AM	40,172 mi	Preventative Maintenance • Engine Oil & Filter Replacement • Vehicle Multi-Point Inspection • Tire Rotation • Trailer Light Wiring Harness Inspect • FUSE BOX RELACEMENT • Oxygen Sensor Replacement • EVAP Purge Control Solenoid Replacement • Fuel Evaporative Emission Control System Inspect • Fuel Pump Replacement	PM	$320.10	$762.06	$1,082.16
17615316	05/05/2023 12:30 PM	05/11/2023 3:30 PM	38,630 mi	Battery Cable Inspect, Battery to Starter • Starter Motor Replacement • ELECTRONIC BRAKE CONTROL	Check the charging and star...	$271.60	$94.58	$366.18
17251545	03/06/2023 11:53 AM	03/13/2023	37,911 mi	Undercoating • Warning lighting Installation		$583.83	$534.74	$1,118.57
					Total Amount	$1,175.53	$1,391.38	$2,566.91

DATE: 11/16/2023
TIME: 11:45 a.m.

TOWN OF WATERFORD
VEHICLE REPAIR HISTORY REPORT
FACILITY: 00001

ID: 1-32/RRV PAGE: 1

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: r11
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: r11

UNIT: R11 LF MTR: 36256.0 CUR MTR: 36256.0 YR: 15 MAKE: CHEVY DEPT: R&P SIZE: L CLASS: DUMP FUEL: U

VMRS CODE	DATE	WO NUM	LF-MILS ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
013 TITLE > BRAKES													
013-001-000	07292022	2037251	36260	36256 FRONT BRAKE PADS &		1369.76	485.10	1854.86	18.00	07	01	8	XX
013-002-000	07292022	2037251	36260	36256 REAR BRAKE PADS		413.34	539.00	952.34	20.00	07	01	8	XX
013-003-000	06182020	2035937	28110	28109 REAR BRAKE PADS &		428.30	1011.08	1439.38	28.00	04	01	8	XX
013 TOTAL >BRAKES						2211.40	2035.18	4246.58					
017 TITLE > TIRES,TUBES,LINERS													
017-05-000	10282021	2036722	34880	34884 TIRE REPLACEMENT		714.36	151.04	865.40	4.00	06	01	8	
017 TOTAL >TIRES,TUBES,LINERS						714.36	151.04	865.40					
031 TITLE > CHARGING SYSTEM													
031-004-000	07302021	2036274	31350	31348 ALTERNATOR BRACKET		0.00	68.78	68.78	2.00	06	01	8	XX
031 TOTAL >CHARGING SYSTEM						0.00	68.78	68.78					
032 TITLE > CRANKING SYSTEM													
032-002-000	08112021	2036608	33510	33506 BATTERY		184.99	36.92	221.91	1.00	05	01	8	XX
032-010-000	07292022	2037251	36260	36256 STARTER		277.31	8.09	285.40	0.30	07	01	8	XX
032-013-000	07292022	2037251	36260	36256 BATTERY TEST		179.99	8.09	188.08	0.30	07	01	8	XX
032 TOTAL >CRANKING SYSTEM						642.29	53.10	695.39					
034 TITLE > LIGHTING SYSTEM													
034-004-000	03012017	2031955	10950	10945 WIRING / REPAIR		36.22	117.32	153.54	4.00	06	01	4	XX
034-040-000	12072021	2036814	36260	36256 WIRING HARNESS ALL		1536.09	404.25	1940.34	15.00	07	01	8	XX
034 TOTAL >LIGHTING SYSTEM						1572.31	521.57	2093.88					
042 TITLE > COOLING SYSTEM													
042-045-000	07292022	2037251	36260	36256 WATER PUMP		557.24	161.70	718.94	6.00	07	01	8	XX
042 TOTAL >COOLING SYSTEM						557.24	161.70	718.94					
051 TITLE > GENERAL ACCESSORIES													
051-000-000	02102015	2028975	1260	1258 GENERAL ACCESSORIE		0.00	24.88	24.88	1.00	06	01	4	XX
051-017-000	01062015	2028727	150	150 LICENSE PLATE INST		0.00	99.52	99.52	4.00	05	01	11	XX
051 TOTAL >GENERAL ACCESSORIES						0.00	124.40	124.40					

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: r11
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: r11

UNIT: R11 LF MTR: 36256.0 CUR MTR: 36256.0 YR: 15 MAKE: CHEVY DEPT: R&P SIZE: L CLASS: DUMP FUEL: U

VMRS CODE	DATE	WO NUM	LF-MILS	ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
052 TOTAL >ELECTRICAL ACCESSRES							119.15	430.72	549.87					
066 TITLE > PREVENTIVE MAINTENAN														
066-001-000	07292022	2037251	36260	36256	PM-A		85.30	67.38	153.68	2.50	07	01	8	XX
066-001-000	11012021	2036748	34880	34884	PM-A		65.59	71.40	136.99	3.00	09	01	8	XX
066-001-000	03152021	2036356	31350	31348	PM-A		82.84	271.52	354.36	8.00	02	01	8	XX
066-001-000	05102018	2033663	17560	17555	PM-A		400.45	410.62	811.07	14.00	06	01	8	XX
066-002-000	11202019	2035341	26000	26000	PM-B		30.86	318.48	349.34	8.00	03	01	8	XX
066-002-000	04182019	2034434	22130	22125	PM-B		783.75	155.76	939.51	4.00	03	01	8	XX
066-002-000	10242017	2032920	13650	13654	PM-B		88.69	72.36	161.05	3.00	07	XX	8	X
066-002-000	08132015	2029895	3520	3521	PM-B		19.76	99.52	119.28	4.00	06	XX	8	XX
066 TOTAL >PREVENTIVE MAINTENAN							1558.24	1467.04	3025.28					
099 TITLE > ROAD CALL TRAVEL TIM														
099-000-000	05222020	2035847	27800	27795	ROAD CALL TRAVEL T		0.00	34.39	34.39	1.00	05	01	8	XX
099-001-000	11132018	2034259	19920	19916	ROAD SERVICE ROAD		0.00	64.08	64.08	2.00	06	01	8	XX
099-001-000	01082018	2033478	15790	15788	ROAD SERVICE ROAD		63.74	12.06	75.80	0.50	07	01	8	XX
099-001-000	01082018	2033239	14420	14424	ROAD SERVICE ROAD		54.70	72.36	127.06	3.00	07	01	10	XX
099-001-000	01072016	2030364	5800	5798	ROAD SERVICE ROAD		24.94	33.62	58.56	1.50	07	01	10	XX
099-002-000	06212018	2033350	15790	15788	PLOWS (BLADES/SHOE		131.31	29.33	160.64	1.00	05	01	8	XX
099-002-000	01192016	2030464	5910	5905	PLOWS (BLADES/SHOE		403.46	231.84	640.30	7.00	04	01	4	XX
099-003-000	11162016	2031593	9930	9930	SPREADERS		75.87	234.64	310.51	8.00	06	01	4	XX
099-003-000	01212016	2030477	5910	5905	SPREADERS		18.00	44.82	62.82	2.00	07	01	4	XX
099-006-000	11142018	2034236	19950	19950	SANDER REPAIR		0.00	141.96	141.96	4.00	06	01	8	XX
099-008-000	02292020	2035463	26000	26000	GENERAL CHECK		61.16	40.43	101.58	1.50	07	01	8	XX
099-009-000	06222022	2037196	36260	36256	DIAGNOSIS		0.00	37.76	37.76	1.00	06	01	8	XX
099-009-000	01132020	2035630	26570	26570	DIAGNOSIS		291.92	1031.70	1323.62	30.00	06	01	8	XX
099-009-000	01062017	2031829	10170	10167	DIAGNOSIS		609.99	376.52	986.51	9.00	05	01	4	XX
099-018-000	03012019	2034495	22130	22125	TRANSPORT VEHICLES		29.92	128.16	158.08	4.00	05	01	8	XX
099-018-000	03152017	2032151	11120	11121	TRANSPORT VEHICLES		44.39	29.33	73.72	1.00	05	01	4	XX
099-041-000	12052017	2033072	14420	14424	REPAIRS		0.00	117.32	117.32	4.00	05	01	4	XX
099 TOTAL >ROAD CALL TRAVEL TIM							1814.40	2660.32	4474.72					
150 TITLE > ROAD TEST														
150-000-000	01062015	2028727	150	150	ROAD TEST		0.00	99.52	99.52	4.00	05	01	11	XX
150 TOTAL >ROAD TEST							0.00	99.52	99.52					

052 TITLE > ELECTRICAL ACCESSRES											
052-000-000	02192016	2030639	6690	6692	ELECTRICAL ACCESSR	119.15	331.20	450.35	10.00	04	01 5 XX
052-003-000	01062015	2028727	150	150	RADIO EQUIPMENT IN	0.00	99.52	99.52	4.00	05	01 11 XX

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: r11
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: r11

VMRS Code	METER : STANDARD QUANTITY	SUBTOTALS OF VMRS CODES FOR DIVISION > AL LABOR HRS	LABOR COST	PARTS COST	PERIOD : LIFE TOTAL COST	PERCENT	TOT COST /METER
013 BRAKES	3	66.00	2035.18	2211.40	4246.58	25.03 %	0.11713
017 TIRES,TUBES,LINERS	1	4.00	151.04	714.36	865.40	5.10 %	0.02387
031 CHARGING SYSTEM	1	2.00	68.78	0.00	68.78	0.41 %	0.00190
032 CRANKING SYSTEM	3	1.60	53.10	642.29	695.39	4.10 %	0.01918
034 LIGHTING SYSTEM	2	19.00	521.57	1572.31	2093.88	12.34 %	0.05775
042 COOLING SYSTEM	1	6.00	161.70	557.24	718.94	4.24 %	0.01983
051 GENERAL ACCESSORIES	2	5.00	124.40	0.00	124.40	0.73 %	0.00343
ELECTRICAL ACCESSRES	2	14.00	430.72	119.15	549.87	3.24 %	0.01517
PREVENTIVE MAINTENANCE	8	46.50	1467.04	1558.24	3025.28	17.83 %	0.08344
099 ROAD CALL TRAVEL TIME	17	80.50	2660.32	1814.40	4474.72	26.38 %	0.12342
150 ROAD TEST	1	4.00	99.52	0.00	99.52	0.59 %	0.00274
TOTALS:	41	248.60	7773.37	9189.39 TOT:	16962.76	100.00 %	0.46786

Purchase Order

Fiscal Year 2023 Page: 1 of: 1

THIS NUMBER MUST APPEAR ON ALL INVOICES, PACKAGES AND SHIPPING PAPERS

Purchase Order # 230418

Terms and Conditions under which this order is issued can be found on the town's website at: www.waterfordct.org

BILL TO
TOWN OF WATERFORD
ATTN: REC & PARK
15 ROPE FERRY RD
WATERFORD, CT 06385

VENDOR
HARTFORD TRUCK EQUIPMENT INC
95 JOHN FITCH BLVD
SOUTH WINDSOR, CT 06074

SHIP TO
TOWN OF WATERFORD
ATTN: REC AND PARK
24 ROPE FERRY RD
WATERFORD, CT 06385

Vendor Phone Number	Requisition Number	Delivery Reference
	230542	

Date Ordered	Vendor Number	Freight Method/Terms	Department/Location
12/12/2022	1481		RECREATION & PARKS

Item #	Description/Part No	QTY	UOM	Unit Price	Extended Price
1	R11 Truck Body repairs Repairs to R11 - body repairs	1.0	EACH	$12,250.00	$12,250.00

By: _____
Purchasing Agent

VENDOR COPY

Total Ext. Price	$12,250.00
P.O. Total	$12,250.00

2 Mason Dump

CNGP530 VEHICLE ORDER CONFIRMATION 11/06/23 09:07:51
Dealer: F11222
=#> Page: 1 of 1

2024 F-SERIES SD

Order No: 0000 Priority: B1 Ord FIN: QS048 Order Type: 5B Price Level: 420
Ord PEP: 640A Cust/Flt Name: WATERFODR PO Number:

		RETAIL	DLR INV
F3H	F350 4X4 CHAS/C	$52345	$49728.00
	145" WHEELBASE		
HX	ANTIMATTER BLUE		
A	VNYL 40/20/40		
S	MED DARK SLATE		
640A	PREF EQUIP PKG		
	.XL TRIM		
572	.AIR CONDITIONER	NC	NC
	.AMFM/MP3/CLK		
99N	.7.3L DEV V8 ENG		
44G	10-SPD AUTOMATC	NC	NC
TD8	.LT245 BSW AS 17	NC	NC
X37	3.73 REG AXLE	NC	NC
	FRT LICENSE BKT	NC	NC
18B	PLAT RUNNING BD	320	291.00

		RETAIL	DLR INV
	14000# GVWR PKG		
425	50 STATE EMISS	NC	NC
473	SNOW PLOW PREP	250	228.00
	JOB #1 BUILD		
65Z	AFT AXLE TANK	NC	NC
67A	350 AMP ALTRNTR	NC	NC
86M	DUAL BATTERY	210	191.00
	SP FLT ACCT CR		(1461.00)
	FUEL CHARGE		26.08
	DEST AND DELIV	1995	1995.00
TOTAL	BASE AND OPTIONS	55120	50998.08
TOTAL		55120	50998.08

THIS IS NOT AN INVOICE

F1=Help F2=Return to Order F3/F12=Veh Ord Menu
F4=Submit F5=Add to Library
5099 - PRESS F4 TO SUBMIT QC06048

Budgeted

50,400.

HARTFORD TRUCK EQUIPMENT
95 John Fitch Blvd. South Windsor, CT
860.290.8515 HartfordTruck.com
sales@hartfordtruck.com

QUOTATION

Quote: 092223-SB6
Ref: 23 F350 SRW
End User:
Date: 09/22/23

Town of Waterford - Garon

We are pleased to quote on the following:
One (1) **Fisher** plow model 9'6" XV2 w/ handheld controller. Including:

- 9'6" long x 31"-39" high. 8'6" (full angled), 8'2" (scooped), 8'7" (full V)
- Blade approximately weighs 1044 lbs.
- 14 gauge **STAINLESS STEEL** blade. Black powder coat finish on mounts
- 1 1/4" steel center pin for added strength and rigidity
- 4 vertical ribs & 8 x-bracing ribs for torsional strength to eliminate blade twisting
- Trip-edge design w/ 6 trip springs allows for only the bottom edge to trip keeping blade upright
- This design uses compression-type springs that never require adjustment and will not wear out
- T-Frame provides optimum strength to weight ratio. Allows for adjustment of blade for even wear
- Double acting cylinders lock wings to use V-plow or straight blade with single button control
- Center deflector to prevent snow from going over blade
- Lift ram is 1 3/4 " diameter for more lifting power and durability while in use
- "Minute Mount II" mounting system allows for easy on & off
- 70 degree attack angle provides enhanced scraping and back dragging ideal for ice & hard snow
- 1/2" x 6" steel cutting edge provides increased wear resistance and a clean scrape
- Dual-halogen headlamps with park/turn signals
- "Security Guard" electronically locks the plows hydraulic functions
- 2-year parts and labor warranty

Installed Price: $ 9,400.00

OPTIONS: (Circle Desired Add-Ons)

NEW *Intensifire* LED Headlamps w/ Edgeview Technology	(ADD) $ 350.00
Dash Mount Joystick in lieu of Handheld	N/C
HTE Emergency Roadside Kit	175.00
Commercial Mount (ADD)	300.00
Cupholder Mount Kit for Hand-Held (82006)	55.00
24" Fluorescent Commercial Blade Guides (26530K) (36" (51975) ADD $33.00)	56.00
28" LED Illuminated Guides (1308128) (36" (1308136) ADD $20)	195.00
10" Rubber Deflector (41812-1)(18" (41813-1) ADD $182.00)	384.00
Curb Wear Kit (43885)	330.00

Initial : _____ Vin:_____ Date:_____

**NOTE: Hartford Truck Equipment will accept dealer purchase orders for pool chassis without a plant date on a "subject to change" basis only. If the chassis does not have a plant date when the dealer PO is issued and our body/equipment manufacturer announces a price change that would affect the items on your PO, a revised PO will be required reflecting these price changes.

Terms: Net Due ETA: TBD.

For additional terms and signature complete 2nd page

Respectfully Submitted: Sean Breslin Hartford Truck Equipment Inc.
REV: P 09/21/2023

HARTFORD TRUCK EQUIPMENT
95 John Fitch Blvd. South Windsor, CT
860.280.0516 HartfordTruck.com
sales@hartfordtruck.com

QUOTATION

Quote: 092223-SB8
Ref: 23 F350 60" CA DRW
End User:
Date: 09/22/23

Town of Waterford - Garon

We are pleased to quote on the following:
One (1) **SH Truck Bodies** Mason/Contractor Dump Body model **DB4000-12-9.3** including,
- 2-3 Yard Steel Dump Body, 1,825 lb. Approx. Weight
- 9'3 Long x 96" Wide w/ 12" High Sides, 18" Tailgate
- 10 ga. Steel Floor & Sides w/ 12 ga. Outer Wall Sides
- 3" Structural Channel Crossmembers on 12" Centers
- Front & Rear Posts 6" Higher Than Sides w/ Sideboard Brackets
- 18" Cab Shield w/ Brackets for Sideboards
- Painted Black w/ Primer Undercoat & Urethane Topcoat

Champion #SW-CS615T-SF Dbl-Acting Electric/Hydraulic Scissor Hoist w/Approx. 9.8 Cap.
Combo Pintle 2-5/16" Ball Installed & Reinforced to Frame w/Swivel D-Rings & 1/2" Thick Steel Plate
7 RV Style Trailer Plug
Manual Load Cover
97db Back Up Alarm**
Body Up Warning Alarm
Two (2) Rear Mud Flaps w/ Anti-Sail Brackets

Installed Price: $ 11,985.00

Mandatory if vehicle is equipped with:

Back Up Cam - Mount Cam & Tie into **OEM** System	100.00

OPTIONS (Circle Desired Add-Ons):

16" sides and 22" tailgate in lieu of the 12" High Sides, 18" Tailgate		200.00
20" sides and 26" tailgate in lieu of the 12" High Sides, 18" Tailgate		395.00
Cab Shield 36", 48" or Cab Over (Please Specify)	**(ADD TO BASE PRICE)**	350.00
Steel Fold Down Sides		1,025.00
Coal Chute Installed in Center of Tailgate		575.00
Whelen Four (4) Corner LED Amber Emergency Lights – Tied into Switch in Cab		925.00
Cab Shield Mounted Strobe Light		385.00
DEF Fuel Fill Hoses for Ford & GM Diesels		150.00
Hitch Mounted Tailgate Guard		145.00
Poly Fenders Installed in lieu of Mud Flaps		600.00
30" x 18" x 18" Black Steel Underbody Box		650.00
36" x 18" x 18" Black Steel Underbody Box		675.00

In Lieu of Blk Steel(ADD)(DP Alum 100)(Blk DP Alum 175)(Smooth Aluminum 300)(Stainless 300)

Initial :_____ Vin:_____ Date:_____

**NOTE: Hartford Truck Equipment will accept dealer purchase orders for pool chassis without a plant date on a "subject to change" basis only. If the chassis does not have a plant date when the dealer PO is issued and our body/equipment manufacturer announces a price change that would affect the items on your PO, a revised PO will be required reflecting these price changes.

Terms: Net Due ETA: TBD.
For additional terms and signature complete 2nd page

Respectfully Submitted: Sean Breslin Hartford Truck Equipment Inc.
REV: P 03/02/23

HARTFORD TRUCK EQUIPMENT
85 John Fitch Blvd. South Windsor, CT
860.290.9516 HartfordTruck.com
sales@hartfordtruck.com

QUOTATION

Quote: 092523-SB2
Ref: Dump
End User:
Date: 09/25/23

Town of Waterford - Garon

We are pleased to quote on the following:
One (1) **Fisher** electric **Poly-Caster (78004-1)** sand/salt spreader including:

- **1.8** cu yd. capacity, (1.8 - 660 lbs., 2.5 - 734 lbs.)
- Double wall polyethylene 8' long hopper
- 2'-40' spreading width, 16-3/4" wide pintle chain conveyor
- Stainless steel conveyor housing, instant start dual variable speed electric motors
- Domed 2 piece overlapping hopper cover, Adjustable feed gate
- Hopper top screen, additional brake light
- 15-1/2 poly spinner, Built in tie down loops
- Removable & Adjustable height spinner-chute assembly
- Self-diagnostic dual variable speed controller with hopper empty notification
- Accessory hub mounted in back of the hopper for easy plug & play accessories
- Unit stands on end for easy clean and storage
- Pre-wet system compatible
- 2 year parts and labor warranty

Installed with four (4) heavy duty sander tiedown straps
Install D Rings for Tie Downs (Platform or Dump)

1.8 Installed Municipal Price: $ 6,700.00
2.5 Installed Municipal Price: $ 7,375.00

Mandatory if vehicle is equipped with back up camera:
Tie new camera into **OEM** system (HD Camera **ADD** $125)(360 or RAM Camera ADD $350) 325.00
New back up camera system w/ screen (Rear view mirror $695, 5" screen $795, GM w/ On Star $ 895.00)

OPTIONS: (Circle Desired Add-Ons)

Four (4) Heavy Duty Sander Tiedown Straps (Cash & Carry)	125.00
Central Grease Point Kit (**11763**)	203.00
Vibrator Kit (**76668**)	461.00
License Plate Light Kit (**78197**)	69.00
Work Light Kit (**99505-1**)	153.00
Add Second Work Light (**99732-1**)	116.00
Strobe Light Kit (2 Strobes) (**99766**)	288.00

Initial : _____ **Vin:** _____ **Date:** _____

**NOTE: Hartford Truck Equipment will accept dealer purchase orders for pool chassis without a plant date on a "subject to change" basis only. If the chassis does not have a plant date when the dealer PO is issued and our body/equipment manufacturer announces a price change that would affect the items on your PO, a revised PO will be required reflecting these price changes.

Terms: Net Due ETA: TBD.
For additional terms and signature complete 2nd page

Respectfully Submitted: Sean Breslin Hartford Truck Equipment Inc.
REV: P 09/21/2023

Service History by Vehicle

Town of Waterford - Public Works

Report generated on 11/16/2023 11:42 AM by Garon VanOverloop

2 records

Filters

Status: completed Vehicle: R10

Labor Cost	Parts Cost	Total Cost
$462.18	$901.99	$1,364.17

Vehicle

R10

Service Entry	Start Date	Completion Date	Primary Meter	Service Tasks	Resolved Issue Summary	Total Labor	Total Parts	Total Cost
19910396	09/05/2023 1:00 PM	09/26/2023 8:30 AM	73,355 mi	Engine Oil & Filter Replacement • Vehicle Multi-Point Inspection • Tire Rotation • Battery Test • Charging System Inspect • Radiator Repacement	PM	$318.88	$813.54	$1,132.42
16565697	03/02/2023 3:15 PM	03/06/2023 11:23 AM	72,364 mi	Engine Oil & Filter Replacement • Vehicle Multi-Point Inspection • Tire Rotation • Backup Alarm Replacement		$143.30	$88.45	$231.75
					Total Amount	$462.18	$901.99	$1,364.17

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE: r10
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: r10

UNIT: R10 LF MTR: 70380.0 CUR MTR: 70380.0 YR: 14 MAKE: CHEVY DEPT: R&P SIZE: H CLASS: TRUCK FUEL:

VMRS CODE	DATE	WO NUM	LF-MILS ODOM	WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
002 TITLE > CAB/SHEET METALS													
002-054-000	08232017	2032737	34020	34016 MIRROR		151.29	33.95	185.24	1.00	04	01	4	XX
002 TOTAL >CAB/SHEET METALS						151.29	33.95	185.24					
015 TITLE > STEERING													
[illegible]-013-000	10142022	2037380	70380	70380 GEAR BOX, STEERING		978.04	302.08	1280.12	8.00	06	01	8	XX
TOTAL >STEERING						978.04	302.08	1280.12					
016 TITLE > SUSPENSION													
016-005-000	02202015	2029098	16410	16408 SPRING REAR		562.52	124.40	686.92	5.00	05	01	4	XX
016 TOTAL >SUSPENSION						562.52	124.40	686.92					
017 TITLE > TIRES,TUBES,LINERS													
017-008-000	08162022	2037288	66360	66355 TPMS SENSOR REPLAC		11.63	19.82	31.45	0.50	05	01	8	XX
017 TOTAL >TIRES,TUBES,LINERS						11.63	19.82	31.45					
034 TITLE > LIGHTING SYSTEM													
034-000-000	03222022	2036877	66360	66355 LIGHTING SYSTEM		160.70	37.76	198.46	1.00	06	01	8	XX
034-004-000	02262021	2036337	61210	61205 WIRING / REPAIR		47.91	678.80	726.71	20.00	02	01	8	XX
034-004-000	03312020	2035646	54980	54980 WIRING / REPAIR		34.37	144.44	178.81	4.00	04	01	8	XX
034-004-000	03072020	2035559	53000	53000 WIRING / REPAIR		49.16	171.95	221.11	5.00	06	01	8	XX
034-004-000	08142018	2033959	43230	43227 WIRING / REPAIR		56.01	256.32	312.33	8.00	06	01	8	XX
034-004-000	12022016	2031681	27980	27984 WIRING / REPAIR		20.00	58.66	78.66	2.00	06	01	4	XX
034 TOTAL >LIGHTING SYSTEM						368.15	1347.93	1716.08					
043 TITLE > EXHAUST SYSTEM													
043-000-000	08052022	2037268	66360	66355 EXHAUST SYSTEM		693.76	151.04	844.80	4.00	06	01	8	XX
043 TOTAL >EXHAUST SYSTEM						693.76	151.04	844.80					
065 TITLE > HYDRAULIC SYSTEMS													
065-003-000	03072022	2037011	66360	66355 OIL COOLER		0.00	151.04	151.04	4.00	06	01	8	XX
065 TOTAL >HYDRAULIC SYSTEMS						0.00	151.04	151.04					
066 TITLE > PREVENTIVE MAINTENAN													

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: r10
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: r10

UNIT: R10 LF MTR: 70380.0 CUR MTR: 70380.0 YR: 14 MAKE: CHEVY DEPT: R&P SIZE: H CLASS: TRUCK FUEL:

VMRS CODE	DATE	WO NUM	LF-MILS ODOM		WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
066-001-000	03032022	2036993	66340	66340	PM-A		557.52	188.80	746.32	5.00	06	01	8	XX
066-001-000	08172021	2036607	63110	63114	PM-A		313.70	443.04	756.74	12.00	05	01	8	XX
066-001-000	03042021	2036237	60590	60587	PM-A		2174.36	610.92	2785.28	18.00	02	01	8	XX
066-001-000	04202020	2035779	56080	56083	PM-A		287.59	240.73	528.32	7.00	05	01	8	XX
066-001-000	07082019	2034965	49930	49926	PM-A		13.75	269.12	282.87	8.00	05	01	8	XX
066-001-000	01032019	2034337	46290	46288	PM-A		227.07	384.48	611.55	12.00	05	01	8	XX
066-001-000	11132017	2032980	35560	35560	PM-A		63.73	175.98	239.71	6.00	05	01	8	XX
066-002-000	10312019	2035405	53000	53000	PM-B		39.47	121.28	160.75	4.50	07	01	8	XX
[illegible]-002-000	08142018	2033959	43230	43227	PM-B		13.30	256.32	269.62	8.00	06	01	8	X
[illegible]-002-000	06132017	2032464	32370	32370	PM-B		23.22	175.98	199.20	6.00	06	01	8	X
066-002-000	01232017	2031897	29250	29245	PM-B		19.90	117.32	137.22	4.00	05	01	8	XX
066-002-000	09152016	2031453	26560	26556	PM-B		29.13	103.37	132.50	4.50	07	01	8	XX
066-002-000	02172016	2030645	23750	23746	PM-B		70.46	397.44	467.90	12.00	04	01	8	XX
066-002-000	08192015	2029906	20750	20751	PM-B		577.59	248.80	826.39	10.00	06	01	8	XX
066 TOTAL >PREVENTIVE MAINTENAN							4508.60	4034.12	8542.72					
099 TITLE > ROAD CALL TRAVEL TIM														
099-001-000	07082022	2037222	66360	66355	ROAD SERVICE ROAD		11.98	40.43	52.41	1.50	07	01	8	XX
099-001-000	02012018	2033316	35880	35883	ROAD SERVICE ROAD		0.00	84.42	84.42	3.50	07	01	10	XX
099-001-000	08092017	2032632	33700	33703	ROAD SERVICE ROAD		0.00	29.33	29.33	1.00	05	01	10	XX
099-001-000	03162016	2030780	23750	23746	ROAD SERVICE ROAD		7.00	22.41	29.41	1.00	07	01	10	XX
099-002-000	04262022	2037097	66360	66355	PLOWS (BLADES/SHOE		1488.45	0.00	1488.45	0.00		01	9	XX
099-002-000	11282017	2033036	35880	35883	PLOWS (BLADES/SHOE		174.68	381.29	555.97	13.00	05	01	4	XX
099-002-000	03132017	2032124	29250	29245	PLOWS (BLADES/SHOE		0.00	63.28	63.28	2.00	04	01	4	XX
099-002-000	12302016	2031723	27980	27984	PLOWS (BLADES/SHOE		188.79	37.43	226.22	1.00	03	01	11	XX
099-003-000	01062022	2036903	35550	35551	SPREADERS		1595.19	738.40	2333.59	20.00	04	01	8	XX
099-006-000	11272018	2034277	43230	43227	SANDER REPAIR		630.23	297.72	927.95	8.00	06	01	8	XX
099-009-000	10142022	2037380	70380	70380	DIAGNOSIS		0.00	75.52	75.52	2.00	06	01	8	XX
099-009-000	03072022	2037011	66360	66355	DIAGNOSIS		117.58	188.80	306.38	5.00	06	01	8	XX
099-018-000	08172018	2033970	43230	43227	TRANSPORT VEHICLES		0.00	26.36	26.36	1.00	07	01	8	XX
099-018-000	03072017	2031873	29250	29245	TRANSPORT VEHICLES		223.50	263.97	487.47	9.00	05	01	4	XX
099-041-000	08052022	2037268	66360	66355	REPAIRS		1811.62	641.92	2453.54	17.00	06	01	8	XX
099-041-000	10212021	2036738	64200	64199	REPAIRS		98.35	47.60	145.95	2.00	09	01	8	XX
099-041-000	04132021	2036414	61480	61475	REPAIRS		0.00	119.00	119.00	5.00	09	01	8	XX
099-041-000	03112021	2036350	61210	61214	REPAIRS		641.21	746.68	1387.89	22.00	02	01	8	XX
099-041-000	04212020	2035785	54980	54980	REPAIRS		0.00	240.73	240.73	7.00	05	01	8	XX

066-000-000 04062018 2033543	40000	40000 PREVENTIVE MAINTEN	12.10	74.86	86.96	2.00 03	01 8	XX
066-000-000 03182015 2029301	17590	17591 PREVENTIVE MAINTEN	21.87	74.64	96.51	3.00 05	01 4	XX
066-001-000 08052022 2037268	66360	66355 PM-A	63.84	151.04	214.88	4.00 06	01 8	XX

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: r10
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: r10

UNIT: R10 LF MTR: 70380.0 CUR MTR: 70380.0 YR: 14 MAKE: CHEVY DEPT: R&P SIZE: H CLASS: TRUCK FUEL:

VMRS CODE	DATE	WO NUM	LF-MILS ODOM		WORK DESCRIPTION	OUT	PARTS	LABOR	TOTAL	HOURS	MECHANIC	CC	RC	WA
099-041-000	08162018	2033962	43230	43227	REPAIRS		47.98	77.88	125.86	2.00	03	01	8	XX
099-041-000	08142018	2033959	43230	43227	REPAIRS		25.00	256.32	281.32	8.00	06	01	8	XX
099-041-000	08022018	2033565	40000	40000	REPAIRS		113.55	24.12	137.67	1.00	07	01	8	XX
099-041-000	02062017	2033335	38270	38266	REPAIRS		29.92	0.00	29.92	0.00		01	8	XX
099-041-000	12132017	2033098	34300	34297	REPAIRS		363.20	29.33	392.53	1.00	05	01	4	XX
099-041-000	12012016	2031685	27980	27984	REPAIRS		11.05	58.66	69.71	2.00	05	01	4	XX
099-041-000	08192015	2029907	20750	20751	REPAIRS		0.00	30.71	30.71	1.50	07	01	4	XX
099 TOTAL >ROAD CALL TRAVEL TIM							8232.61	4949.59	13182.20					
TITLE > ROAD TEST														
150-000-000	01062015	2028731	14720	14720	ROAD TEST		0.00	49.76	49.76	2.00	05	01	4	XX
150 TOTAL >ROAD TEST							0.00	49.76	49.76					

099-041-000 04232019 2034687	48130	48127 REPAIRS		653.33	269.12	922.45	8.00 05		01	8	XX
099-041-000 08102018 2033995	43230	43227 REPAIRS		0.00	158.16	158.16	6.00 07		01	8	XX

STARTING VMRS CODE: 000-000-000 DATE: FIRST VEHICLE:: r10
ENDING VMRS CODE: 999-999-999 DATE: LAST VEHICLE: r10

VMRS Code	METER : STANDARD QUANTITY	SUBTOTALS OF VMRS CODES FOR DIVISION > AL LABOR HRS	LABOR COST	PARTS COST	PERIOD : LIFE TOTAL COST	PERCENT	TOT COST /METER
002 CAB/SHEET METALS	1	1.00	33.95	151.29	185.24	0.69 %	0.00263
015 STEERING	1	8.00	302.08	978.04	1280.12	4.80 %	0.01819
016 SUSPENSION	1	5.00	124.40	562.52	686.92	2.58 %	0.00976
017 TIRES,TUBES,LINERS	1	0.50	19.82	11.63	31.45	0.12 %	0.00045
034 LIGHTING SYSTEM	6	40.00	1347.93	368.15	1716.08	6.43 %	0.02438
043 EXHAUST SYSTEM	1	4.00	151.04	693.76	844.80	3.17 %	0.01200
065 HYDRAULIC SYSTEMS	1	4.00	151.04	0.00	151.04	0.57 %	0.00215
066 PREVENTIVE MAINTENANCE	17	126.00	4034.12	4508.60	8542.72	32.03 %	0.12138
ROAD CALL TRAVEL TIME	28	150.50	4949.59	8232.61	13182.20	49.43 %	0.18730
ROAD TEST	1	2.00	49.76	0.00	49.76	0.19 %	0.00071
TOTALS:	58	341.00	11163.73	15506.60	TOT: 26670.33	100.00 %	0.37895

HARTFORD TRUCK EQUIPMENT

95 JOHN FITCH BLVD.
SOUTH WINDSOR, CT 06074
OR ON THE WEB @
WWW.HARTFORDTRUCK.COM

INVOICE

Date	Invoice #
4/8/2020	53723

EMAIL: SALES@HARTFORDTRUCK.COM PHONE: 860-290-9516 FAX: 860-290-9519

Bill To
WATERFORD, TOWN OF
15 ROPE FERRY ROAD
WATERFORD, CT 06385

Ship To
TOWN OF WATERFORD
1000 HARTFORD TPK
WATERFORD CT. 06385

P.O. Number	Terms	VIN	TRUCK #	REP	FOB
200372	N30	1GC0KVLGXEF155367	3576	MJG	HTE

Quantity	Item Code	Description	Price Each	Amount
1	LABOR	SUPPLY & INSTALL PER STATE CONTRACT 17PSX0118		
1	G2-60-1342TP27	TOMMY GATE - TREADPLATE PLATFORM 55 X 37 + 4 TAPER	2,825.00	2,825.00
1	MISC2	TOMMY GATE - BRACKET FOR 2014 CHEVY 2500		
		GATE SN: 00676730		

SUBTOTAL	$2,825.00
CT SALES TAX (0.0%)	$0.00
PAYMENTS/CREDITS	$0.00
BALANCE DUE	$2,825.00

THANK YOU! WANT TO SEE WHAT ELSE WE ARE UP TO?
FOLLOW US ON FACEBOOK, INSTAGRAM & YOUTUBE

ALL MOUNTING HARDWARE SHOULD BE CHECKED AFTER 10 HOURS OF USE, AND THEN AGAIN EVERY YEAR.
** NO REFUNDS AND OR RETURNS ON ANY ELECTRIAL COMPONENTS. **

CNGP530 VEHICLE ORDER CONFIRMATION 1 Utility 11/06/23 09:06:06
==> _____ Dealer: F11222
2024 F-SERIES SD Page: 1 of 1

Order No: 0000 Priority: B1 Ord FIN: QS048 Order Type: 5B Price Level: 420
Ord Code: 610A Cust/Flt Name: WATERFODR PO Number:

		RETAIL	DLR INV
F3B	F350 4X4SDR/CSR	$48815	$46374.00
	142" WHEELBASE		
HX	ANTIMATTER BLUE		
A	VNYL 40/20/40		
S	MED DARK SLATE		
510A	PREF EQUIP PKG		
	.XL TRIM		
572	.AIR CONDITIONER	NC	NC
	.AMFM/MP3/CLK		
64F	.STEEL WHLS-18"		
99A	.6.8L DEV V8 ENG	NC	NC
44F	10-SPD AUTOMATC	NC	NC
TCH	.LT275/65BSWAS18		
X37	3.73 REG AXLE	NC	NC
	JOB #1 BUILD		

		RETAIL	DLR INV
	FRT LICENSE BKT	NC	NC
18B	PLAT RUNNING BD	320	291.00
	10900# GVWR PKG		
425	50 STATE EMISS	NC	NC
473	SNOW PLOW PREP	250	228.00
	JACK		
67B	410 AMP ALTRNTR	115	104.00
86M	DUAL BATTERY	210	191.00
	SP FLT.ACCT CR		(1367.00)
	FUEL CHARGE		26.08
	DEST AND DELIV	1995	1995.00
TOTAL	BASE AND OPTIONS	51705	47842.08
TOTAL		51705	47842.08

THIS IS NOT AN INVOICE

F1=Help F2=Return to Order F3/F12=Veh Ord Menu
F4=Submit F5=Add to Library
S099 - PRESS F4 TO SUBMIT QC06048

Budgetary $ 47,500

HARTFORD TRUCK EQUIPMENT
55 John Fitch Blvd. South Windsor, CT
860.290.9516 HartfordTruck.com
sales@hartfordtruck.com

QUOTATION

Quote: 092223-SB5
Ref: 23 F350 SRW 56" CA
End User:
Date: 09/22/23

Town of Waterford – Garon

We are pleased to quote on the following:
One (1) **Reading Classic II** service body **98ASW** installed on suitable cab-chassis with 56" CA (cab to axle) measurement and ***single rear wheels***, Including-

- 98" long x 77.5" wide w/ 14.5" deep compartment, 48.5" x 98" cargo area
- A60 double sided galvanneal steel construction, electrically charged immersion primer
- Adjustable heavy-duty galvanized steel shelves with dividers
- Adjustable door strikers, Heavy duty tailgate with removable knee brace
- Rubber door seals, Hidden hinges, Nitrogen strut door holders, Stainless steel door paddles
- Flush mounted **LED** backup, turn, & brake lights, Factory undercoating
- Aluminum gas fill, free key replacement to original owner
- 6 year limited warranty, Lifetime warranty on cylinder locks
- Powder coat **white** finish inside and out

Pooched steel bumper, Rear bumper zinc coated to prevent rust
Two (2) rear mud flaps
Back up camera - Mount camera and tie into **OEM** system
7 RV Style Trailer Socket
Pickup Bed & Bumper Trade In Credit

Installed Price: $ 11,185.00

OPTIONS: (Circle Desired Add-Ons)	
Pickup Bed & Bumper Trade In Credit	**TBD**
Whelen Four (4) Corner LED Amber Emergency Lights – Tied into Switch in Cab	925.00
Paint Solid Color in lieu of Powder Coat (Exterior Only)	1,475.00
Paint Basecoat Clear Coat Color in lieu of Powder Coat (Exterior Only) (Tricolor **ADD** $695)	1,800.00
Latchmatic Keyless Compartment Locking System Installed (**ADD** LED Comp Lighting $580)	1,385.00
Bright Aluminum Diamond Plate Rock Guards	125.00
Back Up Alarm (GM w/ Auto Headlamps **ADD** $100.00)	70.00
DEF Fuel Fill Hoses & Bezel for Diesel Pickups	150.00
Aluminum Drawer System Installed (1st Front Vertical Curbside or Roadside)	1,925.00
Magnum Cab Protector w/ Lights Installed Behind Cab - **Black or Mill Finish (Please Specify)**	995.00
Vanguard TCR Over the Cab Ladder Rack w/ Rear Swing Bar	1,175.00
Kargo Master Pro II Over the Cab Ladder Rack w/Removable. Rear Bar	1,200.00
SystemOne Aluminum Ladder Rack w/ Ratchet Tie Downs (Cab Window Guard **ADD** 200)	1,575.00

Initial : _____ **Vin:** _____ **Date:** _____

Terms: Net Due ETA: TBD.
For additional terms and signature complete 2nd page

Respectfully Submitted: Hartford Truck Equipment Inc.
REV: P 9/18/2023

HARTFORD TRUCK EQUIPMENT
95 John Fitch Blvd. South Windsor, CT
860.290.9516 HartfordTruck.com
sales@hartfordtruck.com

QUOTATION

Quote: 092223-SB6
Ref: 23 F350 SRW
End User:
Date: 09/22/23

Town of Waterford - Garon

We are pleased to quote on the following:
One (1) **Fisher** plow model **9'6" XV2** w/ handheld controller. Including:

- 9'6" long x 31"-39" high. 8'6" (full angled), 8'2" (scooped), 8'7" (full V)
- Blade approximately weighs 1044 lbs.
- 14 gauge **STAINLESS STEEL** blade. Black powder coat finish on mounts
- 1 1/4" steel center pin for added strength and rigidity
- 4 vertical ribs & 8 x-bracing ribs for torsional strength to eliminate blade twisting
- Trip-edge design w/ 6 trip springs allows for only the bottom edge to trip keeping blade upright
- This design uses compression-type springs that never require adjustment and will not wear out
- T-Frame provides optimum strength to weight ratio. Allows for adjustment of blade for even wear
- Double acting cylinders lock wings to use V-plow or straight blade with single button control
- Center deflector to prevent snow from going over blade
- Lift ram is 1 3/4 " diameter for more lifting power and durability while in use
- "Minute Mount II" mounting system allows for easy on & off
- 70 degree attack angle provides enhanced scraping and back dragging ideal for ice & hard snow
- 1/2" x 6" steel cutting edge provides increased wear resistance and a clean scrape
- Dual-halogen headlamps with park/turn signals
- "Security Guard" electronically locks the plows hydraulic functions
- 2-year parts and labor warranty

Installed Price: $ 9,400.00

OPTIONS: (Circle Desired Add-Ons)

NEW ***Intensifire*** LED Headlamps w/ Edgeview Technology	**(ADD) $ 350.00**
Dash Mount Joystick in lieu of Handheld	N/C
HTE Emergency Roadside Kit	175.00
Commercial Mount **(ADD)**	300.00
Cupholder Mount Kit for Hand-Held **(82006)**	55.00
24" Fluorescent Commercial Blade Guides **(26530K)** (36" **(51975)** ADD $33.00)	56.00
28" LED Illuminated Guides **(1308128)** (36" **(1308136)** ADD $20)	195.00
10" Rubber Deflector **(41812-1)**(18" **(41813-1)** ADD $182.00)	384.00
Curb Wear Kit **(43885)**	330.00

Initial : _____ **Vin:**_____ **Date:**_____

**NOTE: Hartford Truck Equipment will accept dealer purchase orders for pool chassis without a plant date on a "subject to change" basis only. If the chassis does not have a plant date when the dealer PO is issued and our body/equipment manufacturer announces a price change that would affect the items on your PO, a revised PO will be required reflecting these price changes.

Terms: Net Due ETA: TBD.

For additional terms and signature complete 2nd page

Respectfully Submitted: Sean Breslin Hartford Truck Equipment Inc.
REV: P 09/21/2023

HARTFORD TRUCK EQUIPMENT
85 John Fitch Blvd. South Windsor, CT
860.290.9516 HartfordTruck.com
sales@hartfordtruck.com

QUOTATION

Quote: 092223-SB7
Ref: 23 F350 56" CA SRW
End User:
Date: 09/22/23

Town of Waterford - Garon

We are pleased to quote on the following:

One (1) **Fisher Tempest** Stainless Steel hopper sand, salt & sand mix spreader including:

- 1.5 cu yd capacity 7' hopper, overall dimensions 84.5" x 50" x 32" (530lbs)
- Riveted stainless steel construction provides a cleaner stainless-steel look.
- **Pintle Chain Conveyor** delivers consistent material flow for dense materials while reducing bridging.
- Material spill protector flap prevents material from spilling out and pooling near vehicle cab.
- Instant start dual variable speed electric sealed motors
- Easy to adjust circular shutter deflector made for an even distribution.
- Bolt on screen anchor for easy replacement
- Steeper end caps to provide better material flow.
- Hinged chute design to make servicing easier.
- Hopper top screen, Brake light
- Self-diagnostic dual variable speed controller with hopper empty notification
- Accessory hub mounted in back of the hopper, pre-wet system compatible.
- 2-year parts and labor warranty

Installed Price: $ 5,800.00

OPTIONS: (Circle Desired Add-Ons)	
Four (4) Heavy Duty Sander Tiedown Straps (Cash & Carry)	125.00
Chute Extension Installed (99139)	250.00
50" Standard Capacity Poly Lid Kit (72750)	1,274.00
70" High Capacity Poly Lid Kit (72770)	1,657.00
Central Grease Point Kit (11763)	213.00
Strobe Light Kit (99494)	300.00
Vibrator Kit (76668)	480.00
Work Light Kit (99505-1)	160.00
Add Second Work Light (99732-1)	121.00

Initial : _____ **Vin:** _____ **Date:** _____

**NOTE: Hartford Truck Equipment will accept dealer purchase orders for pool chassis without a plant date on a "subject to change" basis only. If the chassis does not have a plant date when the dealer PO is issued and our body/equipment manufacturer announces a price change that would affect the items on your PO, a revised PO will be required reflecting these price changes.

Terms: Net Due ETA: TBD.
For additional terms and signature complete 3RD page

Respectfully Submitted: Sean Breslin Hartford Truck Equipment Inc.
REV : 4/21/2023

tpc turf products

157 Moody Road • PO Box 1200 • Enfield, CT 06082
Main Office: (800) 245-4355 • FAX: (860) 763-5550

QUOTE

Prepared For: Ryan McNamara
TOWN OF WATERFORD
15 ROPE FERRY RD; WATERFORD,
Connecticut 6385 United States

Ship To: Town Waterford UTX 9.10.23
Quote Number: Q141097
Quoted Date: **09/10/2023**
Prepared By: Brian Pope
bpope@turfproductscorp.com

Sourcewell Pricing

Qty	Model #	Description	MSRP	% Disc	Award	Extended
1	**08102**	**Workman UTX Diesel**	**$22,999.00**	**7 %**	**$21,389.07**	**$21,389.07**
1	08110	Canopy, Polyethylene	$499.00	7 %	$464.07	$464.07
1	VBS11060	Control Kit	$340.14	0 %	$340.14	$340.14
1	08112	Glass Windshield, Wiper And Washer	$1,599.00	7 %	$1,487.07	$1,487.07
1	08116	Rear Window, Polycarbonate	$499.00	7 %	$464.07	$464.07
1	08123	Heat and A/C (Diesel)	$2,599.00	7 %	$2,417.07	$2,417.07
1	08131	Work Lights	$449.00	7 %	$417.57	$417.57
1	08132	Beacon Light	$250.00	7 %	$232.50	$232.50
1	08134	Electric Bed Lift	$799.00	7 %	$743.07	$743.07
1	08136	Supervisor Key	$39.00	7 %	$36.27	$36.27
1	08130	Overhead Console and Harness	$499.00	7 %	$464.07	$464.07
1	131-8549	Back Up Alarm	$121.74	7 %	$113.22	$113.22
1	144-2438	Universal 12V Power Point Kit	$37.32	7 %	$34.71	$34.71
1	08140	Side Mirrors (Left And Right)	$219.00	7 %	$203.67	$203.67
1	08141	Rear View Mirror	$130.00	7 %	$120.90	$120.90
1	MSC12480	V-Blade Plow, 6 Foot 6 Inch Width	$1,371.00	0 %	$1,371.00	$1,371.00
1	VBS193008	VBX3000 V-Box Spreader	$4,392.27	0 %	$4,392.27	$4,392.27
1	LTA14715	Plow Wire Harness	$561.98	0 %	$561.98	$561.98
1	MSC09601	SmartTouch 2 V-Blade Handheld Control	$320.43	0 %	$320.43	$320.43
1	MSC12060	Plow Box	$126.00	0 %	$126.00	$126.00
1	08114	Front Full Doors, Polycarbonate	$3,199.00	7 %	$2,975.07	$2,975.07

Toro Total:	**$31,562.40**
Non – Toro Total:	*$7,111.82*

tpc turf products
157 Moody Road • PO Box 1200 • Enfield, CT 06082
Main Office: (800) 245-4355 • FAX: (860) 763-5550

COMMERCIAL SALES AGREEMENT

Cab installation:	*$600.00*
Set up /Freight:	*$1,963.71*
Trade Ins:	*($0.00)*
State Sales Tax:	*$0.00*
Total Price:	**$41,237.93**

While it is our intent to hold this pricing, this pricing is subject to change due to factors that are beyond the control of Turf Products and our vendors.

Final pricing will be determined 60 days prior to delivery.

tpc turf products QUOTE

157 Moody Road • PO Box 1200 • Enfield, CT 06083
Main Office: (800) 243-4355 • FAX (860) 763-5550

Prepared For:
Waterford Park
Waterford, Ct

Ship To:
Quote Number:
Quoted Date: **10/18/23**
Prepared By: Brian Pope

Equipment Model / Description	ID Number	Year / Hours	Price
1 110 Broyhill Stadium Sprayer 12 volt electric, 25' hose and gun	M-3414-FL-1		3,500.00

SubTotal:	$	3,500.00
Set Up:	$	*350.00*
Freight:	$	*350.00*
State Sales Tax:	*Plus Tax*	
		$4,200.00

NOTES:

PRICING VALID FOR 30 DAYS

JOHN DEERE

Customer:

Quotes are valid for 30 days from the creation date or upon contract expiration, whichever occurs first.

A Purchase Order (PO) or Letter of Intent (LOI) including the below information is required to proceed with this sale. The PO or LOI will be returned if information is missing.

Vendor: Deere & Company
☐ 2000 John Deere Run
Cary, NC 27513

For any questions, please contact:

Matthew Mckerracher

United Ag & Turf
359 South Main Street
Colchester, CT 06415

Tel: 860-537-2344
Fax: 860-537-5711
Email: matthew.mckerracher@uatne.com

☐ Signature on all LOIs and POs with a signature line

☐ Contract name or number; or JD Quote ID

☐ Sold to street address

☐ Ship to street address (no PO box)

☐ Bill to contact name and phone number

☐ Bill to address

☐ Bill to email address (required to send the invoice and/or to obtain the tax exemption certificate

☐ Membership number if required by the contract

Quotes of equipment offered through contracts between Deere & Company, its divisions and subsidiaries (collectively "Deere") and government agencies are subject to audit and access by Deere's Strategic Accounts Business Division to ensure compliance with the terms and conditions of the contracts.

JOHN DEERE

ALL PURCHASE ORDERS MUST BE MADE OUT TO (VENDOR):
Deere & Company
2000 John Deere Run
Cary, NC 27513
FED ID: 36-2382580
UEID: FNSWEDARMK53

ALL PURCHASE ORDERS MUST BE SENT TO DELIVERING DEALER:
United Ag & Turf
359 South Main Street
Colchester, CT 06415
860-537-2344

Quote Summary

Prepared For:
TOWN OF WATERFORD PARKS AND RECREATION DEPT
15 ROPE FERRY RD
WATERFORD, CT 06385
Business: 860-444-5881

Delivering Dealer:
United Ag & Turf
Matthew Mckerracher
359 South Main Street
Colchester, CT 06415
Phone: 860-537-2344
matthew.mckerracher@uatne.com

Sourcewell Member # 8247
Customer pick-up. Delivery available at $8/ loaded mile.

Quote ID: 29588605
Created On: 11 September 2023
Last Modified On: 11 September 2023
Expiration Date: 11 October 2023

Equipment Summary	Suggested List	Selling Price		Qty		Extended
JOHN DEERE GATOR™ XUV835R (Model Year 2024)	$ 43,609.14	$ 37,503.85	X	1	=	$ 37,503.85
Contract: Sourcewell Grounds Maintenance 031121-DAC (PG NB CG 70)						
Price Effective Date: September 10, 2023						
WESTERN 74360	$ 6,443.30	$ 5,194.36	X	1	=	$ 5,194.36
Contract:						
Price Effective Date:						
Equipment Total						**$ 42,698.21**

* Includes Fees and Non-contract items

Quote Summary	
Equipment Total	$ 42,698.21
Trade In	
SubTotal	**$ 42,698.21**
Est. Service Agreement Tax	$ 0.00
Total	$ 42,698.21
Down Payment	(0.00)
Rental Applied	(0.00)
Balance Due	**$ 42,698.21**

Salesperson : X _____ **Accepted By : X** _____

JOHN DEERE

Selling Equipment

Quote Id: 29588605 **Customer Name:** TOWN OF WATERFORD PARKS AND RECREATION DEPT

ALL PURCHASE ORDERS MUST BE MADE OUT TO (VENDOR):
Deere & Company
2000 John Deere Run
Cary, NC 27513
FED ID: 36-2382580
UEID: FNSWEDARMK53

ALL PURCHASE ORDERS MUST BE SENT TO DELIVERING DEALER:
United Ag & Turf
359 South Main Street
Colchester, CT 06415
860-537-2344

JOHN DEERE GATOR™ XUV835R (Model Year 2024)

Hours:
Stock Number:
Contract: Sourcewell Grounds Maintenance 031121-DAC (PG NB CG 70)
Price Effective Date: September 10, 2023

Suggested List *
$ 43,609.14
Selling Price *
$ 37,503.85

* Price per item - includes Fees and Non-contract items

Code	Description	Qty	List Price	Discount%	Discount Amount	Contract Price	Extended Contract Price
574EM	GATOR™ XUV835R (Model Year 2024)	1	$ 33,749.00	14.00	$ 4,724.86	$ 29,024.14	$ 29,024.14
	Standard Options - Per Unit						
182A	Less AutoTrac™/ GreenStar™ Harness	1	$ 0.00	14.00	$ 0.00	$ 0.00	$ 0.00
183B	Less JDLink™ Hardware	1	$ 0.00	14.00	$ 0.00	$ 0.00	$ 0.00
0202	United States	1	$ 0.00	14.00	$ 0.00	$ 0.00	$ 0.00
0505	Build To Order	1	$ 0.00	14.00	$ 0.00	$ 0.00	$ 0.00
1062	27" Predator Heavy-Duty all-terrain radial tires on 14" Yellow Alloy Wheels	1	$ 0.00	14.00	$ 0.00	$ 0.00	$ 0.00
1950	Less Application	1	$ 0.00	14.00	$ 0.00	$ 0.00	$ 0.00
2032	Split Bench Seat - Stone Cloth	1	$ 0.00	14.00	$ 0.00	$ 0.00	$ 0.00
2350	Park Position in Transmission	1	$ 0.00	14.00	$ 0.00	$ 0.00	$ 0.00
2500	Green and Yellow	1	$ 0.00	14.00	$ 0.00	$ 0.00	$ 0.00
3003	Cargo Box with Spray In Liner, Brake, and Tail Lights	1	$ 0.00	14.00	$ 0.00	$ 0.00	$ 0.00
3101	Cargo Box Power Lift	1	$ 0.00	14.00	$ 0.00	$ 0.00	$ 0.00
4022	Full Door with Side Mirrors	1	$ 0.00	14.00	$ 0.00	$ 0.00	$ 0.00
4066	Premium HVAC Cab with Green Roof	1	$ 0.00	14.00	$ 0.00	$ 0.00	$ 0.00
5006	Front Brush Guard	1	$ 447.00	14.00	$ 62.58	$ 384.42	$ 384.42
6349	Less Winch	1	$ 0.00	14.00	$ 0.00	$ 0.00	$ 0.00
	Standard Options Total		**$ 447.00**		**$ 62.58**	**$ 384.42**	**$ 384.42**
	Technology Options/Non-Contract/Open Market						
1880	Less Receiver	1	$ 0.00	14.00	$ 0.00	$ 0.00	$ 0.00

JOHN DEERE

Selling Equipment

Quote Id: 29588605 **Customer Name:** TOWN OF WATERFORD PARKS AND RECREATION DEPT

ALL PURCHASE ORDERS MUST BE MADE OUT TO (VENDOR):
Deere & Company
2000 John Deere Run
Cary, NC 27513
FED ID: 36-2382580
UEID: FNSWEDARMK53

ALL PURCHASE ORDERS MUST BE SENT TO DELIVERING DEALER:
United Ag & Turf
359 South Main Street
Colchester, CT 06415
860-537-2344

1900	Less Display	1	$ 0.00	14.00	$ 0.00	$ 0.00	$ 0.00
	Technology Options Total		**$ 0.00**		**$ 0.00**	**$ 0.00**	**$ 0.00**
	Dealer Attachments/Non-Contract/Open Market						
BUC11227	Side Mirrors (open station & cab doors)	1	$ 230.06	14.00	$ 32.21	$ 197.85	$ 197.85
LP68195	Sprayer Conversion Kit	1	$ 199.99	14.00	$ 28.00	$ 171.99	$ 171.99
LP48006	90 Gallon High Performance Single Tank Sprayer	1	$ 1,699.99	14.00	$ 238.00	$ 1,461.99	$ 1,461.99
LP69911	5 cu. ft. Drop Spreader	1	$ 4,599.99	14.00	$ 644.00	$ 3,955.99	$ 3,955.99
LP69908	Spreader Hitch and Display	1	$ 999.99	14.00	$ 140.00	$ 859.99	$ 859.99
BM26268	Front Attachment Harness (dash port)	1	$ 169.06	14.00	$ 23.67	$ 145.39	$ 145.39
BM26185	Beacon Light	1	$ 324.21	14.00	$ 45.39	$ 278.82	$ 278.82
BM26216	LED Work Lights (2 Lights)	1	$ 453.69	14.00	$ 63.52	$ 390.17	$ 390.17
BM26215	LED Driving Lights (2 Lights)	1	$ 453.69	14.00	$ 63.52	$ 390.17	$ 390.17
BM26391	Horn Kit	1	$ 40.66	14.00	$ 5.69	$ 34.97	$ 34.97
BUC10608	Front Turn Signal Light Kit	1	$ 107.00	14.00	$ 14.98	$ 92.02	$ 92.02
BUC10804	Backup Alarm	1	$ 134.81	14.00	$ 18.87	$ 115.94	$ 115.94
	Dealer Attachments Total		**$ 9,413.14**		**$ 1,317.85**	**$ 8,095.29**	**$ 8,095.29**
	Value Added Services Total		**$ 0.00**			**$ 0.00**	**$ 0.00**
Total Selling Price			$ 43,609.14		$ 6,105.29	$ 37,503.85	$ 37,503.85

WESTERN 74360

Equipment Notes: Western Sourcewell Contract 062222-DDY
Hours: 0
Stock Number:
Contract:
Price Effective Date:

Suggested List *
$ 6,443.30
Selling Price *
$ 5,194.36

* Price per item - includes Fees and Non-contract items

Code	Description	Qty	List Price	Discount%	Discount Amount	Contract Price	Extended Contract Price
74360	Western Impact 6' V-Plow	1	$ 1,544.00	0.00	$ 0.00	$ 1,544.00	$ 1,544.00
	Standard Options - Per Unit						
32900	Joystick Control	1	$ 614.00	0.00	$ 0.00	$ 614.00	$ 614.00

JOHN DEERE

Selling Equipment

Quote Id: 29588605 **Customer Name:** TOWN OF WATERFORD PARKS AND RECREATION DEPT

ALL PURCHASE ORDERS MUST BE MADE OUT TO (VENDOR):
Deere & Company
2000 John Deere Run
Cary, NC 27513
FED ID: 36-2382580
UEID: FNSWEDARMK53

ALL PURCHASE ORDERS MUST BE SENT TO DELIVERING DEALER:
United Ag & Turf
359 South Main Street
Colchester, CT 06415
860-537-2344

35165	Vehicle Mount	1	$ 431.00	0.00	$ 0.00	$ 431.00	$ 431.00
87545	HD Attachment Kit V-Plow	1	$ 3,088.00	0.00	$ 0.00	$ 3,088.00	$ 3,088.00
	Standard Options Total		**$ 4,133.00**		**$ 0.00**	**$ 4,133.00**	**$ 4,133.00**
	Dealer Attachments/Non-Contract/Open Market						
FRT	Freight	1	$ 175.00	0.00	$ 0.00	$ 175.00	$ 175.00
SU	Set-Up	1	$ 591.30	0.00	$ 0.00	$ 591.30	$ 591.30
	Dealer Attachments Total		**$ 766.30**		**$ 0.00**	**$ 766.30**	**$ 766.30**
	Additional Discounts						
	Misc. Additional Discount	1			$ 1,248.94	$ -1,248.94	$ -1,248.94
	Additional Discount Total				**$ 1,248.94**	**$ -1,248.94**	**$ -1,248.94**
Total Selling Price			$ 6,443.30		$ 1,248.94	$ 5,194.36	$ 5,194.36

Turf Robotics, LLC
1041 New Britain Ave, West Hartford,
CT 06110, USA
United States
mark@turfroboticsllc.com
Phone: + 1 8883846014

Price Quote: #0000217
Issued on: Oct 30, 2023
Expiry Date: Nov 29, 2023

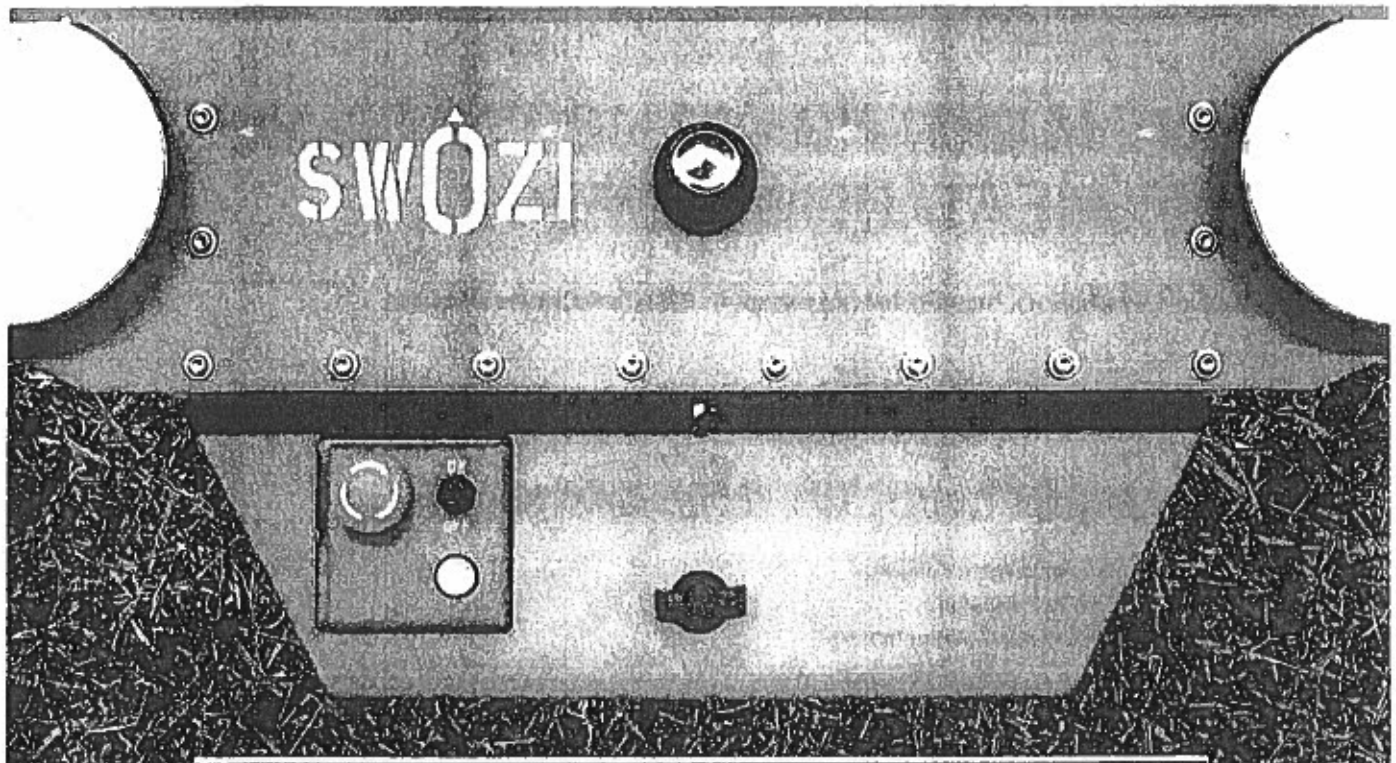
SWOZI - Model AUTO Robotic Sports Field Line Painter

To: Ryan McNamara
Waterford, CT
rmcnamara@waterfordct.org
8604445881

Product or Service	Price	Quantity	Line Total
SWOZI - 100673 - SWOZI Cart Pro AUTO with SWOZI RTK Base Station SWOZI - 100673 - SWOZI Cart Pro AUTO with SWOZI RTK Base Station	$44,950.00	1	$44,950.00
SWOZI - AUTO Battery Swapping Cradle w/ (2) 12V/18A Batteries SWOZI - AUTO Battery Swapping Cradle w/ (2) 12V/18A Batteries	$0.00	1	$0.00
SWOZI - Samsung Tablet SWOZI - Samsung Tablet	$0.00	1	$0.00
SWOZI - Shipping SWOZI - Shipping	$0.00	1	$0.00
SWOZI - Training SWOZI - 6 Hours Field Training	$0.00	1	$0.00
Sales Tax - *Not Included	$0.00	1	$0.00

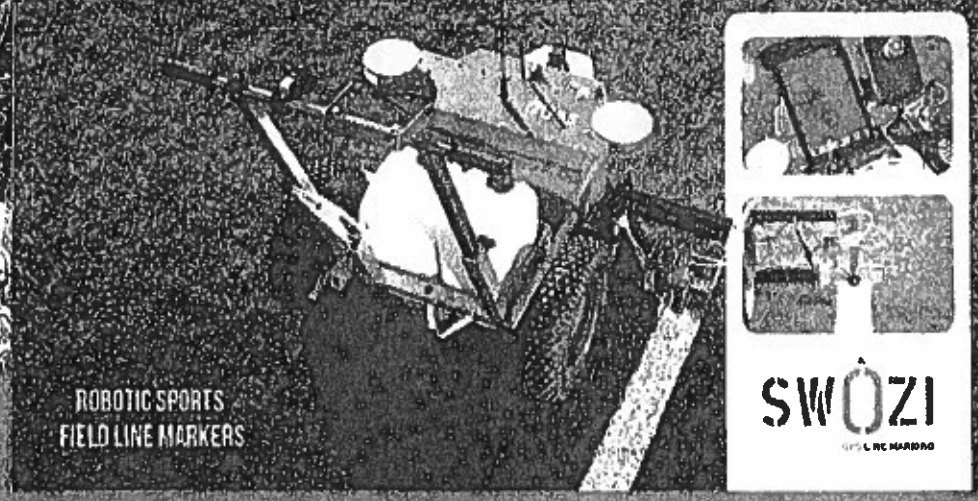
Product or Service	Price	Quantity	Line Total
Sales Tax - *Not Included (Prices are subject to all applicable federal, state and local sales taxes.)			

Subtotal	$44,950.00
Total Price:	**$44,950.00**



TIRED OF PAINTING SPORTS FIELDS?

LET A ROBOT DO THE JOB.



THE SWOZI WAY

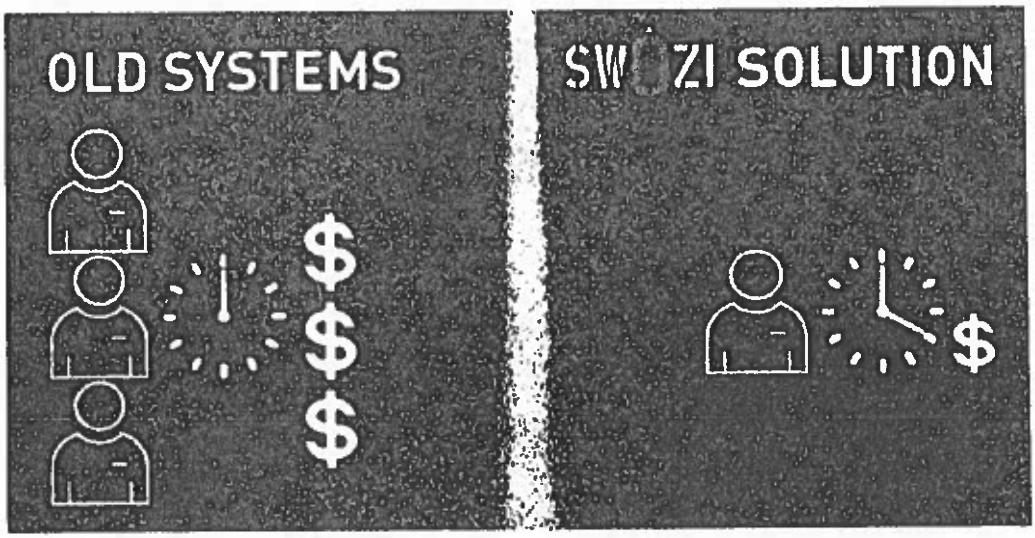
SPORTS FIELD LINE MARKING

LINE MARKING WITHOUT STRINGS AND MEASURING TAPES?

Enjoy the high efficiency, flexiblity and cost savings the SWOZI solution can bring you!

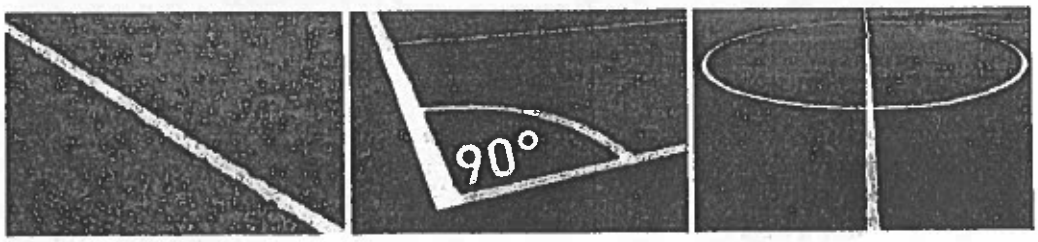
1 MORE THAN 75% TIME SAVING

- Optimal work efficiency
- 75 % time saving
- Reduced ink consumption



2 UNBEATABLE CENTIMETER ACCURACY

**Thanks to the cutting-edge GPS and laser positioning technology,
SWOZI is able to reach millimeter accuracy (laser), anywhere both outdoor and indoor.**



Straight lines **Perfect angles** **Perfect circles**

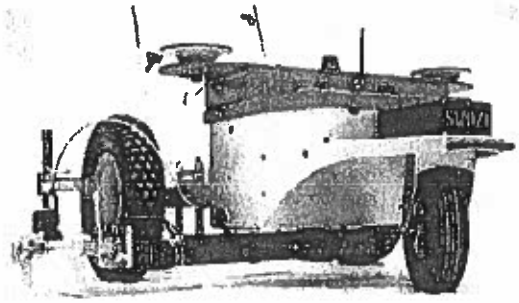
IN ONE GO.

3 UTMOST FLEXIBILITY AND FREEDOM

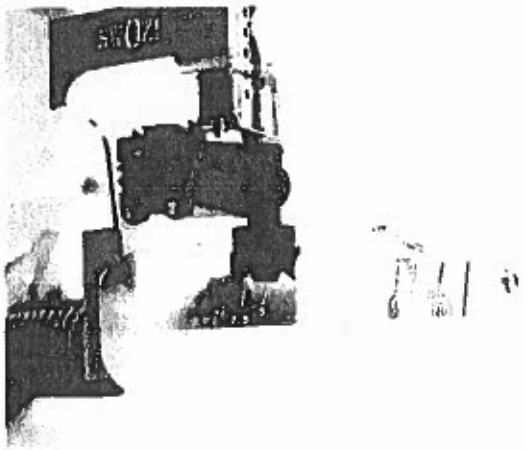
NO MORE STRINGS AND TAPES

- No more time consuming and resource-intensive work
- Over 100 sport templates with 1000s of variations
- Fully customizable, smart templates
- Can be used by anyone after 10 minutes of training
- SWOZI works with different positioning sources:
  Laser for stadiums and areas with poor GPS reception, GPS for outdoor sports fields.

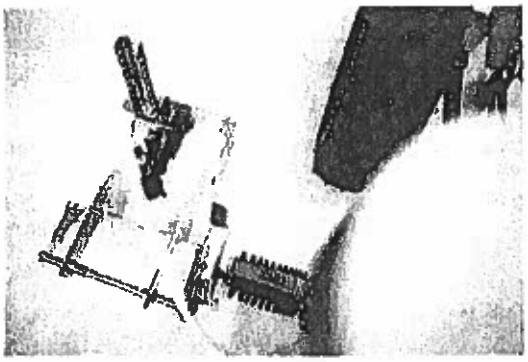
THE SWOZI CART IS DESIGNED FOR OPTIMAL WORK EFFICIENCY, ACCURACY AND MOBILITY



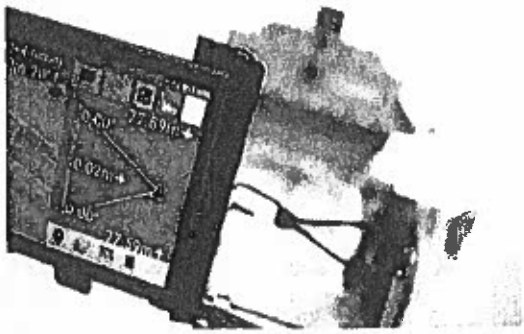
The SWOZI cart is made of lightweight aluminum with a handle bar for easy pushing.



The line width and spray rate are adjustable to your needs.



The SWOZI arm keeps the line straight even when you wander.



The SWOZI paint app is easy to handle and runs on a standard Samsung tablet.

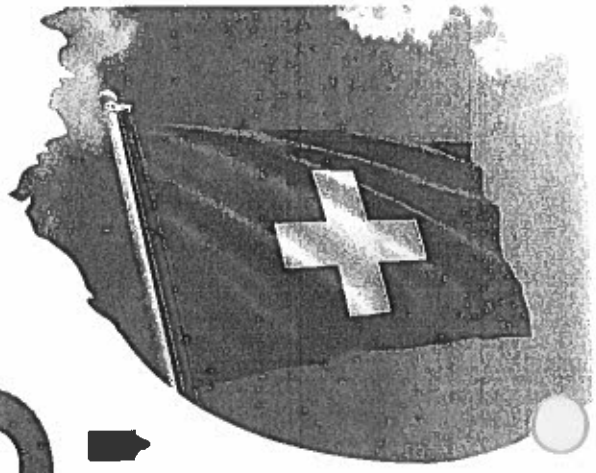
SWOZI

GPS LINE MARKING

Turf Robotics, LLC - Proprietary & Confidential

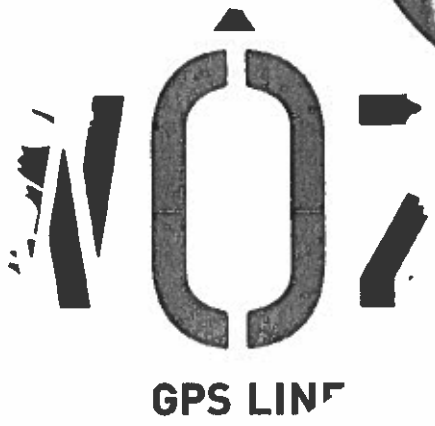
SWÒZI

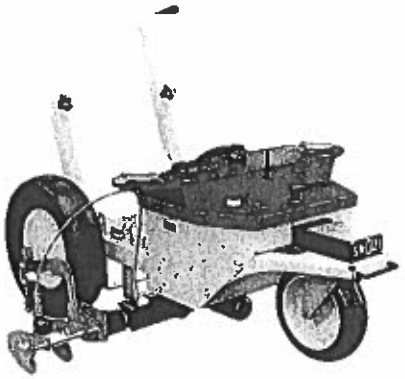
GPS LINE MARKING

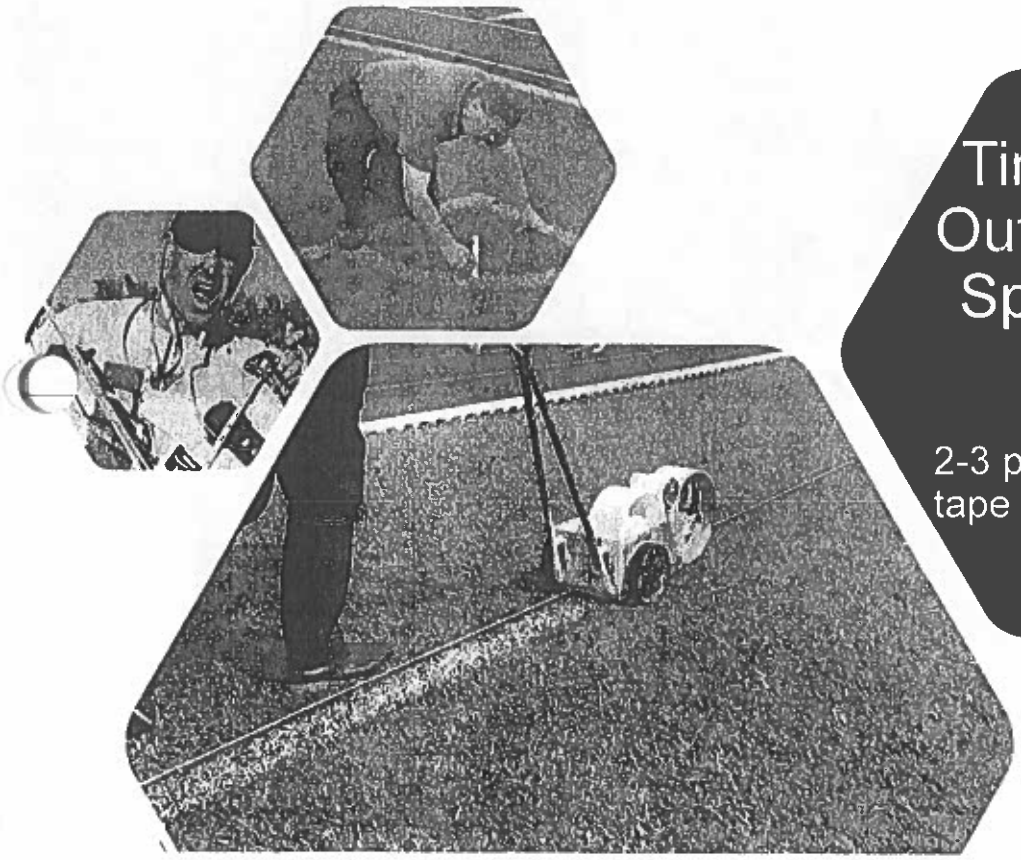


Company Background:

- Manufacturer of Robotic/Autonomous Sport Field Line Marking Equipment.
- Founded in 2013.
- Headquarters Diepoldsau, Switzerland.







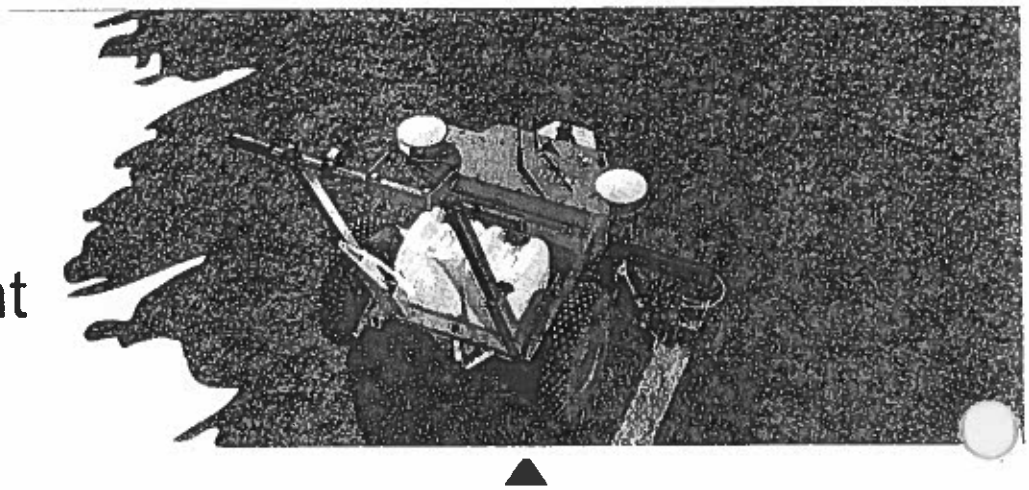
Tired of Laying Out and Painting Sports Field by Hand?

2-3 people, 2-3 hours with tape measures and string.

SWOZI

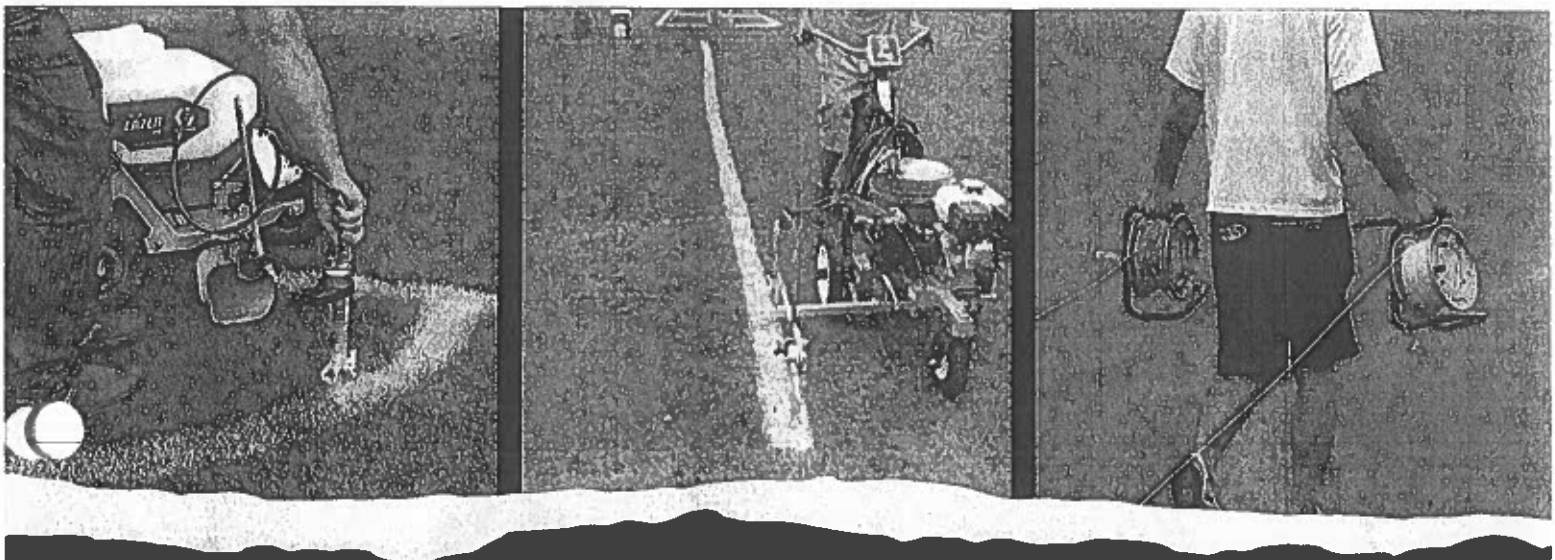
GPS LINE MARKING

Layout and Paint
Athletic Fields
with Centimeter
Accuracy in
25 Minutes.



WOZI

GPS LINE MARKING



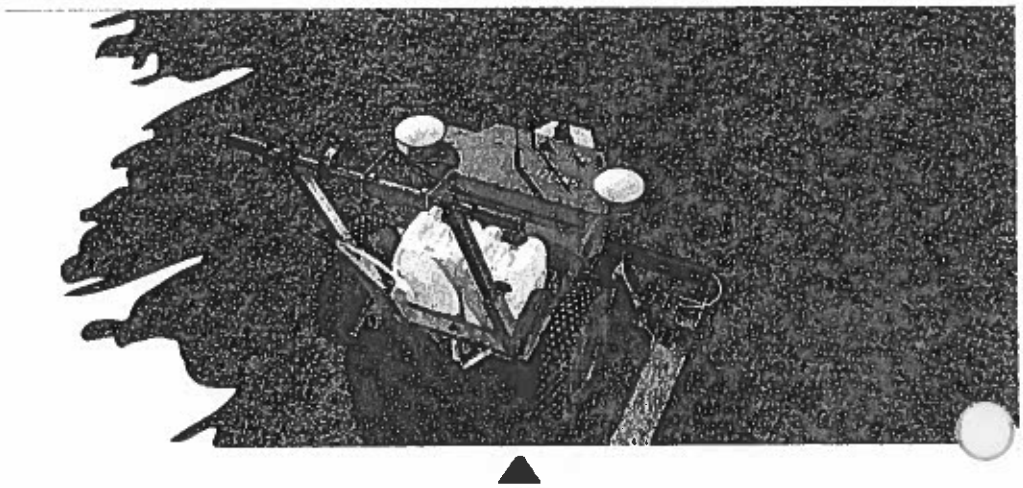
Challenges with Conventional Methods.

Time Consuming, Labor Intense, Expensive (both Labor & Paint), Skill & Experience Required, Difficult to Produce Quality & Accuracy

SWOZI
GPS LINE MARKING

Tired of Laying Out Sports Field Lines?

Let a Robot Do the Work!



WOZI

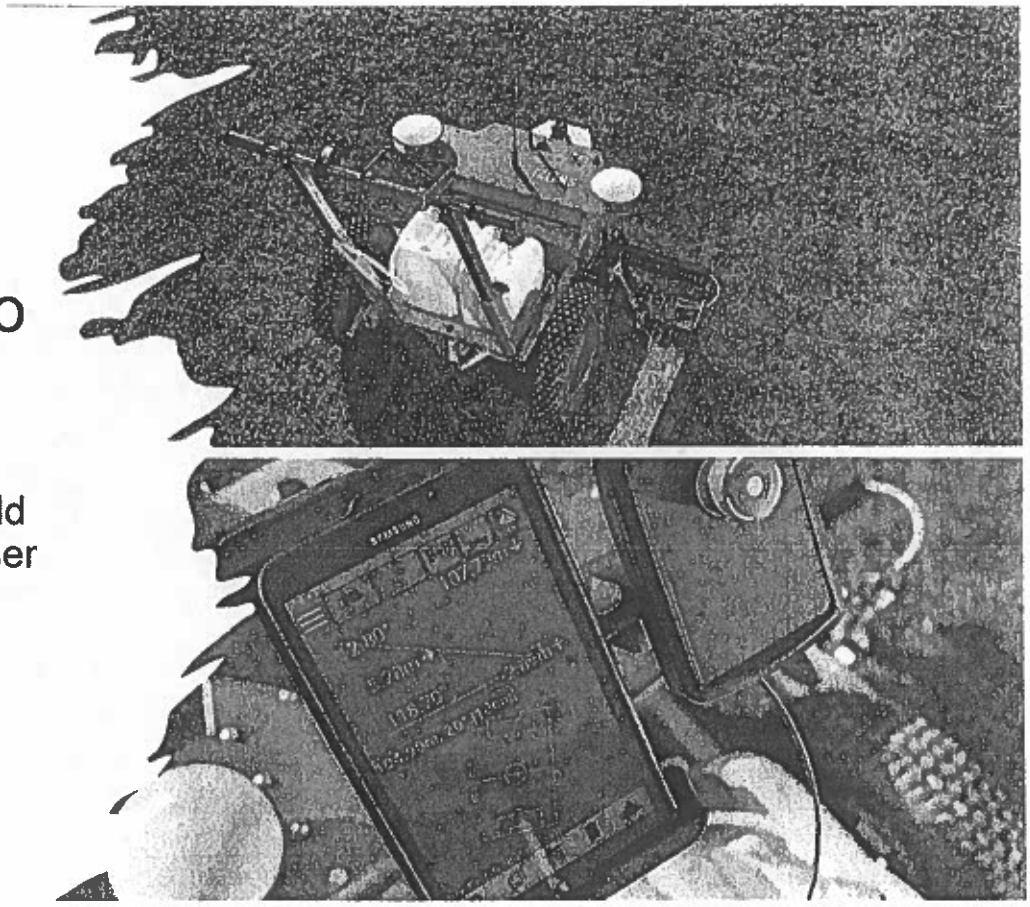
GPS LINE MARKING

SWOZI Cart Pro Auto.

An autonomous sports field line marker for ultimate user convenience.

SWOZI

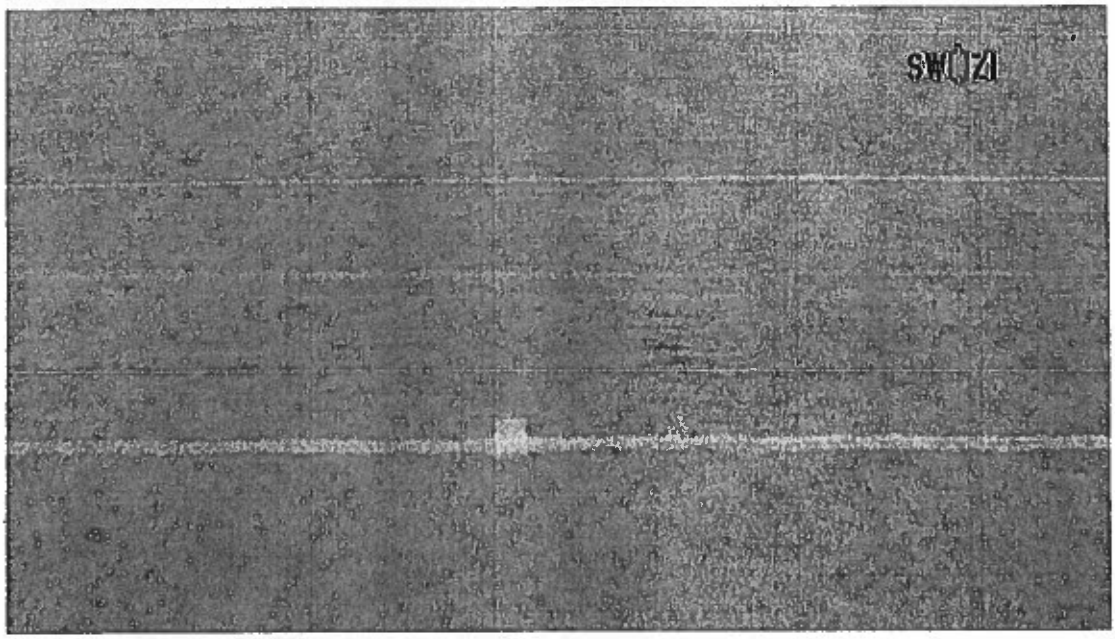
OPS LINE MARKING

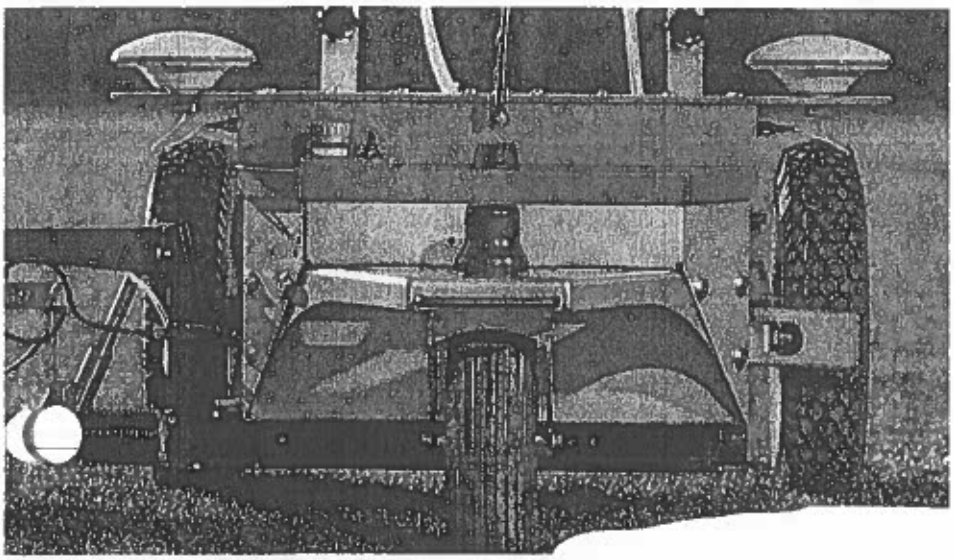


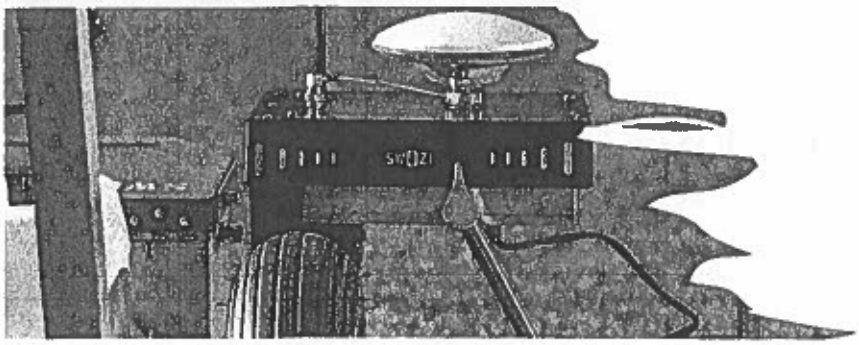
SWOZI

GPS LINE MARKING

SWOZI Auto Model Video Link:
https://vimeo.com/472499045



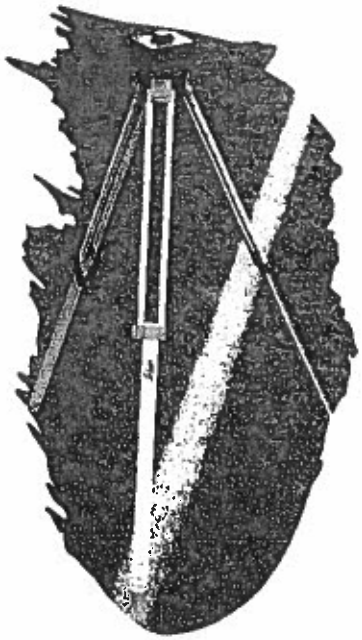


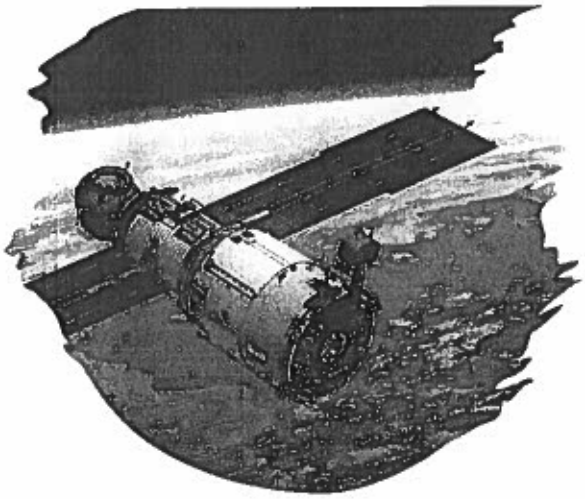


SWOZI
GPS LINE MARKING

Centimeter Accurate RTK GPS Technology.

SWOZI is equipped with real time kinetic ("RTK") receivers that translates standard +/- 3ft accurate GPS into centimeter accurate signals to achieve centimeter line painting quality.

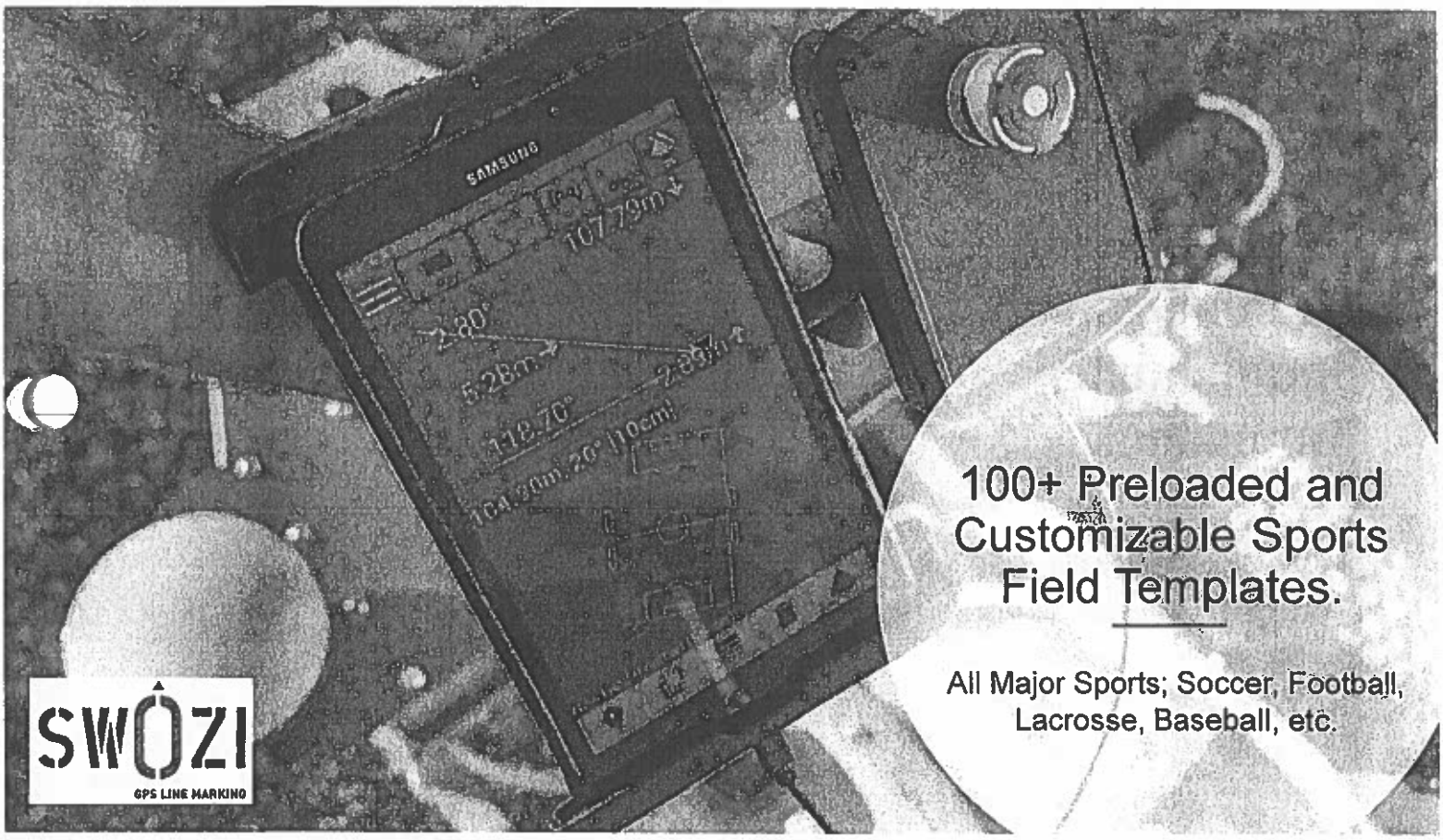




Flexible RTK GPS Technology.

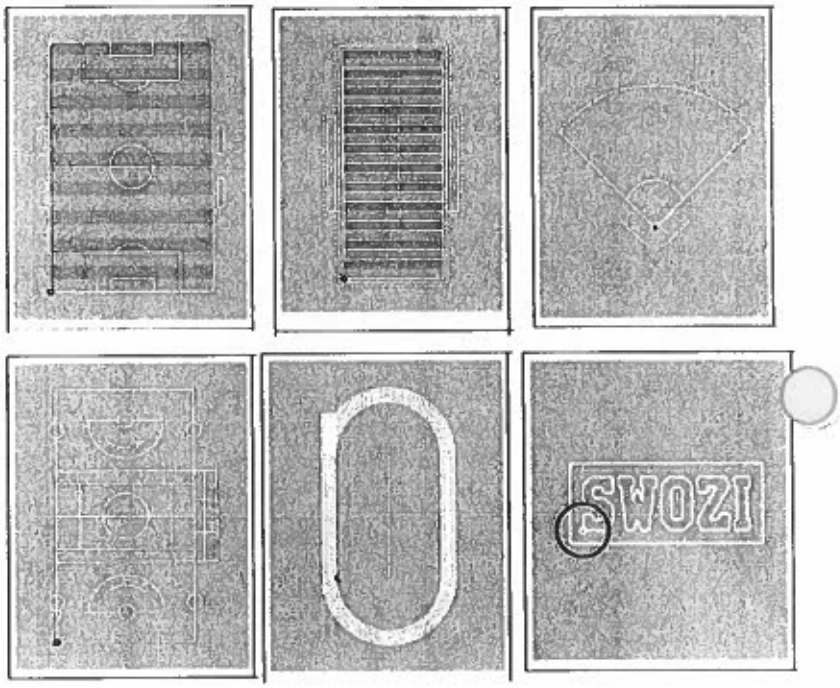
Available in both Network RTK GPS or through SWOZI's On-Field Base Station.

SWOZI
GPS LINE MARKING

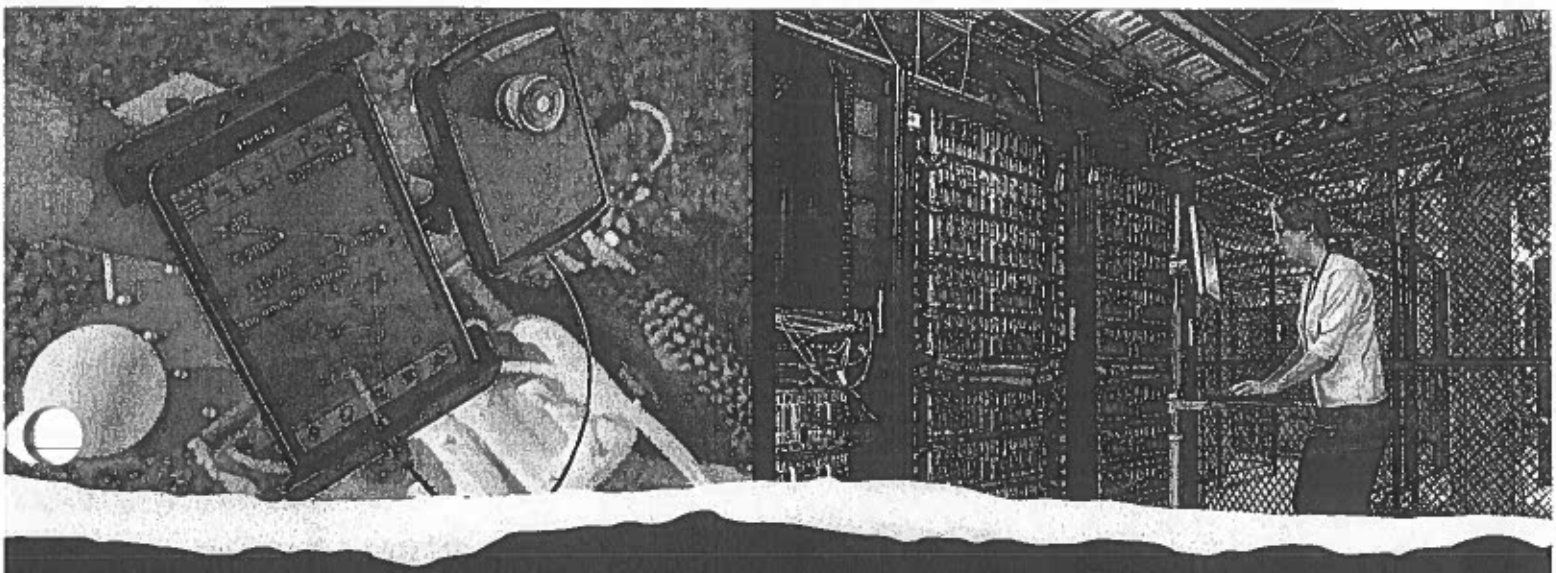

SAMSUNG
107.79m
2.80°
5.28m
118.70°
SWOZI
GPS LINE MARKING
100+ Preloaded and Customizable Sports Field Templates.
All Major Sports; Soccer, Football, Lacrosse, Baseball, etc.

Preloaded and Customizable Sports Field Templates.

All Major Sports; Soccer, Football, Baseball, and Lacrosse.

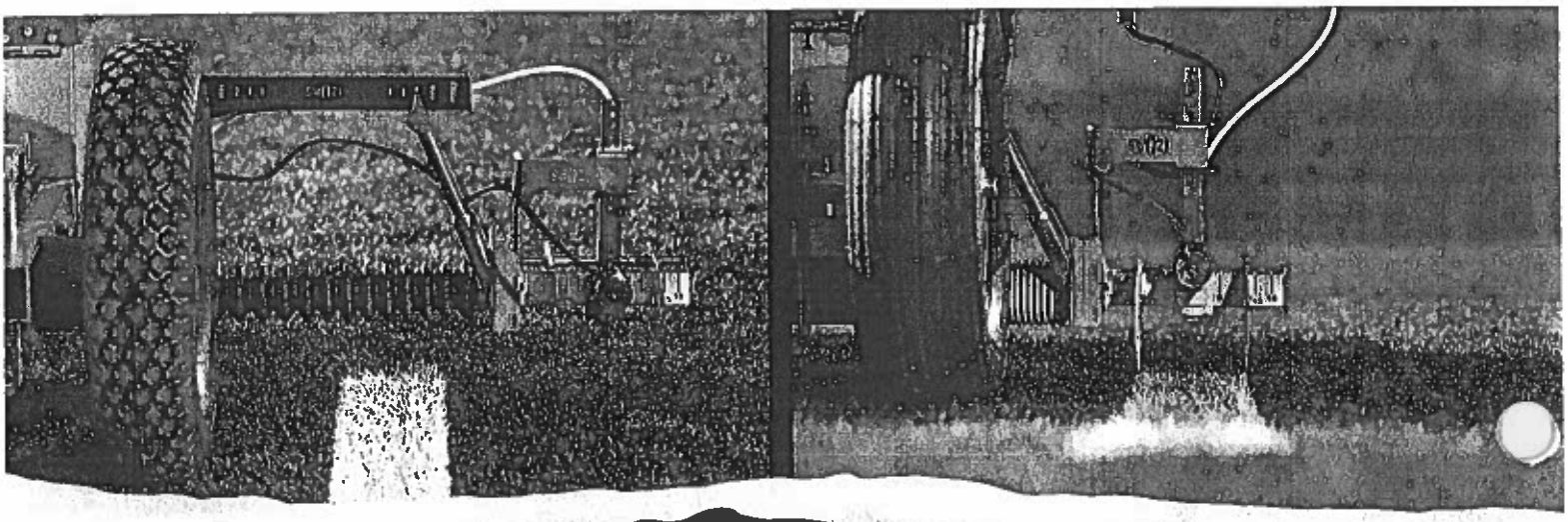


SWOZI
GPS LINE MARKING



Cloud Storage of
Customized Customer
Field Layouts.

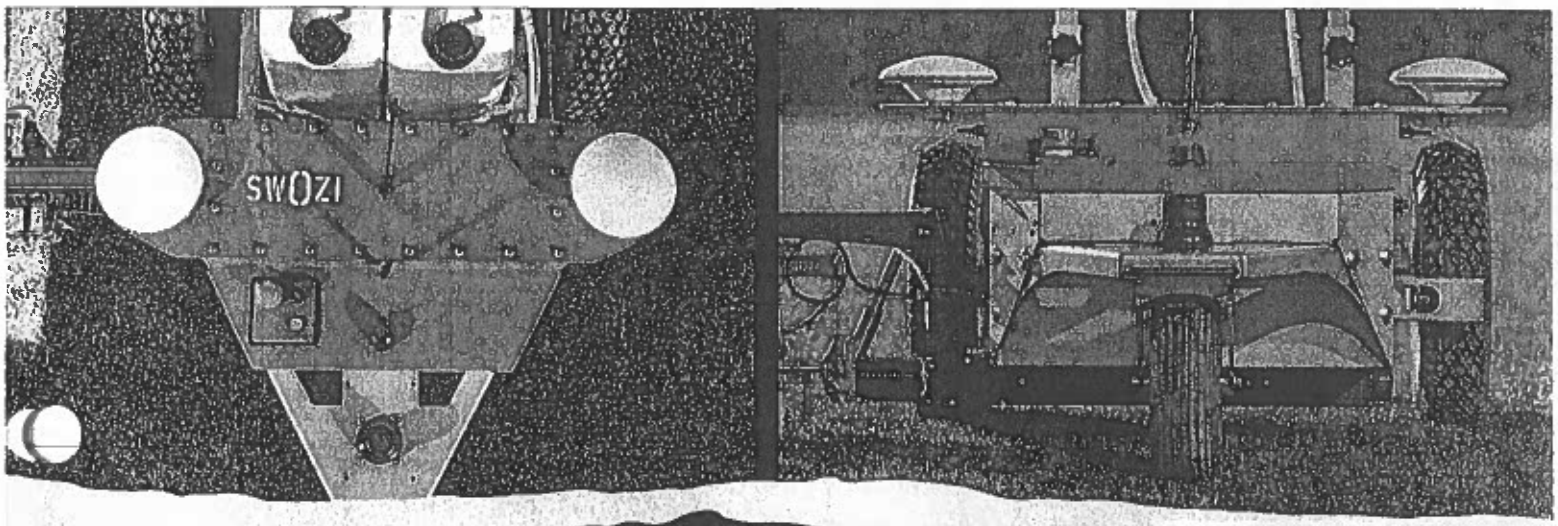
SWOZI
GPS LINE MARKING



Robotic Spray Head Arm.

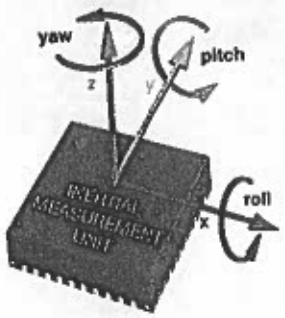
Ensures the line is always straight.

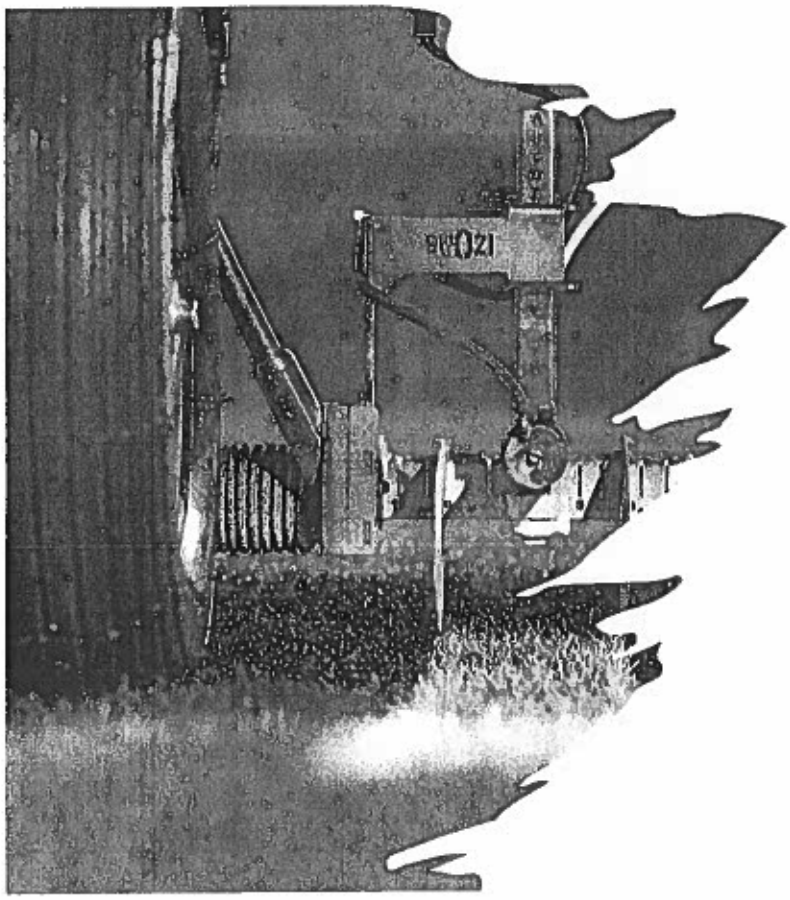
SWOZI
GPS LINE MARKING



Dual Band GPS with 3D Terrain Correction Technology.

Keeps lines straight even on bumpy turf.





Automatic Pump Control.

Painting Starts and Stops Automatically with Millisecond precision. Variable pump flow controls paint usage.

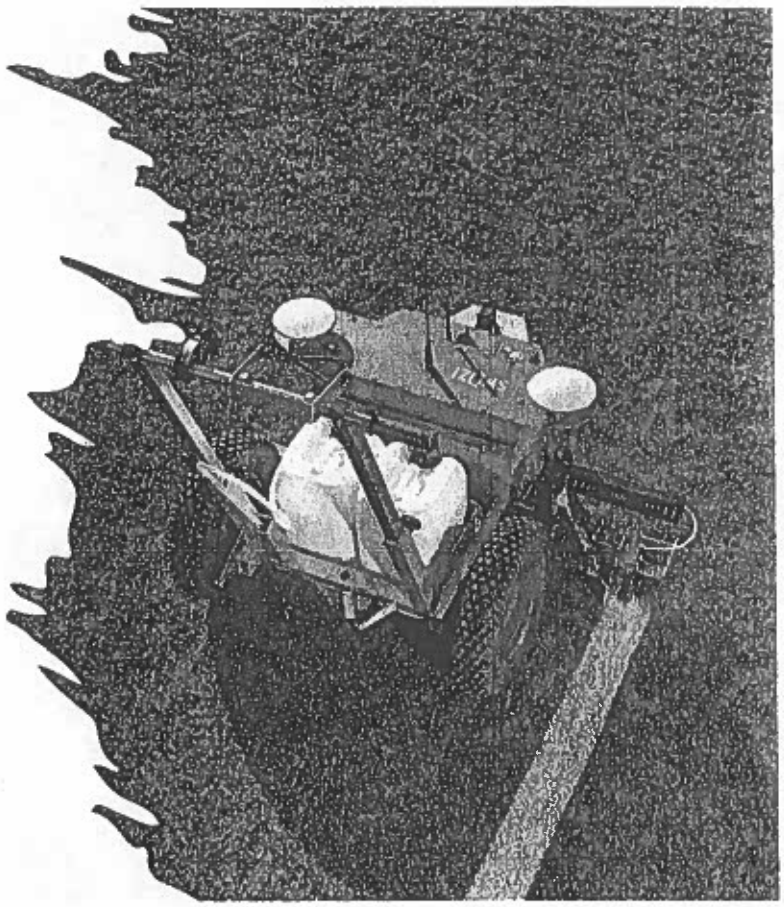
SWOZI
GPS LINE MARKING

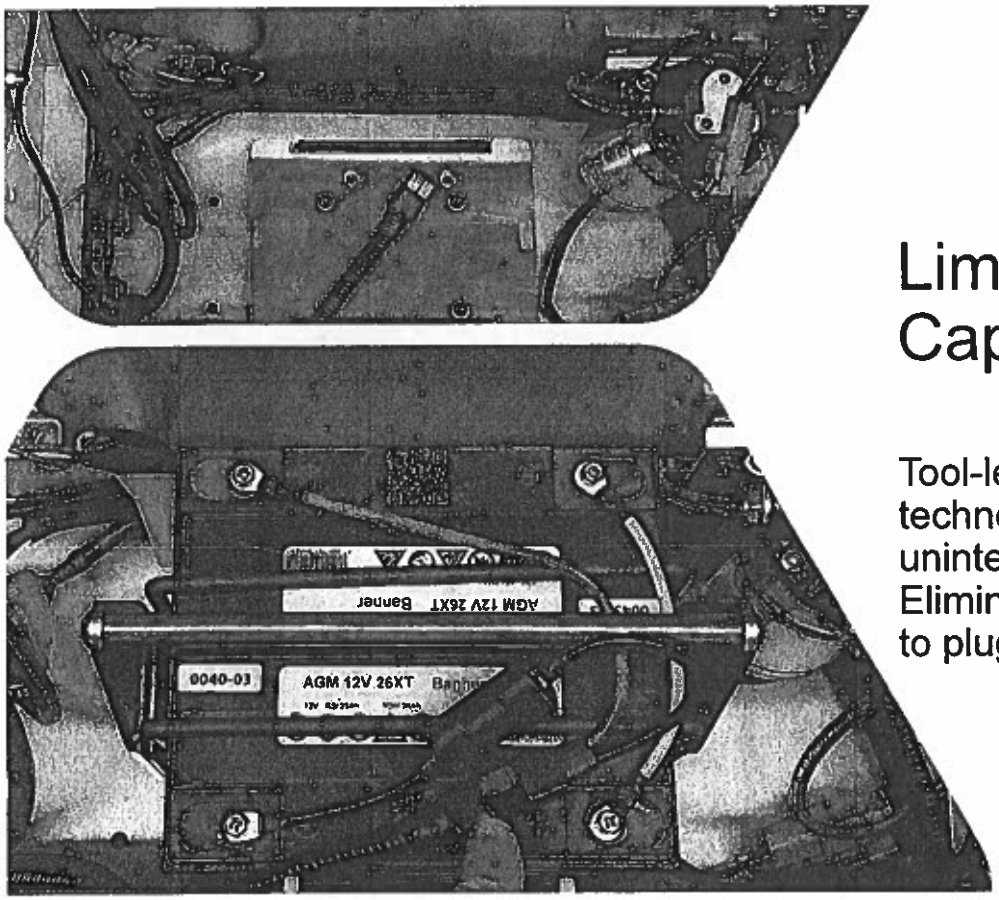
SWOZI

GPS LINE MARKING

Large Paint Capacity.

Holds up to 7 Gallons of Paint. Reduces Stopping Mid-way Through the Field to Add Paint. Conveniently Uses the Manufacturer's Paint Container and Any Brand of Sports Field Line Marking Paint. No Messy Paint Reservoirs to Clean.





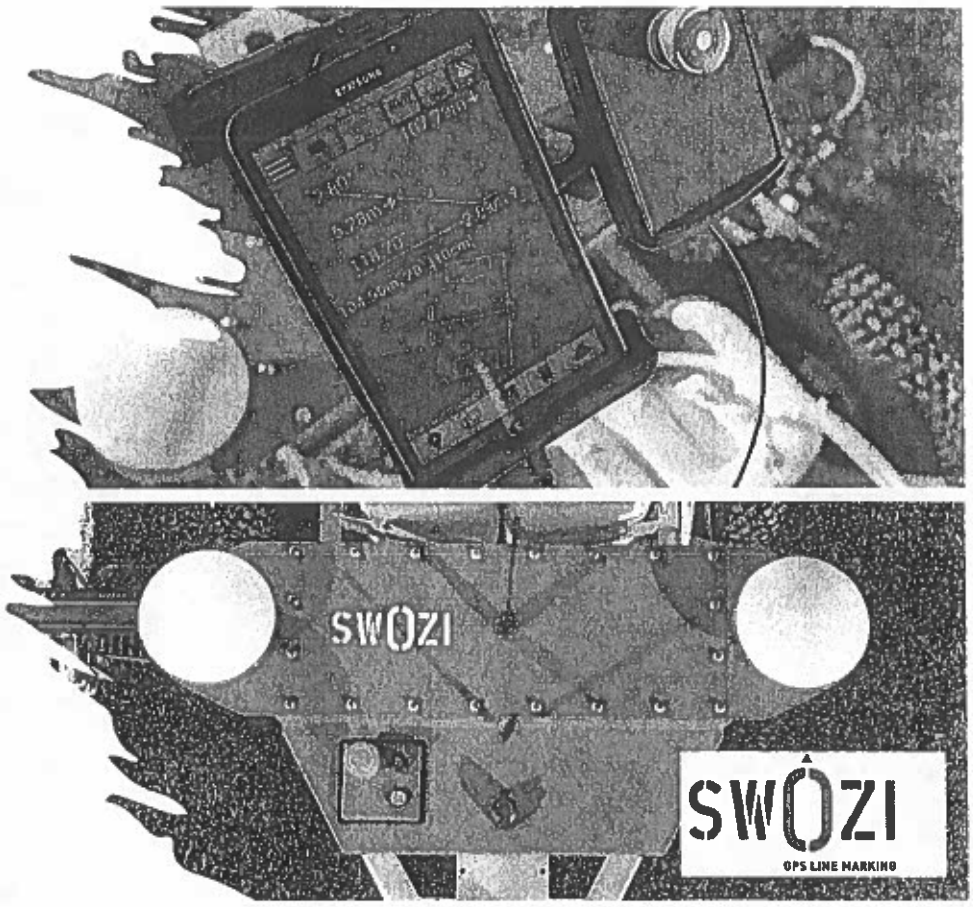
Limitless Battery Capacity.

Tool-less Hot-swap Battery technology allows for uninterrupted performance. Eliminating the need to stop work to plug-in and recharge.

SWOZI
GPS LINE MARKING

Always the Latest Technology.

SWOZI's over-the-air software and firmware updates keep SWOZI always up-to-date with the latest software, firmware and sports field templates.

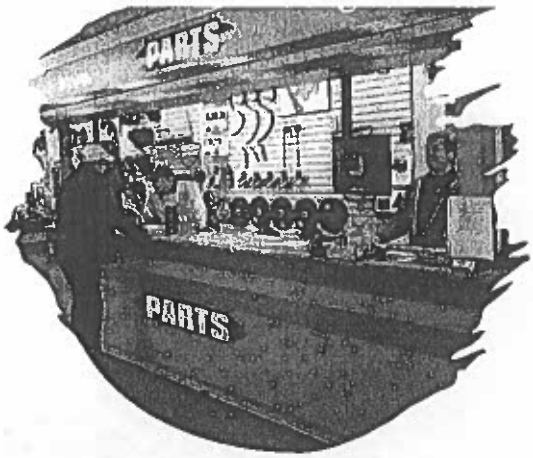


Over-the-Air Technical Machine Diagnostics

State-of-the-Art Telematic Service Diagnosis

SWOZI

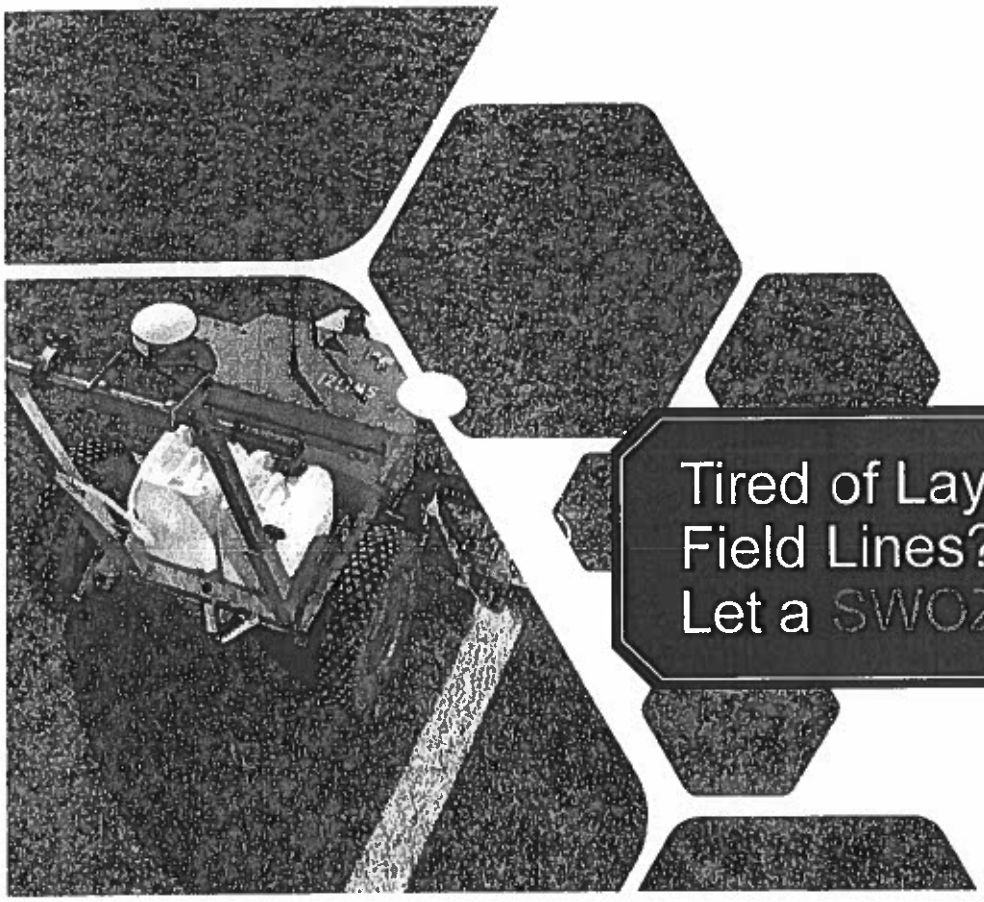
GPS LINE MARKING



Backed by Professional Service.

SWOZI is exclusively sold through experienced commercial turf equipment dealerships with factory trained personnel and parts.

SWOZI
GPS LINE MARKING



SWOZI

GPS LINE MARKING

Tired of Laying Out Sports Field Lines?
Let a SWOZI Do the Work!

Turf Robotics, LLC - Proprietary & Confidential

TURF TANK®

[CT] Waterford Recreation & Parks Commission - Pro Subscription Quote

[CT] Waterford Recreation & Parks Commission
15 Rope Ferry Rd
Waterford, CT 06385
United States

Reference: 20231108-150540768
Quote created: November 8, 2023
Quote expires: February 6, 2024
Quote created by: Mike Aveni
Regional Territory Manager - Atlantic Northeast
mike.aveni@turftank.com

Ryan Mcnamara
Director
rmcnamara@waterfordct.org
8604445881

Products & Services

Item & Description	SKU	Quantity	Unit Price	Total
US - Turf Tank Two Pro Package - Upfront Implementation Cost Includes: - Configuration & Shipping of Robot - Secure Inventory & Lock in Installation Date - Product Training & Online Resources		1	$1,700.00	$1,700.00

Item & Description	SKU	Quantity	Unit Price	Total
US - Turf Tank Two Pro Package - Subscription Includes: - GPS Paint Robot + GPS Package (Includes Android Tablet) - Continuous Software Improvements - Free Form Text Creation - Customized Logo Creation (Available Late 2022) - Standard Geometry Package - Extended Geometry Package - Paint: $3,000 Allotment of Paint (White) - (3) Robot Batteries - Customer Support: 24/7 Monday-Sunday - Hardware Warranty Program: Full (Includes Consumables) - (1) Paint System Service Kit/per year: (Includes: Solenoid, 1-Pump, 1- Suction rod assembly, 1-tubing set.) - (2) 5.5 Gallon Paint Container for Robot - (2) 2.5 Gallon Empty Paint Containers - Customized Robot Wrapping - (2) Maintenance & Training Visits/Per Year - Courtesy Robot (If necessary)		1	$15,996.00 / year	$15,996.00 / year for 6 year

Annual subtotal	$15,996.00
One-time subtotal	$1,700.00
Total	**$17,696.00**

Purchase terms & Comments

Implementation is a one-time fee.

The included $3k annual paint allotment currently equates to ~280 sprayable gallons.

Invoice Type	**Invoice Details**
Implementation Fee Invoice	**Implementation Fee Invoice** must be paid prior to the shipment and installation of the robot. The invoice for Implementation Fee should be available within 24 hours after the contract has been signed and returned. The invoice will be emailed to the billing contact on file and will be from billing@turftank.com.
First Invoice	**First Invoice** will be emailed and made available within 24 hours after the robot has been shipped. Payment will be due at the installation and training of the robot. The invoice will be emailed to the billing contact on file and will be from billing@turftank.com.

***Sales Tax** is not included in the above quote. If you are not tax-exempt you will be subject to sales tax on your invoices. If you are tax-exempt, we will need to collect and validate your tax-exempt certificate.

Signature

_____ _____

Signature Date

_____

Printed name

Questions? Contact me

Mike Aveni
Regional Territory Manager – Atlantic Northeast
mike.aveni@turftank.com

Turf Tank
1110 Allgood Industrial Ct
Marietta, GA 30066
United States

Ryan McNamara

From: Mike Aveni <mike.aveni@turftank.com>
Sent: Wednesday, November 8, 2023 3:10 PM
To: Ryan McNamara
Subject: Turf Tank Field-Painting Robot

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

Hi Ryan -

Thanks again for your interest in the Turf Tank field-painting robot. I'm confident our robot will be a welcomed new productivity tool to save Waterford Recreation & Parks Commission time and money!

We've worked hard to make Turf Tank budget-friendly. You can use the robot system as an **annual subscription** -- you don't need to worry about a large upfront expense. Plus, if you're not thrilled each year, you have the option to cancel without penalties!

For $11k or $15.9k/yr, depending on the subscription level, we'll provide a 100% turnkey solution that covers everything needed: the Turf Tank robot, tablet, pallet of paint ($2 or $3k allotment), GPS base station, continuous software enhancements, warranty, and support.

With paint included each year and significantly lower labor costs, you'll immediately realize a return on your investment. Your invoice will not be sent until we spend a full day at Waterford Recreation & Parks Commission setting up your fields and training your staff.

Here are links to quotes for the annual subscriptions for both Turf Tank Pro and Plus levels:

Turf Tank Plus Subscription Quote

With the significant number of fields you're responsible for in Waterford, I recommend you also consider the Pro level subscription. The primary reasons most (83% since 2022) of our partners chose the Pro level over the Plus:

1. 56% more paint annually - 280 gallons($3k worth) of sprayable paint for the Pro level
2. Full bumper-to-bumper warranty including all consumables
3. Premium Service Kit - extra pump ($250), solenoid ($750), tubing kit ($150), and battery ($1200) for quick replacement when needed.
4. Two annual service visits to update software, inspect and service, clean, train new operators, and winterize ($1,500)
5. Customized Waterford Recreation & Parks Commission field logo
6. Customized robot wrapped in Waterford colors and logos
7. 24/7 support - Plus provides support during M-F during business hours only
8. Complimentary robot while yours is being serviced, if needed

Link to your >> Turf Tank Pro Subscription Quote <<

Please let me know if you have any additional questions or if you'd like to connect with existing Turf Tank partners.

Thanks,

-Mike

*** Advantages of Turf Tank over traditional manual field painting:

- Labor hours reduced significantly - savings for specific sports: football, soccer, lacrosse. Similar savings for field hockey, field events (discus, shot put, javelin), baseball, softball, volleyball, ultimate frisbee, etc.
- Uses 50% less paint than traditional sprayers, saving thousands of dollars every year
- Paint included each year
- Multi-tasking - while the robot paints, other tasks can be completed (trimming, mowing, weed-whacking, etc)
- Never re-paint to avoid 'losing lines' when the field isn't in use - saving man-hours and paint
- Consistent professional quality - perfectly straight lines and square corners every time
- Wear and tear of fields - move entire fields with one click to save typical wear spots
- Custom stencils - custom text, team letters at mid-field, messages/sponsorship, breast cancer awareness ribbon, etc.
- Zero-emissions - battery powered vs environmentally unfriendly gas-powered painters and aerosols
- Wear and tear on personnel - currently must walk every painted line
- Mark sprinkler heads prior to aerating, thatching, etc.
- Baseball/softball field edging - paint lines for infield grass edging

MIKE AVENI

REGIONAL TERRITORY MANAGER

TURF TANK®

m: +1 781-775-3736
e: mike.aveni@turftank.com
w: www.turftank.com
a: Atlantic Northeast

PROJECTED FLEET MANAGEMENT FUND BALANCE ON 6/30/2024

FLEET FUND BALANCE AS OF 10/31/23			**3,209,933**	
		FY Approved		
VEHICLES ON ORDER AS OF 11/22/23				
Car 14 (PD)		FY23	40,816	PO 230384
H35 (DPW)		FY24	263,962	PO 240328
S20 (DPW)		FY24	391,997	PO 240326
H27 (DPW)			46,370	PO 240364
Car 7 (PD)		FY24	46,719	
Car 9 (PD)		FY24	25,075	
Car 12 (PD)		FY24	38,422	
Car 17 (PD)		FY24	45,913	
Car 18 (PD)		FY24	45,913	240565
			945,187	
VEHICLES RECEIVED AS OF 10/17/23				
**paid after 8/31/23 report compiled*				
Car 6 (PD)			40,355	PO 230384
			40,355	
VEHICLES APPROVED TO PURCHASE AS OF 7/1/23				
BOE 4 (BOE)		FY23	55,375	
H18 (DPW)		FY23	215,000	
H39 (DPW)		FY23	230,000	
			500,375	
EQUIPMENT APPROVED FOR REPLACEMENT				
H147	(DPW)	FY23	19,545	
P60	(REC & PARK)	FY23	65,400	
H27	(DPW)	FY24	46,370	PO 240364
			131,315	
		TOTAL DUE	1,617,232	
EXPECTED FUND BALANCE ON 6/30/2024			**1,592,701**	

PROJECTED FLEET MANAGEMENT FUND BALANCE ON 6/30/2025

EXPECTED FLEET FUND BALANCE AS OF 6/30/024		1,592,701
FY25 BUDGETED TRANSFER INTO FUND		1,000,000
	TOTAL AVAILABLE	**2,592,701**

TOWN OF WATERFORD
FLEET MANAGEMENT PLAN - VEHICLES
FISCAL YEARS 2025 - 2029

TOTAL NO. OF VEHICLES 158

															22	16	13	12	-		
															4,621,014	1,656,712	1,589,122	2,280,445	-		
FLEET Asset ID	TOWN Asset ID	License Plate No.	DO NOT REPL	Agency Code	Agency Name	Vehicle Assigned to:	Class Code	Repl. Cycle in Years	Class Description	Asset Model Year	In-Service Date	Gross Vehicle Cost	Manuf.	2025	2026	2027	2028	2029	Current Mileage / or Usage Hours	Total Repair Costs to date
BOE1	008900	24WFD			Board of Ed	Maintenance (Kyle Stoddard)	PCK-F	10	PICK UP	2022	07/20/22	$56,324	Ford							
BOE11 (old)				60	Board of Ed		Mule 4x4	10					KAWASAKI						83,927	
BOE12	500168	AG56629		60	Board of Ed		VAN-MINI	5	7-Passenger Mini-Van	2019	06/11/19	$21,743	Dodge		27,000				175,258	5,482.42
BOE13	500135	S2065S		60	Board of Ed		VAN-MINI	5	7-Passenger Mini-Van	2017	01/10/18		Dodge	26,000					93,449	175.55
BOE14	500204	AE4880		60	Board of Ed		Van-Mini	5	7-Passenger Mini-Van	2019	02/26/20	$21,394	Dodge			28,000			55,472	
BOE15		S3164S		60	Board of Ed		VAN-MINI	5	7-Passenger Mini-Van	2020	09/21/21	$28,501	Chrysler				29,000		22,251	
BOE2 (old)	005877		DNR	60	Board of Ed		VAN-DPW	10	VAN	2005	04/21/05	$29,058	Ford							
BOE2	BOE2	23WFD		60	Board of Ed	Maintenance (Tom Thurlow)	VAN	10	EXPRESS VAN (BOX TRUCK)	2020	11/10/20	$44,445	Chevrolet						11,851	
BOE3	500009	25WFD		60	Board of Ed	Maintenance (Jon Tillinghast)	PCK-F	10	PICK UP	2013	11/04/13	$46,104	GMC	69,000					87,537	1,295.82
BOE4	008923	26WFD		60	Board of Ed	Maintenance (Bryan Swanson)	PCK-F	10	PICK UP	2012	11/30/12	$42,293	Ford						66,907	159.99
BOE5	008850	27WFD		60	Board of Ed	(Kevin VanCleave)	VAN-DPW	10	VAN	2011	01/20/11	$18,425	Ford	37,500					110,000	1,125.93
BOE6	500132	28WFD		60	Board of Ed	Maintenance (Dan Santos)	CK35903	10	PICK UP	2018	05/09/18	$48,686	Chevrolet				65,000		54,015	
BOE7	500038	29WFD		60	Board of Ed	Maintenance (Steve Kowalski)	PCK-F	10	PICK UP	2015	12/31/14	$44,396	Chevrolet	75,000					51,930	3,555.21
BOE8	008922	30WFD		60	Board of Ed	Maintenance (Dan Morris)	MDD-DPW	15	MEDIUM DUTY DUMP	2012	12/20/12	$32,798	Ford	69,000	-				62,509	
BOE9	500039	117WFD		60	Board of Ed	Maintenance (Dan Kamercia)	PCK-F	10	PICK UP	2015	01/09/15	$46,037	Chevrolet			69,780			97,647	
W-51	101405	346WFD		COH	Cohanzie Fire Company		1500PMP-F	18	1500 GPM PUMPER (FIRE)	2016	04/11/16	$563,200	E-One						30,589 mi/ 2461 hrs	25,888.00
W-53	100515	347WFD		COH	Cohanzie Fire Company		BRS-F	25	BRUSH TRUCK (FIRE)	2009	05/12/09	$95,854	Ford				315,000		10,449m/ 1419 hrs	2,943.00
W-55	100079	348WFD		COH	Cohanzie Fire Company		T&A-F	20	LADDER/AERIAL (FIRE)	2004	12/29/04	$650,446	SUTPHEN	2,200,000					44,812m/ 4816 hrs	130,590.00
W-56	101012	349WFD		COH	Cohanzie Fire Company		UTL-F	15	UTILITY UNIT (FIRE)	2011	10/12/10	$47,426	Ford		73,000				52,224	4,925.00
W-57	101011	350WFD		COH	Cohanzie Fire Company		SPC-F	20	SPECIALTY UNIT (FIRE)	2010	10/05/10	$511,983	Ferrara Igniter Custom						148,795m/ 2512 hrs	27,764.00

TOWN OF WATERFORD
FLEET MANAGEMENT PLAN - VEHICLES
FISCAL YEARS 2025 - 2029

TOTAL NO. OF VEHICLES 158

														22	16	13	12	-	
														4,621,014	1,656,712	1,569,122	2,280,445	-	
FLEET Asset ID	TOWN Asset ID	License Plate No.	DO NOT REPL	Agency Code	Agency Name	Vehicle Assigned to:	Class Code	Repl. Cycle in Years	Class Description	Asset Model Year	In-Service Date	Gross Vehicle Cost	Manuf.	2025	2026	2027	2028	2029	Current Mileage / or Usage Hours	Total Repair Costs to date
W-16	101615	334WFD		COH	Jordan Company		UTL-F	12	UTILITY UNIT (FIRE)	2018	03/01/18	$49,368	Ford						22,833m/ 1180 hrs	-
Car 115 (Q115)	101354	115WFD		23/FM	FIRE SERVICES	Fire Inspector (Bauch)	SUV-FIRE	8	SUV	2015	06/19/15	$33,333	Ford						37,500	517.00
Car 55 (Q55)	101203	55WFD		23/FM	FIRE SERVICES	Fire Marshall (Dubicki)	PCK-F	10	PICKUP AND JEEP (FIRE)	2013	11/16/12	$31,620	Ford	64,000					117,000	2,489.00
Car 85 (Q85)	101409	85 WFD		23/FM	FIRE SERVICES	Director of Fire Services (Howley)	CAR-F	8	SUV	2016	02/26/16	$43,884	Ford	64,000					118,000	3,001.00
NEW					FIRE SERVICES	Asst Chief of Fire Services		15							65,000				0	-
A1	101381	1-WFD		1	FIRST SELECTMAN	First Selectman (Brule)	SUV-DPW	8	SUV	2016	10/30/15	$33,554	Ford						73,000	3,322.62
W-31	101236	30WFD		GOS	Goshen Fire Company		1500PMP-F	18	1500 GPM PUMPER (FIRE)	2014	07/25/13	$486,826	KME Custom						16,669mi/ 1539 hrs	20,118.00
W-32	100203	334WFD		GOS	Goshen Fire Company		1500PMP-F	18	1500 GPM PUMPER (FIRE)	1998	02/23/99	$307,935	Spartan						39,230m/ 4295 hrs	46,174.00
W-34	101127	133WFD		GOS	Goshen Fire Company		UTL-F	20	UTILITY UNIT (FIRE)	2012	03/01/12	$58,114	Ford						9,183 m/ 701hrs	2,478.00
W-36	100310	335WFD		GOS	Goshen Fire Company		UTL-F	20	UTILITY UNIT (FIRE)	2007	08/29/06	$36,973	Ford			74,000			53,206m/ 2355 hrs	28,319.00
W-93	100376	N/A		GOS	Goshen Fire Company		BOT-F	30	BOAT (FIRE)	2007	06/29/07	$103,334	Lake Assault						1139mi/ 1028 hrs	11,410.00
W-94		N/A		GOS	Goshen Fire Company		ATV	20	ATV EMS Utility Unit										218m/ 20 hrs	-
W-11	101321	20WFD		JOR	Jordan Fire Company		1500PMP-F	18	1500 GPM PUMPER (FIRE)	2014	12/05/14	$458,400	Typhoon						38,156m/ 3287 hrs	34,021.00
W-15	101536	15WFD		JOR	Jordan Fire Company		T&A-F	20	TOWER LADDER/AERIAL (FIRE)	2016	07/28/17	$998,854	Pierce						32,844m/ 2866 hrs	63,610.00
W-41	101809	341WFD		OSW	Oswegatchie Fire Company		1500PMP-F	18	1500 GPM PUMPER (FIRE)	2018	08/15/18	$537,205	Spartan						9,105mi/ 822 hrs	11,901.00
W-42	100433	342WFD		OSW	Oswegatchie Fire Company		1500PMP-F	25	1500 GPM PUMPER (FIRE)	2007	05/14/08	$416,793	Seagrave						437,720 mi/ 4831 hrs	59,195.00
W-43	100256	343WFD		OSW	Oswegatchie Fire Company		BRS-F	25	BRUSH TRUCK (FIRE)	2006	06/06/06	$125,245	Ford		226,206				12,834mi/ 1294 hrs	13,930.00
W-46		340WFD			Oswegatchie Fire Company		UTL-F	12	UTILITY UNIT (FIRE)	2020	12/18/20	$59,841	Ford						15,127mi/ 566 hrs	840.00
ATV 1	100434			29	POLICE		ATV-PD	12	ALL TERRAIN VEHICLE	2007	06/11/08	$5,845	KAWASAKI							674.73
ATV 2	101516	G4737		29	POLICE		ATV-PD	10	ALL TERRAIN VEHICLE	2017	06/14/17	$6,044	POLARIS							974.52
ATV 3	101517	G6071		29	POLICE		ATV-PD	10	VEHICLE	2017	06/14/17	$6,044	POLARIS		48,022					1,079.93

TOWN OF WATERFORD
FLEET MANAGEMENT PLAN - VEHICLES
FISCAL YEARS 2025 - 2029

TOTAL NO. OF VEHICLES 158

														22	16	13	12	-		
														4,621,014	1,656,712	1,569,122	2,280,445	-		
FLEET Asset ID	TOWN Asset ID	License Plate No	DO NOT REPL	Agency Code	Agency Name	Vehicle Assigned to	Class Code	Repl Cycle in Years	Class Description	Asset Model Year	In-Service Date	Gross Vehicle Cost	Manuf.	2025	2026	2027	2028	2029	Current Mileage / or Usage Hours	Total Repair Costs to date
CAR 1	101886	377MHN		29	POLICE	Patrol	SUV-DPW	10	SUV	2020	04/06/20	$51,367	Chevrolet						63,186 mi	2,446.49
CAR 10	101972	10WFD		29	POLICE	Patrol	SUV-DPW	8	SUV	2021	03/11/21	$48,005	FORD						14,062	586.67
CAR 101		54WFD	DNR	29	POLICE	Special Use	9999	0	Do Not Replace	1985	04/29/13	Donated	Humvee						39,967	1,187.98
CAR 11	101973	11WFD		29	POLICE	Patrol	SUV-DPW	8	SUV	2021	03/11/21	$48,005	FORD						31,917	1,444.64
CAR 12	101656	12WFD		29	POLICE	Patrol	CRU-DPW	5	CRUISER	2019	02/27/19	$38,422	Ford						93,422 mi/ 11,863hrs	4,990.00
CAR 13	101974	13WFD		29	POLICE	Patrol	SUV-DPW	8	SUV	2021	03/11/21	$48,005	Ford						50,925	728.44
CAR 14	101277	14WFD		29	POLICE	Patrol	CRU-DPW	5	CRUISER	2014	06/06/14	$28,890	Chevrolet				45,820		79,177	10,922.00
CAR 15	101505	AG43371		29	POLICE	Traffic Officer	SUV-DPW	8	Pick -up Truck	2017	01/25/17	$40,007	Chevrolet	-	60,106				58,960 mi.	3,856.00
NEW CAR 16		16WFD			POLICE	Patrol			SUV	2023		$47,200	Ford							
CAR 17	101807	17WFD		29	POLICE	Patrol	SUV-DPW	8	SUV	2019	04/25/19	$45,913	Ford						72,913 mi/ 10,761hrs	3,819.00
CAR 18	101808	18WFD		22	POLICE	Patrol	CAR-DPW	8	CAR	2019	04/25/19	$45,913	Ford	65,594					100,379 mi/ 13,087hrs	6,015.00
CAR 19	101975	19WFD		29	POLICE	Patrol	SUV-DPW	8	SUV	2021	03/11/21	$48,005	Ford						33,341	390.33
CAR 20	101381	AB38068		29	POLICE	Chief	SUV-DPW	8	SUV	2022	10/07/22	$34,149	Ford							
Car 2	101120	2WFD	DNR	29	POLICE	Patrol	SUV-DPW	8	SUV	2011	11/14/11	$28,553	Ford						70,088m/ 3962hrs	8,902.81
CAR 4	101120	4WFD		29	POLICE	Patrol	SUV-DPW	8	SUV	2022	07/12/22	$34,685	Ford						70,088m/ 3962hrs	8,902.81
CAR 22	101322	22WFD		29	POLICE	Patrol (Road Jobs only)	SUV-DPW	8	SUV	2015	11/18/14	$26,163	Ford						133,776m/ 18,369hrs	10,562.23
CAR 23	101507	AG79330		29	POLICE	Investigators	SUV-DPW	8	CAR	2017	01/31/17	$30,442	Ford						1084hrs	117.84
CAR 34	101022	931PHE	DNR	29	POLICE	Investigators	CAR-DPW	8	CAR	2011		$23,975	Ford						6177m/ 316hrs	
CAR 25	101294	583UTH		29	POLICE	Lieutenants	SUV-DPW	8	SUV	2023	05/03/23	$47,899	Ford							
CAR 26		584UTH			POLICE	Chief		8	SUV	2022	02/11/22		Ford							
CAR 27	101474	873PJK		29	POLICE	Investigators	SUV-DPW	8	SUV	2017	10/17/16	$34,583	Ford						1656hrs	1,908.48
CAR 28	101316	8AMLP7		29	POLICE	Investigators	SUV-DPW	8	SUV	2015	10/07/14	$26,384	Ford	60,106					70,218 mi/ 3230 hrs	3,487.00
CAR 29	101275	935GHH		29	POLICE	Patrol	CRU-DPW	5	CRUISER	2014	05/13/14	$28,158	Chevrolet	78,879					115,407 mi/ 4706 hrs	4,892.00
CAR 3	101587	3WFD		29	POLICE	Patrol (K9)	CAR-DPW	8	SUV	2018	0416/18	$44,562	Ford	83,945					108,520 mi/ 13,715hrs	5,737.43
CAR 30	101585	156MCM		29	POLICE	Investigators	CAR-DPW	8	SUV	2018	03/16/18	$35,981	Ford						28,054m/ 268hrs	1,012.94
CAR 31	101380	AB38069		29	POLICE	Lieutenants	SUV-DPW	8	SUV	2016	10/30/15	$33,977	Ford	60,106					82,625 mi/ 4571hrs	3,507.00

TOWN OF WATERFORD
FLEET MANAGEMENT PLAN - VEHICLES
FISCAL YEARS 2026 - 2029

TOTAL NO. OF VEHICLES 158

														22	16	13	12	-	
														4,621,014	1,656,712	1,569,122	2,280,445	-	
FLEET Asset ID	TOWN Asset ID	License Plate No.	DO NOT REPL	Agency Code	Agency Name	Vehicle Assigned to:	Class Code	Repl. Cycle in Years	Class Description	Asset Model Year	In-Service Date	Gross Vehicle Cost	Manuf.	2025	2026	2027	2028	2029	Current Mileage / or Usage Hours	Total Repair Costs to date
CAR 35	101253	154WFD	DNR	35	POLICE		VAN-DPW	10	VAN	2013	11/08/13	$59,035	Ford						91,503	
CAR 24	101893	AZ70025		29	POLICE	Detective Sergeants	SUV-DPW	9	SUV	2020	08/10/20	$33,254	Ford						159,028	
CAR 21	101422	21WFD		29	POLICE	Patrol Supervisors	SUV-DPW	8	SUV	2022	03/16/22	$52,962	Ford						100,197m/ 16,860hrs	11,535.81
CAR 5	101971	5WFD		29	POLICE	Patrol	SUV-DPW	8	SUV	2021	03/11/21	$48,005	Ford						1653hrs	538.85
CAR 6	101834	6WFD		29	POLICE	Patrol Supervisors	SUV-DPW	8	SUV	2019	10/04/19	$45,372	Chevrolet							5,663.34
CAR 7	101403	7WFD		29	POLICE	Patrol (K9)	SUV-DPW	8	SUV	2016	04/04/16	$46,719	Ford						100,887 mi/ 13,052 hrs	18,602.00
CAR 8	101887	8WFD		29	POLICE	Patrol	SUV-DPW	8	SUV	2020	04/01/20	$55,196	Chevrolet						25,698m/ 3190 hrs	2,313.07
CAR 9	101657	9WFD		29	POLICE	Patrol	CRU-DPW	5	CRUISER	2019	02/25/19	$25,075	Ford						94,593 mi/ 11,863hrs	7,453.00
CV1	101421	118WFD	DNR	29	POLICE	Special Use (Critical Incident)	9999	0	Do Not Replace	1998	08/23/98	$128,999	Ford							
PD2	101138	N/A		29	POLICE		BOT-PD	30	Boat (Police)	2012	03/02/12	$453,878	Sea Ark Marine 2810V							
A20	101197	104-WFD		30	BOE	Courier	CAR-HYB	10	CAR - HYBRID	2012	09/18/12	$27,238	Ford		26,949				121,479	7,455.42
A18	100255	110WFD	DNR	30	PUBLIC WORKS	Loaner	9999	0	Do Not Replace	2006		$23,656	Ford						75,201	4,397.48
A8	9204031666	106WFD	DNR	30	PUBLIC WORKS	Asst Director (Matheson)	9999	0	Do Not Replace	2001	12/06/00	$22,523	JEEP						100,254	17,980.78
A2	100508	45WFD	DNR	30	PUBLIC WORKS	Director (Schneider)	9999	0	Do Not Replace	2009	02/11/09	$19,090	Ford						97,470	5,853.86
H11	101829	78WFD		30	PUBLIC WORKS		PCK-DPW	14	PICK UP	2019	11/12/19	$40,640	Ford						31,396	3,236.34
H12	9204031656	80WFD		30	PUBLIC WORKS		PCK-DPW	14	PICK UP	2003	01/02/03	$36,000	Ford	183,795					55,772 mi	13,162.54
H13	101257	79WFD		30	PUBLIC WORKS		PCK-DPW	14	PICK UP	2014	12/06/13	$33,569	Chevrolet						62,185	11,701.72
H14	101340	32WFD		30	PUBLIC WORKS		MDD-DPW	15	MEDIUM DUTY DUMP	2015	02/09/15	$140,270	International	235,640					42,884 mi/ 4500hrs	27,196.31
H15	101344	129WFD		30	PUBLIC WORKS		MDD-DPW	15	MEDIUM DUTY DUMP	2015	03/27/15	$140,270	International		225,000				37,225	30,383.68
H16	101506	123WFD		30	PUBLIC WORKS		MDD-DPW	15	MEDIUM DUTY DUMP	2018	04/18/17	$171,927	FREIGHTLINER						21,995	10,871.52
H17	101508	83WFD		30	PUBLIC WORKS		MDD-DPW	15	MEDIUM DUTY DUMP	2018	04/26/17	$171,927	FREIGHTLINER						24,809	11,747.42
H18	100523	125WFD		30	PUBLIC WORKS		MDD-DPW	15	MEDIUM DUTY DUMP	2010	06/17/09	$103,117	International						61,3598m/ 5920hrs	58,241.49

TOWN OF WATERFORD
FLEET MANAGEMENT PLAN - VEHICLES
FISCAL YEARS 2025 - 2029

TOTAL NO. OF VEHICLES 158

															22	16	13	12	-		
															4,821,014	1,656,712	1,569,122	2,280,445	-		
FLEET Asset ID	TOWN Asset ID	License Plate No.	DO NOT REPL	Agency Code	Agency Name	Vehicle Assigned to	Class Code	Repl. Cycle in Years	Class Description	Asset Model Year	In-Service Date	Gross Vehicle Cost	Manuf.	2025	2026	2027	2028	2029	Current Mileage / or Usage Hours	Total Repair Costs to date
H19	101133	108WFD		30	PUBLIC WORKS		PCK-DPW	14	PICK UP	2012	03/15/12	$31,876	Ford		65,000				136,056	20,694.49
H24	9204031539	56WFD		30	PUBLIC WORKS		SWP-DPW	18	SWEEPER	2003	10/18/02	$118,670	Elgin	348,209					17,143 mi	80,790.81
H25	101504	57WFD		30	PUBLIC WORKS		SWP-DPW	18	SWEEPER	2018	03/13/17	$221,772	FREIGHTLINER			265,000			15,149	22,346.16
H30	101511	87WFD		30	PUBLIC WORKS		5DMP-DPW	20	5 TON DUMP TRUCK	2018	05/12/17	$173,657	FREIGHTLINER						41,640	20,701.56
H31	101444	88WFD		30	PUBLIC WORKS		5DMP-DPW	20	5 TON DUMP TRUCK	2017	08/05/16	$170,945	FREIGHTLINER			250,000			45,090	15,783.29
H32	101445	95WFD		30	PUBLIC WORKS		5DMP-DPW	20	5 TON DUMP TRUCK	2017	08/11/16	$170,945	FREIGHTLINER				250,000		11,311	14,281.27
H34	101804	94WFD		30	PUBLIC WORKS		5DMP-DPW	20	5 TON DUMP TRUCK	2019	03/21/19	$180,345	FREIGHTLINER						8,463	4,799.31
H35	101199	92WFD		30	PUBLIC WORKS		5DMP-DPW	20	5 TON DUMP TRUCK	2012	09/28/12	$195,832	International						52,192mi/ 5,604hrs	81,542.75
H36	1001264	124WFD		30	PUBLIC WORKS		5DMP-DPW	20	5 TON DUMP TRUCK	2014	03/04/14	$140,885	International	276,695					56,85700mi/ 4700hrs	39,690.01
H37	101263	131WFD		30	PUBLIC WORKS		5DMP-DPW	20	5 TON DUMP TRUCK	2014	02/14/14	$140,885	International			245,000			36,101	26,289.02
H38	101262	130WFD		30	PUBLIC WORKS		5DMP-DPW	20	5 TON DUMP TRUCK	2014	12/24/13	$140,885	International				245,000		36,604	22,712.55
H39	100475	96WFD		30	PUBLIC WORKS		5DMP-DPW	20	5 TON DUMP TRUCK	2009	07/23/08	$115,800	International						60,533m/ 5288hrs	105,157.11
H40	101598	97WFD		30	PUBLIC WORKS		5DMP-DPW	20	5 TON DUMP TRUCK	2018	06/13/03	$176,828	FREIGHTLINER						18,575	4,992.61
H50	100436	101WFD		30	PUBLIC WORKS		VAC-CC	20	HOOKLIFT CHASSIS	2009	04/30/08	$63,890	International						5,524	5,453.84
H-50V	100012	N/A		30	PUBLIC WORKS		VAC-BODY	10	Vac-All Body	2004	04/22/04	$109,898	Vac-All Body for H-50						1643 HRS	31,862.00
H50-1a		N/A			PUBLIC WORKS				15 YD BODY SLED	2022	07/28/22									
H50-1b		N/A			PUBLIC WORKS				FLAT BED SLED	2022	07/28/22									
H50-1c		N/A			PUBLIC WORKS				HOOKLIFT SLED	2022	07/28/22									
H50-1d		N/A			PUBLIC WORKS				SANDER SLED	2022	07/28/22		MONROE							
H50-1e		N/A			PUBLIC WORKS				CRANE SLED	2022	07/28/22		FASSI							
H50-1f		N/A			PUBLIC WORKS				16" BODY	2022	07/28/22	$240,100	BEAUROC							
H50-1g		N/A			PUBLIC WORKS				12' MULTI PURPOSE BODY SLED	2022	07/28/22									

TOWN OF WATERFORD
FLEET MANAGEMENT PLAN - VEHICLES
FISCAL YEARS 2025 - 2029

TOTAL NO. OF VEHICLES 158

														22	16	13	12	-	
														4,621,014	1,656,712	1,569,122	2,280,445	-	
FLEET Asset ID	TOWN Asset ID	License Plate No	DO NOT REPL	Agency Code	Agency Name	Vehicle Assigned to:	Class Code	Repl Cycle in Years	Class Description	Asset Model Year	In-Service Date	Gross Vehicle Cost	Manuf.	2025	2026	2027	2028	2029	Current Mileage / or Usage Hours	Total Repair Costs to date
H51	100981	90WFD		30	PUBLIC WORKS		216SPC-DPW	18	18-YEAR SPECIALTY UNIT	2010	06/04/10	$180,550	International				72,967		34,311	12,790.11
H6	101830	81WFD		30	PUBLIC WORKS		PCK-DPW	14	PICK UP	2019	11/20/19	$40,640	Ford						25,991	1,624.78
H64	101535	61WFD		30	PUBLIC WORKS		LDR-DPW	20	LOADER	2017	07/20/17	$198,847	VOLVO						237	5,615.53
H65	100061	59WFD		30	PUBLIC WORKS		LDR-DPW2	20	LOADER	2004	09/07/04	$115,135	VOLVO				230,000		11,943	35,162.46
H9	101019	77WFD		30	PUBLIC WORKS		180SPC-DPW	15	15-YEAR SPECIALTY UNIT	2011	11/24/10	$76,014	International	150,528					105,980mi/ 8200hrs	16,867.09
S20	101382	72WFD		30	PUBLIC WORKS		SLP-DPW	7	SIDE LOAD REFUSE	2016	9/11/2015	$250,200	PETERBILT						88,201mi/ 9,420 hrs	62,199.85
S21	101383	64WFD		30	PUBLIC WORKS		SLP-DPW	7	SIDE LOAD REFUSE	2016	09/08/15	$250,200	PETERBILT	391,997					80,285 mi/ 10,205 hrs	64,423.25
S22	101628	71WFD		30	PUBLIC WORKS		SLP-DPW	7	SIDE LOAD REFUSE	2019	03/20/18	$253,542	PETERBILT		350,000				38,295	27,970.18
S23	100476	73WFD		30	PUBLIC WORKS		RLP-DPW	8	REAR LOAD RAFUSE	2009	09/17/08	$131,557	International				35,000		37,307	13,900.69
S24	100477	74WFD		30	PUBLIC WORKS		RLP-DPW	8	REAR LOAD RAFUSE	2009	09/19/08	$131,557	International			350,000			42,932	33,842.78
S25	101890	75WFD		30	PUBLIC WORKS		RCY-DPW	9	SIDE LOAD REFUSE	2022	09/17/20	$265,737	PETERBILT						10,957	4,067.05
S19		93WFD	DNR	30	PUBLIC WORKS		RCY-DPW	9	SIDE LOAD REFUSE	2011	03/03/11	$218,336	PETERBILT						91,406	112,135.37
S26	101044	76WFD		30	PUBLIC WORKS		RCY-DPW	9	SIDE LOAD REFUSE	2021	12/01/21	$264,747	PETERBILT						97,036	147,435.79
S29	101385	69WFD		30	PUBLIC WORKS		FLP-DPW	15	SIDE LOAD REFUSE	2016	11/30/15	$223,725	PETERBUILT						93,082	25,480.56
A10	101018	112WFD			PZ/BH	Environmental Planner	CAR-DPW	8	CAR	2011	11/18/10	$18,433	Ford		33,329				29,565	2,812.32
A3	100997	103WFD			PZ/BH	Planning & Zoning	CAR-DPW	8	CAR	2011	10/06/10	$19,658	Ford			33,329			46,246	2,887.15
A6	101198	128WFD			PZ/BH	Asst Building Official	CAR-HYB	8	CAR - HYBRID	2012	09/11/12	$27,238	Ford				33,329		23,972	1,838.10
A7	101084	107WFD	DNR		PZ/BH	Building Official	CAR-HYB	8	CAR - HYBRID	2012	10/13/11	$26,928	Ford						81,306	2,805.16
A9	101083	111WFD			PZ/BH	Asst Building Official	CAR-HYB	8	CAR - HYBRID	2012	10/13/11	$26,928	Ford				34,329		41,307	2,502.56
W-21	100311	39WFD		QH	Quaker Hill Fire Company		1500PMP-F	25	1500 GPM PUMPER (FIRE)	2006	10/02/06	$396,447	Ferrara				925,000		35,488mi/ 3503 hrs	52,483.00
W-23	100257	68WFD		QH	Quaker Hill Fire Company		BRS-F	25	BRUSH TRUCK (FIRE)	2006	07/01/06	$125,245	Ford						8,374mi/ 1329 hrs	15,545.00
W-25	101432	331WFD		QH	Quaker Hill Fire Company		1500PMP-F	18	1500 GPM PUMPER (FIRE)	2016	06/17/16	$773,695	Spartan						57,450m/ 3539 hrs	24,603.00

TOWN OF WATERFORD
FLEET MANAGEMENT PLAN - VEHICLES
FISCAL YEARS 2025 - 2029

TOTAL NO. OF VEHICLES 158

														22	16	13	12	-		
														4,821,014	1,656,712	1,589,122	2,280,445	-		
FLEET Asset ID	TOWN Asset ID	License Plate No.	DO NOT REPL	Agency Code	Agency Name	Vehicle Assigned to:	Class Code	Repl. Cycle in Years	Class Description	Asset Model Year	In-Service Date	Gross Vehicle Cost	Manuf.	2025	2026	2027	2028	2029	Current Mileage / or Usage Hours	Total Repair Costs to date
A19	100216	337WFD		QH	EOC		UTL-F	12	UTILITY UNIT (FIRE)	2006	02/01/06	$44,076	Ford						54,800m/ 3373 hrs	6,232.00
W-26		62WFD		QH	Quaker Hill Fire Company		UTL-F	15	UTILITY UNIT (FIRE)	2021	08/15/23	$64,000	Ford						2150 mi	
R8	101438	34WFD		37.00	REC/PARKS	Director/Asst Director Shared Vehicle	PCK-PKS	14	PICK UP	2016	42,569.00	$27,990	Chevrolet						38,840 mi	1,432.48
R9	101844	35WFD		37	REC/PARKS		MDD-PKS	12	PICK UP	2020	2/21/2020	$52,189	Ford						25,460 mi	1,060.33
R10	101256	36WFD		37	REC/PARKS		PCK-PKS	14	PICK UP	2014	12/6/2013	$33,570	Chevrolet		47,500				73,355 mi	16,493.37
R11	101325	37WFD		37	REC/PARKS		PCK-PKS	14	PICK UP	2015	12/31/2014	$52,824	Chevrolet			55,000			40,172 mi	10,894.37
R14 (new)		38WFD			REC/PARKS		MDD-PKS	12	MEDIUM DUTY DUMP	2022	10/12/2022	$63,625	Ford							
R15	101835	100WFD		37	REC/PARKS		PCK-PKS	12	PICK UP	2020	2/6/2020	$42,013	Ford						20,031 mi.	1,985.38
R16	101836	44WFD		37	REC/PARKS		PCK-PKS	12	PICK UP	2020	2/6/2020	$42,013	Ford						21,059 mi	1,352.34
NEW					REC/PARKS			12	UTV					46,000						
R30	101449	31934		35	SRCTZ		VAN-DPW	10	VAN	2017	09/14/16	$63,020	FORD						33,319	
R4	101631	26820		35	SRCTZ		VAN-DPW	10	VAN	2018	10/16/18	$60,897	FORD						7,430	
R5	101253	23979		35	SRCTZ		VAN-DPW	10	VAN	2022	07/06/22	$65,023	Ford							
S18	101045	70WFD		30	PUBLIC WORKS		9999	15	SIDE LOAD REFUSE	2011	03/15/11	$218,336	PETERBUILT						83368	122,577.13
H10 (OLDT1)	100261	150WFD	DNR	31	PUBLIC WORKS	Facilities (Paul Koelle)	PCK-DPW	14	Do Not Replace	2006	08/20/06	$35,655	Chevrolet						163,730	
CAR 100		50WFD	DNR	31	WUC		9999	0	Do Not Replace	1984	02/08/13	Donated	Humvee						Humvee	
C1	101532	53WFD		31	WUC	Chief Engineer (Soto)/Asst Director (Bartell)	SUV-DPW	8	SUV	2017	08/30/17	$26,771	Ford			37,163			53,656	1,378.74

TOWN OF WATERFORD
FLEET MANAGEMENT PLAN - VEHICLES
FISCAL YEARS 2025 - 2029

TOTAL NO. OF VEHICLES 158

														22	16	13	12	-		
														4,621,014	1,856,712	1,569,122	2,280,445	-		
FLEET Asset ID	TOWN Asset ID	License Plate No.	DO NOT REPL	Agency Code	Agency Name	Vehicle Assigned to:	Class Code	Repl Cycle in Years	Class Description	Asset Model Year	In-Service Date	Gross Vehicle Cost	Manuf.	2025	2026	2027	2028	2029	Current Mileage / or Usage Hours	Total Repair Costs to date
C2	101049	116WFD		31	WUC	Survey Party Chief (Lathrop)	SUV-DPW	8	SUV	2011	03/29/11	$26,771	Ford	35,020					34,116	3,079.61
C3	101137	122WFD		31	WUC	Sewer Maint Operators	240SPC-DPW	20	20-YEAR SPECIALTY UNIT	2012	03/06/12	$79,819	International						10,918	11,404.55
C3-A (Mounted on C-3)		N/A		31	WUC		VAC-Body	10	Vac-All Body	2012	03/06/12	$163,857	AQUATECH		198,600				748.10 hrs	
C4	9204030963	51WFD		31	WUC	Sewer Maint Operators	5DMP-DPW	20	5 TON DUMP TRUCK	1991	01/02/91	$104,011	Ford						20,027	6,564.95
(Mounted on C4)	101207	N/A		31	WUC		240SPC-DPW	20		2012	09/05/12	$128,697	CUES CCTV						CCTV	
C5	100715	338WFD	DNR	31	WUC	Asst Director (Bartelli)		8	CRUISER	2010	11/30/09	$19,701	Ford						107,673	5,704.97
T1	101847	48WFD		31	WUC	Foreman (Clark)	PCK-DPW	14	PICK UP	2020	03/20/20	$58,085	FORD						13,535	75.39
T2	101082	49WFD		31	WUC	Sewer Tech II (Gerovitz)	PCK-DPW	14	PICK UP	2011	07/27/11	$55,594	GMC			66,650			94,830	12,574.42
T3	101586	82WFD		31	WUC	Sewer Maint Operators	PCK-DPW	14	PICK UP	2018	01/11/18	$54,843	Chevrolet						42,258	3,616.71
NEW					WUC		DMP	20	DUMP TRUCK							82,600				
NEW					WUC		TRL	20	TRAILER							12,600				
NEW					WUC		PMP	20	BY-PASS MOBILE PUMP						211,000					
T4	101448	52WFD		31	WUC	Lead Maint Operator (Williams)	PCK-DPW	14	PICK UP	2016	09/28/16	$53,749	Chevrolet						62,040	4,224.31
T5 (old)	100260	109WFD	DNR	31	WUC		PCK-DPW	14	Do Not Replace	2006	06/20/06	$20,939	Ford						106,078	6,804.00
T5	101894	46WFD		31	WUC		PCK-DPW	14	Pick UP	2020	12/01/20	$45,130	Ford						9,334	3,734.32
T6	100219	126WFD	DNR	31	WUC		UTL-F	12	Do Not Replace	2006	01/23/06	$44,606	Ford						106,078	9,201.00

TOWN OF WATERFORD
FLEET MANAGEMENT PLAN - EQUIPMENT
FISCAL YEARS 2025 - 2029

TOTAL NO. 60

											Equipment to be Replaced	7	15	3	3	1
											Total Budget	574,800	588,496	83,500	65,500	382,853
FLEET Asset ID	TOWN Asset ID	DO NOT REPL	Agency Name	Repl Cycle in Years	Class Description	Asset Model Year	In-Service Date	Gross Vehicle Cost	Manuf	Model	Serial #	2025	2026	2027	2028	2029
BOE10	006024		Board of Ed	10	SKID STEER LOADER	2007	05/11/07	$22,000	New Holland	L170 Skid Star Bobcat	N7M455552		34,718			
BOE11 (old)			Board of Ed	0					KAWASAKI	MULE OFF ROAD UTILITY VEHICLE	JK1AFDA132B5077					
BOE11	500022/50023		Board of Ed	10	UTILITY CART	2014	02/12/14	$25,353	John Deere (w/ spreader and plow)	XUV855DPS	CH3009D250621					
Boat Trailer	101428		Goshen Fire Company	20	TRAILER (FIRE)	2017	06/03/16	$8,749	Shore Lander	Boat Trailer	1MDAVA121HA609182					
			Goshen Fire Company	20	TRAILER (boat)	2018			Caravan	boat trailer	5KTBS1911JF543838					
H147	9204031621		PUBLIC WORKS	20	TRAILER	1991	06/07/91	$2,194	ROSCO	3 TON UTILITY TRAILER	1YB411327M1B1T617		13,650			
H27	100440		PUBLIC WORKS	15	TRACTOR	2008	05/20/08	$82,026	JOHN DEERE	MODEL 5603 TRACTOR	LV5603R268632					
H-33	100137		PUBLIC WORKS	15	STUMP GRINDER	2004	11/12/04	$23,651	CARLTON	7500 - Stump Grinder	1J9G42122C1167474		80,000			
H43DT	9204031625		PUBLIC WORKS	20	TRAILER	2001	09/14/00	$30,375	FRUEHAUF	DUMP TRAILER	1JJU262F61S737748		45,000			
H43RO	9204031602		PUBLIC WORKS	15	15-YEAR SPECIALTY UNIT	2000	11/10/00	$14,925	BENLEE	TRAILER TA60TC34	1B9A13420YB183504					
H43T	100182		PUBLIC WORKS	12	LOW BOY TRAILER	2006	10/05/05	$37,398	TOWMASTER	T-70DTG DUMP TRAILER	4KNFT22276L160354			$ 15,000	$ 15,000	
H44	100073		PUBLIC WORKS	20	CHIPPER	2005	11/18/04	$24,000	VERMEER	BC1000XL- CHIPPER	1VRY1119X51005548			$ 45,000	$ 45,000	
H45	100878		PUBLIC WORKS	25	BACKHOE	2009	03/15/10	$89,180	VOLVO	BL70 BACKHOE/LOADER	VCEOBL70A00020080					
H47	100473		PUBLIC WORKS	20	TRACTOR	2008	09/09/08	$39,900	JOHN DEERE	5603 LOADER/TRACTOR	LV5603R270211		46,370			
H48	101140		PUBLIC WORKS	20	ROLLER	2012	04/23/12	$33,105	HAMM	HD 10VV Asphalt Roller	2001793					
H51	100981		PUBLIC WORKS	18	18-YEAR SPECIALTY UNIT	2010	06/04/10	$180,550	International	Model AL60 Aerial Lift / Hybrid	1HTMMAAR3AH247768					
H52	100081		PUBLIC WORKS	15	COMPRESSOR	2004	12/16/04	$14,420	Ingersoll Rand	P185WJD COMPRESSOR	350036UJ0221					
H53	100008		PUBLIC WORKS	30	SIDEWALK MACHINE	2004	12/12/03	$81,897	TRACKLESS	MT5TD SIDEWALK PLOW w/ attachments	MT5TD-2330					
H54	101384		PUBLIC WORKS	30	COMPACT LOADER	2015	10/16/15	$86,534	WACKER NEUSON	WL32 COMPACT LOADER W/ATTACHMENTS	3031050					

TOWN OF WATERFORD
FLEET MANAGEMENT PLAN - EQUIPMENT
FISCAL YEARS 2025 - 2029

TOTAL NO. 60

											Equipment to be Replaced	7	15	3	3	1
											Total Budget	574,800	588,496	83,500	65,500	382,853
FLEET Asset ID	TOWN Asset ID	DO NOT REPL	Agency Name	Repl Cycle in Years	Class Description	Asset Model Year	In-Service Date	Gross Vehicle Cost	Manuf.	Model	Serial #	2025	2026	2027	2028	2029
H55	101526		PUBLIC WORKS	20	CHIPPER	2017	09/08/17	$36,044	VERMEER CHIPPER	BC1000XL- CHIPPER	1VRY11196H1025266					
H56	101410	DNR	PUBLIC WORKS	0	Do Not Replace	1977	01/01/77	$2,770	LAYTON	D.550B SUPER PAVER	D7621-K-6					
H58	100482		PUBLIC WORKS	15	COMPRESSOR	2008	10/14/08	$16,985	Ingersoll Rand	XP185WJD Port. Compressor	402988UGS222					
H59	102107		PUBLIC WORKS	20	MINI PAVER	2021		$52,000	SALSCO	TP44-TD	21100400050290500					
H49			PUBLIC WORKS	20	MOWER	2023	08/29/22	$12,324	TORO	72946 (60" COMMERCIAL ZERO TURN)	412654613					
H77	101237		PUBLIC WORKS	15	UTILITY TRALER	2013	07/24/13	$3,630	BIG TEX	70TV-12 UTILITY TRAILER	16VUX1220D3E93806					
H9	101019		PUBLIC WORKS	15	15-YEAR SPECIALTY UNIT	2011	11/24/10	$76,014	International	4300 SBA 4x2 w/Platform Body	1HTMMAAL9BH388342	130,000				
S30	9204030249		PUBLIC WORKS	15	EXCAVATOR	2001	12/28/01	$87,805	VOLVO	EW170 EXCAVATOR	26289408	225,000				$ 382,853
UT2	100527		PUBLIC WORKS	20	TRAILER	2009	07/27/09	$11,857	CAM	8CAM824DOTT - Utility Trailer	5JPBU292X9P024572					
P95	101353		REC/PARKS	20	TRAILER	1999	11/1/1989	$1,250	Parker	Utility Trailer	13ZSA1014X1000005					
P51	101415		REC/PARKS	15	TRACTOR	2003	9/30/2003	$140,895	JOHN DEERE	4710 TRACTOR (diesel)	CVW1JD4510AS		80,000			
P53	101451		REC/PARKS	10	MOWER, LARGE	2016	10/19/2016	$60,650	TORO	GROUNDSMASTER 4100 (diesel)	316000766	60,650	-			
P54	101578		REC/PARKS	10	MOWER	2017	11/14/2017	$11,000	Ferris	IS 3200 72" Mower	2017982141			18000		
P55	101452		REC/PARKS	10	MOWER, LARGE	2016	10/19/2016	$60,650	TORO	Groundsmaster 4100 (diesel)	316000682	60,650	-			
P59			REC/PARKS	15	TRACTOR	2018			KUBOTA	(diesel)	L6060HSTC					
P60	101260		REC/PARKS	10	MOWER, LARGE	2013	1/10/2014	$61,160	Toro	Groundsmaster 4000 D - 10' mower (diesel)	313000145		61,160			
P61	101306		REC/PARKS	15	TRACTOR	2014	9/26/2014	$58,203	KUBOTA	L4760HSTC TRACTOR/LOADER w/attachments (diesel)	30612					
P62	101252		REC/PARKS	10	MOWER	2013	8/23/2013	$27,568	GROUND MASTER	3280 MOWER/HI-LIFT & BLOWER KIT (diesel)	313000335,313000109,	28,000	-			
P63	101450		REC/PARKS	10	MOWER	2016	10/19/2016	$18,277	TORO	GM7200 - 6' mower (diesel)	316000281		21,000			
P64	100290		REC/PARKS	10	SEEDER	2006	7/12/2006	$10,628	SEEDA-VATOR	SE-60E	483					

TOWN OF WATERFORD
FLEET MANAGEMENT PLAN - EQUIPMENT
FISCAL YEARS 2025 - 2029

TOTAL NO. 60

											Equipment to be Replaced	7	15	3	3	1
											Total Budget	574,800	588,496	83,500	65,500	382,853
FLEET Asset ID	TOWN Asset ID	DO NOT REPL	Agency Name	Repl. Cycle in Years	Class Description	Asset Model Year	In-Service Date	Gross Vehicle Cost	Manuf	Model	Serial #	2025	2026	2027	2028	2029
P65	101211		REC/PARKS	8	MOWER, LARGE	2022	1/9/2023	$47,789	VENTRAC	4520Z	4520Z-AR03257					
P74	101424		REC/PARKS	10	TRAP RAKE	2016	6/7/2016	$19,572	TORO	SANDPRO INFIELD PRO 3040	316000434	21,000				
P94	100641		REC/PARKS	20	TRAILER	2008	8/12/2008	$3,515			4YMUL18278V194364				5,500	
P90	100479		REC/PARKS	20	TRAILER	2008	10/30/2008	$3,534	Carry-On Trailer Corp.	Heavy Duty Landscape Trailer	4YMUL18289V006081			5,500		
P92	9204031607		REC/PARKS	20	TRAILER	1996	1/1/1996	$3,890	Cross Country		1C9FS2227T1432852		7,998			
P91	101832		REC/PARKS	20	TRAILER	2019	11/14/2019	$5,025	BRI-MAR	20 FT Trailer	58CB1EF27LC001480					
			EOC	20	TRAILER	2021	7/1/2022	$4,286	BRAVO	Model SCS85A	542BA0813MB036234					
P93	101831		REC/PARKS	20	TRAILER	2019	11/14/2019	$7,998	BRI-MAR	Dump Body Trailer	58CB1DB2OLC001479					
NEW			REC/PARKS		ROBO PAINTER							49,500				
WUC Operating Asset			WUC	15	EXCAVATOR (and attachments)											
WUC Operating Asset			WUC	15	SKID STEER MACHINE											
C3	101137		WUC	20	20-YEAR SPECIALTY UNIT	2012	03/06/12	$79,819	International	7,500 SBA With Hi-Vac Attach	1HTWNAZB4CJ115205					
C3-A (Mounted on C-3)			WUC	10	Vac-All Body	2012	03/06/12	$163,857	AQUATECH	HI VAC ATTACHMENT	Model B-10		198,600			
C4	9204030963		WUC	20	5 TON DUMP TRUCK	1991	01/02/91	$104,011	Ford	L-8000	1FDYR82A6MVA06368					
PG1	9204031619		WUC	15	GENERATOR	1982	01/02/82	$19,125	ONAN	TRAILER	1013131					
PG2	9204031610		WUC	15	GENERATOR	1991	01/02/91	$20,000	ONAN	TRAILER	16MG1067LD017031					
PG3	101349		WUC	15	GENERATOR (mounted on trailer)	2015	05/15/15	$60,895	CUMMINGS	C100D6R 100KW Portable Generator w/trlr	G140718616					
PP1	9204031626		WUC	15	PUMP	1985	01/02/85	$10,909	GORMAN RUPP	PUMP TRAILER	774243					
PP2	9204031627		WUC	15	PUMP	1990	01/02/90	$12,166	GORMAN RUPP	PUMP TRAILER	968976N					
PP3	101805		WUC	15	UTILITY TRAILER	2018	03/08/19	$68,000	MANSFIELD	UTILITY TRAILER	1M9BU1421JM620572					
PP3 -A (mounted on PP3)			WUC	15	PUMP	2018	03/08/19	$68,000	GORMAN RUPP	PUMP	1682771					
P50	920403594	DNR	WUC	0	Do Not Replace	1980		$10,400	JOHN DEERE	1050 TRACTOR	1D50S003477					

FIFTEEN ROPE FERRY ROAD
WATERFORD, CT 06385-2886

PHONE: 860-442-0553
www.waterfordct.org

January 31, 2024

TO: BOARD OF SELECTMEN

RE: FIVE-YEAR CAPITAL IMPROVEMENT PLAN UPDATE AND RECOMMENDATIONS FY 2025-2029

In FY23, the Town of Waterford closed 45 capital projects that were approved and funded. The town has been focusing on completing past projects currently in FY24 and remains committed to funding necessary projects moving forward. These outstanding approved capital projects, this year's revaluation, the rate of inflation, contractual obligations and unanticipated supply chain costs and increases make it necessary for me to continue a "partial moratorium" on any new capital projects that would require an increase in our tax rate. My capital plan recommendations span three periods:

1) Current Approved Capital Projects
2) FY25 Capital Budget Requests
3) Future Capital Project Requests

1) Current Approved Capital Projects

My goal in FY25 is to continue my commitment of completing and closing past capital projects, approved and funded by taxpayers in previous years, closing 45 capital projects in 2023, expending $6,189,898. Most notably, the LED Streetlight Conversion for $1,047,104, Cohanzie School Remediation for $1,213,677 and the town will continue to complete capital projects that remain in various stages of completion in FY24. The largest of the current approved projects to be completed are School & Town Security upgrades for $2,082,900, School & Town phone upgrades for $581,700, Library HVAC upgrade for $1,091,200, Police & Fire Mobile/Portable Radio Replacement program for $740,165 and Road Paving projects for $2,414,566. A status of current projects funded last year from Unassigned Balance of the General Fund is attached.

2) FY25 Capital Budget Requests

My request for Current Year Capital Improvements ($1,312,527) and Transfer to Capital Non-Recurring ($938,399) as compared with last year and is an increase of 17.36% ($332,955). I am presenting a capital request that includes $1M for Fleet management, $125,000 for Revaluation, $243,335 for BOE Energy Efficiency program and $153,000 for Sewer at Eugene O'Neill Theater, to name a few projects.

Like last year, I have future capital projects to submit that I will request the Board of Finance consider use of the General Fund Balance. These FY25 future capital project requests will focus on:

1) Town Infrastructure - $876,759 for road paving and $1M for the Statewide Radio System Upgrade
2) Board of Education Facilities - $1M for new Tennis Courts
3) Town Buildings - GFB as a funding source for a new town-owned firehouse to replace Oswegatchie Fire Company.

I have considered these priorities in the plan recommendations and have directed Department Heads to apply for all available grants through state and federal agencies. In summary, I continue to focus my attention on balancing capital needs with the town's operating budget.

3) Future Capital Project Requests

Specifically, over the next five years, I will request the Board of Finance consider using $7.5M from the General Fund Balance, as the funding source for 1) Road Paving projects for $3.5M 2) Town Infrastructure Improvements for $3M and 3) Board of Education facility upgrades and repairs for $1M. By requesting the Board of Finance consider and approve $7.5M in capital project spending from GFB, which will leave approximately $15M in the town's General Fund Balance. This proposed five-year capital plan reflects my recommendation for funding or not funding the project(s) as requested and the manner of that financing. I have continued to consult with Department Heads and have "pushed out" projects on the plan and recommendations cover the next five years. I have attempted to balance budget requests and "needs" knowing the town has approximately $22M in reserve funds that residents have already contributed to through prior taxation and an additional $20M already designated for capital projects. The Town's use of the "General Fund Balance" is a decision made by the Board of Finance. I will continue to recommend committing a portion of GFB for new capital projects, as needed. Based on last year's feedback and support funding capital requests outside the capital cycle, I am again recommending the town expend General Fund Balance as approved by the Board of Finance.

The information supporting this plan is contained in a binder, which includes the CIP Guidelines, Capital Improvement Fund balances and all the capital improvement requests, by our departments. In addition, my recommended plan for the 5-year planning period is attached with my comments, along with the summary of the budgets for the Current Capital Improvement line and the Transfer to Capital & Non-Recurring line for the FY 2025 budget. This document and binder constitute my recommendations for the Capital Improvement Plan (CIP) for Fiscal Years 2025-2029. The Town Charter requires the Board of Selectmen to ratify these recommendations.

I anticipate reviewing these recommendations with the Board of Selectmen at the upcoming budget meeting and hope the Board will ratify the plan. Please feel free to contact Kim Allen, Finance Director or myself with any questions you may have and thank you for your continued commitment to the Town of Waterford.

Sincerely,

Robert Brule

Robert J. Brule
First Selectman

1000 HARTFORD TURNPIKE WATERFORD, CT 06385

TO: Mr. Robert J. Brule - First Selectman
FROM: James A. Bartelli – Director of Utilities
DATE: November 15, 2023

RE: Utility Commission – Capital Improvements Plan FY 25-29

Dear First Selectman Brule,

In summary, the major funding requests for FY 25 from CYC and Transfers to CNR are as follows:

- Cross-Country Sewer Mains Access Project.
  Sewer mains collect wastewater from our Town's parcels and convey this wastewater to downstream pumping stations via a vast network of piping and pumping stations to a point terminating at the Main pumping station, which then conveys the wastewater to the regional treatment facility in New London. Of the Town's 150 miles of sewer piping, approximately 15.6 miles lie within cross-country easement areas, outside of roadways. Many of these sewer mains traverse through heavily wooded areas, which are becoming more challenging to access. Accessibility is crucial in order to conduct a full assessment evaluation and to provide timely access to conduct immediate or corrective repairs to the sewer main or structures. The goal of this project is to recreate the original easement access area or create alternate access points.
  Contract #1 was the Town's very first sewer construction project, which began in 1970. This project entailed the installation of approximately 13,000 linier feet of sewer main. A Special Appropriation in the amount of $250,000 for engineering services was appropriated for the Contract #1 Sewer Main Access project in FY 23. Survey work to identify the Contract #1 easement area, manholes, intersecting property lines, and other utilities within the easement area commenced in October of this year and is anticipated to be completed by December. A detailed construction costs estimate will be provided upon completion of the survey's findings. In the absence of a construction costs estimate based upon engineered drawings, our engineering firm estimates construction costs up to $500,000.

  Many of the Town's easement area will require surveys to delineate boundaries, identify wetland soils and engineering services to design access travel surfaces based upon the survey findings. It is the intent of the Utility Commission to establish a multi-year request necessary to fund the survey, engineering and reconstruction of each of the Town's cross-country sewer main easement areas; evaluations to sewer contracts 2 and 3 are proposed.
  $500K/Yr from Current Year Capital

- Plastic Water Service Replacement Program
  There are approximately 7900 water services in Town, many of which are plastic and have exceeded their useful life resulting in unaccounted for water loss and degradation to the Town roads. The goal of this program is to replace the aging plastic water services with copper line prior to DPW paving the roads.
  This past year, through a successful cooperative WUC/DPW effort, we have replaced 122 water service lines, totaling 2,488 linear feet. In FY25 the DPW has identified several roads scheduled to be repaved, within these roads lie approximately 708 water services, of those approximately 360 may need to be replaced. Service line replacement costs are on average $4100 each depending upon the service line length and location.
  It is our intent to continue to replace these water services prior to DPW paving the roads in doing so we are requesting a multi-year funding schedule for the replacement of plastic water services. This will be in conjunction with the DPW roads improvement program. Based upon the aforementioned number of services that may need to be replaced, past actual constructions costs, and less current available funding, the Utility Commission requests $745,000 from Current Year Capital (CYC).

- Route 85 Wastewater Pumping Station Power Conversion.
  The RT 85 Wastewater pump station resides within an easement granted to the Town on the Crystal Mall property. Since the Rt 85 wastewater pumping station was constructed in 1985, the station's electric power and generator power has been provided by the Crystal Mall. This station serves the Crystal Mall as well as other properties along the RT 85 corridor. It is the goal of the Commission to be responsible for the commercial and standby power to this pumping station. To achieve this goal we will have to install our own emergency generator and commercial power service components. This will ensure reliable service from the electrical components that supply this station and proper maintenance of the emergency standby power source. An evaluation was conducted in 2007, which identified two alternatives ranging in costs from $432K to $602K. Utilizing the Engineering News Record's Construction Costs Index inflation factor of 1.67 from 11/2007 to 9/2023, a representative value range is $721,440 to $1,005,340
  $502,670K/Yr from Transfers to Capital & Nonrecurring (CNR)

- Bloomingdale Rd. Water Pressure Improvements.
  The Connecticut Department of Public Health (CT DPH) regulations require water systems to maintain a minimum pressure of 35 psi in their water distribution system and a minimum of 20 psi during a fire flow event. In 2004, the Waterford Utility Commission received complaints of low pressure from residents on Bloomingdale Road, near the Gallows Lane tank. In a subsequent sanitary survey, CT DPH cited a violation for water pressures below 35 psi and 20 psi at services in this area. In 2006, Lenard Engineering, Inc completed a Preliminary Engineering Report evaluating options to improve pressures to existing services on Gallows Lane and Bloomingdale Road as well as future services on the northern portion of Bloomingdale Road which are not connected to the distribution system at this time. The Lenard report proposed alternatives which entailed the installation of lengthy cross-county mains and pumping stations resulting in costs varying

from $2.2M to $5.5 M. The Utility Commission is currently reevaluating the alternatives identified within the previous report in effort to achieve a more costs effective solution. An engineering study is currently ongoing and anticipated to be complete by mid-December; a detailed costs estimate will be available at this time, however preliminary discussions with our engineering firm indicate costs less than the original report due to the consideration of a different design concept. Our request is to initiate a three-year funding schedule for infrastructure improvements associated with the need to increase the water pressure at the Gallows Lane/Bloomingdale Rd area.
$600,000/Yr from Transfers to Capital & Nonrecurring (CNR)

- Facilities Exterior Improvements.
  Continuing our roofing, exterior siding, driveways, and other exterior improvements at various wastewater pumping stations. Through this $100,000 FY 22 and FY 23 funded program roof replacements have occurred at Shore Road, Dock Road, Bolles Ct, Waterford Village, Sea Side, Niantic River Rd and Mago Pt stations and the exterior siding was replaced at the Waterford Village and Bolles Ct stations. This coming year roof replacements are planned for Oil Mill Rd, Oswegatchie Rd, Briarwood Dr. Old Barry Rd, and Richards Grove Rd stations and exterior siding replacements are planned at Sea Side and Mago Point stations.
  $50K from Current Year Capital

- Bartlett Corners Water Booster Station Decommissioning.
  In 2006, the Town constructed water system improvements that enhanced water pressures and fire flows to the Quaker Hill area of Waterford. Included in this project were a new 2500 gpm capacity water booster pumping station near the intersection of Old Colchester and Old Norwich Roads, and a 1.5 million gallon pre-cast, pre-stressed concrete water storage tank constructed on Rogers Hill. From 1977 up to 2006, the Bartlett Corners Hydro-pneumatic Station served a small high service area on a hill in the northeast corner of Waterford consisting of approximately 20 residential customers on Lathrop Road, Lower Bartlett Road, Upper Bartlett Road, Pepperidge Road and South Bartlett Road. Once the new Quaker Hill water system improvements were activated in 2006, the Bartlett Corners Station was inactivated however not fully decommissioned. In 2009 a decommissioning report was prepared which identified costs of $105,000 to properly decommission the station. This project has been identified within previous CIPs. Utilizing the Engineering News Record's Construction Costs Index inflation factor of 1.57 from 11/2009 to 9/2023, the current decommissioning costs estimate is $164,850.00
  $164,850K from Transfers to Capital & Nonrecurring (CNR)

Fleet Plan

In FY 23 the Utility Commission accepted the financial responsibility of fleet equipment to be funded by the Wastewater Enterprise Fund, which is funded by sewer use revenues. This action was made in order to follow the intent of the establishment of enterprise funds, that the costs of all operations, including equipment and vehicles be funded by the ratepayers who are benefitted by the service received and not by the taxpayers who do not receive the service. As stated by the CT DEEP, The sewer user charge system is intended to cover costs for labor, energy, tools, equipment, vehicles, fuel, chemicals and other items directly related to the operations. In prior years, the Wastewater Enterprise Fund has covered all of the aforementioned costs except for fleet vehicles and heavy equipment. *An Enterprise Fund should be designed to make the wastewater utility financially self-sufficient, place the costs of pollution abatement directly on the sources of pollution (in proportion to their contribution), and encourage the conservation of potable water.*

Respectfully Submitted,

James A. Bartelli
Director of Utilities

Cc. Mrs. Kimberly Allen – Finance Director
Utility Commission

TOWN OF WATERFORD
CAPITAL IMPROVEMENT PLAN
PROJECT CONSOLIDATION FORM FY 2025-2029

	DEPARTMENT/ AGENCY:							
DEPT PRIORITY	PROJECT NAME	FUNDING SOURCE	FISCAL YEAR 2024-2025	FISCAL YEAR 2025-2026	FISCAL YEAR 2026-2027	FISCAL YEAR 2027-2028	FISCAL YEAR 2028-2029	TOTAL
1	Cross Country Sewer Main	1	500,000	500,000	400,000	300,000		**1,700,000.00**
2	Plastic Water Service	1	745,000	500,000	500,000	500,000	500,000	**2,745,000.00**
3	RT 85 Wastewater Pump	3	502,670	502,670				**1,005,340.00**
4	Bloomingdale Water Pressure	3	600,000	600,000	600,000			**1,800,000.00**
5	Facilities Exterior	1	50,000	50,000	50,000			**150,000.00**
6	Bartlett Corners Water Booster	3	164,850					**164,850.00**
7	Maintenance Facility Upgrades	1		80,340				**80,340.00**
8	Wiemes Ct & Marylin Rd Ejector	1	19,800	500,000	500,000	500,000		**1,519,800.00**
9	Pleasure Beach Water Mains	3		706,800	706,800	706,800	706,800	**2,827,200.00**
								-
								-
								-
	TOTALS		**2,582,320.00**	**3,439,810.00**	**2,756,800.00**	**2,006,800.00**	**1,206,800.00**	**11,992,530.00**

INDEX TO FUNDING SOURCES,

1 CURRENT YEAR CAPITAL IMPROVEMENTS
2 UTILITY BUDGET/SEWER CAPITAL MAINTENANCE FUND
3 TRANSFER TO CAPITAL & NONRECURRING.
4 SHORT AND LONG TERM DEBT FINANCING
5 LoCIP
6 CNR UNDESIGNATED FUND BALANCE
7 FEDERAL/STATE GRANTS
8 OTHER FUNDING

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Utility Commission	**CONTACT PERSON** James A. Bartelli
PROJECT NAME Cross Country Sewer Main Access	**DEPARTMENT PRIORITY** 1

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	The goal of this project is to obtain readily available access to all cross-country sewer mains. Accessibility is crucial in order to conduct a full assessment evaluation and to provide timely access to conduct immediate or corrective repairs to the sewer main or structures. The goal of this project is to recreate the original easement access area or create alternate access points to all areas that are not within paved roadway areas. Funds were granted for the Contract #1 easement area in 2023, this request is to continue the access program to the remaining cross country easement areas.
2	**PROJECT STATUS IF IN PROGRESS**
	Currently the Contract #1 area is being surveyed to delineate boundaries, manholes, and other utilities within the easement area, upon completion a detailed costs estimate for construction can be determined.
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
	Accessibility will allow pipeline evaluation crew to conduct our sewer system evaluation survey and create the ability to access the pipeline and manholes in the event of an emergency
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
	Minimal impact on operational budget, however, accessibility will allow staff to conduct routine and emergency repairs in a timely manner, in lieu of creating access on a emergency basis which will be far more costly and greatly reduce the potential of adverse environmental impact.
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	See backup material

7 **COST/FUNDING SOURCE**

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital	250,000	500,000	500,000	400,000	300,000	
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**250,000**	**500,000**	**500,000**	**400,000**	**300,000**	**0**

Cross Country Sewer Main Access Project

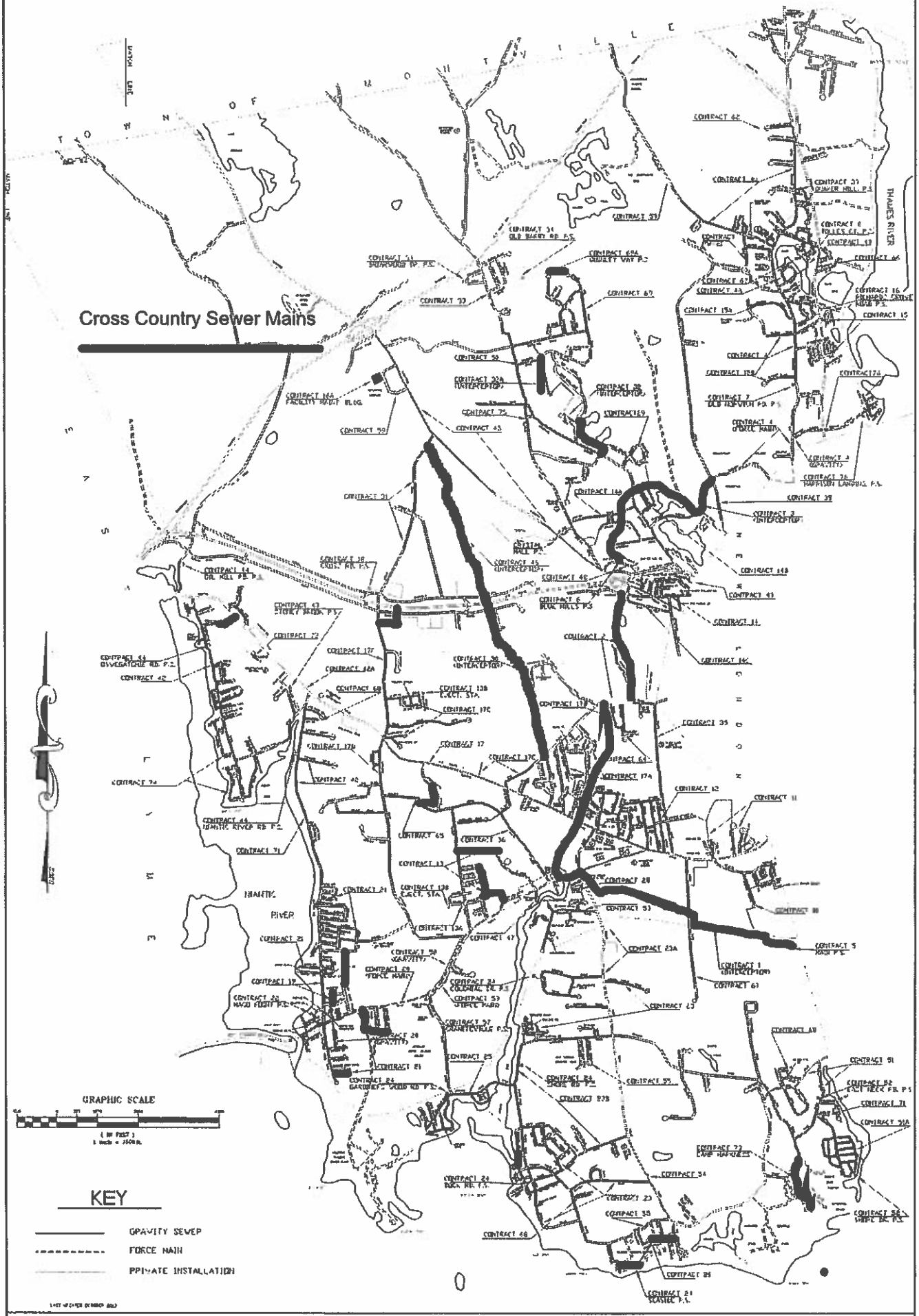
Sewer mains collect wastewater from our Town's parcels and convey this wastewater to downstream pumping stations via a vast network of piping and pumping stations to a point terminating at the Main pumping station, which then conveys the wastewater to the regional treatment facility in New London. Of the Town's 150 miles of sewer piping, approximately 15.6 miles lie within cross-country easement areas, which are outside of roadways. Many of these sewer mains traverse through heavily wooded cross-country easement areas, which are becoming more challenging to access. Accessibility is crucial in order to conduct a full assessment evaluation and to provide timely access to conduct immediate or corrective repairs to the sewer main or structures. The goal of this project is to recreate the original easement access area or create alternate access points.

Contract #1 is the Town's very first sewer construction project, which began in 1970. This project entailed the installation of approximately 13,000 linier feet of sewer main. A Special Appropriation in the amount of $250,000 for engineering services was appropriated for this project in 2023. Survey work to identify the Contract #1 easement area and to delineate wetland soils within the easement area commenced in October of this year and is anticipated to be completed by December. A detailed construction costs estimate will be provided upon completion of the survey's findings. In the absence of a construction costs estimate based upon engineered drawings, our engineering firm estimates construction costs between $300 to $500,000. For the Contract #1 area. Again, this estimate will shored up upon completion of the design drawings.

Many of the Town's easement area will require surveys to delineate boundaries, identify wetland soils and engineering services to design access travel surfaces based upon the survey findings. It is the intent of the Utility Commission to establish a multi-year request necessary to fund the survey, engineering and reconstruction of each of the Town's cross-country sewer main easement areas.

Upon completion of the Contract #1 survey, subsequent design drawings and ultimately construction, our goal is to continue to other major cross-country easement areas, Contract # 2 and 3, which possess many of the same land characteristics as Contract #1. A map depicting all of our cross-country areas is attached.

SEWER DISTRIBUTION SYSTEM



TOWN OF WATERFORD

WATER POLLUTION CONTROL AUTHORITY

LEGEND

- PROPOSED SANITARY SEWER 18" OR SMALLER
- PROPOSED SANITARY SEWER 24" OR LARGER
- PROPOSED MANHOLE
- PROPOSED HOUSE OR BUILDING CONNECTION - 6"
- TEST PIT
- EXISTING HOUSE - LOWER FIGURES INDICATE SILL ELEVATION
- EXISTING SANITARY SEWER
- EXISTING STORM DRAIN
- EXISTING WATER MAIN
- EXISTING UNDERGROUND ELECTRIC
- EXISTING UNDERGROUND TELEPHONE
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF CONCRETE PAVEMENT UNDER BLACKTOP PAVEMENT WHERE SHOWN
- EXISTING GUARDRAIL
- EXISTING FENCE
- EXISTING WALL (STONE ETC.)
- EXISTING GROUND CONTOUR
- PROPERTY LINE
- EXISTING MANHOLES
- EXISTING CATCH BASIN
- EXISTING GATE VALVE ON WATER MAIN
- EXISTING HYDRANT ON WATER MAIN
- EXISTING POLE
- EXISTING TREE
- TRAVERSE POINT ON BASE LINE SURVEY
- DRILL BORING
- GROUND WATER LEVEL AT BORING AT TIME BORING WAS TAKEN
- LEDGE
- HOUSE CONNECTION DEPTH OF SERVICE

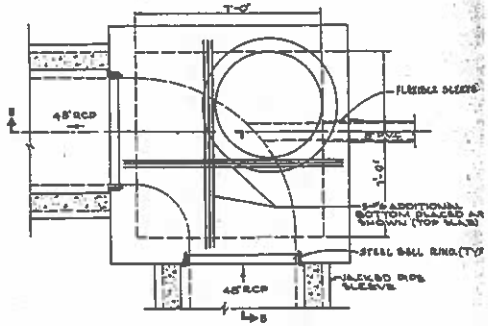
GENERAL NOTES

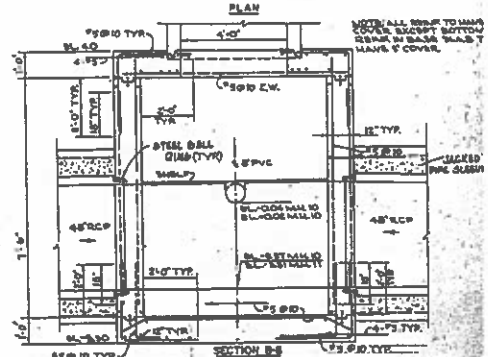
1. ELEVATIONS REFER TO TOWN OF STONINGTON DATUM (U.S.C. & G.S. MEAN SEA LEVEL)
2. LOCATIONS OF HOUSE CONNECTIONS ARE APPROXIMATE. THE FINAL LOCATIONS AND NUMBER OF CONNECTIONS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
3. TRAVERSE POINTS ON SURVEY BASE LINE ARE NAILS DRIVEN INTO WOODEN HUBS SET FLUSH WITH EXISTING GROUND GRADE OR DRILL HOLES IN CONCRETE OR STONE, OR NAILS IN PAVT.
4. THRUST BLOCKS OF CLASS B CONC. SHALL BE PROVIDED FOR ALL FITTINGS AT EXISTING WATER LINES EXPOSED BY TRENCH EXCAVATION. BEARING AREA SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER WITH THE CONCURRENCE OF THE CONT. OWNING UTILITY CO.
5. TEST PITS AT LOCATIONS WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER SHALL BE 6 FEET LONG BY 5 FEET WIDE TO DEPTHS AS REQUIRED.
6. RIM ELEVATIONS OF MANHOLE COVERS ARE TO BE SET FLUSH WITH EXISTING OR FINISHED PAVED SURFACE. RIM ELEVATIONS OF MANHOLE COVERS IN UNPAVED AREAS SHALL BE SET 2 FEET ABOVE EXISTING GROUND SURFACE AS DIRECTED BY THE ENGINEER.
7. FORCE MAIN AND GRAVITY SEWERS SHALL BE FIELD RELOCATED AS NECESSARY TO MEET THE FOLLOWING DISTANCE CRITERIA FROM EXISTING WATER MAINS.
   a. MINIMUM OF 10 FEET HORIZONTALLY OR
   b. CLOSER THAN 10 FEET HORIZONTALLY IF THE DISTANCE OF THE INVERT OF THE WATER MAIN ABOVE THE CROWN OF THE SEWER OR FORCE MAIN IS 18 INCHES OR GREATER
   c. WHERE PERPENDICULAR OR ANGULAR CROSSINGS OCCUR, JOINTS ON EXISTING WATER MAINS AND PROPOSED FORCE MAIN OR SEWERS SHALL BE LOCATED AS FAR FROM EACH OTHER AS POSSIBLE. THE DESIRABLE DISTANCE BEING 10 FEET OR MORE.
8. THE LOCATIONS OF EXISTING WATER MAINS ARE APPROXIMATE, BASED ON THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE LOCATIONS SHOWN ON THE DRAWINGS AND FOR THE PROTECTION OF THE WATER SERVICES DURING CONSTRUCTION. IN THE CASE OF DAMAGE, REPAIRS AND OR REPLACEMENT SHALL BE DONE BY THE CONTROLLING UTILITY CO. AT THE CONTRACTOR'S EXPENSE.
9. BOTTOMLESS FRAMES AND COVERS SHALL BE USED ON ALL MANHOLES WHERE RIM ELEVATION IS 47 OR BELOW ELEVATION 12.50 UNLESS SHOWN ON THE DRAWINGS OR DIRECTED OTHERWISE BY THE ENGINEER.
10. THE CONTRACTOR SHALL FURNISH ALL PROTECTIVE DEVICES AS REQUIRED BY THE UTILITIES COMPANY AT NO ADDITIONAL EXPENSE TO THE CONTRACT.
11. ALL SEWER STUBS TO BE PLUGGED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

MANHOLE COORDINATES

MH. NO.	NORTH	EAST
0	183,961.5	779,348.0
1	183,933.2	779,509.6
6	184,183.4	779,721.4
9	183,985.4	779,931.8
10	184,181.9	779,959.5
11	183,384.1	779,940.1
12	183,369.1	779,350.8
13	183,441.2	779,[illegible].7
14	183,510.9	779,[illegible].8
15	183,[illegible]	779,426.0
16	183,[illegible]	779,[illegible].7
17	183,[illegible]	779,[illegible].4
18	184,[illegible]	779,[illegible].9
20	184,[illegible].7	779,427.8
21	184,626.6	779,[illegible].3
22	184,615.0	779,[illegible].1
23	184,624.6	779,[illegible].3
24	184,[illegible].7	779,[illegible].9
25	184,[illegible].2	779,[illegible].8
26	184,[illegible].1	779,[illegible].0
27	184,[illegible].2	779,[illegible].0
28	184,[illegible].7	779,[illegible].5
29	184,[illegible].1	779,[illegible].0
30	184,[illegible].1	779,[illegible].5
31	184,[illegible].0	779,[illegible].5
32		
33	183,[illegible].5	768,[illegible].6
34	183,[illegible].8	767,[illegible].7
35	183,[illegible].0	767,[illegible].0
36	183,[illegible].2	767,[illegible].8
37	183,[illegible].6	767,[illegible].9
38	183,[illegible].6	767,[illegible].5
39	183,[illegible].6	767,[illegible]
40	183,[illegible].2	768,[illegible].8
41	183,[illegible].8	769,[illegible].7
42	183,[illegible].9	769,[illegible].9
43	183,[illegible].5	769,[illegible].9
44	183,[illegible].5	769,[illegible].9
45	183,[illegible].2	769,[illegible].9
46	183,[illegible].2	769,[illegible].9
47	183,[illegible].2	769,[illegible].9

Plot Plan 1.1
(Addendum N°1)





SPECIAL MANHOLES No.10 & 11

WATER AND SEWER COMMISSION

WATERFORD CONNECTICUT

SEWAGE WORKS CONSTRUCTION PROGRAM

CONTRACT

CENTRAL INTERCEPTOR

KEY PLAN, LEGEND & GENERAL NOTES

HAYDEN & HARDING

KEY PLAN

LEGEND

- PROPOSED SANITARY SEWER 18 INCHES OR SMALLER
- PROPOSED SANITARY SEWER 24 INCHES OR LARGER
- PROPOSED MANHOLE
- PROPOSED HOUSE OR BUILDING CONNECTION - 6 INCHES
- TEST PIT
- EXISTING HOUSE - LOWER FIGURES INDICATE SILL ELEVATION
- EXISTING SANITARY SEWER
- EXISTING STORM DRAIN
- EXISTING WATER MAIN
- EXISTING UNDERGROUND ELECTRIC
- EXISTING UNDERGROUND TELEPHONE
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF CONCRETE PAVEMENT UNDER BLACKTOP PAVEMENT WHERE KNOWN
- EXISTING GUARDRAIL
- EXISTING FENCE
- EXISTING WALL (STONE etc.)
- EXISTING GROUND CONTOUR
- PROPERTY LINE
- EXISTING MANHOLES
- EXISTING CATCH BASIN
- EXISTING GATE VALVE ON WATER MAIN
- EXISTING HYDRANT ON WATER MAIN
- EXISTING POLE
- EXISTING TREE
- TRAVERSE POINT ON BASE LINE SURVEY
- SOIL BORING
- GROUND WATER LEVEL AT BORING AT TIME BORING WAS TAKE

GENERAL NOTES

1. ELEVATIONS REFER TO TOWN OF WATERFORD DATUM (U.S.C. & G.S. MEAN SEA LEVEL)
2. LOCATIONS OF HOUSE CONNECTIONS ARE APPROXIMATE. THE FINAL LOCATIONS AND NUMBER OF CONNECTIONS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER
3. TRAVERSE POINTS ON SURVEY BASE LINE ARE NAILS DRIVEN INTO ROCKS OR SET FLUSH WITH EXISTING GROUND GRADE OR DRILL HOLES IN CONCRETE OR STONE, OR NAILS IN POST.
4. THRUST BLOCKS OF CLASS B CONC. SHALL BE PROVIDED FOR ALL FITTINGS AT EXISTING WATER LINES EXPOSED BY TRENCH EXCAVATION. BEARING AREA SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER WITH THE CONCURRENCE OF THE CONTROLLING UTILITY CO. OR, AS DIRECTED BY HIGHWAY PERMIT. ⚠
5. TEST PITS AT LOCATIONS WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER SHALL BE 6 FEET LONG BY 3 FEET WIDE TO DEPTHS AS REQUIRED.
6. RIM ELEVATIONS OF MANHOLE COVERS ARE TO BE SET FLUSH WITH EXISTING OR FINISHED PAVED SURFACES UNLESS SHOWN OTHERWISE ON THE PLAN OR DIRECTED BY THE ENGINEER.
7. FORCE MAIN AND GRAVITY SEWERS SHALL BE FIELD RELOCATED AS NECESSARY TO MEET THE FOLLOWING CLEARANCE CRITERIA FROM EXISTING WATER MAINS.
   a. MINIMUM OF 10 FEET HORIZONTALLY OR
   b. CLOSER THAN 10 FEET HORIZONTALLY IF THE DISTANCE OF THE INVERT OF THE WATER MAIN ABOVE THE CROWN OF THE SEWER OR FORCE MAIN IS 18 INCHES OR GREATER.
   c. WHERE PERPENDICULAR OR ANGULAR CROSSINGS OCCUR, JOINTS IN EXISTING WATER MAINS AND PROPOSED FORCE MAIN OR SEWERS SHALL BE LOCATED AS FAR FROM EACH OTHER AS POSSIBLE. THE DESIRABLE DISTANCE BEING 10 FEET OR MORE.
8. THE LOCATIONS OF EXISTING WATER MAINS ARE APPROXIMATE, BASED ON THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE LOCATIONS SHOWN ON THE DRAWINGS AND FOR THE PROTECTION OF THE WATER SERVICES DURING CONSTRUCTION, IN THE CASE OF DAMAGE, REPAIRS AND OR REPLACEMENT SHALL BE DONE BY THE CONTROLLING UTILITY CO. AT THE CONTRACTOR'S EXPENSE
9. WATERTIGHT FRAMES AND COVERS SHALL BE USED ON ALL MANHOLES, ENDING RIM ELEVATION 12.80 OR BELOW ELEVATION 12.80 UNLESS SHOWN ON THE DRAWINGS OR DIRECTED OTHERWISE BY THE ENGINEER.
10. THE CONTRACTOR SHALL FURNISH ALL PROTECTIVE DEVICES AS REQUIRED BY THE UTILITIES COMPANY AT NO ADDITIONAL EXPENSE TO THE CONTRACT.

GENERAL NOTES FOR WATER

1. MINIMUM EARTH COVER OVER PIPES SHALL BE 4'6".
2. HYDRANTS TO BE LOCATED AT STREET CORNER OR AT PERPENDICULAR PROPERTY LINE OF ADJACENT PROPERTIES FACING STREET.
3. VALVES AT STREET INTERSECTION TO BE LOCATED AT INTERSECTING POINTS OF PERPENDICULAR STREET LINE EXTENSION WITH WATER MAIN.
4. ALL PAVEMENTS ARE BLACKTOP MACADAM OR BITUMINOUS UNLESS NOTED OTHERWISE.
5. THE LOCATION OF UTILITY MAINS SHOWN ON THESE PLANS IS APPROXIMATE AND HOUSE SERVICE CONNECTIONS ARE NOT SHOWN. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES INVOLVED TO DETERMINE THE EXACT LOCATION OF MAINS AND SERVICES TO PREVENT DAMAGE AND LOSS OF SERVICE DURING CONSTRUCTION.
6. MINIMUM VERTICAL CLEARANCE BETWEEN PROPOSED WATER MAIN AND EXISTING UTILITIES OR EXISTING CULVERTS SHALL BE 6 INCHES UNLESS OTHERWISE NOTED.

MANHOLE COORDINATES

MH NO.	NORTH	EAST
47	187.97 .776	761,677.495
47A	187.93 .640	761,658.937
48	187,946.592	761,786.567
49	187,849.116	761,886.814
50	188,044.715	761,980.442
51	188,236.[illegible]5	762,058.085
52	188,424.737	762,16 .840
53	188,715.300	762,370.816
54	189,023.893	762,590.851
55	189,317.676	762,529.414
56	189,171.[illegible]35	762,615.812
57	190,149.60	762,726.918
58	190,555.[illegible]09	762,76 .389
59	190,942.113	762,67.440
60	191,307.292	762,879.591
61	191,884.726	763,602.416
62	191,[illegible]11.487	763,697.860
63	191,173.729	763,819.787
64A	192,684.932	763,897.044
65A	191,[illegible]78.928	764,178.100
66	191,[illegible]45.940	764,597.226
67	191,300.942	764,819.129
68	192,298.300	764,975.373
69	192,599.730	765,[illegible]73.410
70	192,690.548	765,674.200
71	192,930.129	765,584.929
72	193,[illegible]45.081	765,534.485
73	193,330.[illegible]16	765,385.040
74	193,532.140	765,534.210
75	193,867.131	765,430.[illegible]07
76	194,210.[illegible]96	765,327.634
77	194,427.[illegible]26	765,232.910
78	194,[illegible]33.172	765,226.938
79	194,[illegible]26.651	765,280.822
80	195,[illegible]89.331	765,[illegible]35.361
81	195,[illegible]96.724	765,[illegible]98.150
82	196,[illegible]47.[illegible]00	765,[illegible]58.052
83		
84		
85		
86		
86A	[illegible]"	"
86B		
86C		
86D		
86E		
87A		

*MHN°-84A ⚠

WATER AND SEWER COMMISSION

WATERFORD CONNECTICUT

SEWAGE WORKS CONSTRUCTION PROGRAM

CONTRACT 2 C

MEYERS BROOK INTERCEPTOR SEWER

KEY PLAN, LEGEND & GENERAL NOTES

WATSON & HANNAFIN

Consulting Engineers - Boston, Massachusetts

2-1

KEY PLAN
Scale: 1" = 1600'

LEGEND

- PROPOSED SANITARY SEWER 18 INCHES OR SMALLER
- PROPOSED SANITARY SEWER 24 INCHES OR LARGER
- PROPOSED MANHOLE
- PROPOSED HOUSE OR BUILDING CONNECTION - 6 INCHES
- TEST PIT
- EXISTING HOUSE - LOWER FIGURES INDICATE SILL ELEVATION
- EXISTING SANITARY SEWER
- EXISTING STORM DRAIN
- EXISTING WATER MAIN
- EXISTING UNDERGROUND ELECTRIC
- EXISTING UNDERGROUND TELEPHONE
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF CONCRETE PAVEMENT UNDER BLACKTOP PAVEMENT WHERE SHOWN
- EXISTING GUARDRAIL
- EXISTING FENCE
- EXISTING WALL (STONE etc.)
- EXISTING GROUND CONTOUR
- PROPERTY LINE
- EXISTING MANHOLES
- EXISTING CATCH BASIN
- EXISTING GATE VALVE ON WATER MAIN
- EXISTING HYDRANT ON WATER MAIN
- EXISTING POLE
- EXISTING TREE
- TRAVERSE POINT IN BASE LINE SURVEY
- SOIL BORING
- GROUND WATER LEVEL AT BORING AT TIME BORING WAS TAKEN

GENERAL NOTES

1. ELEVATIONS REFER TO TOWN OF WATERFORD DATUM (U.S.C. & G.S. MEAN SEA LEVEL)
2. LOCATIONS OF HOUSE CONNECTIONS ARE APPROXIMATE. THE FINAL LOCATIONS AND NUMBER OF CONNECTIONS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER
3. TRAVERSE POINTS ON SURVEY BASE LINE ARE NAILS DRIVEN INTO WOODEN HUBS SET FLUSH WITH EXISTING GROUND GRADE OR DRILL HOLES IN CONCRETE OR STONE OR NAILS IN POST.
4. THRUST BLOCKS OF CLASS B CONC., SHALL BE PROVIDED FOR ALL FITTINGS AT EXISTING WATER LINES EXPOSED BY TRENCH EXCAVATION. BEARING AREA SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER WITH THE CONCURRENCE OF THE CONTROLLING UTILITY CO.
5. TEST PITS AT LOCATIONS WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER SHALL BE 8 FEET LONG BY 5 FEET WIDE TO DEPTHS AS REQUIRED.
6. RIM ELEVATIONS OF MANHOLE COVERS ARE TO BE SET FLUSH WITH EXISTING OR FINISHED PAVED SURFACES UNLESS SHOWN OTHERWISE ON THE PLAN OR DIRECTED BY THE ENGINEER.
7. FORCE MAIN AND GRAVITY SEWERS SHALL BE FIELD RELOCATED AS NECESSARY TO MEET THE FOLLOWING DISTANCE CRITERIA FROM EXISTING WATER MAINS:
   a. MINIMUM OF 10 FEET HORIZONTALLY OR
   b. CLOSER THAN 10 FEET HORIZONTALLY IF THE DISTANCE OF THE CROWN OF THE WATER MAIN ABOVE THE CROWN OF THE SEWER OR FORCE MAIN IS 18 INCHES OR GREATER.
   c. WHERE PERPENDICULAR OR ANGULAR CROSSINGS OCCUR, JOINTS ON EXISTING WATER MAINS AND PROPOSED FORCE MAIN OR SEWERS SHALL BE LOCATED AS FAR FROM EACH OTHER AS POSSIBLE. THE DESIRABLE DISTANCE BEING 10 FEET OR MORE.
8. THE LOCATIONS OF EXISTING WATER MAINS ARE APPROXIMATE, BASED ON THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE LOCATIONS SHOWN AND FOR THE PROTECTION OF THE WATER SERVICES DURING CONSTRUCTION. IN THE EVENT OF DAMAGE, REPAIRS AND OR REPLACEMENT SHALL BE DONE BY THE CONTROLLING UTILITY CO. AT THE CONTRACTOR'S EXPENSE
9. INTERSECTION POINTS AND CURVES SHALL BE MARKED BY STAKES. WHERE THE ELEVATION IS AT OR BELOW ELEVATION 12.50 UNLESS SHOWN ON THE DRAWINGS OR DIRECTED OTHERWISE BY THE ENGINEER.
10. THE CONTRACTOR SHALL FURNISH ALL PROTECTIVE DEVICES AS REQUIRED BY THE UTILITIES COMPANY AT NO ADDITIONAL EXPENSE TO THE CONTRACT.

ALL SEWER STUBS SHALL HAVE FACTORY MADE END PLUGS.

MANHOLE COORDINATES			DEFLECTION ∠
MH NO	NORTH	EAST	
91	197963.3000	769071.1000	
92	197249.8382	769040.4809	5°-45'-32.8"
93	197531.5881	768994.1234	90°-30'-36.7"
94	197533.0436	769062.1339	89°-18'-19.8"
95	197727.0445	769018.2106	63°-48'-46.2"
96	197950.4981	768982.1172	63°-51'-04.0"
97	198206.4444	768971.9903	34°-06'-48.0"
98	198474.1457	768901.6615	45°-27'-52.7"
99	198589.2780	768861.2347	20°-37'-02.1"
100	198769.0800	768879.8040	39°-42'-46.0"
101	198941.0240	768944.1470	29°-06'-55.7"
102	199242.5010	769068.8442	15°-35'-54.1"
103	199630.9930	769448.1970	48°-54'-27.9"
104	199657.1318	769514.2206	44°-06'-36.8"
105	199693.9187	769771.6806	81°-20'-38.0"
106	199661.8749	769793.3381	89°-39'-39.5"
107	199697.6749	770091.3827	0°-58'-08.5"
108	199849.1817	770600.4929	43°-58'-43.1"
109	199686.2407	770670.1468	21°-09'-24.6"
110	199608.8415	770761.9412	39°-51'-30.2"
111	199300.1099	770962.6419	89°-48'-22.2"
112	199288.0190	771223.8342	25°-30'-38.1"
113	199116.1145	771258.7434	31°-29'-29.1"
114	198886.1000	771460.6752	19°-31'-21.6"
115	198568.0960	771515.8214	71°-46'-29.6"
116	198423.8120	771648.8141	71°-36'-21.2"
117	198410.8680	771784.7493	41°-23'-11.7"
118	198748.6024	771804.8986	76°-19'-38.5"
119	198979.1900	771821.8170	41°-22'-54.5"
119A	199067.3290	771873.3420	14°-47'-44.5"
120	199112.9270	771944.2570	88°-01'-02.9"
121	199313.2150	772595.5980	1°-18'-45.7"
122	199529.5000	772782.2500	6°-05'-09.1"
122A	199717.8629	772823.2971	90°-18'-03.4"
123	199749.9518	772913.9429	7°-00'-00.0"
124	199781.8299	772796.8396	104°-36'-00.7"
125	199923.5000	772705.0000	81°-39'-54.5"
126	200068.7490	772900.7170	

WATER AND SEWER COMMISSION
WATERFORD CONNECTICUT
SEWAGE WORKS CONSTRUCTION PROGRAM
CONTRACT 3
QUAKER HILL INTERCEPTOR

KEY PLAN LEGEND & GENERAL NOTES

HAYDEN & HARDING
Consulting Engineers - Boston, Massachusetts 0213

MAP	P.A.J.	SCALE	DRAWING
DESIGN	A.F.H.	AS NOTED	3-0
CHECKED	R.A.H.	DATE	
APPROVED	M.K.C.	MAY 1972	69139.3

No.	Revision	Date

Exhibit A to Master Services Agreement
Between Town of Waterford, CT and Wright-Pierce
For On-Call Civil Engineering and Surveyor Services
-Template for Task Authorizations-

Town of Waterford ("Owner") entered into a Master Services Agreement with Wright-Pierce ("Consultant" or "W-P") with an effective date of **May 10, 2023**. In accordance with that Master Services Agreement, the following Task Authorization is hereby approved and Consultant is authorized by Owner to proceed with the services as delineated below. This is Consultant's Task Authorization **No. 2** .

Effective Date of this Task Authorization:

W-P Project Name: *Preliminary Design Services for Contract 1 Interceptor Easement Restoration*

W-P Project Number: *21580*

W-P Project Manager: *Therlin Montgomery*

Owner's Project Manager: *Jim Bartelli*

Fee Limit for this Task Authorization, if any: $75,200.00

Payment Method: *[e.g., Time & Expense per hourly billing rates; lump sump] Time and Expense*

Consultant's Scope of Services: *Preliminary Design Services*

Approved for Owner By: _____

[insert signature and date of signature]

Type Name and Title of Owner's Approver: *James Bartelli, Director of Utilities*

Approved for W-P By: _____

[insert signature and date of signature]

Type Name and Title of W-P Approver: *Christopher N. Pierce, Vice President*

Purchase Order

Fiscal Year 2024 Page: 1 of: 1

THIS NUMBER MUST APPEAR ON ALL INVOICES, PACKAGES AND SHIPPING PAPERS.

Purchase Order # 240273

Terms and Conditions under which this order is issued can be found on the town's website at: www.waterfordct.org

BILL TO
TOWN OF WATERFORD
ATTN: UTILITY COMM
15 ROPE FERRY RD
WATERFORD, CT 06385

VENDOR
WRIGHT-PIERCE CORPORATION
DEPT 2100
PO BOX 986500
BOSTON, MA 02298-6500

SHIP TO
TOWN OF WATERFORD
ATTN: UTILITY COMM
1000 HARTFORD RD
WATERFORD, CT 06385

Vendor Phone Number	Requisition Number	Delivery Reference
	240351	

Date Ordered	Vendor Number	Freight Method/Terms	Department/Location
08/17/2023	535		UTILITY COMMISSION

Item#	Description/PartNo	QTY	UOM	Unit Price	Extended Price
1	Engineering Design Services fo Engineering Design Services for Contract 1 Interceptor Easement Restoration Project	1.0	EACH	$75,200.00	$75,200.00

By: _____
Purchasing Agent

VENDOR COPY

Total Ext. Price	$75,200.00
PO Total	**$75,200.00**

Vendors: The Seller hereby acknowledges and accepts the Town of Waterford's Purchase Order Terms and Conditions ("T&C") bearing an effective date of September 2016 as on file with the Purchasing Agent of the Town of Waterford and as posted on the Town of Waterford's official website www.waterfordct.org under purchasing documents. Such T&C are hereby incorporated by reference in this Purchase Order as if expressly set forth herein. The Seller further acknowledges and represents that it has read the T&C in its entirety and accepts the same without exception except as may be expressly set forth in this Purchase Order.

WRIGHT-PIERCE
Engineering a Better Environment

169 Main Street, 700 Plaza Middlesex
Middletown, CT 06457
860.343.8297 | www.wright-pierce.com

August 7, 2023

Mr. Jim Bartelli
Director of Utilities
Town of Waterford
1000 Hartford Turnpike
Waterford, CT 06385

SUBJECT: Proposal for Engineering Design Services
Contract 1 Interceptor Easement Restoration Project

Dear Mr. Bartelli,

As requested, this is our proposal to perform engineering services for preliminary design and permitting assistance for the Contract 1 Interceptor Restoration Project in Waterford, Connecticut.

The Waterford Utility Commission (WUC) is planning to regain access through the cross-country easement for the "Contract 1" sewer interceptor that feeds into the Evergreen Pump Station. The Contract 1 interceptor was constructed in 1972 and includes approximately 2.3 miles of 42" and 48" RCP sewer pipe. Over time, manholes and sections of the interceptor have become difficult to access due, in part, to plant overgrowth and increased ponding of the surrounding area. The WUC desires to re-create permanent access through the sewer easement so they may conduct routine inspection and maintenance, perform rehabilitation of the sewer, and ensure immediate access for unscheduled repairs or emergencies. Access would be provided by clearing plant and tree overgrowth and providing gravel access roads where needed.

Based upon the above project description, WUC has requested that Wright-Pierce submit a proposed scope of work and fee to provide design engineering services for the above referenced project. We have developed the following scope of services for consideration:

<u>Preliminary Design Phase</u>

1. **Collect and Review Background Information:** Review existing record drawings, property boundary and easement mapping, existing tax map and property owner contact information to be provided by the WUC.
2. **Public Outreach:** Provide letter to be used by WUC to notify property owners (within or directly adjacent to the clearing area) of pending design phase activities which may include site walks and survey. Wright-Pierce will provide the notification letters in Microsoft Word format for town to place on Town of Waterford letterhead. WUC will be responsible for mailing the notification letter to the property owners.

3. **Wetlands Delineation:** Wetlands delineation and flagging is not included in the preliminary design. It is assumed that the majority of easement clearing and restoration work will be occurring within wetlands. The need for wetlands delineation will be revisited at the completion of the preliminary design phase.
4. **Easement and Property Survey:** Class A-2 boundary survey for identification of the sewer easement, property boundaries that intersect the sewer easement, top of manholes, and other utilities. For this task, we have included an allowance of $29,000 for the services of a survey subconsultant. Please note that the survey fee allowance would be reduced to $24,000 if survey work can be performed later in the fall of 2023 when the leaves have fallen. A copy of the survey (stamped by CT licensed land surveyor) will be provided to the WUC as a deliverable.
5. **Regulatory & Permitting Assistance:** Project notification and coordination with the Waterford Inland Wetlands Department. It is understood that the work proposed as part of this project is permitted under the existing Inland Wetlands Permit #23-03 (General Permit for Sewer Inspection and Maintenance. We have included a budget for one Pre-Application Meeting with CT DEEP to review the project scope of work and identify additional permits or regulations that may apply. We have budgeted 16 hours for this task item and have included an allowance of $1,500 for subconsultant assistance with identifying permits that may be triggered at the State or Federal level. Assistance with permit applications will be included in the final design phase as part of a future proposal.
6. **Railroad coordination:** Project notification and coordination with Amtrak for design and construction activities that will occur within or adjacent to the railroad property. We have included a budget for two meetings with Amtrak to review the project scope of work and identify Amtrak requirements for survey work within the area and requirements for the sewer easement clearing work. We have budgeted 8 hours for this task item.
7. **Preliminary Design Report:** Provide a report summarizing the existing information, regulatory/permitting needs, survey, and proposed extent of clearing. Additionally, the report will identify existing structures that may need to be removed or relocated from the existing easement, and identify additional easements such as temporary construction or permanent easements needed. The Report will include annotated preliminary drawings identifying the extent of clearing within the sewer easement along with topography and aerial imagery obtained from available online sources.
8. **Design Meeting:** Conduct an onsite meeting with WUC to review the Preliminary Design Report and discuss scope of work for the final design phase. Points of discussion to include: key manholes for cleaning and CCTV access, construction of temporary access roads, construction of permanent access roads (where possible), additional new easements or expanding existing easements, areas that have been (or will be) cleared by Waterford, areas within the easement that are difficult to access (wetlands, obstacles in the way) and any additional survey or permitting that may be required. Prepare and distribute meeting minutes.

<u>Final Design Phase</u>

The information obtained during the preliminary design phase will be used to develop a Final Design scope of services. The Final Design scope of services, including additional services such as bidding assistance, can be provided in a separate future proposal.

Proposed Fee

Wright-Pierce proposes to complete the above scope of work on a time-charge basis with a not to exceed fee of $75,200. A copy of our estimated engineering fee and associated man-hours to complete the work is also enclosed for your review. If survey work can be performed after the leaves have fallen, then the survey allowance can be reduced by $5,000 and the total not to exceed fee would be reduced to $70,200.

If the proposed scope and fee are acceptable, we can prepare a Task Order under our on-call agreement. We are prepared to begin this work immediately upon WUC authorization.

Should you have any questions or desire additional information, please call.

Sincerely,

WRIGHT-PIERCE

Therlin Montgomery
Project Manager
Therlin.Montgomery@wright-pierce.com

ESTIMATED STAFF EFFORT (HOURS) AND COSTS
Town of Waterford
Contract 1 Interceptor Clearing Preliminary Design

	TASK DESCRIPTIONS	Principal In Charge	Project Manager	QA/QC Manager	Lead Project Engineer	Civil Engineer	CAD Process and Civil	Admin. Assistant	TOTAL HOURS	NON-LABOR	SUBS COST	SUBS Mark-Up	LABOR	TOTAL
1	**Preliminary Design**													
a	Kickoff/Setup project/workplan	1	8	1	8		0		18	$0	$0	$0	$3,320	$3,320
b	Collect info		2		4		2		8	$0	$0	$0	$1,279	$1,279
c	Public Outreach				4			2	6	$100	$0	$0	$863	$963
d	Survey Subconsultant (inc. initial site walk)		2		11	0	2		15	$0	$29,000	$1,450	$2,403	$32,853
e	Permitting (Pre-Application, identify permits only)				16				16	$0	$1,500	$75	$2,570	$4,145
f	Amtrak RR coordination				8				8	$0	$0	$0	$1,285	$1,285
g	Drawings (12000 feet sewer- 15 sheets)		6	2	16	2	150	4	180	$0	$0	$0	$22,510	$22,510
h	Assemble info + PDR Memo with cost estimate		8	4	16	2		4	32	$200	$0	$0	$5,431	$5,631
i	Workshop and Minutes		8	0	10	0	0	0	18	$0	$0	$0	$3,219	$3,219
	Subtotals	1	32	7	93	4	154	10	301	$300	$30,500	$1,525	$42,881	$75,206

From: Therlin Montgomery
To: Jim Bartelli; Jill Stevens
Subject: Planning costs for Contract One Restoration Project- Design and Construction
Date: Monday, November 13, 2023 12:12:46 PM

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

Hi Jim, I think we should include final design and construction cost in 2024. Based on our discussion you were looking for rough budgets. For final design, we were planning on using the preliminary drawings and survey to discuss and come up with scope for what would be include for final design and construction. The extent of gravel roads is not known at this time and whether some wetlands delineation or soil borings (for roadway support) would be required. However, you might want to factor in $80,000 for final design and then $300,000-500,000 for construction with lower cost just for clearing and grubbing and higher costs to include some gravel access roads. This is rough estimates only but let me know if you have any questions. Thanks

Therlin Montgomery
Wright-Pierce | Project Manager
direct 860.852.1903 | **cell** 860.604.0034

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Utility Commission	**CONTACT PERSON** James A. Bartelli Director
PROJECT NAME Plastic Water Service Replacement Project	**DEPARTMENT PRIORITY** 2

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	The goal of this project is to replace all of the plastic water services prior to DPW paving the roads.There are approximately 7900 water services in Town, many of which are plastic and have exceeded their useful life resulting in unaccounted for water loss and degradation to the Town roads. Within the DPW FY25 list of roads scheduled to be paved there are approximately 708 water services and 360 of those require evaluation, once determined the services are plastic the Utility Commission will replace them with copper service line. A majority of this work is being conducted by Utility Commission staff.
2	**PROJECT STATUS IF IN PROGRESS**
	To date we have replaced 122 service lines totaling 2,488 LF of plastic water piping replaced with copper.
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
	DPW Roads Paving Project
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	An average costs to replace theese lines average between $4,100 depending upon length and location
7	**COST/FUNDING SOURCE**

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital		745,000	500,000	500,000	500,000	500,000
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR	731,000					
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**731,000**	**745,000**	**500,000**	**500,000**	**500,000**	**500,000**

City of New London

Invoice for Waterford Pipe Replacement Program

					Assumptions	$ 2,850.00	15	$ 183.33	$ 2.58		
Address	Number	Result	Length (ft)	Material	Date	Base Fee	Length over Base	Cost over Base	Copper up charge	Total Charge	
121	Shore Rd	Replaced WTFD	10	3/4 Copper						$ -	
130	Shore Rd	Replaced Veolia	20	1" Copper	6/20/2023	$ 2,850.00	5	$ 916.65	51.6	$ 3,818.25	WUC provided tubing
132A	Shore Rd	Replaced Veolia	21	3/4'Copper	6/20/2023	$ 2,850.00	6	$ 1,099.98		$ 3,949.98	
132	Shore Rd	Replaced Veolia	32	3/4 Copper	6/19/2023	$ 2,850.00	17	$ 3,116.61		$ 5,966.61	
161	Shore Rd	Confirmed Existing Copper								$ -	
165	Shore Rd	Confirmed Existing Copper								$ -	
169	Shore Rd	Replaced Veolia	24	3/4 Copper	6/16/2023	$ 2,850.00	9	$ 1,649.97		$ 4,499.97	
173	Shore Rd	Cut off at tap	32				17	$ 3,116.61		$ 3,116.61	
179	Shore Rd	Replaced Veolia	32	3/4 Copper	6/14/2023	$ 2,850.00	17	$ 3,116.61		$ 5,966.61	
181	Shore Rd	Replaced WTFD								$ -	
184	Shore Rd	Confirmed Existing Copper								$ -	
191	Shore Rd	Confirmed Existing Copper								$ -	
193	Shore Rd	Confirmed Existing Copper								$ -	
194	Shore Rd	Confirmed Existing Copper								$ -	
195	Shore Rd	Confirmed Existing Copper								$ -	
196	Shore Rd	Confirmed Existing Copper								$ -	
198	Shore Rd	Replaced Veolia	22	3/4 Copper	6/6/2023	$ 2,850.00	7	$ 1,283.31		$ 4,133.31	
200	Shore Rd	Replaced Veolia	20	3/4 Copper	6/12/2023	$ 2,850.00	5	$ 916.65		$ 3,766.65	
200 F	Shore Rd	Replaced Veolia	18	3/4 Copper	6/13/2023	$ 2,850.00	3	$ 549.99		$ 3,399.99	
201	Shore Rd	Replaced Veolia	19	1" Copper		$ 2,850.00	4	$ 733.32	49.02	$ 3,632.34	
204 R	Shore Rd	Confirmed Existing Copper								$ -	
205	Shore Rd	Replaced Veolia	23	3/4 Copper	6/8/2023	$ 2,850.00	8	$ 1,466.64		$ 4,316.64	
206	Shore Rd	Confirmed Existing Copper								$ -	
208	Shore Rd	Replaced WTFD								$ -	
209	Shore Rd	Replaced Veolia	30	3/4 Copper	6/9/2023	$ 2,850.00	15	$ 2,749.95		$ 5,599.95	
211	Shore Rd	Replaced Veolia	35	1" Copper	6/12/2023	$ 2,850.00	20	$ 3,666.60	90.3	$ 6,606.90	
212	Shore Rd	Replaced Veolia	15	3/4 Copper	6/5/2023	$ 2,850.00	0			$ 2,850.00	
212 R	Shore Rd	Cut off at tap								$ -	
213	Shore Rd	Replaced Veolia	27	3/4 Copper	6/1/23 ?	$ 2,850.00	12	$ 2,199.96		$ 5,049.96	
214	Shore Rd	Replaced WTFD								$ -	
218	Shore Rd	Replaced WTFD								$ -	
219	Shore Rd	Replaced Veolia	20	3/4 Copper	5/31/2023	$ 2,850.00	5	$ 916.65		$ 3,766.65	
220	Shore Rd	Replaced WTFD								$ -	
222	Shore Rd	Replaced WTFD								$ -	
224	Shore Rd	Replaced Veolia	18	3/4 Copper	5/23/2023	$ 2,850.00	3	$ 549.99		$ 3,399.99	
226	Shore Rd	Replaced Veolia	17	3/4 Copper	5/22/2023	$ 2,850.00	2	$ 366.66		$ 3,216.66	
228	Shore Rd	Replaced Veolia	30	3/4 Copper	5/24/2023	$ 2,850.00	15	$ 2,749.95		$ 5,599.95	
229	Shore Rd	Replaced WTFD								$ -	
230	Shore Rd	Replaced WTFD								$ -	
233	Shore Rd	Replaced Veolia	22	3/4 Copper	5/25/2023	$ 2,850.00	7	$ 1,283.31		$ 4,133.31	
234	Shore Rd	Replaced WTFD									
239	Shore Rd	Replaced WTFD									
		Services Replaced	21					Total		$ 86,790.33	

Cost/ Service	$ 4,132.87
Days	18
Service / Day	1.2

TOWN OF WATERFORD
MEMORANDUM

PUBLIC WORKS
DEPARTMENT

To: File

From: Gary J Schneider

Date: November 13, 2023

Re: Paving Program

The Town needs to balance available funding to save our relatively good collector roads with the need to address years of delayed work of resurfacing roads in our neighborhoods. This balance also needs to address the base rehabilitation (reclaiming and milling the road) roads that account for 57% of the backlog with those roads that require just routine, preventative maintenance (patching and crack sealing).

Funding for our road program is programmed from two sources. The operations budget using TAR funding from the State will be used for routine maintenance and minor local repairs such as crack sealing and pothole repairs. Programed for CIP and CNR funding are the thin overlay, full width milling and overlay; and reclaiming and overlay methods.

To guide us, a pavement management update was completed for the entire network. This formal evaluation provided a systematic, consistent approach to the evaluation of the present condition of the road surface. It is used to prioritize the repairs. It is not intended to replace sound engineering judgment, which should dictate specific needs for an individual project.

The Departments previous approach has been to address local roads that carry a good volume of traffic. Classified as major and minor collector streets, most have been addressed over the last 10 years. Our effort will move more into the neighborhoods, where multiple roads will be addressed requiring a variety of methods.

Starting with the older neighborhoods is challenging because they have a mix of road widths, multiple types of curbing, asphalt sidewalks that abut the asphalt curbing, driveway aprons constructed of concrete, asphalt and stone, drainage structures and sewer manholes. These roads take longer to complete a project than that a long collector road.

All roads identified in this project fall under the definition of needing structural improvement or rehabilitation. This is defined as milling the top two inches of old

asphalt from the surface and replacing with new asphalt or full depth reclamation, where the asphalt is ground up and mixed with the base to establish a new base and then resurfaced with three inches of new asphalt.

The Department is working with Utilities to ensure the water services have been addressed before resurfacing.

Due to the need to complete all the roads that were affected by Eversource installing the natural gas mains, the Department is reducing the request for roads that are totaling funded by local funds for FY 25.

Proposed Connector Roads

- FY 25 Old Colchester Road (Dogwood to Old Norwich Road)
- FY 26 Goshen
    - Spinnaker, Country Club
- FY 27 Cross Road
    - Melanie Drive
    - Marilyn
    - Beverly
    - Rock Ridge Road
- FY 28 Quarry Road
    - Leary Drive
- FY 29 (To be determined)

Proposed Neighborhood Roads (Roads to be resurfaced are only for those roads on the west side of Route 32)

- FY 25:
    - Mago Point Way, Ave B, First Street, Second Street
    - From the intersection of Old Colchester South
        - College, Totoket
    - From the intersection of Old Colchester North
        - Cinderella Lane, Rosemary Lane, Northwood Road, Scotch Cap Road, Sunshine Road, Caroline Court
- FY 26:
    - David Street/Wild Rose Place and Avenue, Avenue A, Summer Street, William Street
    - East Wharf Road, Croyden Court, East Street, High Ridge Drive, Marlin Drive, Albacore Drive,
    - First/Second Ave/ Middle Street from Daniels to First Ave.
    - Third Ave. /Middle Street from Daniels to Fourth Ave
    - Pine Street, Strosberg Road, Hamast Ave, Woodland Road
- FY 27:
    - Gunshot Road, Race Rock Road, Lanyard Lane, Windward Way, Millstone Road East

- Alice Street, Linda Ave, Oak Road, Lee Road, Betty Street
- Longview Street, Sunset Street, Soundview Drive, Butler Ct
- Marguy Street, Maple Road, Red Cedar Ave, Comstock Ave, Pepperridge Drive, South Bartlett Road, Bartlett Place, Burlake Road, Roxwood Road, Hempstead Drive, Rosemary Lane

- FY 28: (Reserved for Contract 10 roads)
- FY 29:
  - Stone Street, Fulmore Drive, Paula Lane, Ina Blvd, Doyle Road, Pamela Way, Manatuck Drive

TOWN OF WATERFORD
DEPARTMENT OF PUBLIC WORKS
MEMORANDUM

To: File

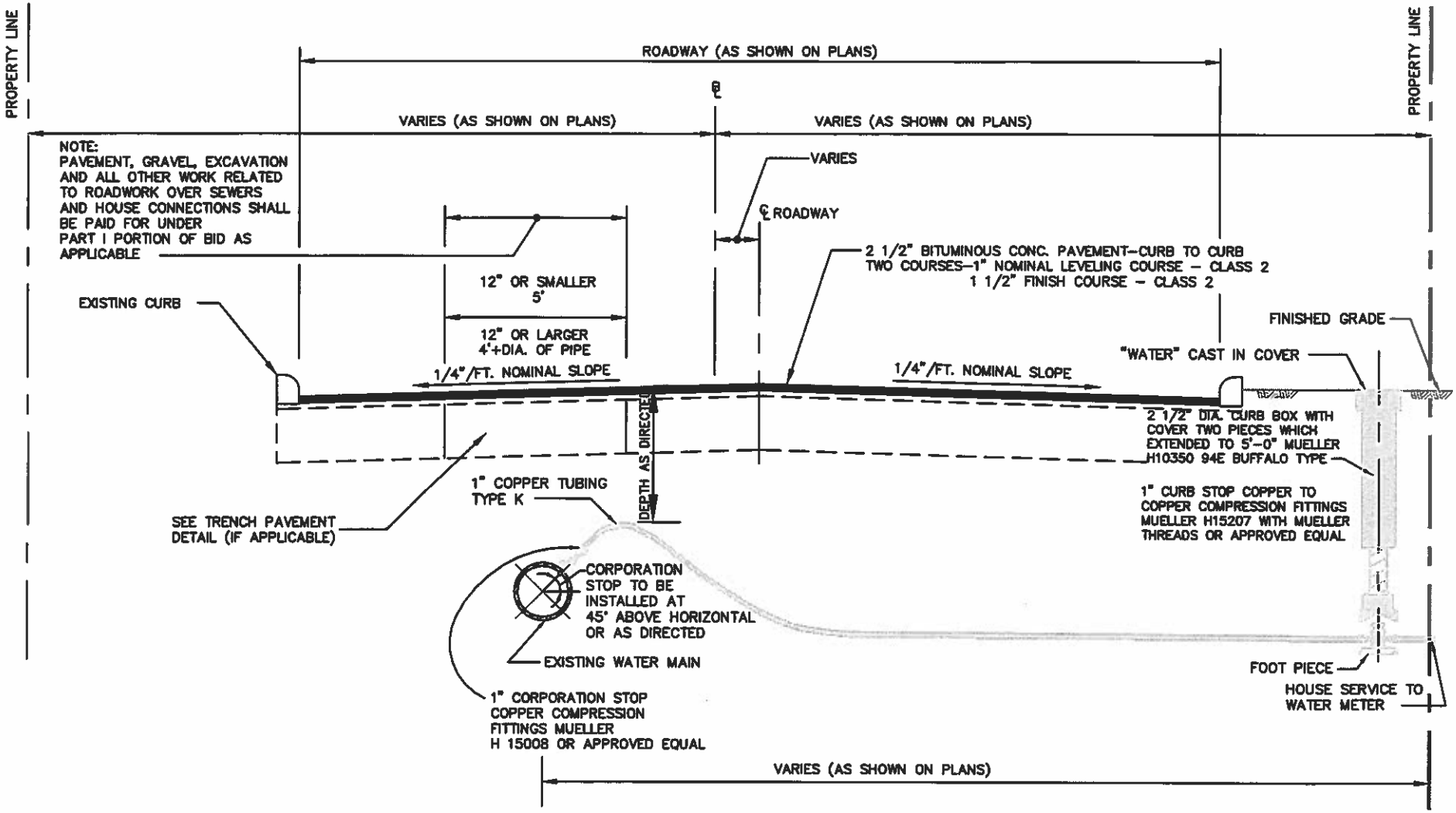
From: Gary J Schneider

Date: November 13, 2023

Re: CIP: Eversource Affected Roads

Proposed (Roads to be resurfaced are only for those roads on the west side of Route 32)

- FY 25
  - Pennicott Road
  - Tanglewylde
  - Senkow, Roberts Court, Fitzgerald, James, John, Thomas, May, Uncas Court, Uncas, Porter, Miller, Cove View, Ladley, Wintergreen
  - Dayton Road, Roseleah, Soljer
  - Laurel Glen Road, Hardwick Road, Clark Place, Broadview Court, Decab Lane, Bolles Court



WATER SERVICE CONNECTION DETAIL IN TYPICAL ROADWAY CROSS SECTION

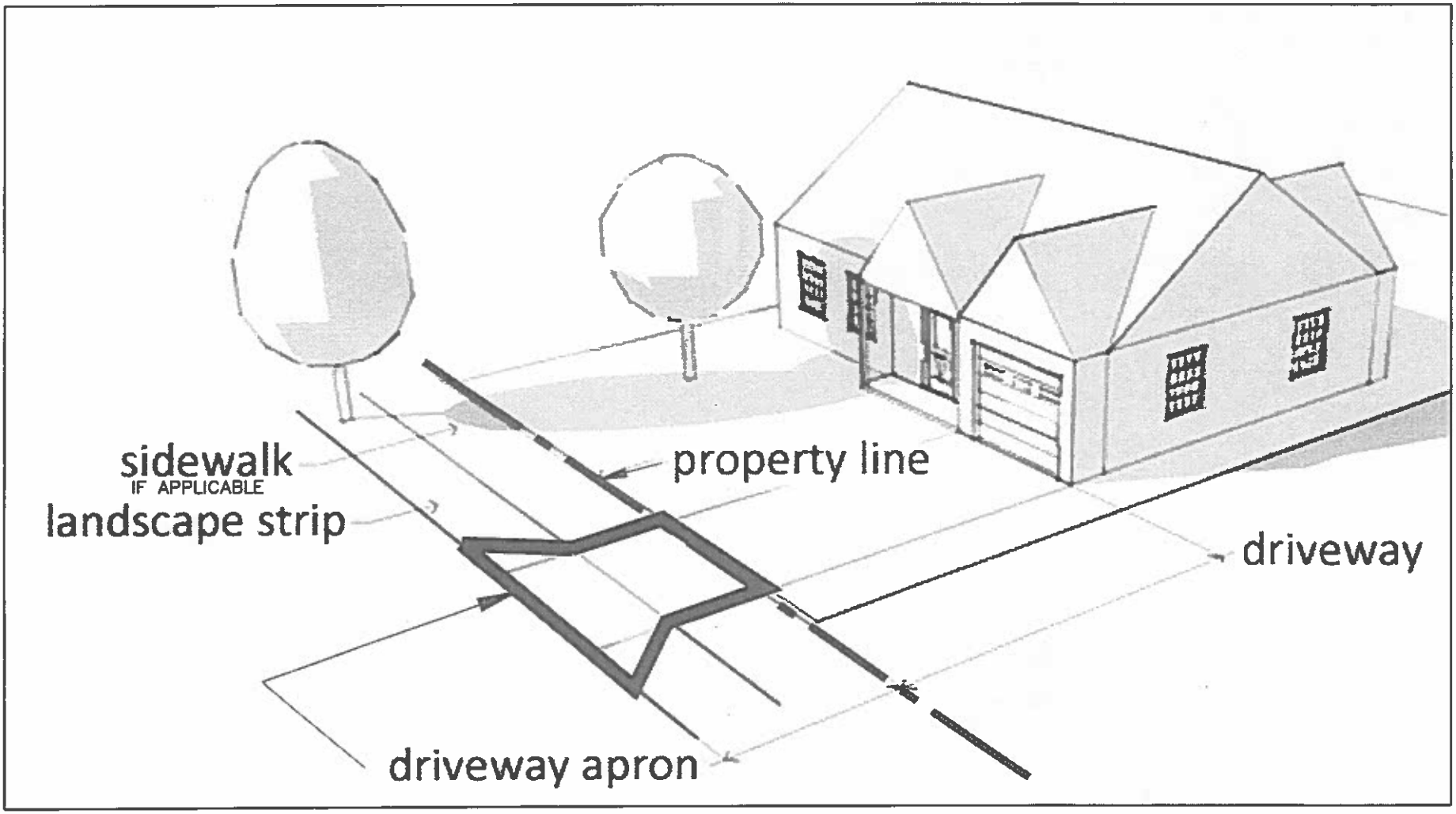
NOT TO SCALE

WATERFORD UTILITY COMMISSION

TOWN OF WATERFORD, CT

DETAIL:

DATE:
MAR 2023

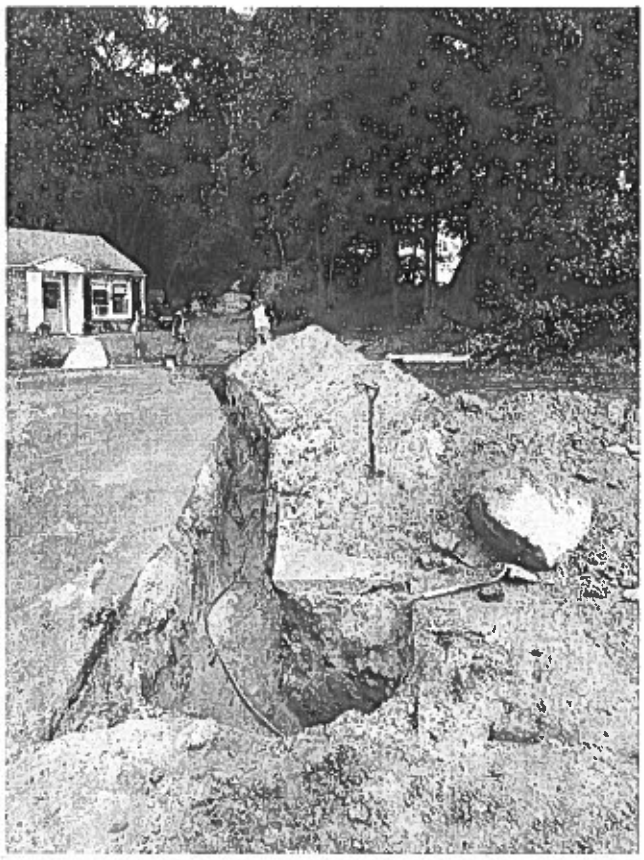


TYPICAL DRIVEWAY APRON SCHEMATIC

NOT TO SCALE

WATERFORD UTILITY COMMISSION TOWN OF WATERFORD, CT	WATERFORD UTILITY COMMISSION	DETAIL: DATE: JI 2023

1 Plastic Water Service prior to replacement



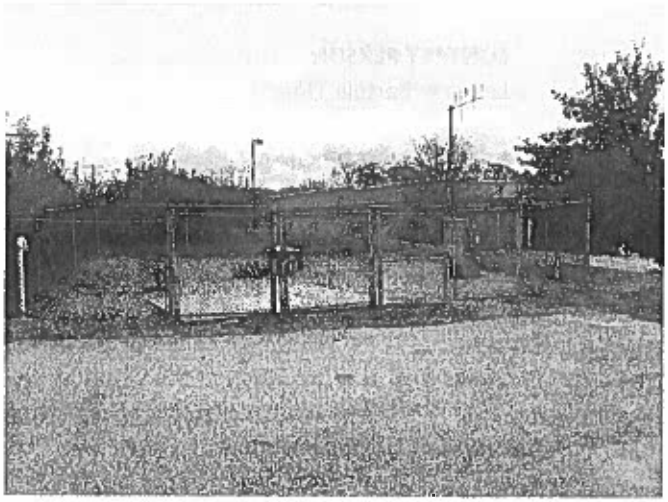
2 Plastic Water Service Replaced with Copper Line

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

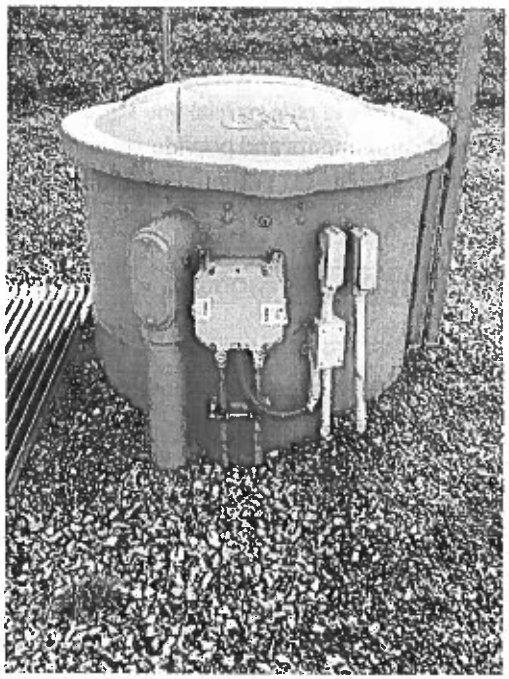
DEPARTMENT/AGENCY Utility Commission	**CONTACT PERSON** James A. Bartelli Director
PROJECT NAME Rt 85 Wastewater Pump Station Power Conversion	**DEPARTMENT PRIORITY** 3

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	This station's electric power and stand by power is provided by the Crystal Mall. It is the intent of the Commission to be responsible for the commercial and standby power to this pumping station in order to assure reliable service from the electrical components and provide proper maintenance of the emergency standby power source and have the electrical capacity to provide for potential upgrades.
2	**PROJECT STATUS IF IN PROGRESS**
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
	The Wastewater Enterprise fund would be impacted by acquiring the electric charges and maintenance of a new generator
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	A previous costs evaluation is attached. The estimated costs represented was derived from utilizing the Construction Costs Index
7	**COST/FUNDING SOURCE**

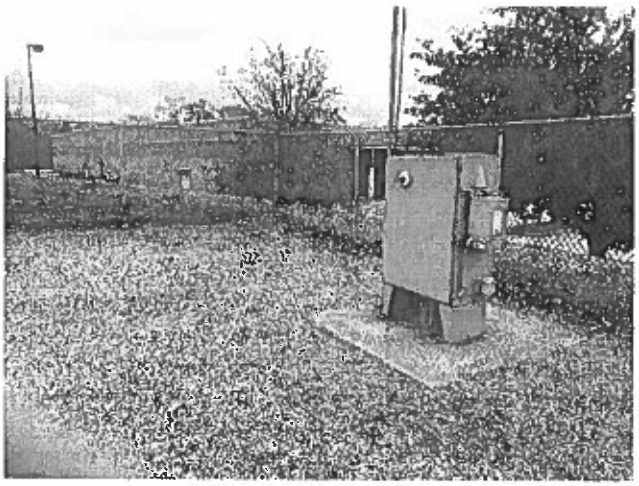
	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR		502,670	502,670			
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**0**	**502,670**	**502,670**	**0**	**0**	**0**



Route 85 Wastewater Pump Station



Route 85 Wastewater Pumping Station Manway



Route 85 Wastewater Pump Station power supply cabinet from Crystal Mall to the Station

Wright-Pierce **MEMORANDUM**

TO:	Neftali Soto, P.E., Jim Bartelli Waterford Utility Commission	**DATE:**	November 12, 2007
FROM:	Chris Pierce	**PROJECT No.:**	10232Q
SUBJECT:	Crystal Mall Pump Station Improvements		

At the request of the Waterford Utility Commission, Wright-Pierce developed a preliminary project cost for improvements to the Crystal Mall Pump Station. Based on information provided by WUC staff, a proposed mall to be constructed along Route 85 would like to discharge to the Crystal Mall pump station. While the existing pump station has sufficient pumping capacity to handle the additional flow, another of other pump station operation and maintenance issues have been identified. These issues will be aggrevated by the additional flows from the proposed mall. The issues identified by the WUC staff include:

- The existing station receives normal power from the Crystal Mall. No separate service or meter is provided at the pump station.
- The existing station receives emergency power from the Crystal Mall. The emergency generator is owned, operated and maintained by the Crystal Mall.
- The station has problems with grease accumulation in the wetwell. The connection of an additional retail facility with restaurants will likely increase the amount grease discharged to the station.
- The rags and debris that enter the wetwell pass through a manually-cleaned strainer basket. The strainer basket fills with debris quickly and then any additional debris overflows into the wetwell contributing to pump clogging problems. The debris seen is typical for a retail establishment pump station. The addition of more retail flows are expected to increase the amount of debris that reaches the pump station.

Wright-Pierce conducted a site visit to the station on October 22, 2007. A copy of the site visit summary memorandum is attached. Electrical one-line diagrams and a site plan were obtained. However, drawings of the pump station itself are not available at this time. Based on the available information and our site visit, Wright-Pierce has developed a preliminary cost estimate to design and construct improvements to the Crystal Mall Pump Station.

Alternatives

As described in the attached Electrical Evaluation Memorandum, two alternatives were considered for the Crystal Mall Pump Station. The scope of the improvements for each alternative is presented below. Additional information on the two alternatives is provided in the attached electrical evaluation.

Alternative No. 1

The following improvements are recommended as Alternative No. 1:

- New 277/480 volt 3 phase, 4 wire underground electrical service extension from possible SNET pole #163 on Route 85.
- New above grade electrical service equipment pedestal enclosure with the following new electrical equipment:
  - Kilowatt hour meter and meter socket.
  - Main circuit breaker and 277/480 volt, 3 phase, power distribution panel.
  - Automatic transfer switch.
  - Generator circuit breaker.
  - Manual transfer switch and receptacle for portable generator.
  - Small dry-type transformer and lighting panel with lights and receptacle connections.
  - Motor starters and controls for the in-line grinder and wetwell mixer.
  - Outdoor emergency generator with weatherprotective enclosure and integral fuel tank.
- New submersible mixer located on a slide rail system in the existing wetwell including a new above-grade OEM control panel provided by the mixer manufacturer.
- New inlet channel-mounted sewage grinder located in a new manhole on the inlet pipe to the wetwell. At this time, no drawings are available. It was assumed that a new 4'-0" diameter pre-cast concrete manhole would be installed on the existing pipe and that a channel-mounted sewage grinder with submersible motors and OEM control panel would be installed. The control panel would be provided by the manufacturer and installed above grade.

Alternative No. 2

- Same electrical equipment upgrades as for Alternative No. 1.
- Under this alternative the existing pump control panel, currently located in the below grade pump station, would be replaced in its entirety. The new control panel would be located above grade and would include VFD's for the pumps. These VFD's would be located outside of the pump control panel. A small slab on grade building would be provided for housing all electrical equipment including the incoming service equipment. This would be in lieu of the above grade electrical service equipment pedestal recommended in Alternative No. 1. The construction of the building could range from stick built to pre-cast concrete. This would house the following:
  - All incoming electrical service equipment as previously mentioned in Alternative No. 1 that would be normally housed within the electrical service equipment pedestal enclosure.

  - New PLC based control panel and VFD's.
  - New wet well level monitoring system equipment which would include submersible level transducer and back-up float switch control system.
  - Miscellaneous station equipment.
  - The emergency generator would still be provided as an outdoor unit in a weather-protective enclosure as previously recommended for Option 1.
- New submersible mixer located on a slide rail system in the existing wetwell including a new above-grade OEM control panel provided by the mixer manufacturer.
- New inlet channel-mounted sewage grinder located in a new manhole on the inlet pipe to the wetwell. At this time, no drawings are available. It was assumed that a new 4'-0" diameter pre-cast concrete manhole would be installed on the existing pipe and that a channel-mounted sewage grinder with submersible motors and OEM control panel would be installed. The control panel would be provided by the manufacturer and installed above grade.

Conceptual Design Costs

Planning-level project costs have been prepared for the recommended facilities and are presented in the attached tables for the two different alternatives. These planning-level costs were developed using standard cost estimating procedures consistent with industry standards utilizing concept layouts, unit cost information, and information from other recent projects, as necessary. Total project capital costs include an allowance of 48% of the estimated construction costs to account for unaccounted for items, inflation to the mid-point of construction, construction contingency (change orders), design and construction engineering services, materials testing, permitting, as well as financing, administrative and legal expenses. The project cost information presented herein is in current dollars and is based on ENR Index 8092 (November 2007). The total project capital cost is estimated to be $432,000 for Alternative No. 1 and $602,000 for Alternative No. 2.

It should be noted that many factors arise during final design (e.g. foundation conditions, owner selected features and amenities, code issues, etc.) that can not be definitively identified and estimated at this time. These factors are typically covered by the 40% allowance described above; however, this allowance may not be adequate for all circumstances.

ALTERNATIVE NO. 1

PRELIMINARY ASSESSMENT OF PROJECT COSTS

TOWN OF WATERFORD, CT
CRYSTAL MALL PUMP STATION IMPROVEMENTS - OPTION 1
W-P PROJECT NO. 10232Q
CONCEPTUAL DESIGN PHASE
NOVEMBER 2007 (ENR INDEX 8092)
PROJECT COST ESTIMATE

PROJECT COMPONENT		COST
CONSTRUCTION		$360,000
CONSTRUCTION CONTINGENCY	5.0%	$20,000
TECHNICAL SERVICES	15.0%	$50,000
MATERIALS TESTING		$1,500
ASBESTOS & LEAD PAINT ABATEMENT		$0
DIRECT EQUIPMENT PURCHASE		$0
LAND ACQUISITION/ EASEMENTS		$0
LEGAL/ ADMINISTRATIVE		$0
FINANCING	2.0%	$0
ENGINEER'S ESTIMATE OF PROJECT COST		$432,000

TOWN OF WATERFORD, CT
CRYSTAL MALL PUMP STATION IMPROVEMENTS - OPTION 1
W-P PROJECT NO. 10232Q
CONCEPTUAL DESIGN PHASE
NOVEMBER 2007 (ENR INDEX 8092)
CONSTRUCTION COST ESTIMATE

DESCRIPTION		ESTIMATED COST
CIVIL		
SITE WORK (Grinder Manhole Installation / Electrical)		$5,000
SITE PIPING		$0
ARCHITECTURAL		
PRE-CAST CONCRETE BUILDING		$0
PROCESS EQUIPMENT AND PIPING FINISHES		$0
STRUCTURAL		
GENERATOR CONCRETE PADS		$7,500
MISCELLANEOUS STRUCTURAL (Control Panel Supports)		$1,000
PROCESS		
DEMOLITION		$2,000
SUBMERSIBLE MIXER		$20,000
INFLUENT SEWAGE GRINDER		$35,000
HVAC/ PLUMBING		$0
INSTRUMENTATION		
INSTRUMENTATION - GENERAL		$0
SCADA SYSTEM HARDWARE/ SOFTWARE		$0
ELECTRICAL		
NEW ELECTRICAL SERVICE & EQUIPMENT		$80,000
RECONNECTION TO EXISTING PUMP STATION		$10,000
NEW 125 KW GENERATOR W/OUTDOOR ENCLOSURE		$70,000
MISC. ELECTRICAL REQUIREMENTS		$10,000
SPECIALS		
MOBILIZATIONS		$10,000
PROCESS BY-PASS PUMPING		$2,500
SHEETING		$0
PILES		$0
GROUNDWATER DEWATERING (OPEN)		$0
TEMPORARY SLUDGE THICKENING/ DEWATERING		$0
SITE SECURITY		$0
WINTER CONSTRUCTION		$0
SUBTOTAL, CONSTRUCTION		$83,000
GENERAL CONTRACTOR OH&P AND GENERAL CONDITIONS	20.0%	$17,000
SUBTOTAL, SUBCONTRACTORS		$170,000
GENERAL CONTRACTOR MARKUP	5.0%	$9,000
ELECTRICAL/ TELEPHONE ALLOWANCE		$10,000
UNIT PRICE ITEMS	0.0%	$0
SUBTOTAL, CONSTRUCTION COSTS		$289,000
PROJECT MULTIPLIER, DESIGN CONTINGENCY	1.20	
PROJECT MULTIPLIER, INFLATION TO MIDPT CONST.	1.05	
ENGINEERS ESTIMATE OF CONSTRUCTION COST		**$364,000**

ALTERNATIVE 2

PRELIMINARY ASSESSMENT OF PROJECT COSTS

TOWN OF WATERFORD, CT
CRYSTAL MALL PUMP STATION IMPROVEMENTS - OPTION 2
W-P PROJECT NO. 10232Q
CONCEPTUAL DESIGN PHASE
NOVEMBER 2007 (ENR INDEX 8092)
PROJECT COST ESTIMATE

PROJECT COMPONENT		COST
CONSTRUCTION		$510,000
CONSTRUCTION CONTINGENCY	5.0%	$30,000
TECHNICAL SERVICES	12.0%	$60,000
MATERIALS TESTING		$1,500
ASBESTOS & LEAD PAINT ABATEMENT		$0
DIRECT EQUIPMENT PURCHASE		$0
LAND ACQUISITION/ EASEMENTS		$0
LEGAL/ ADMINISTRATIVE		$0
FINANCING	2.0%	$0
ENGINEER'S ESTIMATE OF PROJECT COST		$602,000

TOWN OF WATERFORD, CT
CRYSTAL MALL PUMP STATION IMPROVEMENTS - OPTION 2
W-P PROJECT NO. 10232Q
CONCEPTUAL DESIGN PHASE
NOVEMBER 2007 (ENR INDEX 8092)
CONSTRUCTION COST ESTIMATE

DESCRIPTION		ESTIMATED COST
CIVIL		
SITE WORK (Grinder Manhole Installation / Electrical)		$10,000
SITE PIPING		$0
ARCHITECTURAL		
PRE-CAST CONCRETE BUILDING		$40,000
PROCESS EQUIPMENT AND PIPING FINISHES		$0
STRUCTURAL		
GENERATOR CONCRETE PADS		$7,500
MISCELLANEOUS STRUCTURAL (Control Panel Supports)		$1,000
PROCESS		
DEMOLITION		$2,000
SUBMERSIBLE MIXER		$20,000
INFLUENT SEWAGE GRINDER		$35,000
HVAC/ PLUMBING		$0
INSTRUMENTATION		
INSTRUMENTATION - GENERAL		$0
SCADA SYSTEM HARDWARE/ SOFTWARE		$0
ELECTRICAL		
NEW ELECTRICAL SERVICE & EQUIPMENT		$80,000
NEW 40 HP VARIABLE FREQUENCY DRIVES		$40,000
NEW PLC BASED PUMP CONTROL PANEL		$40,000
RECONNECTION AND RECONFIGURATION OF TELEMETRY PANEL		$5,000
NEW WETWELL LEVEL CONTROL SYSTEM		$10,000
CONNECTION TO EXISTING PUMP STATION		$10,000
NEW 60 KW GENERATOR W/OUTDOOR ENCLOSURE		$35,000
MISC. ELECTRICAL REQUIREMENTS		$10,000
SPECIALS		
MOBILIZATIONS		$10,000
PROCESS BY-PASS PUMPING		$2,500
SHEETING		$0
PILES		$0
GROUNDWATER DEWATERING (OPEN)		$0
TEMPORARY SLUDGE THICKENING/ DEWATERING		$0
SITE SECURITY		$0
WINTER CONSTRUCTION		$0
SUBTOTAL, CONSTRUCTION		$128,000
GENERAL CONTRACTOR OH&P AND GENERAL CONDITIONS	20.0%	$26,000
SUBTOTAL, SUBCONTRACTORS		$230,000
GENERAL CONTRACTOR MARKUP	5.0%	$12,000
ELECTRICAL/ TELEPHONE ALLOWANCE		$10,000
UNIT PRICE ITEMS	0.0%	$0
SUBTOTAL, CONSTRUCTION COSTS		$406,000
PROJECT MULTIPLIER, DESIGN CONTINGENCY	1.20	
PROJECT MULTIPLIER, INFLATION TO MIDPT CONST.	1.05	
ENGINEERS ESTIMATE OF CONSTRUCTION COST		**$512,000**

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Utility Commission	**CONTACT PERSON** James A. Bartelli Director
PROJECT NAME Bloomingdale Water Pressure Improvements	**DEPARTMENT PRIORITY** 4

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	Areas of Bloomingdale road have substandard water pressure. Previous engineering reports evaluated options to correct the issue with cost ranging from 2.2M to 5.5M. The Utility Commission is currently reevaluating the alternatives identified within the previous report in effort to achieve a more cost effective solution. An engineering study is currently ongoing and anticipated to be complete by mid-December; a detailed cost estimate will be available at this time, however preliminary discussions with our engineering firm indicate costs less than the original report due to the consideration of a different design concept.
2	**PROJECT STATUS IF IN PROGRESS**
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
	This will have no impact on our operating budget. Water system operations are the responsibility of the City of New London.
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
	State Revolving Funds may be available depending upon the project's ranking status
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	An engineering study is currently ongoing and anticipated to be complete by mid-December; a detailed cost estimate will be available at this time.
7	**COST/FUNDING SOURCE**

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR		600,000	600,000	600,000		
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**0**	**600,000**	**600,000**	**600,000**	**0**	**0**

Bloomingdale Rd. Water Pressure Improvements.

The Connecticut Department of Public Health (CT DPH) regulations require water systems to maintain a minimum pressure of 35 psi in their water distribution system and a minimum of 20 psi during a fire flow event. In 2004, the Waterford Utility Commission received complaints of low pressure from residents on Bloomingdale Road, near the Gallows Lane tank. In a subsequent sanitary survey, CT DPH cited a violation for water pressures below 35 psi and 20 psi at services in this area. In 2006, Lenard Engineering, Inc completed a Preliminary Engineering Report evaluating options to improve pressures to existing services on Gallows Lane and Bloomingdale Road as well as future services on the northern portion of Bloomingdale Road, which are not connected to the distribution system at this time. The Lenard report proposed alternatives, which entailed the installation of lengthy cross-county mains and pumping stations resulting in costs varying from $2.2M to $5.5 M.

As a result of the significant costs estimate identified within the initial report the Utility Commission is currently reevaluating the alternatives identified within the previous report in effort to achieve a more costs effective solution. A new engineering study is currently ongoing and anticipated to be complete by mid-December. As an alternative solution to installing lengthy cross -county water mains and constructing pumping stations our current engineers are evaluating the concept of installing In-Line booster pumps to increase system pressure. A detailed costs estimate will be made available upon completion of the evaluation; however, preliminary discussions with our engineering firm indicate costs less than the original report due to the consideration of a different design concept. Our request is to initiate a three-year funding schedule for infrastructure improvements associated with the need to increase the water pressure at the Gallows Lane/Bloomingdale Rd area.

FILE
NOTED
ACT. REQ. List

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

cc: Tal
JAB
Jim Encson

December 15, 2006

Mr. Neftali Soto
P. O. Box 310
15 Rope Ferry Road
Waterford, CT 06385-2886

PUBLIC WATER SYSTEM: **Waterford WPCA**
PWS CLASSIFICATION: **Community**
PWS TOWN: Waterford, CT
PWSID: CT1520071

SUBJECT: SANITARY SURVEY REPORT

Dear Mr. Soto:

I performed a sanitary survey at the subject Public Water System (PWS) on November 28, 2006. The findings of this survey with associated recommended actions are as follows:

Regulatory Violations:

Applicable Regulatory Section	Description of Violation	Recommended Corrective Action
RCSA Section 19-13-B102(p)	Sources of supply, treatment, pumping, transmission and storage facilities of sufficient capacity shall be maintained to provide flows in excess of the maximum flows experienced in the community water system, and in individual service zones within integrated systems.	The telemetry system used to monitor and regulate the Vauxhall storage tank at the Industrial Drive and Dayton Place pumping stations has been out of service for over one-year. The system operators currently have no way of knowing how much the tank water level fluctuates and therefore how much water is available to meet the system demand. The telemetry system must be repaired to properly operate and utilize the maximum capacity of the Vauxhall tank.
RCSA Section 19-13-B102f(5)(A)	All vents and overflow pipes from a finished water storage tank must be screened to prevent the entrance of insects and animals. Overflow pipes shall not be directly connected to sanitary sewer or storm drain systems.	The overflow pipe on the Douglas Hill Tank is not screened and it is connected directly to a storm drain. This violation was noted in the department's last inspection report and remains uncorrected.
RCSA Section 19-13-B102(q)	Essential water supply valves shall be maintained in good operational condition.	Routine visits to the valve chambers for the Douglas Hill and Vauxhall tanks are required. The isolation valves for the altitude valve and bypass for the Douglas

DEC. 20
WATERFORD PUBLIC WORKS

Phone: (860) 509-7333
Telephone Device for the Deaf: (860) 509-7191
410 Capitol Avenue - MS# 51WAT
P.O. Box 340308 Hartford, CT 06134
Affirmative Action/An Equal Opportunity Employer

Applicable Regulatory Section	Description of Violation	Recommended Corrective Action
		Hill and Vauxhall tanks must be exercised on a routine basis as part of Waterford WPCA's valve exercise program.
RCSA Section 19-13-B102(f)(1)	All service connections shall have a water pressure at the main of at least 25 psi under normal conditions.	The Waterford WPCA has acknowledged pressure problems, less than 25 psi under certain conditions, at several service connections within the Gallows Lanes storage tank service area. The Waterford WPCA is currently exploring various options to remedy this condition. As an interim solution, the Department will provide a consent order that includes the option to utilize home booster pumps as a temporary means to maintain adequate service pressure to the customers and also shall require a permanent solution and eventual compliance with this regulatory requirement.

Regulatory Requirements:

Applicable Regulatory Section	Description of Requirement	Recommended Action
RCSA Section 19-13-B102f(5)(e)	All atmospheric storage tanks basins and clear wells shall be inspected at a minimum of once every ten years for sanitary conditions and structural integrity. The inspection report shall be retained for reference and submitted to the department upon request.	All atmospheric storage tanks must be inspected every 10-years. Please provide a copy of the latest inspection reports for inspections conducted on the Douglas Hill and Vauxhall tanks.

Conclusions & Recommendations:

The Gallows road storage tank appears to be reaching its service life as is evident by the presence of cracks in the concrete walls that are weeping efflorescence and a constant leak in the tank overflow line. Replacement of this tank should be incorporated into the short term infrastructure rehabilitation plan.
An Asset Management Plan (AMP) should be developed to project the service life, rehabilitation and/or replacement of the water system facilities that makeup the water system. A routine maintenance and inspection program should be developed in conjunction with the AMP to maximize the service life of water system facilities and thereby minimize the operating cost needed to provide an acceptable level of service.
Waterford WPCA should be in possession of all entrance lock keys necessary to gain access to its facilities in the event that an emergency develops.

Please also note that a formal response with a plan of action to correct all outstanding violations is due to be submitted to this office by January 29, 2007.

If you have any questions or concerns regarding this matter, please do not hesitate to call me at this office.

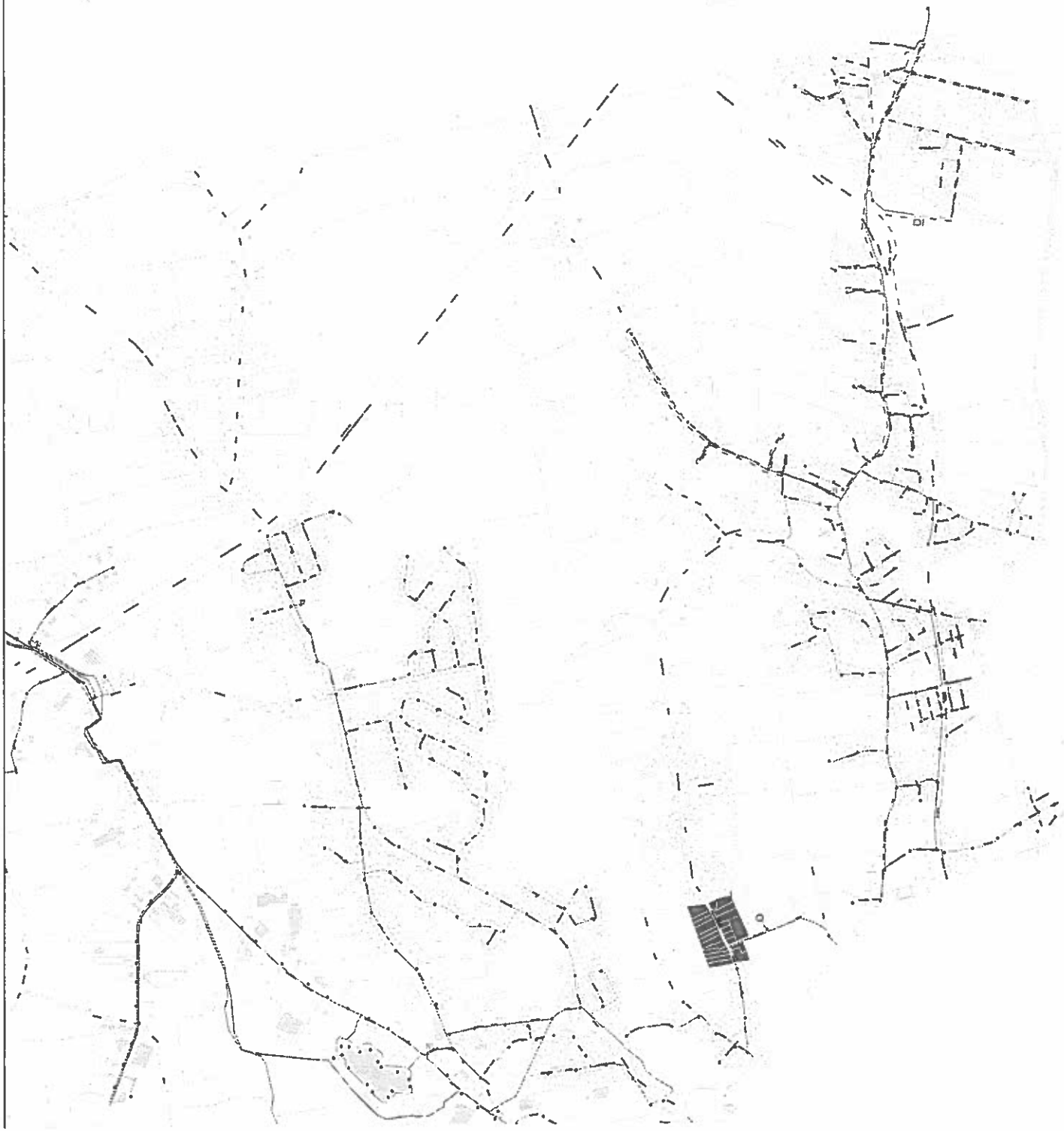
Sincerely,

Robert Kokoszyna
Sanitary Engineer 2
Drinking Water Section

SM:RK

cc: CT1520071 - Reference File
Mr. Francis 'Sam' Crowley, Director of Health, Ledge Light Health District
Mr. Gene E. Ely, CT Water Company, Certified Operator

Quaker Hill Distribution Map



Quaker Hill High Pressure Zone
Upper Bloomingdale Low Pressure

Tanks and Stations

TYPE

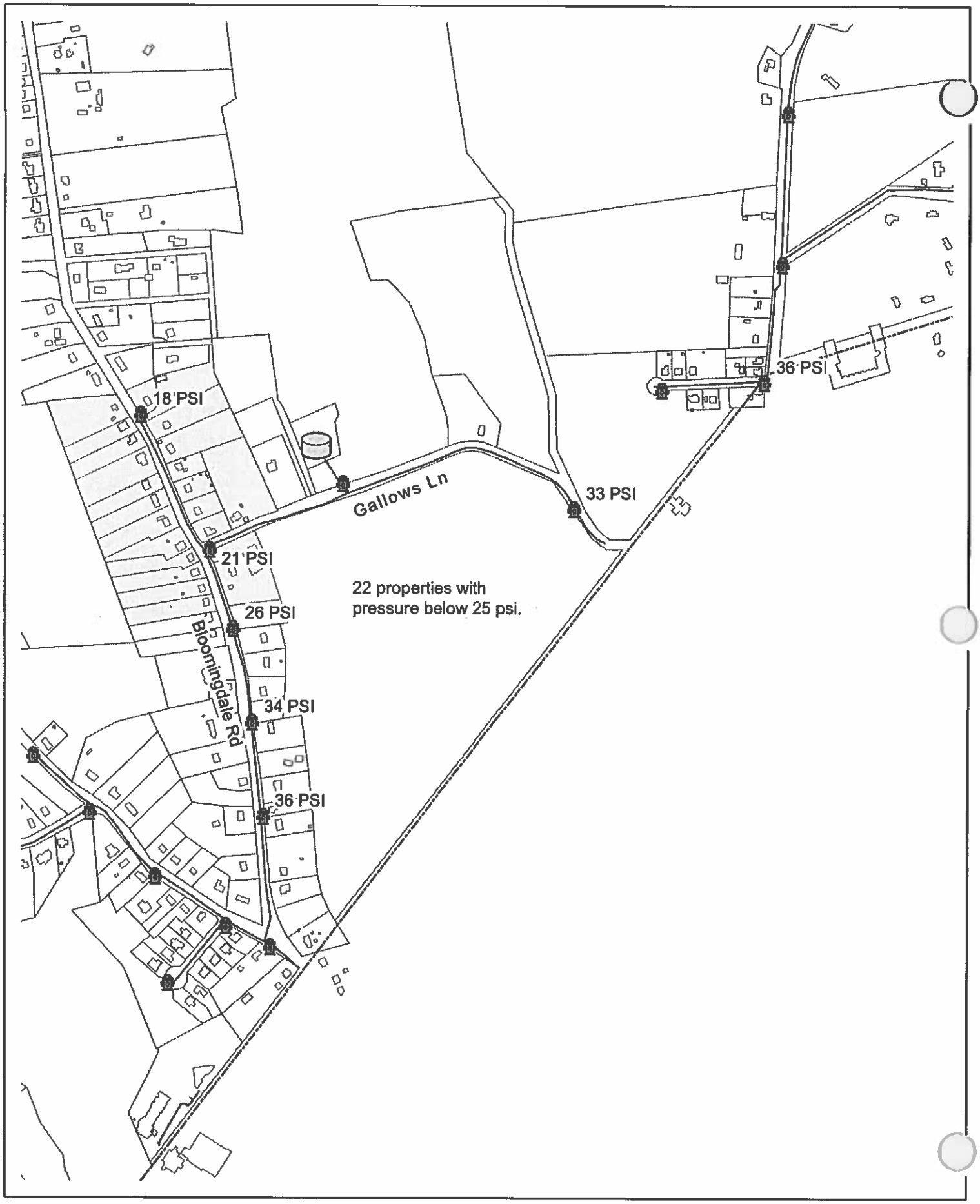
- BOOSTER PUMP STATION
- STORAGE TANK
- WATER TOWER
- WATER TREATMENT PLANT
- Hydrants

Water Supply

SIZE_

- Less than 8"
- 8
- 10
- 12
- 16
- 20
- 24
- 30
- Building
- Parcel

Pressure Issues on Bloomingdale Rd



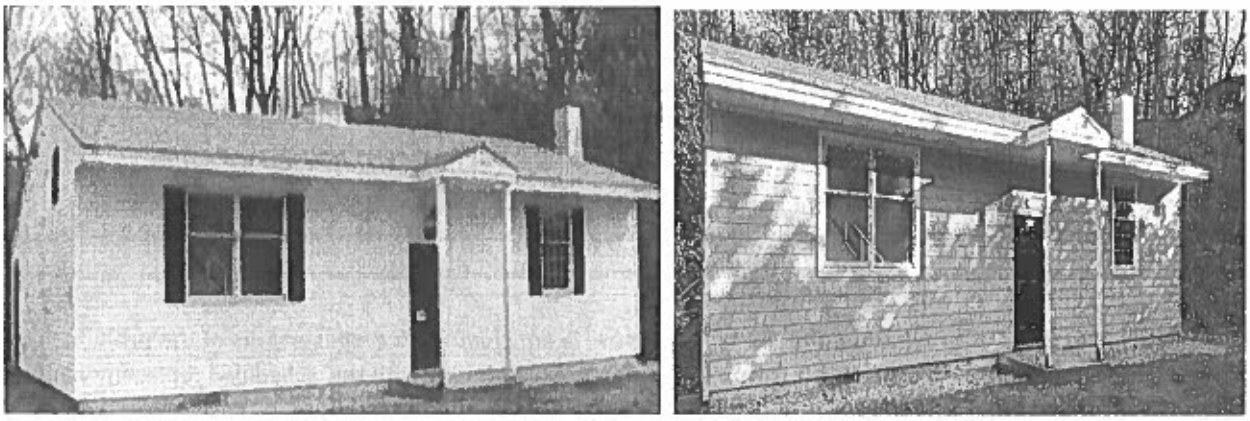
TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Utility Commission	**CONTACT PERSON** James A. Bartelli Director
PROJECT NAME Facilities Exterior Improvements	**DEPARTMENT PRIORITY** 5

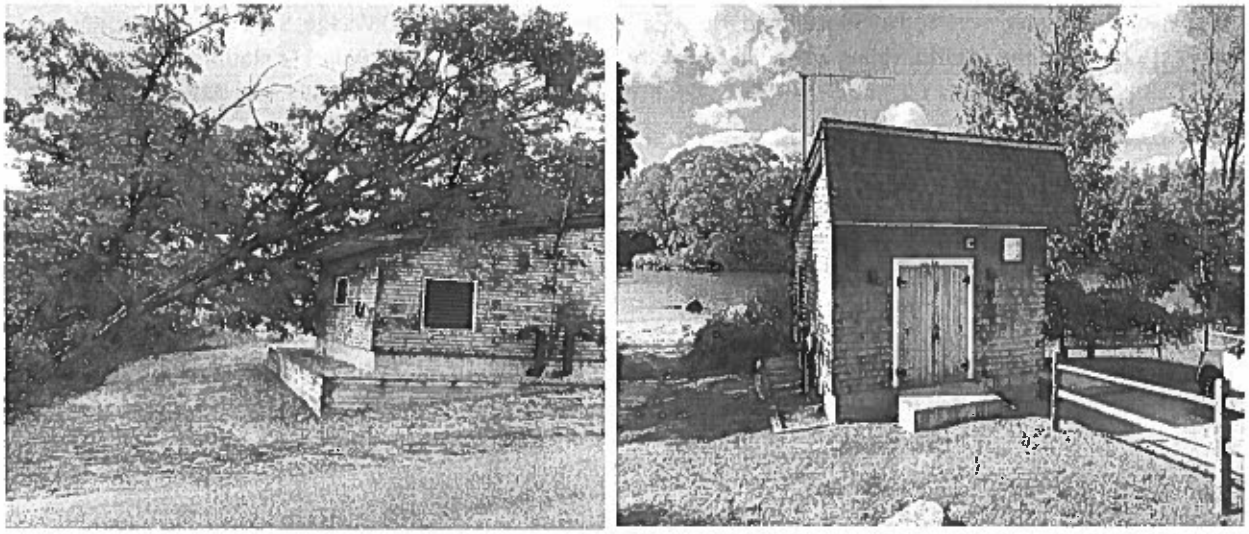
1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	The Purpose of this project is to protect the Town's investments by continuing with the scheduled replacement of roofing, siding, driveways, and other exterior items at the Town's 28 wastewater pumping stations.
2	**PROJECT STATUS IF IN PROGRESS**
	Roof replacements have occurred at Shore Road, Dock Road, Bolles Ct, Waterford Village, Sea Side, Niantic River Rd and Mago Pt stations and the exterior siding was replaced at the Waterford Village and Bolles Ct stations
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
	There is no impact on the operational budget, however this scheduled replacement work protects the Town's major assets
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	A majority of this work is conducted by Utility Commission staff. A Report of the expenditures is attached

7 COST/FUNDING SOURCE

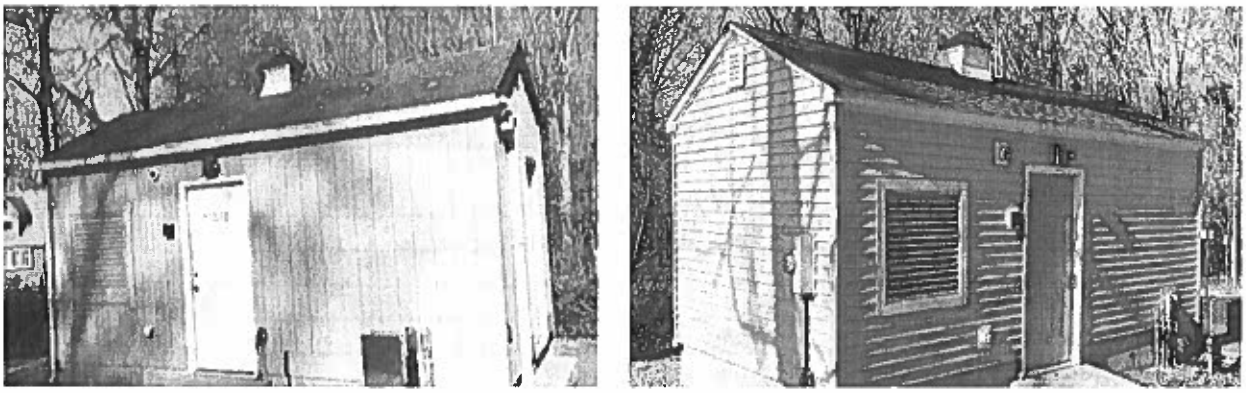
	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital	100,000	50,000	50,000	50,000		
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**100,000**	**50,000**	**50,000**	**50,000**	**0**	**0**



Bolles Court Station Before and After New Roof and Siding



Niantic River Road Station Before and After New Roof



Waterford Village Station Before and After New Roof and Siding

Facilities Exterior Improvements Project

Year	Amount	Eff Date	Comment	Ref 2	Check #	Vendor
2022	$ 8,600.00	10/01/2021	Bolles Court Pump Station-Roof	220070	306269	THOMAS GARBATI
2022	$ 7,900.00	11/12/2021	Mago Point Way Pump Station-Re	220339	306669	A.N.A CONTRACTING, LLC - ERIC DONAHUE
2022	$ 15,357.00	12/23/2021	Remove and Replace Driveways-Gardners and Shore F	220411	307309	PETER S TURELLO LLC
2022	$ 1,234.74	06/24/2022	Waterford Village-Siding		309492	AMERICAN BUILDERS & CONTRACTORS SUPPLY CO., INC.
2022	$ 149.95	06/30/2022	Waterford Village-Siding		309635	AMERICAN BUILDERS & CONTRACTORS SUPPLY CO., INC.
2023	$ 6,964.41	10/14/2022	Bolles Court Pump Station -Siding	230301	310973	AMERICAN BUILDERS & CONTRACTORS SUPPLY CO., INC.
2023	$ 4,600.00	10/28/2022	Niantic River RD PS-Roof Replaced	230295	311262	PETER S TURELLO LLC
2023	$ 22.00	10/28/2022	Bolles Ct-Siding		311160	AMERICAN BUILDERS & CONTRACTORS SUPPLY CO., INC.
2023	$ 779.71	11/23/2022	Supplies for Siding/Bolles & Village		311657	HOME DEPOT INC.
2023	$ 237.50	11/23/2022	Waterford Village-Door		311697	RING'S END LUMBER DBA NIANTIC L
2023	$ 92.30	11/23/2022	Waterford Village-Paint for Door		311697	RING'S END LUMBER DBA NIANTIC L
2023	$ 415.66	12/23/2022	Bolles Court Pump Station -Siding		312048	HOME DEPOT INC.
2023	$ 2,878.10	12/23/2022	Dock and Shore Rd-Roof Replaced	230366	312089	PETER S TURELLO LLC
2023	$ 737.50	12/23/2022	Bolles Court Pump Station -Siding		311980	AMERICAN BUILDERS & CONTRACTORS SUPPLY CO., INC.
2023	$ 11.06	12/23/2022	Bolles Court Pump Station -Siding		311980	AMERICAN BUILDERS & CONTRACTORS SUPPLY CO., INC.
2023	$ 5,171.90	12/23/2022	Dock and Shore Rd-Roof Replaced	230366	312089	PETER S TURELLO LLC
2023	$ 57.83	06/30/2023	Brook Pump Station-Fixing siding		314795	AMERICAN BUILDERS & CONTRACTORS SUPPLY CO., INC.

Total: $ 55,209.66

Work Completed by Outside Contractor

Remaining materials for work performed by in-house staff

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Utility Commission	**CONTACT PERSON** James A. Bartelli Director
PROJECT NAME Bartlett Corners Water Booster Decommissioning	**DEPARTMENT PRIORITY** 6

1 DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)

The purpose of this request is to fund the decommissioning of the Bartlett Corners Water booster station. As a result of other system upgrades,this station was removed from service in 2006 ,however not fully decommissioned. There is no use to the Utility Commission for the building or land. A report was prepared in 2009 which identified options necessary to fully decommission the station, the report is attached.

2 PROJECT STATUS IF IN PROGRESS

3 LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST

4 DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)

There is no impact to the budget, operational costs were borne by the City of New London

5 GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)

6 ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)

A costs estimate from a previous report is attached, the funding request was adjusted by utilizing the Construction Costs Index.

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR		164,850				
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**0**	**164,850**	**0**	**0**	**0**	**0**

PRELIMINARY ENGINEERING REPORT

DECOMMISSIONING OF BARTLETT CORNERS WATER BOOSTER PUMPING STATION

WATERFORD, CONNECTICUT

PREPARED FOR:

TOWN OF WATERFORD UTILITY COMMISSION
WATERFORD, CONNECTICUT

REVISED
NOVEMBER 2009

PREPARED BY:

LENARD ENGINEERING, INC.
STORRS, CONNECTICUT

I) INTRODUCTION

In 2006, the Town of Waterford Utility Commission (WUC) constructed water system improvements that enhanced water pressures and fireflows to the Quaker Hill area of Waterford. Included in this project were a new 2500 gpm capacity water booster pumping station near the intersection of Old Colchester and Old Norwich Roads, and a 1.5 million gallon pre-cast, pre-stressed concrete water storage tank constructed on Rogers Hill, accessed off of South Bartlett Road.

From 1977 up to 2006, the Bartlett Corners Hydropneumatic Station served a small high service area on a hill in the northeast corner of Waterford consisting of approximately 20 residential customers on Lathrop Road, Lower Bartlett Road, Upper Bartlett Road, Pepperidge Road and South Bartlett Road. Once the new Quaker Hill water system improvements were activated, the Bartlett Corners Station was inactivated.

The purpose of this study is to determine what long term measures are needed to permanently disconnect the Bartlett Corner water pumping station from the distribution system, as well as other steps to decommission the building properly.

LEI would like to thank Neftali Soto, Jim Bartelli and members of Veolia Water staff for their assistance with this study.

II) EXISTING CONDITIONS

The Bartlett Corners water pumping station is located an approximate 200' deep by 85' wide Town-owned parcel on the west side of Route 32, approximately 200 feet south of Jerome Road (See **Figure 1**). The structure has approximate dimensions of 26' by 28', and has a ground floor and basement floor levels. The building has an overhanging roof across the entire front eastern face, and along portions of the north and south faces of the building. (**Photo 1, Appendix A**).

Figure 2 shows the mechanical plan for the ground floor level , which includes two 200 gpm capacity electric motor driven domestic water pumps, one 500 gpm electric motor driven fire pump, ductile iron piping and valves, an 80 kW standby diesel generator, two air compressors which provide air for the two hydropneumatic tanks in the basement, and miscellaneous electrical, control and HVAC equipment. (**Photos 2, 3, 4, 5 and 6, Appendix A**).

Immediately outside of the building is a 1000 gallon underground diesel fuel storage tank, with interconnecting piping to a diesel fuel storage day tank inside the building.

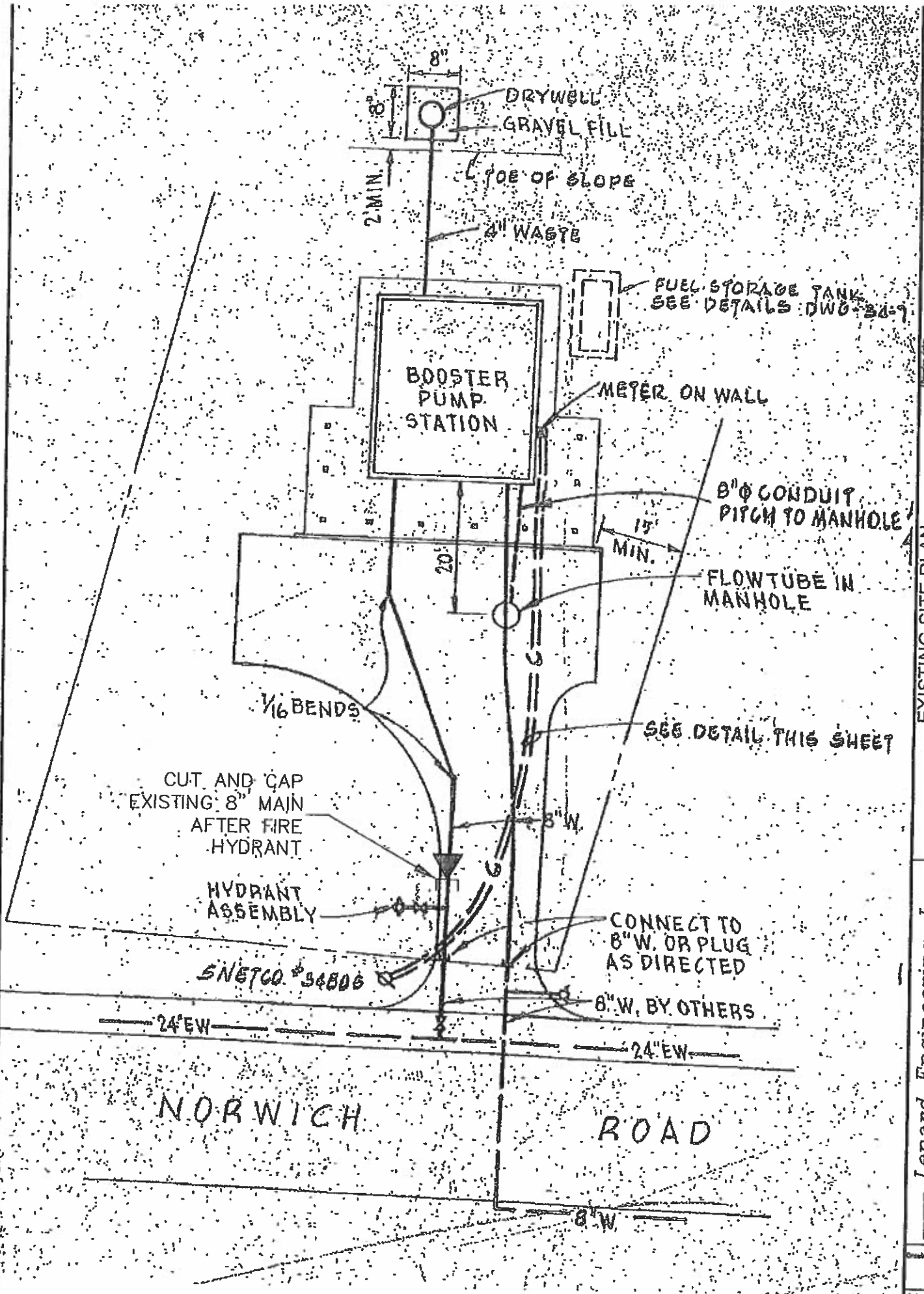
Figure 3 shows the mechanical plan for the basement floor level of the station. Two 2500 gallon hydropneumatic tanks, approximately 4.5' in diameter and 18' long, dominate the lower level. Pump station inlet and outlet piping is also present, along with a waste line collecting floor drainage, discharging to a drywell on the rear of the building. Two masonry "knock-out" walls were constructed in the rear wall of the station, which could be removed to assist in tank removal if desired. (**Photos 7, 8 and 9, Appendix A**).

The building has a 208V, 3 phase 400 amp electrical service via overhead wires to the building, along with an overhead telephone service. There are no underground gas or sanitary sewer connections shown on the design plans, or visible inside the building.

Figure 4 shows the water distribution system in the vicinity of the Bartlett Corner pump station. An 8" water main taps off of the existing 24" main adjacent to Route 32, and has an isolation valve on it, which could potentially be closed to isolate the supply side of the station. **Figure 4** also shows an 8" discharge line leaving the station, and connecting to an existing 8" water main left by a previous contract. No exterior isolation valves are shown on the design drawings. Some circular depressions are present in the pump station driveway, which may indicate the presence of a valve on the discharge piping.

Figure 4 also shows the distribution system layout in the vicinity of the station. The 8" discharge line leaving the station crosses Route 32, and continues off-pavement on the east side, northerly to the intersection of Lathrop Road, Record mapping shows the 8" main connected to a short length of existing 12" main, and then back to 8" to feed the five streets in the former isolated high pressure zone. No isolation valves are shown along this length of water main.

Appendix A provides photographs of the pumping station and interior major components.



EXISTING SITE PLAN

PREPARED FOR

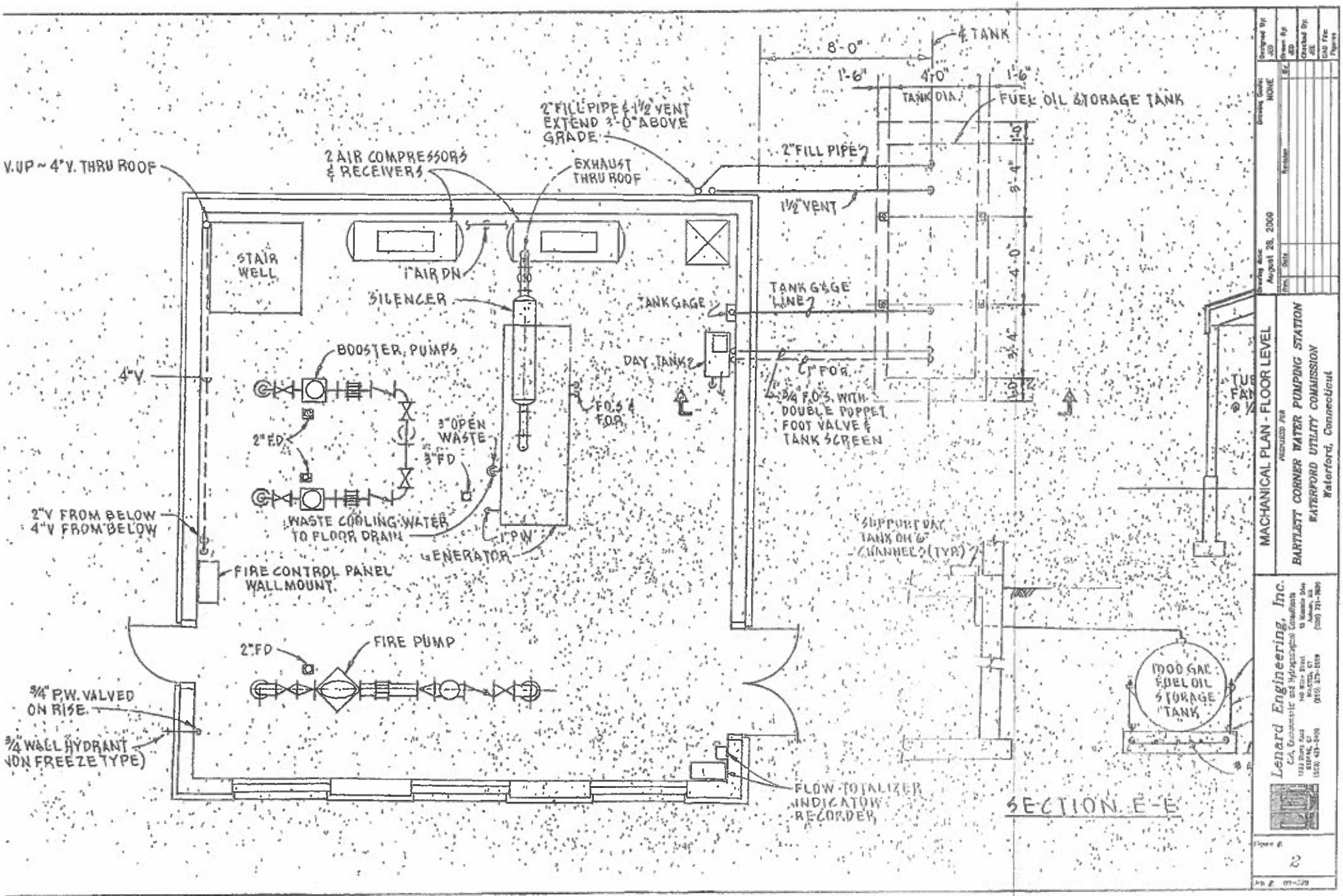
BARTLETT CORNER WATER PUMPING STATION
WATERFORD WATER UTILITY COMMISSION
Waterford, Connecticut

Designed By: JED
Drawn By: JED
Checked By: JEE
CAD File:
Drawing Scale: NONE
Drawing Date: August 28, 2009
No. Date Revision

Lenard Engineering, Inc.
Civil, Environmental and Hydrogeological Consultants
1266 Storrs Road, STORRS, CT (860) 429-5400
140 Willow Street, WINSTED, CT (860) 379-8669
19 Middlesex Drive, Auburn, MA (508) 721-7500

Drawing #: 1

Job #: 09-379

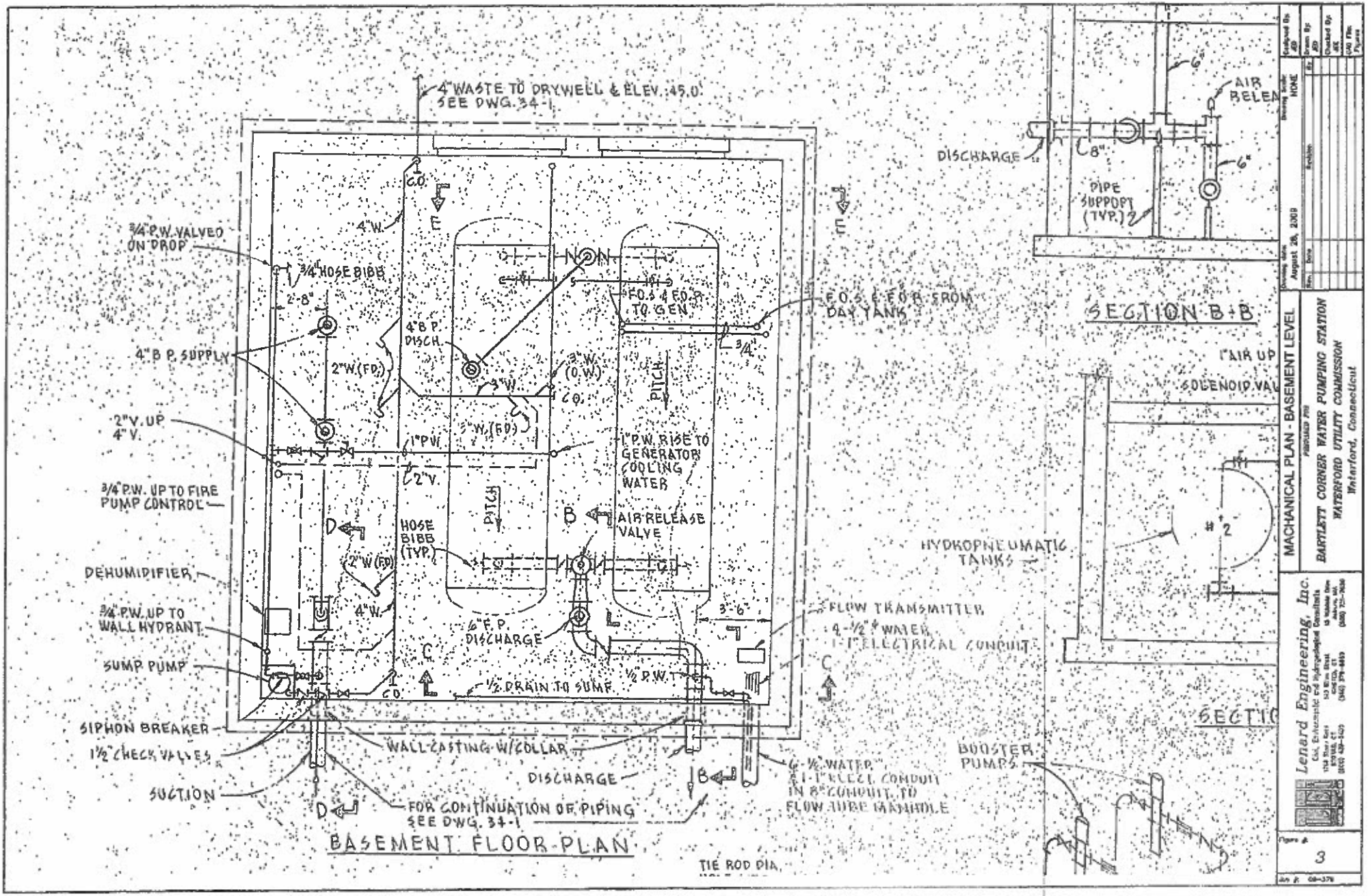


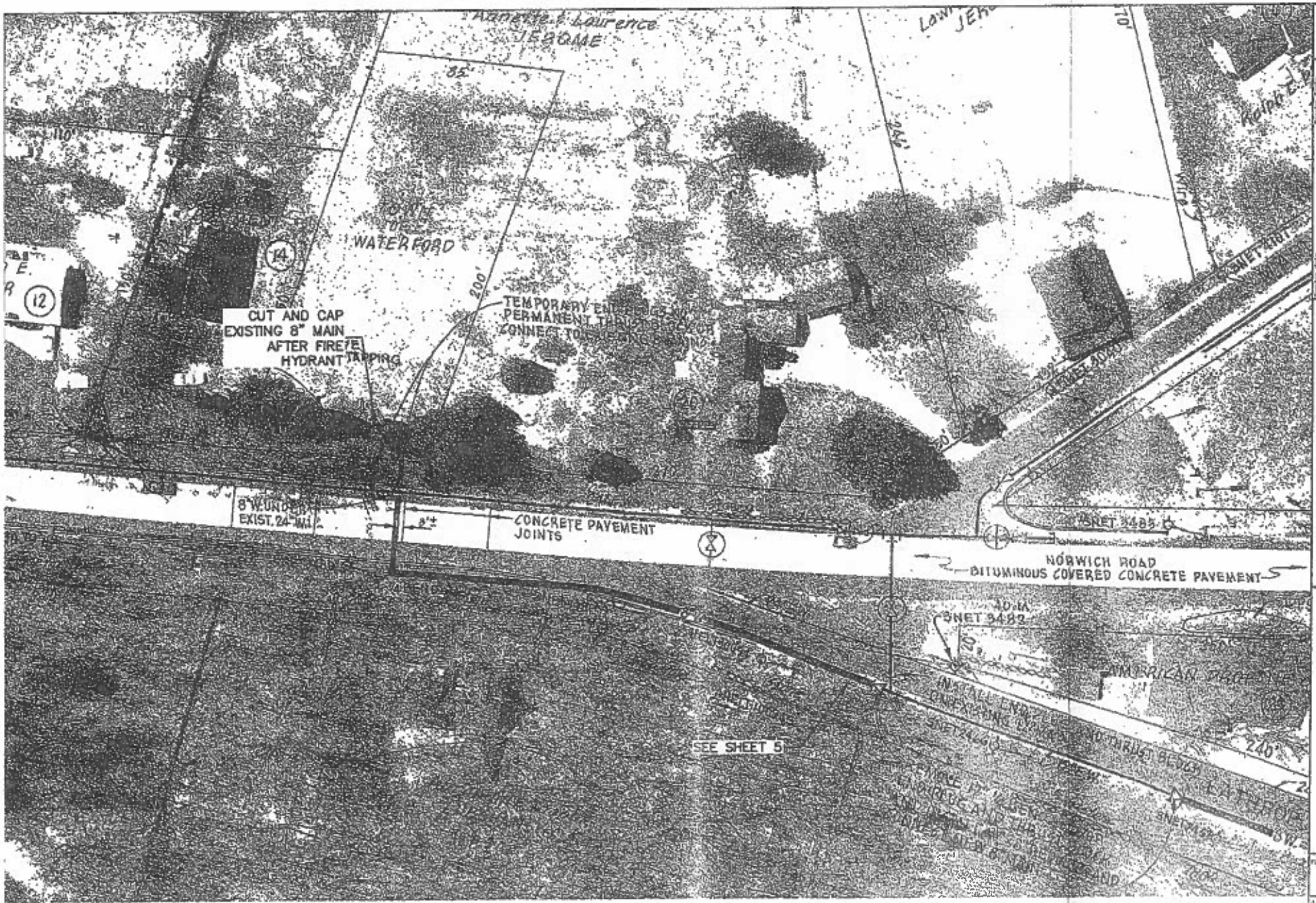
MECHANICAL PLAN - FLOOR LEVEL

BARNEY'S CORNER WATER PUMPING STATION
WATERFORD UTILITY COMMISSION
Waterford, Connecticut

Leonard Engineering, Inc.

8


4" WASTE TO DRYWELL & ELEV. 45.0
SEE DWG. 34-1
3/4" P.W. VALVED ON DROP
3/4" HOSE BIBB
4" B.P. SUPPLY
2" V. UP 4" V.
3/4" P.W. UP TO FIRE PUMP CONTROL
DEHUMIDIFIER
3/4" P.W. UP TO WALL HYDRANT
SUMP PUMP
SIPHON BREAKER
1½" CHECK VALVES
SUCTION
4" W.
2" W (F.D.)
4" B.P. DISCH.
3" W. (O.W.)
1" P.W.
2" V.
HOSE BIBB (TYP.)
6" F.P. DISCHARGE
½" DRAIN TO SUMP
WALL CASTING W/COLLAR
DISCHARGE
FOR CONTINUATION OF PIPING SEE DWG. 34-1
F.O.S. & F.O.R. TO GEN.
F.O.S. & F.O.R. FROM DAY TANK
PITCH
1" P.W. RISE TO GENERATOR COOLING WATER
AIR RELEASE VALVE
3/4"
3'-6"
FLOW TRANSMITTER
4-½" WATER
1-1" ELECTRICAL CONDUIT
½" P.W.T.
4-½" WATER
1-1" ELECT. CONDUIT IN 8" CONDUIT TO FLOW TUBE MANHOLE
HYDROPNEUMATIC TANKS
BOOSTER PUMPS
TIE ROD DIA.
BASEMENT FLOOR PLAN
SECTION B-B
DISCHARGE
8"
6"
AIR RELEASE
PIPE SUPPPORT (TYP.) 2
AIR UP
SOLENOID VAL
#2
SECTIO
MECHANICAL PLAN - BASEMENT LEVEL
BARTLETT CORNER WATER PUMPING STATION
WATERFORD UTILITY COMMISSION
Waterford, Connecticut
Lenard Engineering, Inc.
Civil, Environmental and Hydrological Consultants
August 26, 2008
NONE
3



WATER DISTRIBUTION LAYOUT

PREPARED FOR

BARTLETT CORNER WATER PUMPING STATION
WATERFORD UTILITY COMMISSION
Waterford, Connecticut

Drawing date: August 28, 2009
Drawing Scale: NONE
Designed By: JED
Drawn By: JED
Checked By: JLC
CAD File: Figure 4

Lenard Engineering, Inc.
Civil, Environmental and Hydrogeological Consultants
156 Main Street, Stonington, CT (860) 535-3555
15 Mechanic Drive, Auburn, MA (508) 791-7600

Figure # 4

Job # 20-329

III TOWN PLANNING DIRECTOR COMMENTS

The Waterford Utility Commission staff contacted Mr. Thomas Wagner, Planning Director for the Town, to review and comment regarding the potential for re-use of this property, for either Town of Waterford or other parties, assuming the parcel was sold. The following is a summary of his comments:

A) ZONING COMPLIANCE

16 Norwich Road (the site) contains 0.39 acres, or 16,675 square feet +/-. It is located in an RU-120 Zoning District, which has a minimum lot size of 120,000 square feet. The fact that the lot is non-conforming does not prohibit its reuse, it just limits how it may be reused.

According to the available information, the existing building takes up about 1200 square feet ground coverage, or about 7 % of total lot area. The building is set back from Norwich Road (Route 32) 70 feet, whereas the required front yard is 75 feet on a state highway. The building is set back from the side property lines by about 20 feet, whereas the required side yards are 30 feet. The building is set back from the rear property line by 90 feet, whereas the required rear yard setback is 75 feet.

Any expansion of the existing building would have to conform to the required setbacks, which would allow for a 15 foot addition to the rear that is 30 feet from each side property line.

B) ALTERNATIVE USE CONSIDERATIONS

If the building or site were to be converted to an alternative use that would involve human occupancy the biggest issue is the need to install a septic system. If residential use is being considered, consultation with the Ledge Light Health District is suggested, to confirm the site is suitable for a house, and the number of bedrooms it could contain.

It appears the building was constructed in the late 1970's based on the deed and assessor's records. Since the site are is sub-standard in most residential districts, it was probably approved on the basis that it would remain in its current use. There are a number of uses allowed in the district which are contained in section 6 of the Zoning Regulations. Use by another utility might be the easiest depending on the level of occupancy.

Another alternative to be considered is the potential sale of the property to an abutter not as a separate lot but to be combined with their use. This presumes removal of the existing building and improvements.

IV. FUTURE RECOMMENDATIONS

A) POTENTIAL MAJOR SALAVAGEABLE ITEMS INSIDE THE STATION

LEI toured the station with operators from New London's contract operations firm, Veloia Water, and conducted a preliminary assessment of the major mechanical equipment within the station. The following equipment appeared to be in good or excellent condition, and potentially could be sold or reused at another similar facility:

1) 80 kW Standby diesel generator- This generator could be removed from the station with some effort, and providing the sizing and voltage are correct, could be used at another Waterford Utility Commission site. One option would be to install this unit inside a trailer to make it portable. If no existing Waterford building or site seems compatible for this generator, it most likely can be sold.

2) Air compressors and air tanks- These air compressors and tanks maintained the air balance within the two 2500 gallon hydropneumatic tanks, and are in excellent condition. Depending on their capacity and motor size / voltage, they potentially can be used at another Waterford Utility Commission site, or sold.

3) Two- 2500 gallon painted steel hydropneumatic tanks.- These are located in the basement of the structure, and are in excellent condition, especially for their age. There are no signs of visible exterior rusting or paint failures, which is a testament to the HVAC systems effectiveness in the building.

As mentioned earlier, the basement was constructed with two masonry knock-out walls, that could be used if the rear foundation wall were exposed to remove the tanks from the building. These tanks could potentially be used by another entity, utility, farmer, etc as a functioning water storage tank, or sold as scrap.

B) ADDITIONAL NON-SALVAGEABLE MAJOR ITEMS

1) Pumping Equipment - The existing domestic pumps and fire pump, while appearing to still be in acceptable working condition, were designed for this stations specific flow and pressure (head) requirements, and therefore would not be easily transferable to another location, either in the Waterford system, or another utility system. Also, the motor phase and voltage would have to be an exact match to the system where it is installed, making reuse even more difficult.

2) Piping- The existing flanged piping may have some value as scrap, but most likely could not be reused in another active site.

3) Motor Control Center – The existing electrical panels, switchgear, transfer switch, and other items inside the motor control center are over 20 years old, and most likely could not be reused due to wear, code changes, or other factors.

4) Underground Diesel Fuel Storage Tank - The 1000 gallon underground tank is a liability, and needs to be properly emptied, removed and disposed of. Based on its size and use, this tank should have been registered with the Connecticut DEP. As a regulated tank, the abandonment process includes:

a) removal of any remaining fuel in the tank,
b) removal of the tank by a licensed contractor,
c) preparation of a tank removal closure report, with soil samples collected and analyzed for potential contaminants by an environmental consulting firm, and
d) submission of this tank closure report and an updated registration form to the DEP.

If soil of groundwater contamination is detected during the closure report and sampling, then additional remedial steps may be required. No mention of potential tank leakage or contamination has been communicated to LEI.

C) UTILITY DISCONNECTIONS

1) Water – As mentioned earlier, 8" water mains connect to the stations suction and discharge piping to the active water distribution system, and would cause a major problem to the structure if there were a leak inside the building. LEI evaluated the best means to isolate the station from the water distribution system, with the options shown on **Figure 4**.

As discussed earlier, an existing 8" underground gate valve is shown on design plans and is visible near the access gate to the station. This valve should be closed, with a restrained mechanical joint cap and trust block installed between this valve and the station to isolate the suction piping to the building.

Isolating the discharge piping is more challenging. As approximately 300 feet of 8" ductile iron discharge piping is installed from the station to the intersection of Mohegan Parkway (Route 32) and Lathrop Road, it is desirable to take this entire run of dead end piping out of service. This is discussed later in Section D – Additional Considerations.

2) Electric and Telephone- The station is served by an overhead three phase electrical connection, as well as an overhead telephone connection, which extend to a utility pole adjacent to the building. The electrical connection supplies the motor control center, all process pumping and mechanical equipment, as well as unit heaters and HVAC equipment that maintain the heated, ventilated environment.

Disconnecting the existing telephone service to this inactive station should be implemented, to avoid recurring costs with any benefit.

The Town should evaluate the benefits of also disconnecting the electrical service, versus the potential negative effects. Disconnecting the electrical service would definitely save money. The drawbacks to disconnecting electricity is that the structure would no longer be a heated, ventilated, dehumidified space (basement only). Moisture, mold, and gradual deterioration of the structure would likely occur, which over time would require demolition of the structure.

D) ADDITIONAL CONSIDERATIONS

1) Hazardous Materials Inventory - LEI did not include any specific testing for the presence of regulated or hazardous materials within the building, specifically lead paint or asbestos containing materials. Prior to any demolition, renovation or potential property transfer, the Town should complete these investigations, and complete any remedial measures necessary.

2) Looping of Water Distribution System in Lathop Road - The inactivation of approximately 300 feet of existing 8" water main leaving the station may eliminate an existing water distribution system loop between the new 1.5 million gallon water tank and the 24" water main in Route 32 and Lathrop Road. Current Town plans for reconstruction of the Lathrop Road intersection alignment need to also provide a means to replace the looped distribution system. One option to this is shown on **Figure 5**, which is a scan of the most recent design plans for that area, with proposed interconnecting piping shown.

   By installing two tees, one 8" gate valve and approximately 20 feet of new 8" water main on sections of 8" and 24" mains scheduled to be reconstructed, the integrity of the original looped system should be maintained.

   In addition, if during this construction the existing 8" water main could be capped near the intersection, it would take out of service the 300 feet of dead ended water main from the Bartlett Corner discharge piping.

E) PHASED IMPROVEMENT PROGRAM

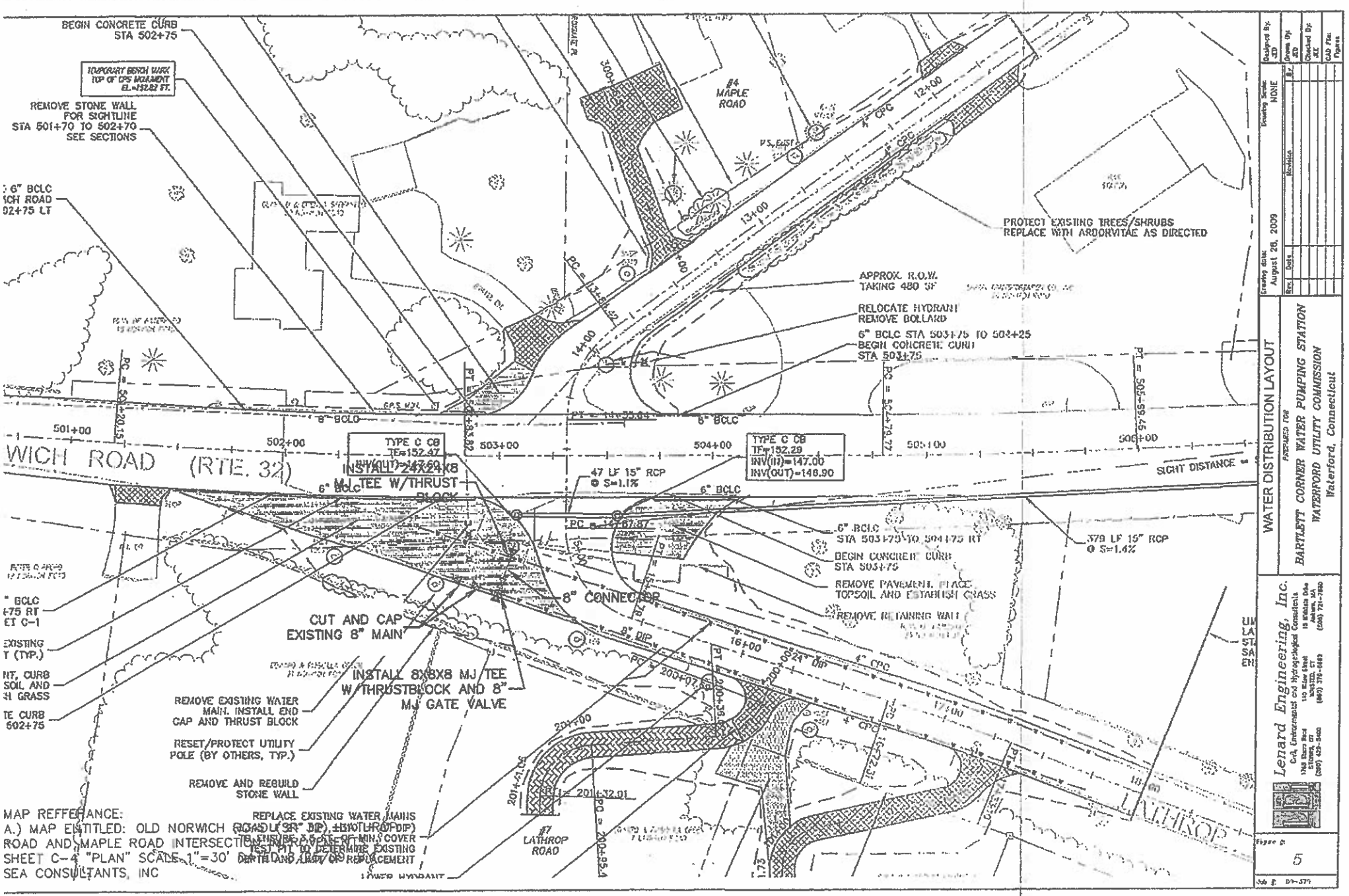
LEI recommends the Waterford Utility Commission proceed with a two phased improvement program at this site. The first phase would minimize the potential for damage to the structure or liability within an unoccupied building. The second phase provides estimates of major equipment, which would probably be required for transfer or reuse of the building and property.

Phase I – Initial Improvements to Reduce Potential Damage/ Reduce Liability

Improvement	Est. Cost	Discussion
1) Remove Oil Tank	$ 10,000	Eliminates environmental hazard
2) Disconnect Water Distribution System	$ 30,000	Eliminates potential for burst pipes, water damage, eliminates dead ended piping.
3) Disconnect Power, Telephone Services	$ 5,000	Eliminates electrical hazards, recurring costs.

Phase II – Additional Improvements to Prepare Building for Sale / Re-use

Improvement	Est. Cost	Discussion
1) Remove Salvageable Items.	$ 20,000	Potential reuse or resale items
2) Remove remaining Mechanical, electrical Items.	$ 40,000	Empties building for potential re-use.



MAP REFFERANCE:
A.) MAP ENTITLED: OLD NORWICH ROAD AND MAPLE ROAD INTERSECTION IMPROVEMENT SHEET C-4 "PLAN" SCALE 1"=30' SEA CONSULTANTS, INC

TABLE OF CONTENTS

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III TOWN PLANNING DIRECTOR COMMENTS		7
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LIST OF APPENDICES

Appendix A	Pump Station Photos

Appendix A

Pump Station Photos

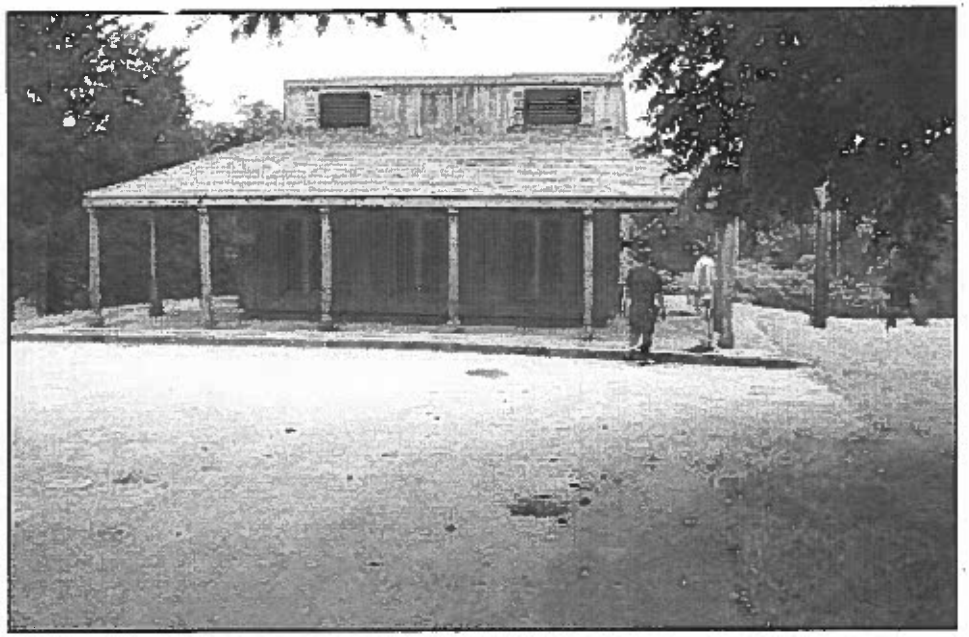


Photo 1 - Front of building.

Photo 2 - Domestic pumps on ground floor level.

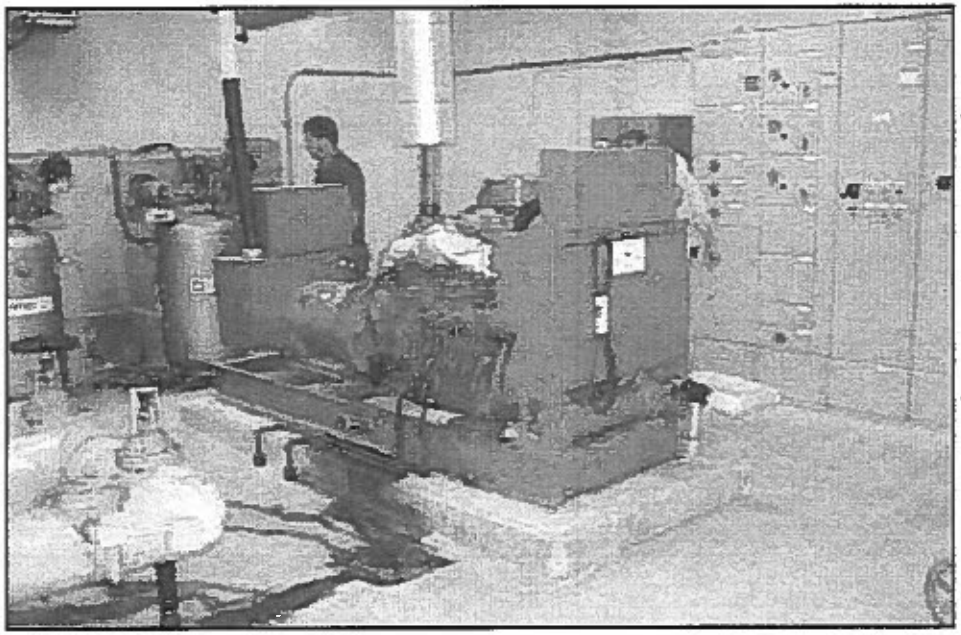


Photo 3 - Diesel engine generator on ground floor level.

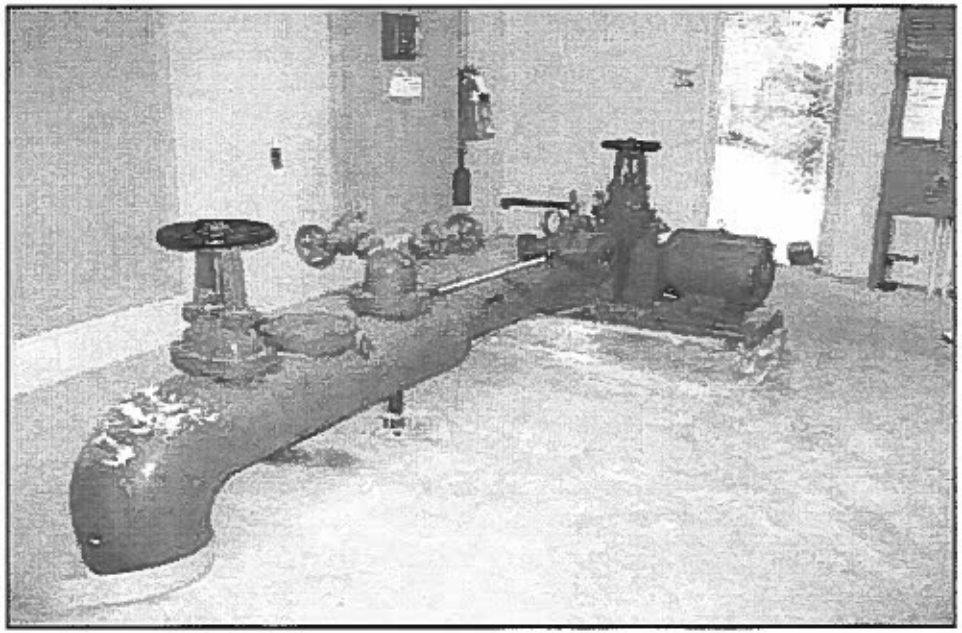


Photo 4 - Fire pump on ground floor level.

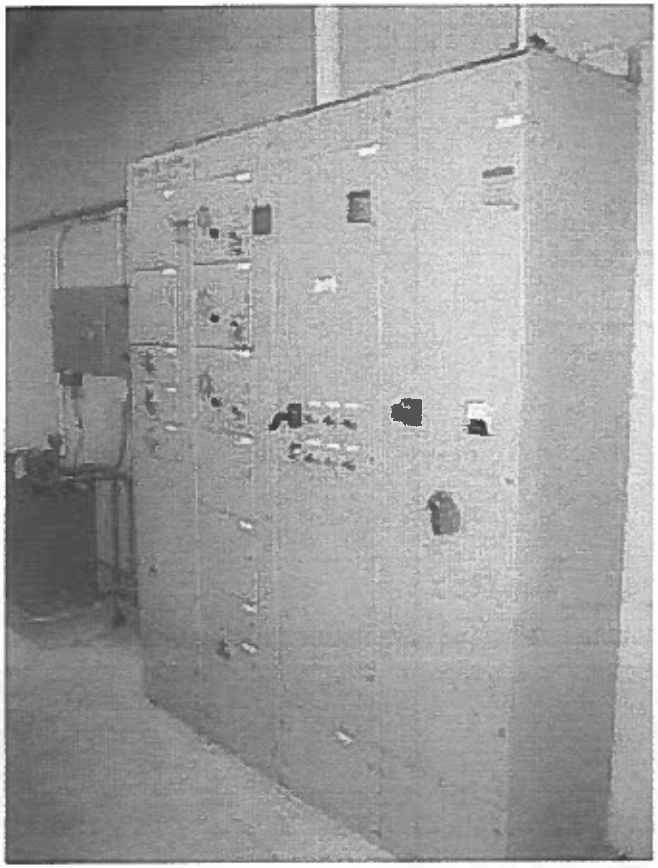


Photo 5 - Motor control center on ground floor level.

Photo 6 - Air compressors on ground floor level.

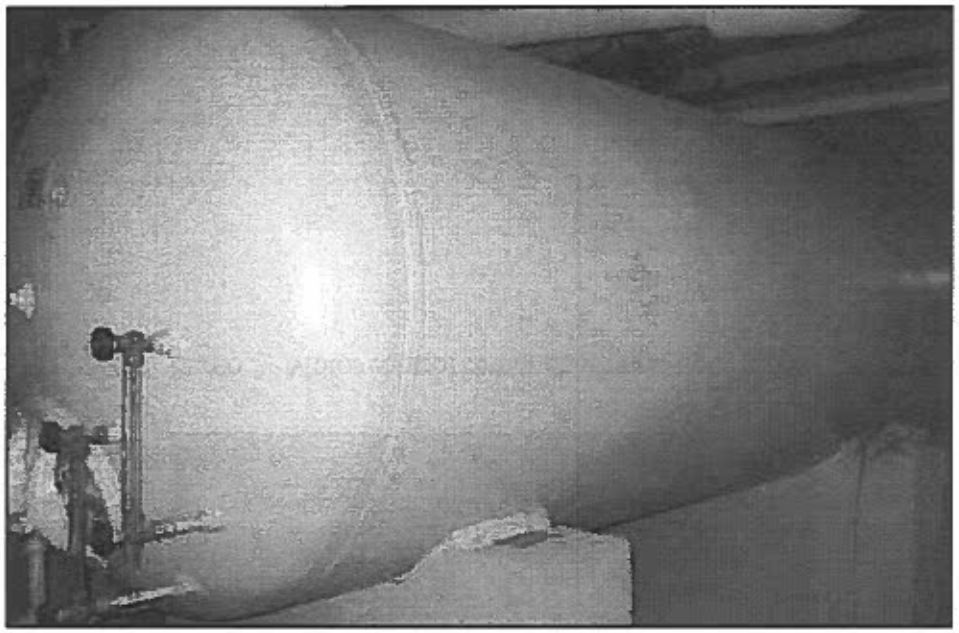


Photo 7 - One of two 2500 gallon pneumatic tanks in basement level.

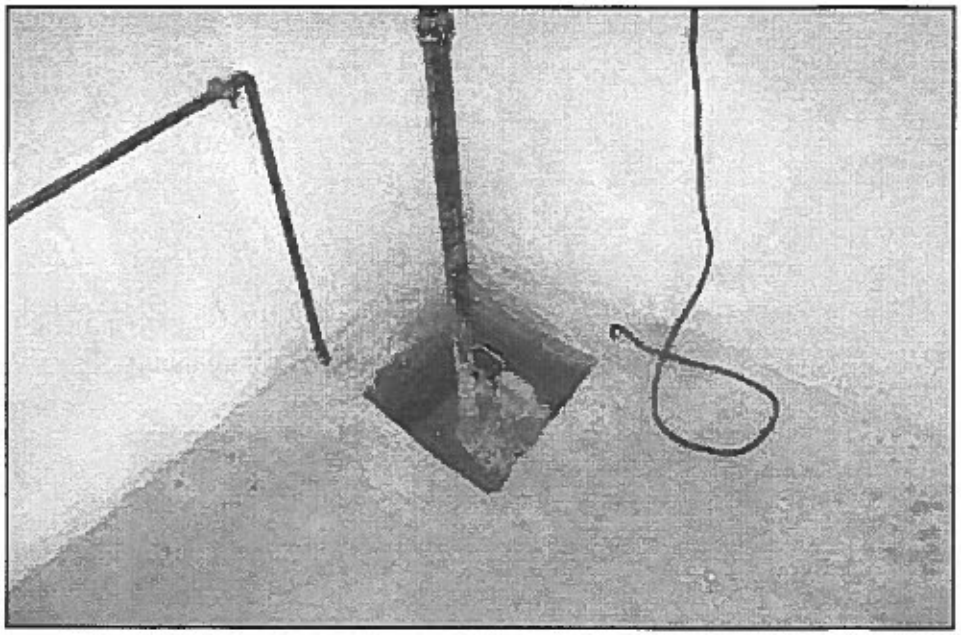


Photo 8 - Existing sump pump in basement level.

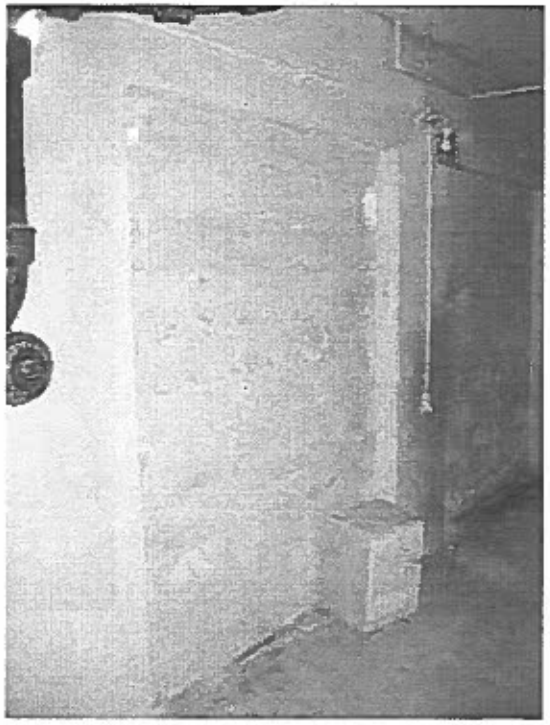


Photo 9 - Masonry knock-out wall in basement level,

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Utility Commission	**CONTACT PERSON** James A. Bartelli Director
PROJECT NAME Maintenance Facility Upgrades	**DEPARTMENT PRIORITY** 7

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	The 8,700 SF Wastewater Maintenance Facility was constructed in 2008 and is in need of upgrades. The original carpeting in the hallways, Training room and Foreman's office have degraded and are unsightly. The epoxy floor finish in the maintenance garage is totally worn off within the high traffic areas.
2	**PROJECT STATUS IF IN PROGRESS**
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	An adjusted estimate is attached
7	**COST/FUNDING SOURCE**

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR			80,340			
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	0	0	80,340	0	0	0

Roberge Painting Co.

29 Church Ave, Forestville, CT 06010
(860) 582-6131
www.robergepainting.com

Date: 12-1-2022
To: James Bartelli
Company: Waterford Utility Commision
E-mail: jbartelli@waterfordct.org
From: Peter Kite

JOB: Waterford Maintenance Garage

QUOTE:

Supply all necessary material, labor and equipment to complete interior epoxy floor application.

BASE BID:

1. Shot Blast Surface
2. Apply Cementitious Urethane Base Coat w/ Aggregate Broadcast.
3. Apply Epoxy Grout Coat.
4. Apply Urethane Top Coat.

Labor, material & equipment $65,500.00
Tax Exempt

ADD ALTERNATE – PREVAILING WAGE RATE
Labor, material & equipment $78,000.00
Tax Exempt

NOTES:

- Base bid @ Normal wage rate.
- Flooring system by ProRez.

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY	**CONTACT PERSON**
Utility Commission	James A. Bartelli Director
PROJECT NAME	**DEPARTMENT PRIORITY**
Wiemes Ct & Marilyn Rd Ejector Stations.	8

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	Wiemes Ct and Marilyn Rd pump stations were designed in 1981. These stations are known as Pneumatic Ejectors. The station itself is a steel cylinder 9' in diameter buried about 18 feet below ground and accessed via a manway. The station houses the pots, compressors and control panel. The stations have exceeded their design life and do not operate efficiently. An engineering study is warranted to fully evaluate the stations structural integrity and plan for the station's replacement. In addition, considerations for permanent stand by power should be evaluated, as portable generators have to be mobilized in the event of need.
2	**PROJECT STATUS IF IN PROGRESS**
	Not in progress, yet. Funding request for evaluation and work needed.
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
	Maintain reliability of the stations. Replace or upgrade asset with more efficient pump and controls system.
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	See attached proposal for an engineering study and conceptual design from Wright-Pierce
7	**COST/FUNDING SOURCE**

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital		19,800	500,000	500,000	500,000	
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR						
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**0**	**19,800**	**500,000**	**500,000**	**500,000**	**0**

WRIGHT-PIERCE
Engineering a Better Environment

169 Main Street, 700 Plaza Middlesex
Middletown, CT 06457
860.343.8297 | www.wright-pierce.com

November 16, 2023

Mr. James Bartelli
Director of Utilities
Town of Waterford Utility Commission
15 Rope Ferry Road
Waterford, CT 06385

Subject: **Proposal for Engineering Services**
Wiemes Court and Marilyn Road Pump Station Upgrades- Conceptual Design Memorandum

Dear Mr. Bartelli:

As requested by the Water Utility Commission (WUC), this letter presents our scope of services to perform a conceptual evaluation of the pump stations located at Wiemes Court and Maryland Road. The pump stations were originally constructed in the early 1980s and include ejector pots to collect and transport sanitary wastewater to the Waterford collection system. The electrical, mechanical and process equipment is at the end of their service life and in need of replacement. Additionally, acquiring service parts for the ejector equipment is difficult, and some parts are no longer available. Therefore, WUC has requested that an evaluation be performed to determine their condition and make recommendations for improvements.

Wright-Pierce proposes to perform the following engineering services:

Preliminary Evaluation

1. Collect available data including existing pump station record drawings, parcel (property boundary) data, force main record drawings, ejector pot data sheets and run time data (if available).
2. Meet on site with WUC staff to obtain their insight and historical knowledge of these pump stations. Discuss and incorporate and design standard or features requested by WUC staff.
3. Evaluate options to eliminate the ejector pot equipment and convert the station to either a dry-pit/wetwell style station with dry-pit pumps or fully convert to a submersible style station.
4. Using available data and record drawings, calculate the required pump station design capacity including average and peak flows and required pump discharge pressures.
5. Prepare a Conceptual Design Memorandum which will include the following:
    a. Required pump station design capacity.
    b. New pump design capacity (flow and pressure) and approximate horsepower.
    c. Evaluation of options to eliminate the ejector pot equipment and replace with dry-pit/wet-well style station or fully convert to a submersible style station.
    d. Recommendation for upgrades to control and electrical equipment including emergency standby power equipment.

e. Cursory review of space requirements for upgrade options to confirm new equipment will fit within the existing property boundaries. Space requirements for new emergency generator will also be considered.
f. Opinion of probable construction cost for each option.
g. Safety requirements, code requirements and TR-16 guidelines will be reviewed and outlined in the memorandum.

Proposed Fee

Wright-Pierce proposes to complete the above scope of work on a time-charge basis with a not to exceed fee of $19,800.

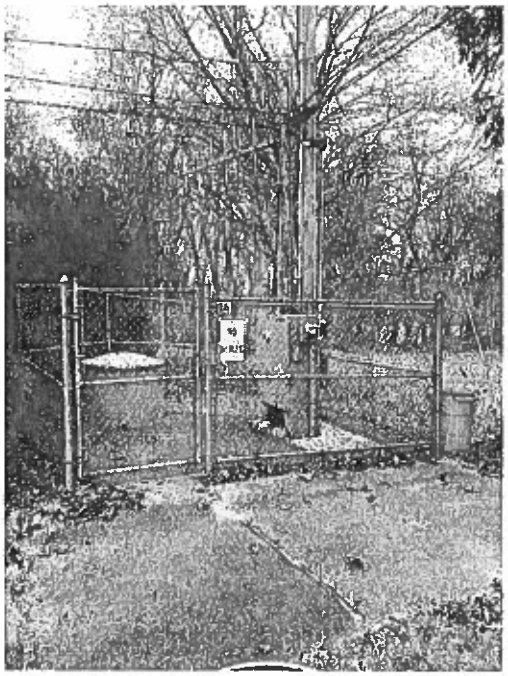
If the proposed scope and fee are acceptable, we can prepare a Task Order under our on-call agreement. We are prepared to begin this work immediately upon WUC authorization.

Should you have any questions or desire additional information, please call.

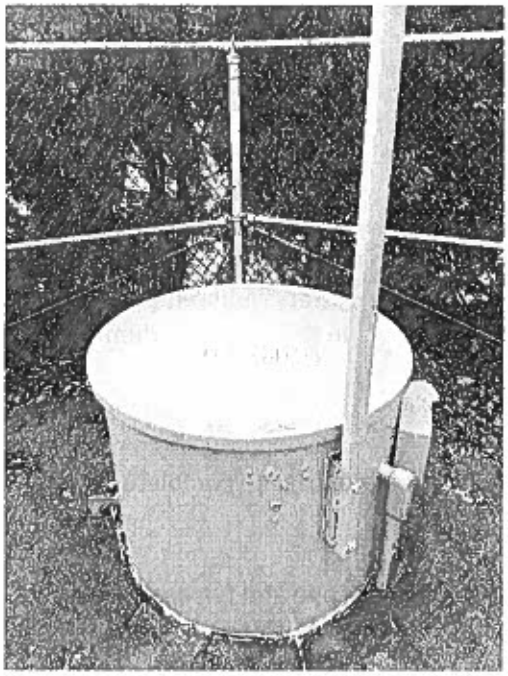
Sincerely,

WRIGHT-PIERCE

Therlin Montgomery
Therlin.montgomery@wright-pierce.com

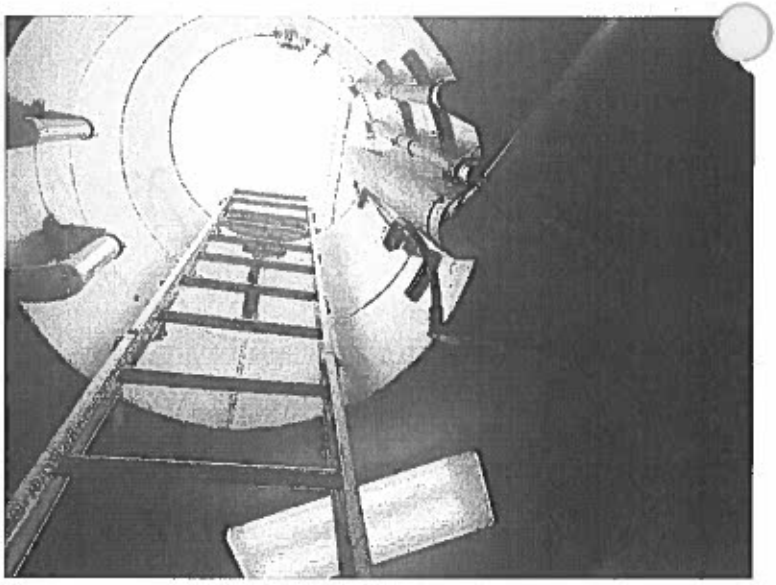


Marilyn Road Pneumatic Ejection Wastewater Station

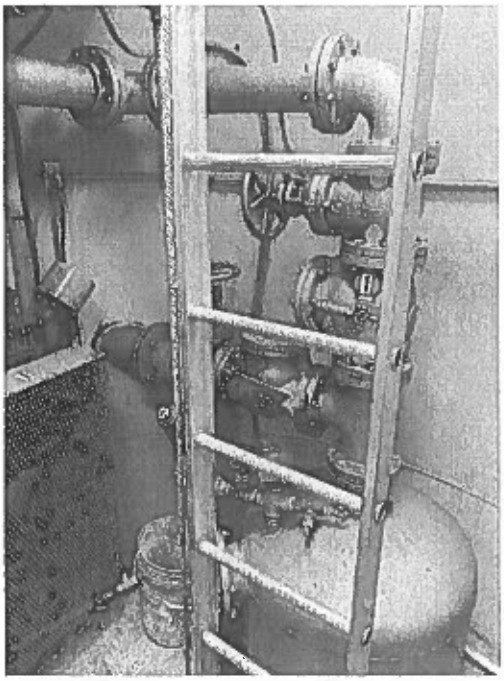


Marilyn Road Station Access Manway -- to access below grade station

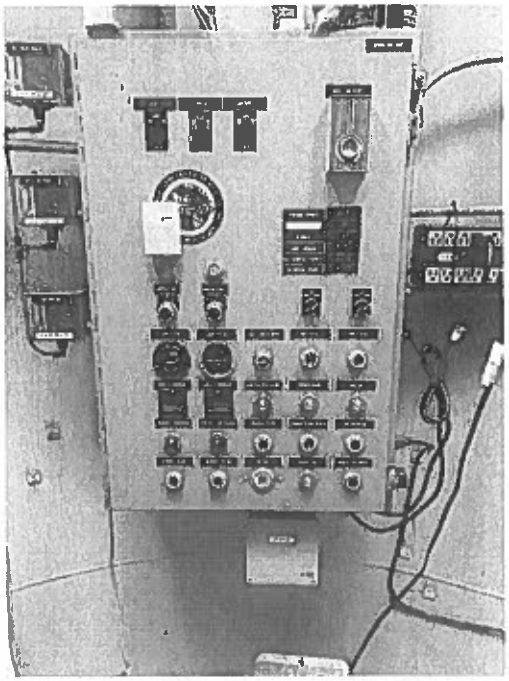
Marilyn Road Station – looking from ground elevation down through the access manway



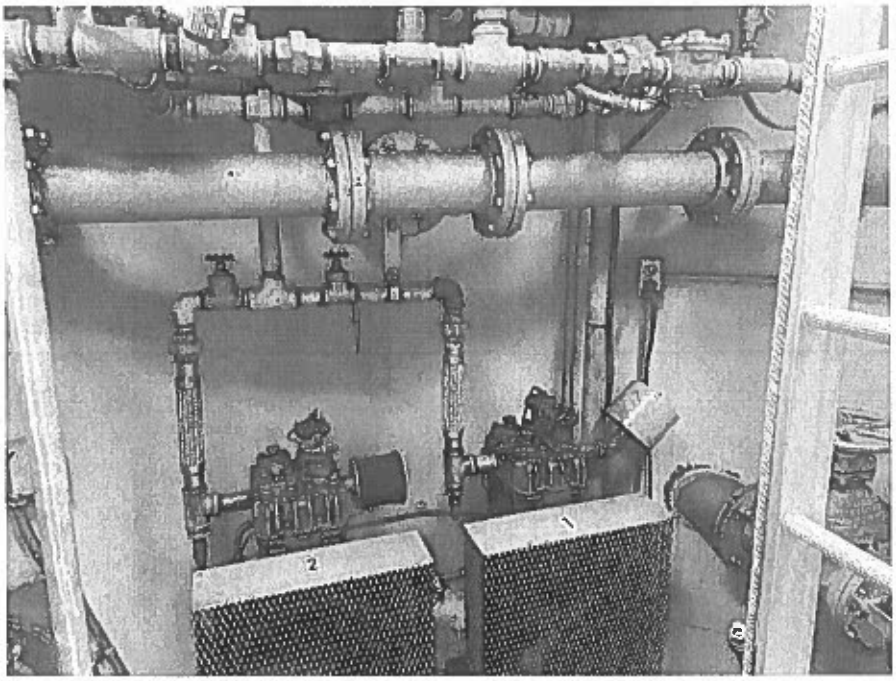
Marilyn Road Station, looking up to ground elevation.



Marilyn Road Station Air Ejector 1



Marilyn Road Station Control Panel



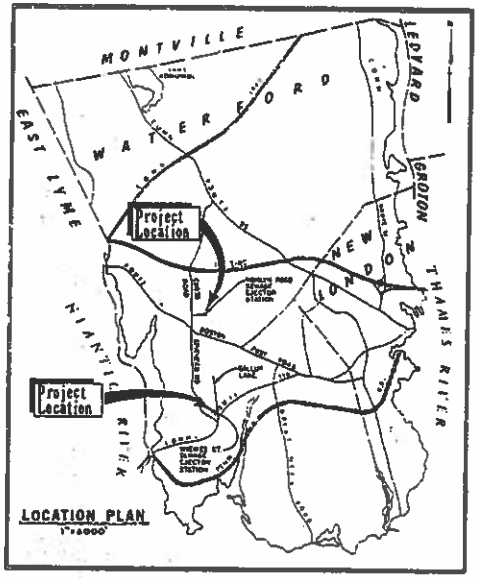
Marilyn Road Station Air Compressors

WATER AND SEWER COMMISSION

TOWN OF WATERFORD CONNECTICUT
SEWAGE WORKS CONSTRUCTION PROGRAM
CONTRACT 13B
CENTRAL WATERFORD LATERAL SEWERS
AND
ROADWAY RECONSTRUCTION

U.S. ENVIRONMENTAL PROTECTION AGENCY
PROJECT C09017401 & C09036501

WIEMES COURT AND MARILYN ROAD EJECTOR STATIONS



BOARD OF SELECTMEN

LAWRENCE J. BETTENCOURT, First Selectman
RALPH N. MADARA
WILLIAM HENDERSON III

WATER AND SEWER COMMISSION

CHARLES N. CORRADO, Chairman
WOLFGANG FISCHER
PAUL J. PARULIS
CHARLES E. ROWLAND
PAUL A. SUPRIN

INDEX OF DRAWINGS

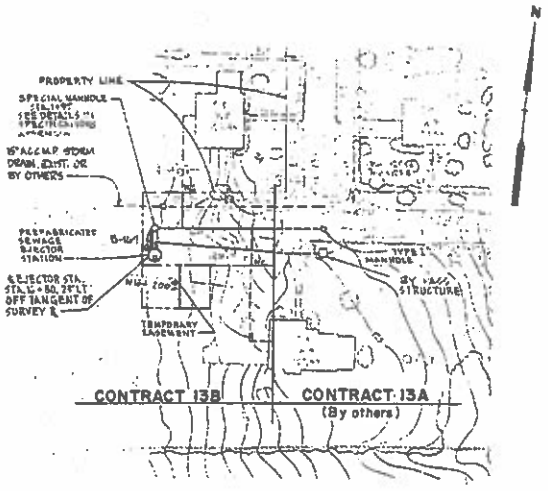
No.	Description
13B-1	GENERAL NOTES, LEGEND & DETAILS
13B-2	MISCELLANEOUS DETAILS
13B-3	WIEMES COURT SEWAGE EJECTOR STATION AND ROAD RECONSTRUCTION
13B-4	MARILYN ROAD SEWAGE EJECTOR STATION
13B-5	ELECTRICAL-GENERAL DETAILS

WATER COMPLIANCE
Dept. of Environmental Protection
RECEIVED
OCT 2 1981

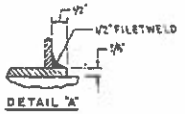
HH&B HAYDEN, HARDING & BUCHANAN, INC.
Consulting Engineers - Boston, Massachusetts

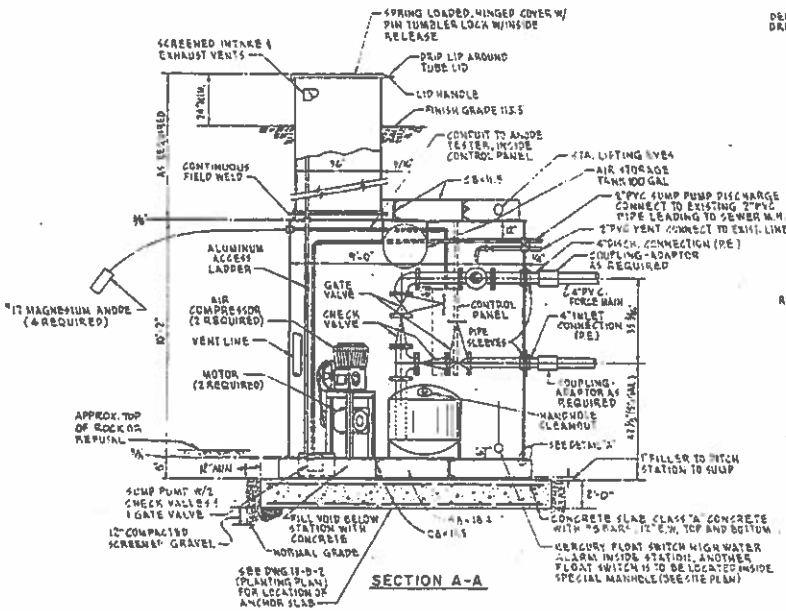
#13B

SEPTEMBER, 1981

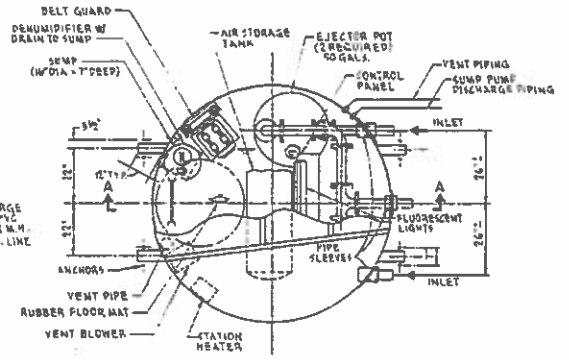


PLAN
SCALE: 1" = 40'
SEE PROPOSED SITE PLAN

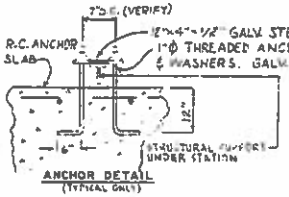




SECTION A-A

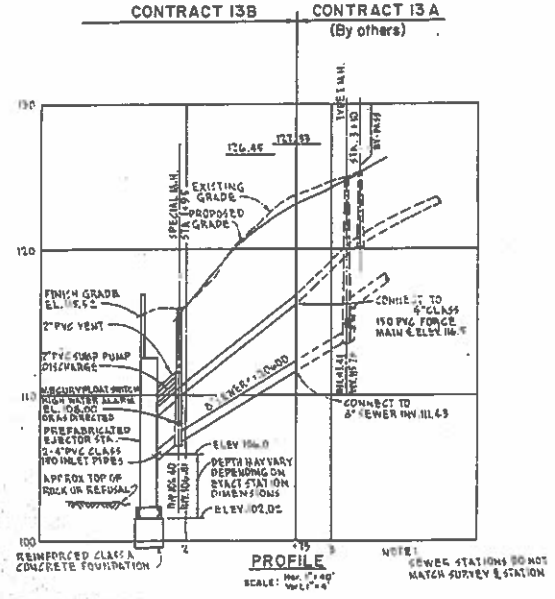


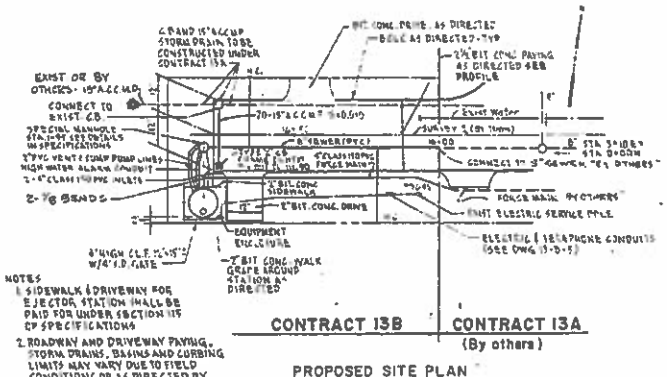
PLAN VIEW



ANCHOR DETAIL
(TYPICAL ONLY)

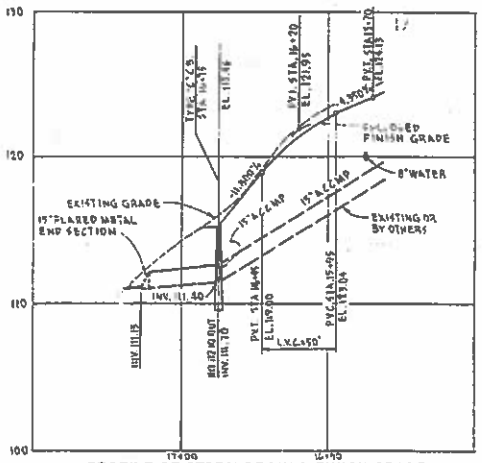
STATION REQUIREMENTS
45 GPM @ 50 TDH
COMPRESSOR MOTORS: 3 HP
SINGLE PHASE - SEE SPECIFICATIONS.





NOTES
1. SIDEWALK & DRIVEWAY FOR EJECTOR STATION SHALL BE PAID FOR UNDER SECTION 115 OF SPECIFICATIONS
2. ROADWAY AND DRIVEWAY PAVING, STORM DRAINS, BASINS AND CURBING LIMITS MAY VARY DUE TO FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.

PROPOSED SITE PLAN
SCALE 1" = 20'



PROFILE OF STORM DRAIN & FINISH GRADE
SCALE: Hor. 1" = 40' Vert. 1" = 4'

No.	DATE	REVISION

DRAWN J.F.H.
DESIGNED M.J.A.
CHECKED M.J.A.
APPROVED W.H.O.

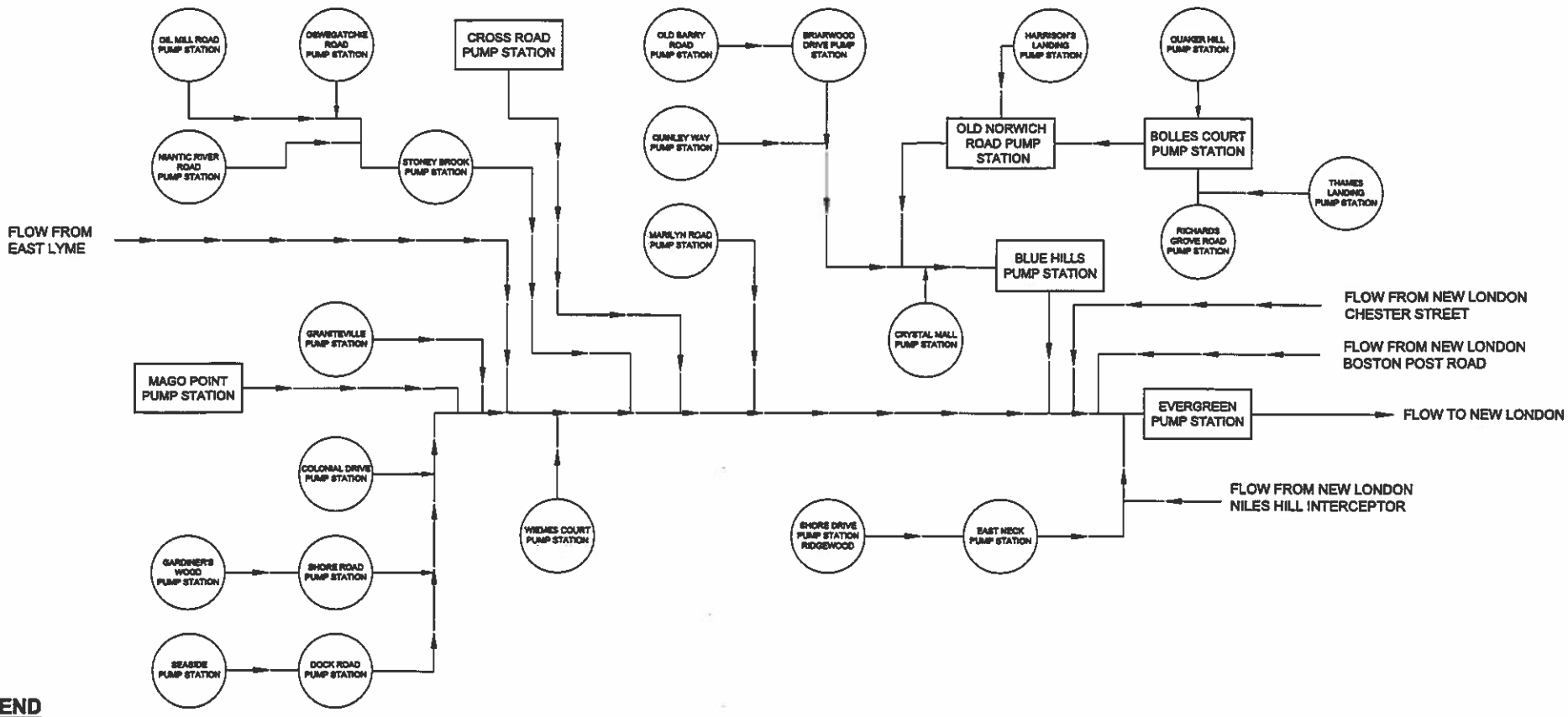
SCALE AS NOTED
DATE JUNE 1981

HAYDEN, HARDING & BUCHANAN, INC.
Consulting Engineers Boston, Massachusetts

WATER AND SEWER COMMISSION
WATERFORD CONNECTICUT
SEWAGE WORKS CONSTRUCTION PROGRAM

CONSTRUCTION CONTRACT 13B
CENTRAL WATERFORD LATERAL SEWERS
WIEMES COURT SEWAGE EJECTOR STATION AND ROAD RECONSTRUCTION

DRAWING NO. 13-B-3
75204



LEGEND

PACKAGED PUMP STATION

CAST-IN-PLACE STATION

WATERFORD UTILITY COMMISSION
TOWN OF WATERFORD, CT
WASTEWATER PUMP STATION SCHEMATIC

DETAIL

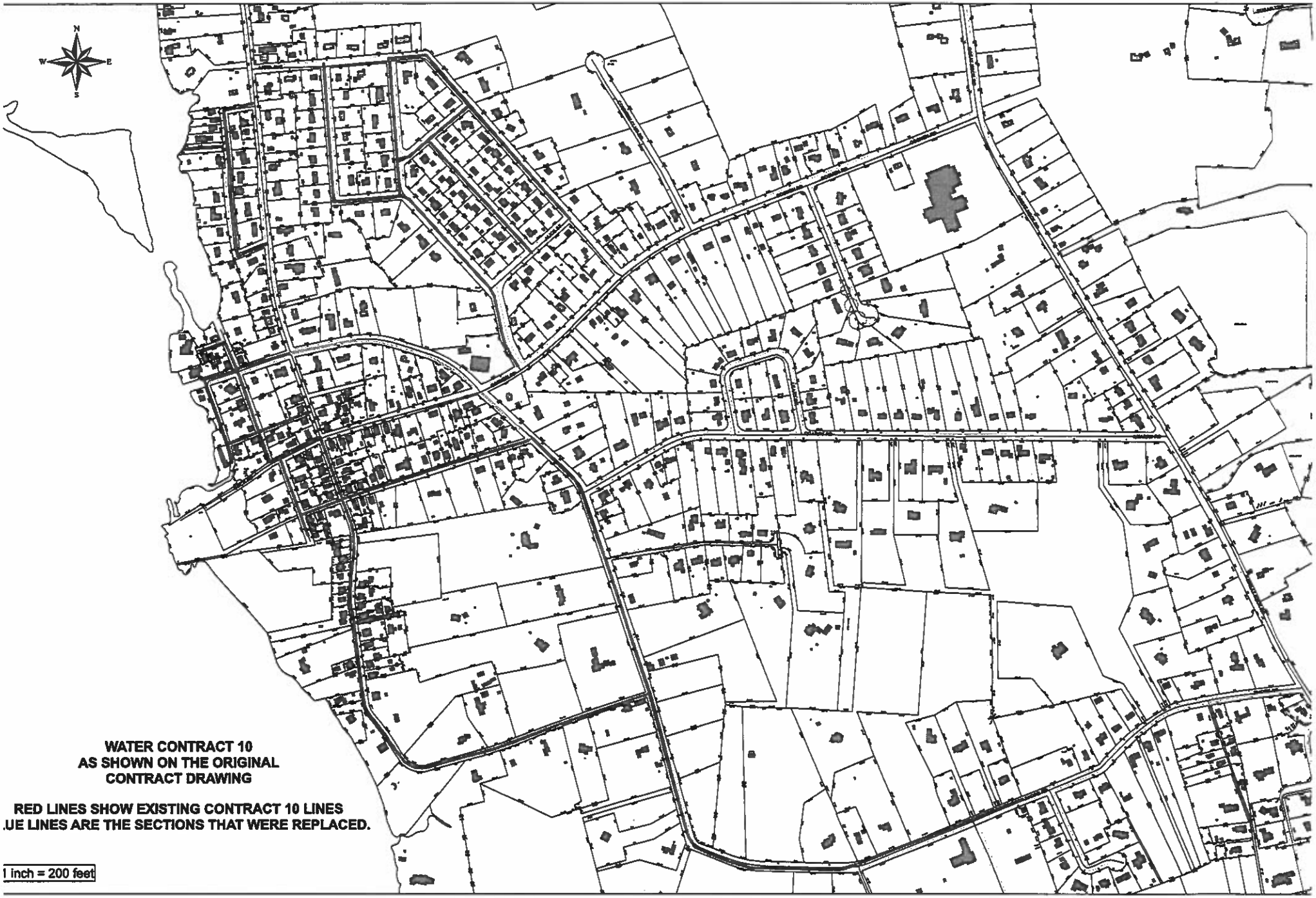
DATE: MAR 2023

TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM
2024-2025 FISCAL YEAR REQUEST

DEPARTMENT/AGENCY Utility Commission	**CONTACT PERSON** James A. Bartelli Director
PROJECT NAME Pleasure Beach Area Water Main Replacement	**DEPARTMENT PRIORITY** 9

1	**DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)**
	This funding request is associated with a program that was initiated around 2005 with the intention of replacing water mains in the Pleasure Beach area known as Water Contract #10 which consisted of 20,316 LF of 8" pipe. This contract area has experienced a significant number of main breaks. DPW has held off paving this area to avoid causing more breaks. To date, we have replaced 1,468 feet of main, and 18,848 LF of the old main remain. Funds are being requested for future years to replace approximately 6,300 LF/Yr. at a current average costs of $150/LF . This project will enhance the reliability of the distribution system and create assurances that the roads within the contract area can be repaved without causing a main break and creating an adverse condition to a newly paved road.
2	**PROJECT STATUS IF IN PROGRESS**
3	**LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST**
	The Department of Public Works has been apprehensive to repave the roads within this area due to the likelihood of additional main breaks occurring as a result of the paving process.
4	**DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)**
	O&M of the Water system is the responsibility of the City of New London. Waterford is responsible for all Capital Improvements
5	**GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)**
	Based on priorities, CT DPH State Revolving Fund Loans.
6	**ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)**
	Costs estimate is based upon an regional average construction cost of $150.00/LF
7	**COST/FUNDING SOURCE**

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2025	FY2026	FY2027	FY2028	FY2029
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR			706,800	706,800	706,800	706,800
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	**0**	**0**	**706,800**	**706,800**	**706,800**	**706,800**


N
W
E
S
WATER CONTRACT 10
AS SHOWN ON THE ORIGINAL
CONTRACT DRAWING
RED LINES SHOW EXISTING CONTRACT 10 LINES
.UE LINES ARE THE SECTIONS THAT WERE REPLACED.
1 inch = 200 feet

TOWN OF WATERFORD
FLEET MANAGEMENT PLAN - VEHICLES
FISCAL YEARS 2024 - 2028

TOTAL NO. OF 158 **Approved 5.10.2023**

													Number Vehicles to be Replaced	7	16	12	7	8			
													Total Budget	963,295	3,832,469	1,221,142	1,285,109	946,445			
FLEET Asset ID	TOWN Asset ID	License Plate No	DO NOT REPL	Agency Name	Vehicle Assigned to:	Repl. Cycle in Years	Class Description	Asset Model Year	In-Service Date	Gross Vehicle Cost	Manuf.	Model	Serial #	2024	2025	2026	2027	2028	Current Mileage For Usage Hours	Total Repair Costs to date	COMMENTS
BOE1	009800	24WFD		Board of Ed	Maintenance (Kyle Stoddard)	10	PICK UP	2022	07/20/22	$68,324	Ford	F-350	1FDRF3B63NEE25324								
BOE11 (old)				Board of Ed		10					KAWASAKI	MULE OFF ROAD UTILITY VEHICLE	JK1AFDA122B5977						63,927		
BOE12	900168	AG59829		Board of Ed		5	7-Passenger Mini-Van	2019	09/11/19	$21,743	Dodge	Caravan 4-Wheel Drive Wagon	2C4RDGBG9KR884913						175,259	5,482.42	
BOE13	900135	32WFD		Board of Ed		5	7-Passenger Mini-Van	2017	05/19/18		Dodge	Caravan 4-Wheel Drive Wagon	2C4RDGBG2HR894588							176.55	
BOE14	900204	52WFD		Board of Ed		8	7-Passenger Mini-Van	2019	03/20/20	$21,294	Dodge	Grand Caravan	2C4RDGBG9KR782990								
BOE15		Temp Plate		Board of Ed		5	7-Passenger Mini-Van	2020	09/21/21	$26,201	Chrysler	Voyager Van	XC4RC1GXLR152708								Out to bid for FY22
BOE2 (old)	009877		DNR	Board of Ed		10	VAN	2005	04/21/05	$28,058	Ford	ECONOLINE	1FDWE35L75HA78382								3/4/21 - BOE approved as surplus
BOE2	BOE2	23WFD		Board of Ed	Maintenance (Tom Thurlow)	10	EXPRESS VAN (BOX TRUCK)	2020	11/10/20	$44,445	Chevrolet	Express Van	1HA6GVCG0LN009180								
BOE3	900009	25WFD		Board of Ed	Maintenance (Jon Tillinghast)	10	PICK UP	2013	11/04/13	$48,104	GMC	Sierra K2500	1GD322CG1DF186536			58,261			48,085	1,295.82	
BOE4	009923	26WFD		Board of Ed	Maintenance (Bryan Swanson)	10	PICK UP	2013	11/30/12	$42,283	Ford	F350	1FTRF3B65DEB84702						43,000	139.99	
BOE5	009850	27WFD		Board of Ed	(Kevin VanCleave)	10	VAN	2011	01/20/11	$18,425	Ford	E250 Van	1FTNE2EW3BDA45360		31,300				84,980	1,120.83	
BOE6	900132	28WFD		Board of Ed	Maintenance (Dan Santos)	10	PICK UP	2018	05/09/18	$48,096	Chevrolet	SILVERADO 4WD CREW CAB	1GC0KYEGXJZ309213								
BOE7	900038	29WFD		Board of Ed	Maintenance (Steve Kowalski)	10	PICK UP	2015	12/31/14	$44,399	Chevrolet	Silverado K350	1GC0KYCG9FZ309430		59,200				22,464	3,695.21	
BOE8	009822	30WFD		Board of Ed	Maintenance (Dan Morris)	10	MEDIUM DUTY DUMP	2012	12/20/12	$52,799	Ford	F350 PICK-UP	1FDRF3HE1CEB29942			55,375			39,578		
BOE9	900039	11TWFD		Board of Ed	Maintenance (Dan Kamerola)	10	PICK UP	2015	01/09/15	$46,037	Chevrolet	Silverado K350	1GB0KYEG7FZ519434				69,790		56,190		
W-61	101405	34BWFD		Cohanzie Fire Company		15	1500 GPM PUMPER (FIRE)	2016	04/11/16	$583,200	E-One	Custom Pumper (diesel)	4EN6AAAX2G1009630						22,864m/ 1961 hrs	25,865.00	
W-63	100215	34TWFD		Cohanzie Fire Company		25	BRUSH TRUCK (FIRE)	2008	05/12/08	$95,854	Ford	Super Duty F-550 (diesel)	1FDAW57R28EA35364						10,286m/ 1378 hrs	2,843.00	
W-55	100579	34BWFD		Cohanzie Fire Company		20	LADDER/AERIAL (FIRE)	2004	12/28/04	$550,446	SUTPHEN	Ladder Truck (diesel)	1S9A7LLD442003078		1,900,000				39,808m/ 4609 hrs	130,590.00	
W-58	101012	34BWFD		Cohanzie Fire Company		15	UTILITY UNIT (FIRE)	2011	10/12/12	$47,426	Ford	F350 (diesel)	1FT8W3BT8BEA81633			73,000			52,137	4,825.00	
W-57	101011	35BWFD		Cohanzie Fire Company		20	SPECIALTY UNIT (FIRE)	2010	12/05/10	$311,993	Ferrara Igniter Custom	Rescue Truck (diesel)	1F9S932BAH149756						148,786m/ 2312 hrs	27,764.00	
W-18	101815	35AWFD		Jordan Company		12	UTILITY UNIT (FIRE)	2018	03/01/18	$48,368	Ford	F350 4x4 crew cab	1FT8W3B68JEC10625						21,712m/ 1100	-	
Car 115 (Q115)	101364	11BWFD		FIRE MARSHAL	Fire Marshall (Schiltz)	8	SUV	2015	06/19/15	$33,333	Ford	Explorer	1FM5K8AR5FGB52372						36,500	517.00	
Car 55 (Q55)	101200	6SWFD		FIRE MARSHAL	Fire Inspector (Dubicki)	10	PICKUP AND JEEP (FIRE)	2013	11/16/12	$31,630	Ford	F150 PICKUP (with cap)	1FTFW1EF2DKD31481		62,000				110,000	3,469.00	
Car 85 (Q85)	101499	86 WFD		FIRE MARSHAL	Director of Fire Services (Howley)	8	SUV	2016	02/29/16	$43,994	Ford	EXPEDITION	1FMJU1JT8GEF29956		63,000				106,500	3,001.00	
NEW				FIRE SERVICES	Director of Fire Services (Howley)	15										60,000			0	-	
A1	101381	1-WFD		FIRST SELECTMAN	First Selectman (Bruis)	8	SUV	2016	10/20/15	$33,654	Ford	Explorer	1FM5K8AR7GGB18608						73,000	3,322.82	Reassigned from Car20 on 11/19/21

TOWN OF WATERFORD
FLEET MANAGEMENT PLAN - VEHICLES
FISCAL YEARS 2024 - 2028

TOTAL NO. OF 158 **Approved 5.10.2023**

														Number Vehicles to be Replaced	7	16	12	7	8			
														Total Budget	963,295	3,833,488	1,221,143	1,295,108	946,445			
FLEET Asset ID	TOWN Asset ID	License Plate No.	DO NOT REPL	Agency Name	Vehicle Assigned to:	Repl. Cycle in Years	Class Description	Asset Model Year	In-Service Date	Gross Vehicle Cost	Manuf.	Model	Serial #	2024	2025	2026	2027	2028	Current Mileage / Usage Hours	Total Repair Costs to date	COMMENTS
W-31	101238	30WFD		Goshen Fire Company		18	1500 GPM PUMPER (FIRE)	2014	07/25/13	$486,626	KME Custom	Pumper (diesel)	1K9AF4291EN099620						14,709m/ 1344 hrs	20,119.00	
W-32	100293	33WFD		Goshen Fire Company		18	1500 GPM PUMPER (FIRE)	1998	02/23/99	$307,835	Spartan	1,500 GPM Pumper (diesel)	4S7AT4160WC028143						30,518m/ 4139 hrs	46,174.00	
W-34	101127	133WFD		Goshen Fire Company		20	UTILITY UNIT (FIRE)	2012	03/01/12	$55,114	Ford	F450 (diesel)	1FDUF4HT2CEA51122						8,769 m/ hrs	2,478.00	
W-36	100310	335WFD		Goshen Fire Company		20	UTILITY UNIT (FIRE)	2007	06/29/06	$39,873	Ford	F350 xlcbue (diesel)	1FTWW31P17EA87953				72,000		50,181m/ 3245	28,319.00	
W-80	100378	N/A		Goshen Fire Company		30	BOAT (FIRE)	2007	06/29/07	$103,334	Lake Assault	24' Landing Craft	UX00FE093707						1123/931	11,410.00	
W-84		N/A		Goshen Fire Company		20	ATV EMS Utility Unit												218m/ 20 hrs	-	
W-11	101321	20WFD		Jordan Fire Company		18	1500 GPM PUMPER (FIRE)	2014	12/05/14	$458,480	Typhoon	1,500 GPM Pumper (diesel)	4EN6AAA66E1008750						31,748m/ 2733 hrs	34,021.00	
W-15	101536	1484		Jordan Fire Company		20	TOWER LADDER/AERIAL (FIRE)	2016	07/25/17	$998,854	Pierce	Arrow XT Ladder Truck (diesel)	4P1BCAGF1GA016140						27,088m/ 2291 hrs	63,810.00	
W-41	101809	241WFD		Cowegatchie Fire Company		18	1500 GPM PUMPER (FIRE)	2018	07/1/205	$337,295	Spartan	Pumper (diesel)	4S7CT2C93JC065317						7,827ml / 678 hrs	11,001.00	
W-42	100433	242WFD		Cowegatchie Fire Company		25	1500 GPM PUMPER (FIRE)	2007	05/14/08	$416,799	Sawayya	1,500 Marauder Pumper (diesel)	1F9E3281X7C672181						37,941m/ 3987 hrs	99,195.00	Refurbished in FY2022.
W-43	100298	243WFD		Cowegatchie Fire Company		25	BRUSH TRUCK (FIRE)	2006	06/06/06	$125,245	Ford	F350 Brush Truck (diesel)	1FDAX57P66ED01782			220,208			12,160m/ 1182 hrs	13,820.00	
W-48		248WFD		Cowegatchie Fire Company		12	UTILITY UNIT (FIRE)	2020	12/18/20	$59,841	Ford	F-250 (Gas) Pick-Up	1FTBW2B66LED06828						11,143m/ 421 hrs	840.00	
ATV 1	100434			POLICE		12	ALL TERRAIN VEHICLE	2007	06/13/06	$5,845	KAWASAKI	MULE OFF ROAD UTILITY VEHICLE	JK1AFEA127B534391							674.73	
ATV 2	101518	34737		POLICE		10	ALL TERRAIN VEHICLE	2017	06/14/17	$9,044	POLARIS	A17SEA87A5 ATV	4XASEAE71HA971834							974.52	
ATV 3	101517	09571		POLICE		10	VEHICLE	2017	06/14/17	$9,044	POLARIS	A17SEA87A5 ATV	4XASEAE71HA969537			48,822				1,079.93	
CAR 1	101888	377MHN		POLICE	Patrol	10	SUV	2020	04/06/20	$51,367	Chevrolet	Tahoe	1GNSKDEC3LR378340						53,186 mi	2,448.49	
CAR 10	101972	10WFD		POLICE	Patrol	8	SUV	2021	03/11/21	$48,005	FORD	Interceptor Utility	1FMSK8AB4MGA64582						14,052	866.67	
CAR 101		54WFD	DNR	POLICE	Special Use	0	Do Not Replace	1985	04/29/13	Donated	Humvee	1 1/4-ton Utility Vehicle (Military Surplus)	211418						36,997	1,187.96	Do Not Replace (need military approval under 1033 before surplussing)
CAR 11	101973	11WFD		POLICE	Patrol	8	SUV	2021	03/11/21	$48,005	FORD	Incepter Utility	1FMSK8AB8MGA64583						31,917	1,444.84	
CAR 12	101858	12WFD		POLICE	Patrol	8	CRUISER	2019	02/27/19	$35,422	Ford	Invasion Sedan	1FAHP2MK0KG106445	65,094					93,422 mi/ 11,663hrs	4,890.00	
CAR 13	101974	13WFD		POLICE	Patrol	8	SUV	2021	03/11/21	$48,005	Ford	Incepter Utility	1FMSK8AB8MGA64584						56,925	728.44	
CAR 14	101277	14WFD		POLICE	Patrol	8	CRUISER	2014	06/06/14	$29,690	Chevrolet	Caprice	6G3H5R37EL662766					45,822	79,177	10,822.00	ON ORDER
CAR 15	101505	AG43371		POLICE	Traffic Officer	8	Pick -up Truck	2017	01/25/17	$40,007	Chevrolet	Silverado	3GCUYNEC4HG276086		51,000				51,941	2,848.96	
CAR 16	101888	16WFD		POLICE	Patrol	8	SUV	2020	04/01/20	$52,486	Chevrolet	Tahoe	1GNSKDEC4LR278122						32,486	783.29	
CAR 17	101807	17WFD		POLICE	Patrol	8	SUV	2019	04/25/19	$45,813	Ford	Explorer	1FMSK8AR8KGB14398	65,094					72,913 mi/ 10,781hrs	3,619.00	
CAR 18	101808	18WFD		POLICE	Patrol	8	CAR	2019	04/25/19	$45,813	Ford	Incepter Sedan	1FMSK8AR8KGB14400		65,094				100,378 mi/ 13,087hrs	6,015.00	
CAR 19	101975	19WFD		POLICE	Patrol	8	SUV	2021	03/11/21	$48,005	Ford	Incepter Utility	1FMSK8AB3MGA64585						33,341	390.33	
CAR 20	101861	AB39063		POLICE	Chief	8	SUV	2022	10/07/22	$34,149	Ford	Incepter Utility	1FMSK8AB8HGB78552								New vehicle for PD Chief - old one reassigned to A1. Approved for FY22 purchase on 1/26/22.
CAR 4 (old)	101120	21WFD		POLICE	Patrol	8	SUV	2011	11/14/11	$28,553	Ford	EXPEDITION	1FMJU1G53BEF53999						70,068m/ 3963hrs	8,902.81	
CAR 4 (new)	101120	21WFD		POLICE	Patrol	8	SUV	2022	07/1/2022	$34,685	Ford	Incepter Utility	1FMSK8AB3HGA27535						70,068m/ 3963hrs	8,902.81	Replacement on Order
CAR 22	101522	22WFD		POLICE	Patrol (Road Jobs only)	8	SUV	2015	11/13/14	$26,165	Ford	Explorer Police AWD	1FMSK8AR7FGA84448						133,776m/ 18,369hrs	10,562.23	
CAR 23	101807	AG73330		POLICE	Investigations	8	CAR	2017	01/31/17	$30,442	Ford	EXPLORER	1FMSK8AR5HGB19275						1264Hrs	117.84	
CAR 24	101522	AZ76023		POLICE	Investigations	8	CAR	2011		$23,875	Ford	Utility Interceptor AWD	1FAHP2HW1BG146802						6177m/ 316hrs		

TOWN OF WATERFORD
FLEET MANAGEMENT PLAN - VEHICLES
FISCAL YEARS 2024 - 2028

TOTAL NO. OF 158 **Approved 5.10.2023**

													Number Vehicles to be Replaced	7	16	12	7	8			
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FLEET Asset ID	TOWN Asset ID	License Plate No.	DO NOT REPL	Agency Name	Vehicle Assigned to:	Repl. Cycle in Years	Class Description	Asset Model Year	In-Service Date	Gross Vehicle Cost	Manuf.	Model	Serial #	2024	2025	2026	2027	2028	Current Mileage or Usage Hours	Total Repair Costs to date	COMMENTS
CAR 26		536UTH		POLICE		8	SUV	2014	07/07/14	$28,175	Ford	Interceptor Utility	1FM5K8AR9EGA8098	51,834					68,827 mi/ 3,357hrs	3,277.00	
CAR 25	101294	562UTH		POLICE	Lieutenants	8	SUV	2023	05/03/23	$47,899	Ford	Utility Interceptor AWD (EXPLORER)	1FM5K8AB4PGA0414								
CAR 27	101474	872PJK		POLICE	Investigators	8	SUV	2017	10/17/16	$34,593	Ford	Explorer Police AWD	1FM5K8ARBHGA79474						1858hrs	1,906.48	
CAR 28	101319	849MJP7		POLICE	Investigators	8	SUV	2015	10/07/14	$26,384	Ford	Explorer Police AWD	1FM5K8ARBFGA85099		48,000				2573hrs	2,472.69	
CAR 29	101275	835GHH		POLICE	Patrol	6	CRUISER	2014	05/13/14	$26,185	Chevrolet	Caprice	6G3N5R534EL858199		66,594				108,129 mi/ 4,501hrs	3,417.00	
CAR 3	101067	3WFD		POLICE	Patrol (K9)	8	SUV	2018	04/18/18	$44,862	Ford	Utility Interceptor AWD	1FM5K8AR7JGA84998						67,801m/ 5728hrs	4,974.79	
CAR 30	101595	199MCM		POLICE	Investigators	8	SUV	2019	03/18/19	$36,861	Ford	Utility Interceptor AWD	1FM5K8AR9JGA84987						28,054m/ 2699hrs	1,012.94	
CAR 31	101300	A838699		POLICE	Lieutenants	8	SUV	2018	10/30/18	$33,977	Ford	Explorer Police AWD	1FM5K8AR9GGB19609		51,834				76,649 mi/ 4,292hrs	2,188.00	
CAR 32	101253	32WFD	DNR	POLICE		10	VAN	2013	11/06/13	$89,035	Ford	Gosheh Coach Pass. Bus	1FDEE3FS8DDB28948						91,893		BOS approved reassignment to PD - 8/20/22
CAR 34	101693	931PHE		POLICE	Detective Sergeants	8	SUV	2020	09/10/20	$33,254	Ford	Explorer	1FM5K8AB5LGB66362						158,028		
CAR 21	101422	4WFD		POLICE	Patrol Supervisors	8	SUV	2022	03/16/22	$52,962	Ford	Interceptor Utility	1FM5K8AB3NGA27430						100,187m/ 18,892hrs	11,835.81	Replacement Car on Order
CAR 8	101971	2WFD		POLICE	Patrol	8	SUV	2021	03/11/21	$46,005	Ford	Interceptor Utility	1FM5K8AB2MGA44581						1697hrs	536.66	
CAR 6	101634	6WFD		POLICE	Patrol Supervisors	8	SUV	2019	10/04/19	$45,372	Chevrolet	Tahoe	1GNSKDEC0KR282402							5,883.34	ON ORDER
CAR 7	101403	7WFD		POLICE	Patrol (K9)	8	SUV	2018	04/04/18	$48,719	Ford	Explorer Police AWD	1FM5K8AR9GGB59112	65,394					100,687 mi/ 13,052 hrs	16,802.00	
CAR 8	101887	8WFD		POLICE	Patrol	8	SUV	2020	04/01/20	$55,196	Chevrolet	Tahoe	1GNSKDEC5LR279486						25,699m/ 3180 hrs	2,313.07	* Replacement $55,223.79 MINUS Ins. Reimbursement $11,792.00
CAR 9	101887	9WFD		POLICE	Patrol	6	CRUISER	2019	03/25/19	$25,075	Ford	Taurus Interceptor Sedan	1FAHP2MK2KG109444	65,914					94,883 mi/ 11,863hrs	7,453.00	
CV1	101421	11BWFD	DNR	POLICE	Special Use (Critical Incident)	0	Do Not Replace	1998	08/23/98	$128,869	Ford	E450 Command Vehicle (diesel)	1FDXE40F2WHB82570								
PD2	101128	N/A		POLICE		30	Boat (Police)	2012	01/03/12	$453,578	Sea Ark Marine 2810V	Patrol BOAT AND PROPULSION PKG	SAMA2828H111								
A20	101197	104-WFD		BOE	Courier	10	CAR - HYBRID	2012	08/18/12	$27,238	Ford	Fusion Hybrid	3FADP0L31CR332157			28,949			114,430	7,455.42	vehicle reassigned from A1 on 11/15/21
A19	100295	119WFD	DNR	PUBLIC WORKS	Loaner	0	Do Not Replace	2008		$23,858	Ford	CROWN VICTORIA	2FAHP71W98X132239						76,201	4,397.48	
A8	9204031999	108WFD	DNR	PUBLIC WORKS	Asst Director (Matheson)	0	Do Not Replace	2001	12/06/00	$22,523	JEEP	CHEROKEE	1J4FF48S91L269999						109,254	17,995.79	
A2	100508	45WFD	DNR	PUBLIC WORKS	Director (Schnaider)	0	Do Not Replace	2009	02/11/09	$19,090	Ford	ESCAPE	1FMCU52778KB46666						97,470	5,853.66	
H11	101629	78WFD		PUBLIC WORKS		14	PICK UP	2019	11/13/19	$40,640	Ford	F-350 4x4	1FTRF3B66KEG34780						31,398	3,236.34	
H12	9204031609	80WFD		PUBLIC WORKS		14	PICK UP	2003	01/02/03	$36,900	Ford	F450 4x2	1FDXF46F63EB17692		185,979				63,905mi	13,162.84	moved out 2 years by committee approval (repaired to extend life), 7/8/21
H13	101257	79WFD		PUBLIC WORKS		14	PICK UP	2014	12/05/13	$33,999	Chevrolet	Silverado K250	1GC0KVCG3EF154607						62,185	11,701.72	
H14	101340	32WFD		PUBLIC WORKS		15	MEDIUM DUTY DUMP	2015	02/09/15	$140,270	International	4300 SBA Tarco T2000 S/S	1HTMMAAL8FH734287		225,000				35,942	27,199.31	
H15	101344	12WFD		PUBLIC WORKS		15	MEDIUM DUTY DUMP	2015	03/27/15	$140,270	International	4300 SBA Tarco T2000 S/S	1HTMMAAL3FH734286			225,000			37,225	30,383.68	
H16	101508	123WFD		PUBLIC WORKS		15	MEDIUM DUTY DUMP	2018	04/18/17	$171,827	FREIGHTLINER	114SD DUMP	1FVACWFC5JHJJ7757						21,895	10,871.02	
H17	101508	83WFD		PUBLIC WORKS		15	MEDIUM DUTY DUMP	2018	04/28/17	$171,827	FREIGHTLINER	114SD DUMP	1FVACWFC3JHJJ7756						24,809	11,747.42	
H18	100523	125WFD		PUBLIC WORKS		15	MEDIUM DUTY DUMP	2010	09/17/09	$103,117	International	4300 SBA Dump	1HTMMAAL8AH189778						81,359mi/ 5920hrs	66,241.49	

TOWN OF WATERFORD
FLEET MANAGEMENT PLAN - VEHICLES
FISCAL YEARS 2024 - 2028

TOTAL NO. OF 158 **Approved 5.10.2023**

														Number Vehicles to be Replaced	7	16	12	7	6			
														Total Budget	983,295	3,832,468	1,221,142	1,995,109	946,445			
FLEET Asset ID	TOWN Asset ID	License Plate No.	DO NOT REPL	Agency Name	Vehicle Assigned to:	Rep. Cycle in Years	Class Description	Asset Model Year	In-Service Date	Gross Vehicle Cost	Manuf.	Model	Serial #	2024	2025	2026	2027	2028	Current Mileage for Usage Hours	Total Repair Costs to date	COMMENTS
H19	101133	109WFD		PUBLIC WORKS		14	PICK UP	2012	03/16/12	$31,878	Ford	F350 4X4	1FTBF2B68CEA58587			65,000			136,056	20,694.49	
H24	92D4031529	89WFD		PUBLIC WORKS		18	SWEEPER	2003	10/15/02	$118,670	Elgin	PELICAN P SWEEPER	P-3928-S		280,000				5,855	90,790.81	moved out 2 years by committee approval (required to extend life), 7/9/21
H25	101904	97WFD		PUBLIC WORKS		18	SWEEPER	2018	03/13/17	$221,772	FREIGHTLINER	M2106 A7 Tornado Sweeper	1FVACXFC8JHJH1678				285,000		15,149	22,348.19	
H30	101311	87WFD		PUBLIC WORKS		20	5 TON DUMP TRUCK	2018	05/12/17	$173,857	FREIGHTLINER	114SD	1FVAG3FE5JHJH1112						41,840	20,701.95	
H31	101444	88WFD		PUBLIC WORKS		20	5 TON DUMP TRUCK	2017	09/05/16	$170,945	FREIGHTLINER	114SD	1FVAG3CY9HHJA1281				280,000		45,090	15,783.29	
H32	101445	85WFD		PUBLIC WORKS		20	5 TON DUMP TRUCK	2017	09/11/16	$170,945	FREIGHTLINER	114SD	1FVAG3CY3HHJA1282					280,000	11,311	14,281.27	
H34	101804	94WFD		PUBLIC WORKS		20	5 TON DUMP TRUCK	2019	03/21/19	$180,345	FREIGHTLINER	114SD	1FVAG3FE2KHJH1621						8,483	4,798.31	
H35	101199	92WFD		PUBLIC WORKS		20	6 TON DUMP TRUCK	2012	09/28/12	$186,892	International	DUMP/SPREADER WITH CRANE	1HTWDAZR9CH121003	272,695					52,182mi/ 6,604hrs	81,042.70	
H36	1001284	124WFD		PUBLIC WORKS		20	6 TON DUMP TRUCK	2014	03/04/14	$140,885	International	7400 SFA 4x2	1HTWDAAR2EH025219		272,695				62,806mi/ 4,499hrs	36,690.01	
H37	101283	131WFD		PUBLIC WORKS		20	6 TON DUMP TRUCK	2014	02/14/14	$140,885	International	7400 SFA 4x2	1HTWDAAR9EH025218				245,000		35,121	26,299.02	
H38	101282	130WFD		PUBLIC WORKS		20	6 TON DUMP TRUCK	2014	12/24/13	$140,885	International	7400 SFA 4x2 (with Tenco spreader)	1HTWDAAR9EH025220					245,000	36,604	22,712.05	
H39	100475	99WFD		PUBLIC WORKS		20	6 TON DUMP TRUCK	2009	07/23/08	$115,000	International	7400 SFA	1HTWDAAR29J077349						60,535mi/ 5239hrs	105,157.11	
H40	101098	97WFD		PUBLIC WORKS		20	5 TON DUMP TRUCK	2018	06/13/03	$176,826	FREIGHTLINER	114SD	1FVAG3FE8JHJG2767						15,875	4,992.81	
H50	100426	107WFD		PUBLIC WORKS		20	HOOKLIFT CHASSIS	2009	04/30/08	$83,890	International	7400 SBA 4x2 Sewer Vac	1HTWGAAR79J077348						5,524	8,453.84	
H-50V	100012	N/A		PUBLIC WORKS		10	Vac-All Body	2004	04/22/04	$128,898	Vac-All Body for H-50	LV10-C	N/A						1643 HRS	91,662.00	approved for surplus on 9/23/22
H50-1a		N/A		PUBLIC WORKS			16 YD BODY SLED	2022	07/28/22			SWAPLOADER SL222 PACKAGE	110505								
H50-1b		N/A		PUBLIC WORKS			FLAT BED SLED	2022	07/28/22			SWAPLOADER SL222 PACKAGE	113484								
H50-1c		N/A		PUBLIC WORKS			HOOKLIFT SLED	2022	07/28/22			SWAPLOADER SL222 PACKAGE	CH0089								
H50-1d		N/A		PUBLIC WORKS			SANDER SLED	2022	07/28/22		MONROE	SWAPLOADER SL222 PACKAGE	213727								
H50-1e		N/A		PUBLIC WORKS			CRANE SLED	2022	07/28/22		FASSI	SWAPLOADER SL222 PACKAGE	F145AZ								
H50-1f		N/A		PUBLIC WORKS			18" BODY	2022	07/28/22	$240,100	BEAUROC	SWAPLOADER SL222 PACKAGE	419977								
H50-1g		N/A		PUBLIC WORKS			12' MULTI PURPOSE BODY SLED	2022	07/28/22			SWAPLOADER SL222 PACKAGE	413296								
H51	100691	93WFD		PUBLIC WORKS		18	18-YEAR SPECIALTY UNIT	2010	06/04/10	$195,850	International	Model AL80 Aerial Lift / Hybrid	1HTMMAAR1AH247768					72,967	94,311	13,790.11	
H6	101830	81WFD		PUBLIC WORKS		14	PICK UP	2018	11/20/18	$40,840	Ford	F350 4X4	1FTRF3B61KEG24799						25,991	1,624.78	
H64	101595	87WFD		PUBLIC WORKS		20	LOADER	2017	07/25/17	$196,847	VOLVO	L80H LOADER WHEEL	VCEL80HC03923664						237	5,615.53	
H65	100681	89WFD		PUBLIC WORKS		20	LOADER	2004	09/07/04	$115,135	VOLVO	L90E LOADER	L90EV90799					230,000	11,943	35,152.48	
H9	101019	77WFD		PUBLIC WORKS		18	18-YEAR SPECIALTY UNIT	2011	11/24/10	$76,214	International	4300 SBA 4x2 w/Platform Body	1HTMMAAL8BH388342		130,000				98,186	16,867.09	
S20	101362	72WFD		PUBLIC WORKS		7	SIDE LOAD REFUSE	2016	8/11/2015	$290,299	PETERBILT	320 SIDE LOADER	3BPZLJ0X0GF100839	378,222					88,201mi/ 8,420 hrs	62,199.85	
S21	101363	84WFD		PUBLIC WORKS		7	SIDE LOAD REFUSE	2016	09/09/15	$290,299	PETERBILT	320 SIDE LOADER	3BPZLJ0X0GF100840		378,222				70,805mi/ 9,241 hrs	64,423.25	

TOWN OF WATERFORD
FLEET MANAGEMENT PLAN - VEHICLES
FISCAL YEARS 2024 - 2028

TOTAL NO. OF 158 **Approved 5.10.2023**

													Number Vehicles to be Replaced	7	16	12	7	8				
													Total Budget	963,285	3,832,488	1,721,142	1,285,109	946,445				
FLEET Asset ID	TOWN Asset ID	License Plate No	DO NOT REPL	Agency Name	Vehicle Assigned to:	Repl. Cycle in Years	Class Description	Asset Model Year	In-Service Date	Gross Vehicle Cost	Manuf.	Model	Serial #	2024	2025	2026	2027	2028	Current Mileage / or Usage Hours	Total Repair Costs to date	COMMENTS
S22	101529	71WFD		PUBLIC WORKS		7	SIDE LOAD REFUSE	2019	03/20/19	$251,842	PETERBILT	McNEILUS SIDE LOADER	3BPDLX0X9KF102586			350,000			36,285	27,679.15	
S23	100478	73WFD		PUBLIC WORKS		9	REAR LOAD RAFUSE	2009	09/17/09	$131,557	International	REFUSE PACKER	1HTWGAAT19J093039					35,000	37,307	13,909.69	
S24	100477	74WFD		PUBLIC WORKS		9	REAR LOAD RAFUSE	2009	09/18/09	$131,557	International	REFUSE PACKER	1HTWGAAT39J093031				350,000		42,932	33,842.78	
S25	101890	76WFD		PUBLIC WORKS		9	SIDE LOAD REFUSE	2022	09/17/20	$285,737	PETERBILT	McNEILUS SIDE LOADER	3BPDLX97LF109506						10,997	4,067.06	
S18		93WFD	DNR	PUBLIC WORKS		9	SIDE LOAD REFUSE	2011	03/03/11	$218,336	PETERBILT	McNEILUS SIDE LOADER	3BPZLS0X7BF120188						91,406	112,135.37	used as spare - will not be replaced
S26	101044	78WFD		PUBLIC WORKS		9	SIDE LOAD REFUSE	2021	12/01/21	$284,747	PETERBILT	MODEL 520	3BPDLX0X2MF112574						97,036	147,436.79	approved by committee for FY21, 78/21
S20	101395	89WFD		PUBLIC WORKS		15	SIDE LOAD REFUSE	2016	11/30/15	$223,725	PETERSUILT	DUMPSTER TRUCK	3BPZXJ0X2GF102983						63,083	35,480.06	
A10	101019	112WFD		PZ/BH	Environmental Planner	8	CAR	2011	11/18/10	$19,433	Ford	ESCAPE	1FMCU9C77BKA75910			33,329			29,565	2,912.32	
A3	100997	103WFD		PZ/BH	Planning & Zoning	8	CAR	2011	10/09/10	$19,639	Ford	FUSION	3FAHP0JG0BR129279				33,329		46,248	2,867.15	
A8	101196	129WFD		PZ/BH	Asst Building Official	8	CAR - HYBRID	2012	09/11/12	$27,239	Ford	FUSION HYBRID	3FADP0L36CR322155					33,329	23,972	1,836.10	
A7	101094	107WFD	DNR	PZ/BH	Building Official	8	CAR - HYBRID	2012	10/13/11	$26,929	Ford	FUSION HYBRID	3FADP0L30CR187268						81,308	2,809.16	DO NOT REPLACE
A9	101093	111WFD		PZ/BH	Asst Building Official	8	CAR - HYBRID	2012	10/13/11	$26,929	Ford	FUSION HYBRID	3FADP0L31CR187267					34,329	41,307	2,602.96	
W-21	100911	39WFD		Quaker Hill Fire Company		25	1500 GPM PUMPER (FIRE)	2006	10/02/06	$395,447	Ferrara	Igniter Custom Pumper (diesel)	1F9H47268H140373						34,287m/ 3392 hrs	52,483.00	
W-23	100937	1025		Quaker Hill Fire Company		25	BRUSH TRUCK (FIRE)	2006	07/01/06	$125,345	Ford	F550 Brush Truck (diesel)	1FDAX57P66ED61783						3,244m/ 1310 hrs	15,845.00	
W-25	101432	33TWFD		Quaker Hill Fire Company		18	1500 GPM PUMPER (FIRE)	2018	06/17/18	$773,695	Spartan	Gladiator Telesquirt Pumper (diesel)	4S7AV2E94FC060988						57,460m/ 3538 hrs	24,005.00	
A18	100216	33TWFD		SOC		12	UTILITY UNIT (FIRE)	2006	02/01/06	$44,079	Ford	F350 (diesel)	1FDWW31P76EB60910						64,800m/ 3373 hrs	6,232.00	reassigned from QH Fire Company on 12/2022
W-26		62WFD		Quaker Hill Fire Company		15															
R8	101438	34WFD		REC/PARKS	Director/Asst Director Shared Vehicle	14	PICK UP	2015	42,299.00	$37,990	Chevrolet	Silverado 1500 PU	1GCNKNEC8GZ302979						32,221.00	1,432.48	
R9	101844	109WFD		REC/PARKS		12	PICK UP	2020	2/21/2020	$52,199	Ford	F350 4x4	1FDRF3HB0LEC13931						13,122	1,090.39	
R10	101298	38WFD		REC/PARKS		14	PICK UP	2014	12/9/2013	$33,670	Chevrolet	Silverado K250	1GC0KVCG0EZ195367						64,992	16,493.37	
R11	101325	37WFD		REC/PARKS		14	PICK UP	2015	12/31/2014	$32,824	Chevrolet	340	1GB3KYCG9FF540956						15,804 mi	10,694.37	
R14 (new)		36WFD		REC/PARKS		12	MEDIUM DUTY DUMP	2022	10/12/2022	$63,625	Ford	F450 DUMP	1FDUF4HN1NEF07289								
R13	101835	100WFD		REC/PARKS		12	PICK UP	2020	2/9/2020	$42,013	Ford	F250 4x4 Pickup	1FTBF2B63LEC13911						9,970	1,995.39	
R16	101836	46WFD		REC/PARKS		12	PICK UP	2020	2/9/2020	$42,013	Ford	F250 4x4 Pickup	1FTBF2B65LEC13912						11,180	1,352.34	
R39	101449	31934		SR/CTZ		10	VAN	2017	09/14/16	$63,020	FORD	Goshen Coach Pass. Bus	1FDEE3FS1HDC04582						33,319		
R4	101631	28820		SR/CTZ		10	VAN	2019	10/16/18	$60,897	FORD	TRANSIT	1FDES8PM7KKB31919						7,420		

TOWN OF WATERFORD
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														Total Budget	965,295	1,832,488	1,221,142	1,265,109	946,448			
FLEET Asset ID	TOWN Asset ID	License Plate No.	DO NOT REPL	Agency Name	Vehicle Assigned to:	Repl. Cycle in Years	Class Description	Asset Model Year	In-Service Date	Gross Vehicle Cost	Manuf.	Model	Serial #	2024	2025	2026	2027	2028	Current Mileage/or Usage Hours	Total Repair Costs to date	COMMENTS
R6	101253	23WD		SRCTZ		10	VAN	2022	07/06/22	$65,023	Ford	Starcraft Bus	FDSE3PN2MDC36895								
S10	101045	70WFD		PUBLIC WORKS		15	SIDE LOAD REFUSE	2011	09/15/11	$219,336	PETERBILT	PECCAR 320	3BPZLSX00BF129167						83368	122,577.13	
H10 (OLDT1)	100201	150WFD	DNR	PUBLIC WORKS	Facilities (Paul Kvella)	14	Do Not Replace	2006	06/20/06	$35,855	Chevrolet	SILVERADO 2500	1GBHK24D06E231727						163,730		Reassigned from WUC 7/7/20
CAR 100		50WFD	DNR	WUC		0	Do Not Replace	1984	02/08/13	Donated	Hummer	1 1/4-ton Utility Vehicle (Military Surplus)	200130						Hummer		Do Not Replace (need military approval under 1033 before surplussing)
C1	101532	53WFD		WUC	Chief Engineer (Soto)/Asst Director (Bartell)	8	SUV	2017	06/30/17	$26,771	Ford	EXPLORER	1FM5K8B85HGC17124						83,656	1,378.74	
C2	101048	148WFD		WUC	Survey Party Chief (Lathrop)	8	SUV	2011	03/29/11	$26,771	Ford	EXPEDITION XLT 4x4	1FMJU1G51BEF26120						94,116	3,079.61	
C3	101137	122WFD		WUC	Sewer Maint Operators	20	20-YEAR SPECIALTY UNIT	2012	03/06/12	$78,619	International	7,500 SBA With Hi-Vac Attach	1HTWNAZR4CJ115205						10,918	11,404.55	
C3-A (Mounted on C-3)		N/A		WUC		10	Vac-All Body	2012	03/06/12	$163,857	AQUATECH	HI VAC ATTACHMENT	Model B-10						746.10 hrs		
C4	8284200883	81WFD		WUC	Sewer Maint Operators	20	5 TON DUMP TRUCK	1991	01/02/91	$104,011	Ford	L-9000	1FDYW82A8MVA06368						20,027	6,994.95	
(Mounted on C4)	101287	N/A		WUC		20		2012	06/05/12	$128,697	CUES CCTV	SEWER INSPECTION SYSTEM	N/A						CCTV		
C5	100715	336WFD	DNR	WUC	Asst Director (Bartell)	8	CRUISER	2010	11/30/09	$19,701	Ford	Taurus	1FAHP2DW1AG112586						107,672	5,794.97	
T1	101647	48WFD		WUC	Foreman (Clark)	14	PICK UP	2020	03/23/20	$36,086	FORD	F350 4x4	1FD8X3H69LEC31088						13,535	79.39	
T2	101262	49WFD		WUC	Sewer Tech II (Demello)	14	PICK UP	2011	07/27/11	$55,594	GMC	K-3500 SIERRA 4wd	1GD32ZCL8BF243396						94,830	12,574.42	
T3	101586	82WFD		WUC	Sewer Maint Operators	14	PICK UP	2018	01/11/18	$54,843	Chevrolet	Silverado 3500HD	1GB8KYCG3JZ174886						42,288	3,916.71	
NEW				WUC		20	DUMP TRUCK														
NEW				WUC		20	TRAILER														
NEW				WUC		20	BY-PASS MOBILE PUMP														
T4	101448	82WFD		WUC	Lead Maint Operator (Williams)	14	PICK UP	2018	09/28/18	$53,748	Chevrolet	Silverado 3500 w/body & equipment	1GB3KYCG4GZ220205							4,224.31	
T5 (old)	100280	109WFD	DNR	WUC		14	Do Not Replace	2006	09/20/06	$30,936	Ford	F-150	1FTPX14546NB57994						106,075	6,804.00	
T5	101884	46WFD		WUC		14	Pick UP	2020	12/01/20	$45,130	Ford	F-350 4wd	1FTRF3B68LEE03497						8,334	3,794.92	
T5	100219	129WFD	DNR	WUC		12	Do Not Replace	2006	01/23/06	$44,606	Ford	F350	1FDWW31P66EB00911						106,075	9,201.00	

TOWN OF WATERFORD
GENERAL FUND
2024 - 2025 PROPOSED BUDGET

DEPT/AGENCY: 10139 DEBT SERVICE

LINE ITEM	DESCRIPTION	2022/2023 ACTUAL EXPENDED	2023/2024 RTM APPROP.	2023/2024 ADDITIONAL/ TRANSFERS	ACTUAL EXPEND & ENCUMB AS OF 1/1/24	2024/2025 DEPT/ AGENCY REQUEST	2024/2025 APPROVED BD/COMM (11/8/23)	2024/2025 BD OF SELECTMEN APPROVED (2/6/24)	BOS Approved $ Increase	BOS Approved % Increase
PRINCIPAL & INTEREST										
56033	SCHOOLS ISSUE OF 2014 PRINCIPAL	845,000								
56034	SCHOOLS ISSUE OF 2014 INTEREST	25,350								
56035	2014 BOND REFUNDING - PRINCIPAL	830,000	825,000		825,000	835,000	835,000	835,000	10,000	1.21%
56036	2014 BOND REFUNDING - INTEREST	180,738	146,625		83,625	105,125	105,125	105,125	(41,500)	-28.30%
56037	2017 BOND REFUNDING - PRINCIPAL	1,055,000	1,070,000		1,070,000	1,085,000	1,085,000	1,085,000	15,000	1.40%
56038	2017 BOND REFUNDING - INTEREST	567,525	514,400		270,575	460,525	460,525	460,525	(53,875)	-10.47%
56039	2019 BOND REFUNDING PRINCIPAL	715,000	675,000		675,000	855,000	855,000	855,000	180,000	26.67%
56040	2019 BOND REFUNDING INTEREST	340,375	305,625		161,250	267,375	267,375	267,375	(38,250)	-12.52%
56042	2020 MUNICIPAL COMPLEX - PRINCIPAL	685,000	685,000		0	685,000	685,000	685,000	0	0.00%
56043	2020 MUNICIPAL COMPLEX - INTEREST	423,725	389,475		0	355,225	355,225	355,225	(34,250)	-8.79%
56044	2020 BOND REFUNDING - PRINCIPAL	1,180,000	3,195,000		3,195,000	3,135,000	3,135,000	3,135,000	(60,000)	-1.88%
56045	2020 BOND REFUNDING - INTEREST	349,747	342,125		174,018	326,496	326,496	326,496	(15,629)	-4.57%
DEPARTMENT TOTAL		7,197,460	8,148,250	0	6,454,468	8,109,746	8,109,746	8,109,746	(38,504)	-0.47%

BUDGET FUNCTION

The town typically incurs monetary debt in the form of long-term (20 year) bonds used as a funding source for long-term capital projects. The debt service budget defines the amount of both principal and interest that the town will pay its creditors (typically bondholders) in a given fiscal year.

The debt service budget can also be used to manage repayment of shorter-term multi-year debt. (Note that large capital projects may be funded by any combination of long term borrowing, general fund appropriations, short-term borrowing, grants, special assessments, special revenue fund appropriation, and donations to fully fund a given project. The debt service budget addresses borrowed funds.

References:

Charter Section 3.2.3 Capital Plans (First Selectman)

Ordinance 2.04.170 - Budget Preparation and Submission (RTM)

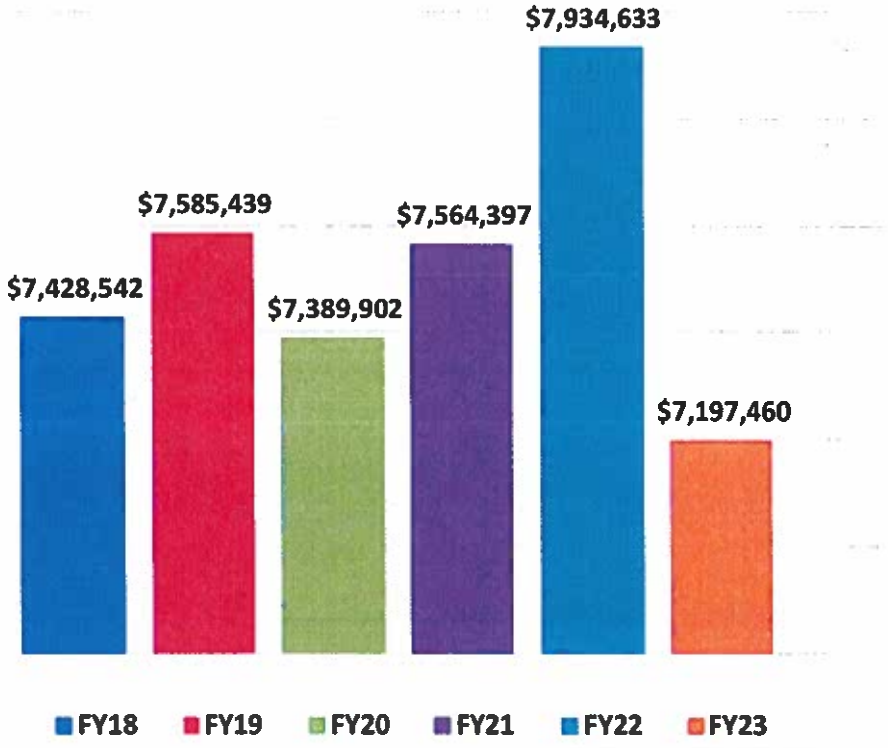
Ordinance 2.04.180 – Appropriations (RTM)

Conn Statutes: C.G.S.A. § 7-369 et seq.

BUDGET SUMMARY

The FY25 budget request is $38,504 (0.47%) lower than fiscal year 2024 due to reduced payments on outstanding bonds.

EXPENDITURE HISTORY



Statement of Debt Incurred, Outstanding Interest Maturities
General Government

Issue	Date of Issue	Maturity Date	Amount of Issue	Ave. Coupon	Outstanding as of 6/30/2024	Principal Due FY-2025	Interest Due FY-2025
2014 Refunding Bond Issue	Dec 2014	Aug. 2026	$9,440,000	4.529%	$2,520,000	$835,000	$105,125
2017 Refunding Bond Issue	Jun 2018	Aug 2030	$14,585,000	4.642%	$10,240,000	$1,085,000	$460,525
2019 Refunding Bond Issue	Dec 2019	Aug 2030	$9,085,000	4.494%	$6,340,000	$855,000	$267,375
2020 Municipal Complex	Jul 2020	Sept 2040	$13,655,000	2.260%	$11,600,000	$685,000	$355,225
2020 Refunding Bond Issue	Dec 2020	Aug 2033	$28,890,000	1.210%	$24,515,000	$3,135,000	$326,495
			$75,655,000		$55,215,000	$6,595,000	$1,514,745

Total FY25 Debt Service Payments **$8,109,745**

Town of Waterford

Bonded Debt History

Original Issues

2007 G.O. Bonds – Additions and Renovations to Clark Lane Middle School		$15,865,000
2009 G.O. Bonds – Additions and Renovations to Quaker Hill Elementary School		$ 8,500,000
2011 G.O. Bonds – Additions and Renovations to Oswegatchie Elementary School		$14,000,000
2012 G.O. Bonds – Additions and Renovations Great Neck Elementary School		$15,640,000
2013 G.O. Bonds – Additions and Renovations to Waterford High School		$33,750,000
2014 G.O. Bonds – Additions and Renovations to Waterford High School		$13,700,000
	Renovations Quaker Hill Elementary	$ 851,545
	Renovations Oswegatchie Elementary	$ 720,425
	Renovations Great Neck Elementary	$ 658,030
	Total	$15,930,000
2020 G.O. Bonds – Municipal Complex Garage Addition and Renovations		$13,655,000
	Total Bonded	$15,096,084

Refunding Issues

2014 G.O. Refunding Bonds	Refunding of G.O. Bonds, Issue 2007	$ 9,440,000

Original 2007 Issue $15,865,000 for Additions and Renovations to Clark Lane Middle School

2017 G.O. Refunding Bonds		$14,585,000
	Refunding of G.O. Bonds, Issue 2009	$ 4,900,000
	Refunding of G.O. Bonds, Issue 2011	$ 7,350,000
	Refunding of G.O. Bonds, Issue 2013	$ 4,000,000
	Total Refunded	$16,250,000
2019 G.O. Refunding Bonds	Refunding of G.O. Bonds, Issue 2012	$ 9,085,000
	Total Refunded	$10,375,000
2020 G.O. Refunding Bonds	Refunding of G.O. Bonds, Issue 2013	$17,585,000
	Refunding of G.O. Bonds, Issue 2014	$10,115,000
	Total Refunded	$28,890,000

Town of Waterford
Debt Service
Amorization Schedule

	Original Issue Amount	FY-2025	FY-2026	FY-2027	FY-2028	FY-2029	FY-2030
2014 G.O. Refunding	$ 9,440,000.00						
Principal		$ 835,000.00	$ 840,000.00	$ 845,000.00			
Interest		$ 105,125.00	$ 63,250.00	$ 21,125.00			
		$ 940,125.00	$ 903,250.00	$ 866,125.00	$ -	$ -	$ -
2017 G.O. Refunding	$ 14,585,000.00						
Principal		$ 1,085,000.00	$ 1,070,000.00	$ 2,830,000.00	$ 2,820,000.00	$ 1,070,000.00	$ 685,000.00
Interest		$ 460,525.00	$ 406,650.00	$ 309,150.00	$ 167,900.00	$ 76,000.00	$ 40,900.00
		$ 1,545,525.00	$ 1,476,650.00	$ 3,139,150.00	$ 2,987,900.00	$ 1,146,000.00	$ 725,900.00
2019 G.O. Refunding	$ 9,085,000.00						
Principal		$ 855,000.00	$ 870,000.00	$ 885,000.00	$ 905,000.00	$ 915,000.00	$ 950,000.00
Interest		$ 267,375.00	$ 224,250.00	$ 180,375.00	$ 135,625.00	$ 94,700.00	$ 57,400.00
		$ 1,122,375.00	$ 1,094,250.00	$ 1,065,375.00	$ 1,040,625.00	$ 1,009,700.00	$ 1,007,400.00

Town of Waterford
Debt Service
Amorization Schedule

	Original Issue Amount	FY-2025	FY-2026	FY-2027	FY-2028	FY-2029	FY-2030
2020 G.O. Bonds	$ 13,655.00						
Principal		$ 685,000.00	$ 685,000.00	$ 685,000.00	$ 685,000.00	$ 685,000.00	$ 685,000.00
Interest		$ 355,225.00	$ 320,975.00	$ 286,725.00	$ 252,475.00	$ 218,225.00	$ 187,400.00
		$ 1,040,225.00	$ 1,005,975.00	$ 971,725.00	$ 937,475.00	$ 903,225.00	$ 872,400.00
2020 G.O. Refunding	$ 28,890,000.00						
Principal		$ 3,135,000.00	$ 3,180,000.00	$ 1,150,000.00	$ 1,135,000.00	$ 3,100,000.00	$ 3,055,000.00
Interest		$ 326,496.00	$ 304,375.00	$ 286,050.50	$ 273,374.75	$ 243,836.50	$ 197,069.75
		$ 3,461,496.00	$ 3,484,375.00	$ 1,436,050.50	$ 1,408,374.75	$ 3,343,836.50	$ 3,252,069.75
	Principal	$ 6,595,000.00	$ 6,645,000.00	$ 6,395,000.00	$ 5,545,000.00	$ 5,770,000.00	$ 5,375,000.00
	Interest	$ 1,514,746.00	$ 1,319,500.00	$ 1,083,425.50	$ 829,374.75	$ 632,761.50	$ 482,769.75
	GRAND TOTAL	$ 8,109,746.00	$ 7,964,500.00	$ 7,478,425.50	$ 6,374,374.75	$ 6,402,761.50	$ 5,857,769.75

Town of Waterford
Debt Service
Amorization Schedule

	FY-2031	FY-2032	FY-2033	FY-2034	Totals
2014 G.O. Refunding					
Principal					$ 3,345,000.00
Interest					$ 336,125.00
	$ -	$ -	$ -	$ -	$ 3,681,125.00
2017 G.O. Refunding					
Principal	$ 680,000.00				$ 11,310,000.00
Interest	$ 13,600.00				$ 1,989,125.00
	$ 693,600.00	$ -	$ -	$ -	$ 13,299,125.00
2019 G.O. Refunding					
Principal	$ 960,000.00				$ 7,015,000.00
Interest	$ 19,200.00				$ 1,284,550.00
	$ 979,200.00	$ -	$ -	$ -	$ 8,299,550.00

Town of Waterford
Debt Service
Amorization Schedule

	FY-2031	FY-2032	FY-2033	FY-2034	Totals
2020 G.O. Bonds					
Principal	$ 685,000.00				$ 5,480,000.00
Interest	$ 163,425.00				$ 2,173,925.00
	$ 848,425.00	$ -	$ -	$ -	$ 7,653,925.00
2020 G.O. Refunding					
Principal	$ 3,015,000.00	$ 2,950,000.00	$ 2,890,000.00	$ 905,000.00	$ 27,710,000.00
Interest	$ 147,912.75	$ 96,925.00	$ 44,380.00	$ 8,823.75	$ 2,271,368.75
	$ 3,162,912.75	$ 3,046,925.00	$ 2,934,380.00	$ 913,823.75	$ 29,981,368.75
	$ 5,340,000.00	$ 2,950,000.00	$ 2,890,000.00	$ 905,000.00	$ 54,860,000.00
	$ 344,137.75	$ 96,925.00	$ 44,380.00	$ 8,823.75	$ 8,055,093.75
	$ 5,684,137.75	$ 3,046,925.00	$ 2,934,380.00	$ 913,823.75	$ 62,915,093.75

2020 Refunding

AMTEC
American Municipal Tax-Exempt Compliance

90 Avon Meadow Lane
Avon, CT 06001
(T) 860-321-7521
(F) 860-321-7581
www.amteccorp.com

Town of Waterford ("Issuer")
15 Rope Ferry Road
Waterford, CT 06385

Day Pitney, LLP ("Bond Counsel")
242 Trumbull Street
Hartford, CT 06103

Hilltop Securities Inc. ("Financial Advisor")
129 Samson Rock Drive, Suite A
Madison, CT 06443

Robert W. Baird & Co., Inc. ("Senior Manager")
One Harding Road, Suite 207
Red Bank, NJ 07701

U.S. Bank National Association
("Paying/Escrow Agent")
CityPlace I, 185 Asylum Street, 27th Floor
Hartford, CT 06103

Town of Waterford, Connecticut
General Obligation Refunding Bonds, Series 2020B (Federally Taxable)

The Town of Waterford, Connecticut proposes to issue the above referenced General Obligation Refunding Bonds, Series 2020B (Federally Taxable) (the "Bonds"). The Bonds are dated December 30, 2020 and will be issued on December 30, 2020. The Bonds consist of $28,890,000 Serial Bonds.

A portion of the proceeds of the Bonds will be used to purchase United States Treasury Securities – State and Local Government Series (the "Acquired Obligations"), together with an initial cash deposit, which will be placed in an irrevocable escrow fund, to be used solely to refund that portion of the Issuer's General Obligation Bonds, Issue of 2013 and General Obligation Bonds, Issue of 2014 described below (collectively, the "Refunded Bonds").

Series	Principal Issued	Dated	Principal Refunded	Maturities Refunded	Redemption Date	Redemption Price
2013	$33,750,000	3/15/13	$17,585,000	8/15/22 to 8/15/32	8/15/21	100%
2014	$15,930,000	3/17/14	$10,115,000	3/15/24 to 3/15/34	3/15/22	100%

At your request, we have independently calculated, based on information and assumptions as provided to us by the Financial Advisor, that the receipts from the Acquired Obligations, along with the initial cash deposit, will be sufficient to pay to and at redemption, the principal and interest on the Refunded Bonds.

At your request, we have independently verified the arithmetical accuracy of the computations based on schedules provided to us by the Financial Advisor. We have relied solely on the assumptions and information, as provided to us by the Financial Advisor, and have not made any study or evaluation of them, except as noted below. We express no opinion on the reasonableness of the assumptions, or the likelihood that the debt service requirements of the Refunded Bonds will be paid as described in the accompanying exhibits.

General Obligation Bonds, Issue of 2013

Issue	Dated Date	Maturity Date	Amount Outstanding	Interest Rate	Redemption Date	Redemption Price
2013	3/15/2013	8/15/2022	$1,755,000	2.000%	8/15/2021	100.00%
2013	3/15/2013	8/15/2023	1,955,000	2.250	8/15/2021	100.00
2013	3/15/2013	8/15/2024	1,955,000	2.250	8/15/2021	100.00
2013	3/15/2013	8/15/2025	2,000,000	2.500	8/15/2021	100.00
2013	3/15/2013	8/15/2028	2,000,000	3.250	8/15/2021	100.00
2013	3/15/2013	8/15/2029	2,000,000	3.000	8/15/2021	100.00
2013	3/15/2013	8/15/2030	2,000,000	3.000	8/15/2021	100.00
2013	3/15/2013	8/15/2031	1,970,000	3.100	8/15/2021	100.00
2013	3/15/2013	8/15/2032	1,950,000	3.500	8/15/2021	100.00
			17,585,000			

General Obligation Bonds, Issue of 2014

Issue	Dated Date	Maturity Date	Amount Outstanding	Interest Rate	Redemption Date	Redemption Price
2014	3/17/2014	3/15/2024	875,000	3.000	3/15/2022	100.00
2014	3/17/2014	3/15/2025	875,000	3.000	3/15/2022	100.00
2014	3/17/2014	3/15/2026	920,000	3.000	3/15/2022	100.00
2014	3/17/2014	3/15/2027	925,000	3.000	3/15/2022	100.00
2014	3/17/2014	3/15/2028	925,000	3.200	3/15/2022	100.00
2014	3/17/2014	3/15/2029	925,000	3.250	3/15/2022	100.00
2014	3/17/2014	3/15/2030	925,000	3.500	3/15/2022	100.00
2014	3/17/2014	3/15/2031	925,000	3.625	3/15/2022	100.00
2014	3/17/2014	3/15/2032	940,000	3.750	3/15/2022	100.00
2014	3/17/2014	3/15/2033	940,000	3.875	3/15/2022	100.00
2014	3/17/2014	3/15/2034	940,000	3.875	3/15/2022	100.00
			$10,115,000			
		Total.....	$27,700,000			

Upon delivery of the Bonds, a portion of proceeds of the Bonds will be placed in an irrevocable escrow fund (the "Escrow Deposit Fund") established with U.S. Bank National Association, as escrow agent (the "Escrow Agent") under an Escrow Agreement (the "Escrow Agreement") dated as of the date of delivery of the Bonds, between the Escrow Agent and the Town. The Escrow Agent will use such proceeds to purchase a portfolio of non-callable direct obligations guaranteed by the government of the United States of America, including United States Treasury State and Local Government Series ("SLGS") securities, Federal National Mortgage Association ("FNMA") securities and any other securities permitted by Section 7-400 of the Connecticut General Statutes, all of which shall not be callable or prepayable at the option of the issuer of the securities (the "Escrow Securities"), the principal of and interest on which, when due, will provide amounts sufficient to pay the principal, interest and redemption premium on the Refunded Bonds to the redemption dates or maturity (the "Escrow Requirements"). All investment income on and maturing principal of the Escrow Securities held in the Escrow Deposit Fund and needed to pay the principal, interest and redemption premium on the Refunded Bonds will be irrevocably deposited by the Town for payment of the Refunded Bonds. The balance of the proceeds of the Bonds will be used to pay costs of issuance and Underwriter's discount.

2020 Refund 2013 & 2014 Refund

BOND DEBT SERVICE

Town of Waterford, Connecticut
General Obligation Refunding Bonds, Series 2020B (Federally Taxable)

Dated Date 12/30/2020
Delivery Date 12/30/2020

Period Ending	Principal	Coupon	Interest	Debt Service	Annual Debt Service
02/15/2021			43,932.19	43,932.19	
06/30/2021					43,932.19
08/15/2021			175,728.75	175,728.75	
02/15/2022			175,728.75	175,728.75	
06/30/2022					351,457.50
08/15/2022	1,180,000	0.290%	175,728.75	1,355,728.75	
02/15/2023			174,017.75	174,017.75	
06/30/2023					1,529,746.50
08/15/2023	3,195,000	0.370%	174,017.75	3,369,017.75	
02/15/2024			168,107.00	168,107.00	
06/30/2024					3,537,124.75
08/15/2024	3,135,000	0.620%	168,107.00	3,303,107.00	
02/15/2025			158,388.50	158,388.50	
06/30/2025					3,461,495.50
08/15/2025	3,180,000	0.780%	158,388.50	3,338,388.50	
02/15/2026			145,986.50	145,986.50	
06/30/2026					3,484,375.00
08/15/2026	1,150,000	1.030%	145,986.50	1,295,986.50	
02/15/2027			140,064.00	140,064.00	
06/30/2027					1,436,050.50
08/15/2027	1,135,000	1.190%	140,064.00	1,275,064.00	
02/15/2028			133,310.75	133,310.75	
06/30/2028					1,408,374.75
08/15/2028	3,100,000	1.470%	133,310.75	3,233,310.75	
02/15/2029			110,525.75	110,525.75	
06/30/2029					3,343,836.50
08/15/2029	3,055,000	1.570%	110,525.75	3,165,525.75	
02/15/2030			86,544.00	86,544.00	
06/30/2030					3,252,069.75
08/15/2030	3,015,000	1.670%	86,544.00	3,101,544.00	
02/15/2031			61,368.75	61,368.75	
06/30/2031					3,162,912.75
08/15/2031	2,950,000	1.750%	61,368.75	3,011,368.75	
02/15/2032			35,556.25	35,556.25	
06/30/2032					3,046,925.00
08/15/2032	2,890,000	1.850%	35,556.25	2,925,556.25	
02/15/2033			8,823.75	8,823.75	
06/30/2033					2,934,380.00
08/15/2033	905,000	1.950%	8,823.75	913,823.75	
06/30/2034					913,823.75
	28,890,000		3,016,504.44	31,906,504.44	31,906,504.44

PROOF OF ARBITRAGE YIELD

Town of Waterford, Connecticut
General Obligation Refunding Bonds, Series 2020B (Federally Taxable)

Date	Debt Service	Total	Present Value to 12/30/2020 @ 1.4572961436%
02/15/2021	43,932.19	43,932.19	43,852.52
08/15/2021	175,728.75	175,728.75	174,141.21
02/15/2022	175,728.75	175,728.75	172,881.51
08/15/2022	1,355,728.75	1,355,728.75	1,324,114.49
02/15/2023	174,017.75	174,017.75	168,730.38
08/15/2023	3,369,017.75	3,369,017.75	3,243,022.95
02/15/2024	168,107.00	168,107.00	160,649.55
08/15/2024	3,303,107.00	3,303,107.00	3,133,742.84
02/15/2025	158,388.50	158,388.50	149,180.26
08/15/2025	3,338,388.50	3,338,388.50	3,121,559.22
02/15/2026	145,986.50	145,986.50	135,517.19
08/15/2026	1,295,986.50	1,295,986.50	1,194,343.28
02/15/2027	140,064.00	140,064.00	128,145.16
08/15/2027	1,275,064.00	1,275,064.00	1,158,122.95
02/15/2028	133,310.75	133,310.75	120,208.41
08/15/2028	3,233,310.75	3,233,310.75	2,894,437.11
02/15/2029	110,525.75	110,525.75	98,226.15
08/15/2029	3,165,525.75	3,165,525.75	2,792,907.24
02/15/2030	86,544.00	86,544.00	75,804.44
08/15/2030	3,101,544.00	3,101,544.00	2,697,010.26
02/15/2031	61,368.75	61,368.75	52,978.41
08/15/2031	3,011,368.75	3,011,368.75	2,580,848.91
02/15/2032	35,556.25	35,556.25	30,252.52
08/15/2032	2,925,556.25	2,925,556.25	2,471,161.24
02/15/2033	8,823.75	8,823.75	7,399.34
08/15/2033	913,823.75	913,823.75	760,762.44
	31,906,504.44	31,906,504.44	28,890,000.00

Proceeds Summary

Delivery date	12/30/2020
Par Value	28,890,000.00
Target for yield calculation	28,890,000.00

SAVINGS

Town of Waterford, Connecticut
General Obligation Refunding Bonds, Series 2020B (Federally Taxable)

Date	Prior Debt Service	Refunding Debt Service	Savings	Present Value to 12/30/2020 @ 1.4572961%
06/30/2021	414,456.88	43,932.19	370,524.69	369,646.67
06/30/2022	828,913.76	351,457.50	477,456.26	471,023.82
06/30/2023	2,566,363.76	1,529,746.50	1,036,617.26	1,010,467.74
06/30/2024	3,601,820.01	3,537,124.75	64,695.26	53,335.62
06/30/2025	3,531,582.51	3,461,495.50	70,087.01	57,886.39
06/30/2026	3,548,338.76	3,484,375.00	63,963.76	51,175.07
06/30/2027	1,500,738.76	1,436,050.50	64,688.26	51,149.35
06/30/2028	1,472,988.76	1,408,374.75	64,614.01	50,421.74
06/30/2029	3,410,888.76	3,343,836.50	67,052.26	52,068.28
06/30/2030	3,318,326.26	3,252,069.75	66,256.51	50,781.93
06/30/2031	3,225,951.26	3,162,912.75	63,038.51	47,417.71
06/30/2032	3,116,885.00	3,046,925.00	69,960.00	52,725.55
06/30/2033	2,996,975.00	2,934,380.00	62,595.00	45,933.17
06/30/2034	976,425.00	913,823.75	62,601.25	45,369.31
	34,510,654.48	31,906,504.44	2,604,150.04	2,409,402.34

Savings Summary

PV of savings from cash flow	2,409,402.34
Plus: Refunding funds on hand	3,869.32
Net PV Savings	2,413,271.66

Municipal Complex

BOND DEBT SERVICE

Town of Waterford, Connecticut
General Obligation Bonds, Series 2020
FINAL NUMBERS

Period Ending	Principal	Coupon	Interest	Debt Service
06/30/2021			306,175.56	306,175.56
06/30/2022	685,000	5.000%	457,975.00	1,142,975.00
06/30/2023	685,000	5.000%	423,725.00	1,108,725.00
06/30/2024	685,000	5.000%	389,475.00	1,074,475.00
06/30/2025	685,000	5.000%	355,225.00	1,040,225.00
06/30/2026	685,000	5.000%	320,975.00	1,005,975.00
06/30/2027	685,000	5.000%	286,725.00	971,725.00
06/30/2028	685,000	5.000%	252,475.00	937,475.00
06/30/2029	685,000	5.000%	218,225.00	903,225.00
06/30/2030	685,000	4.000%	187,400.00	872,400.00
06/30/2031	685,000	3.000%	163,425.00	848,425.00
06/30/2032	685,000	3.000%	142,875.00	827,875.00
06/30/2033	680,000	3.000%	122,400.00	802,400.00
06/30/2034	680,000	2.000%	105,400.00	785,400.00
06/30/2035	680,000	2.000%	91,800.00	771,800.00
06/30/2036	680,000	2.000%	78,200.00	758,200.00
06/30/2037	680,000	2.000%	64,600.00	744,600.00
06/30/2038	680,000	2.125%	50,575.00	730,575.00
06/30/2039	680,000	2.125%	36,125.00	716,125.00
06/30/2040	680,000	2.125%	21,675.00	701,675.00
06/30/2041	680,000	2.125%	7,225.00	687,225.00
	13,655,000		4,082,675.56	17,737,675.56

Municipal Complex

BOND DEBT SERVICE

Town of Waterford, Connecticut
General Obligation Bonds, Series 2020
FINAL NUMBERS

Period Ending	Principal	Coupon	Interest	Debt Service	Annual Debt Service
03/15/2021			306,175.56	306,175.56	
06/30/2021					306,175.56
09/15/2021	685,000	5.000%	237,550.00	922,550.00	
03/15/2022			220,425.00	220,425.00	
06/30/2022					1,142,975.00
09/15/2022	685,000	5.000%	220,425.00	905,425.00	
03/15/2023			203,300.00	203,300.00	
06/30/2023					1,108,725.00
09/15/2023	685,000	5.000%	203,300.00	888,300.00	
03/15/2024			186,175.00	186,175.00	
06/30/2024					1,074,475.00
09/15/2024	685,000	5.000%	186,175.00	871,175.00	
03/15/2025			169,050.00	169,050.00	
06/30/2025					1,040,225.00
09/15/2025	685,000	5.000%	169,050.00	854,050.00	
03/15/2026			151,925.00	151,925.00	
06/30/2026					1,005,975.00
09/15/2026	685,000	5.000%	151,925.00	836,925.00	
03/15/2027			134,800.00	134,800.00	
06/30/2027					971,725.00
09/15/2027	685,000	5.000%	134,800.00	819,800.00	
03/15/2028			117,675.00	117,675.00	
06/30/2028					937,475.00
09/15/2028	685,000	5.000%	117,675.00	802,675.00	
03/15/2029			100,550.00	100,550.00	
06/30/2029					903,225.00
09/15/2029	685,000	4.000%	100,550.00	785,550.00	
03/15/2030			86,850.00	86,850.00	
06/30/2030					872,400.00
09/15/2030	685,000	3.000%	86,850.00	771,850.00	
03/15/2031			76,575.00	76,575.00	
06/30/2031					848,425.00
09/15/2031	685,000	3.000%	76,575.00	761,575.00	
03/15/2032			66,300.00	66,300.00	
06/30/2032					827,875.00
09/15/2032	680,000	3.000%	66,300.00	746,300.00	
03/15/2033			56,100.00	56,100.00	
06/30/2033					802,400.00
09/15/2033	680,000	2.000%	56,100.00	736,100.00	
03/15/2034			49,300.00	49,300.00	
06/30/2034					785,400.00
09/15/2034	680,000	2.000%	49,300.00	729,300.00	
03/15/2035			42,500.00	42,500.00	
06/30/2035					771,800.00
09/15/2035	680,000	2.000%	42,500.00	722,500.00	
03/15/2036			35,700.00	35,700.00	
06/30/2036					758,200.00
09/15/2036	680,000	2.000%	35,700.00	715,700.00	
03/15/2037			28,900.00	28,900.00	
06/30/2037					744,600.00
09/15/2037	680,000	2.125%	28,900.00	708,900.00	
03/15/2038			21,675.00	21,675.00	
06/30/2038					730,575.00
09/15/2038	680,000	2.125%	21,675.00	701,675.00	
03/15/2039			14,450.00	14,450.00	
06/30/2039					716,125.00
09/15/2039	680,000	2.125%	14,450.00	694,450.00	
03/15/2040			7,225.00	7,225.00	
06/30/2040					701,675.00
09/15/2040	680,000	2.125%	7,225.00	687,225.00	
06/30/2041					687,225.00
	13,655,000		4,082,675.56	17,737,675.56	17,737,675.56

BOND DEBT SERVICE

Waterford Outstanding Debt Post 2019 Refunding

Period Ending	Principal	Coupon	Interest	Debt Service
06/30/2021	5,060,000	** %	2,344,370.57	7,404,370.57
06/30/2022	5,155,000	** %	2,114,113.76	7,269,113.76
06/30/2023	5,200,000	** %	1,925,351.26	7,125,351.26
06/30/2024	5,400,000	** %	1,738,470.01	7,138,470.01
06/30/2025	5,605,000	** %	1,534,607.51	7,139,607.51
06/30/2026	5,700,000	** %	1,322,488.76	7,022,488.76
06/30/2027	5,485,000	** %	1,086,388.76	6,571,388.76
06/30/2028	4,650,000	** %	851,513.76	5,501,513.76
06/30/2029	4,910,000	** %	656,588.76	5,566,588.76
06/30/2030	4,560,000	** %	491,626.26	5,051,626.26
06/30/2031	4,565,000	** %	333,751.26	4,898,751.26
06/30/2032	2,910,000	** %	206,885.00	3,116,885.00
06/30/2033	2,890,000	** %	106,975.00	2,996,975.00
06/30/2034	940,000	3.875%	36,425.00	976,425.00
	63,030,000		14,749,555.67	77,779,555.67

DETAILED BOND DEBT SERVICE

Town of Waterford, Connecticut
2012 General Obligation Bonds - Post 2019 Refunding

Bond Component

Period Ending	Principal	Interest	Debt Service	Annual Debt Service
	0	0	0	0

2019 Refunding

DETAILED BOND DEBT SERVICE

Town of Waterford, Connecticut
$9,085,000 General Obligation Bonds, Series 2019
Final Numbers

Bond Component

Period Ending	Principal	Coupon	Interest	Debt Service	Annual Debt Service
08/01/2020	655,000	4.000%	245,844.31	900,844.31	
02/01/2021			196,625.00	196,625.00	
06/30/2021					1,097,469.31
08/01/2021	700,000	5.000%	196,625.00	896,625.00	
02/01/2022			179,125.00	179,125.00	
06/30/2022					1,075,750.00
08/01/2022	715,000	5.000%	179,125.00	894,125.00	
02/01/2023			161,250.00	161,250.00	
06/30/2023					1,055,375.00
08/01/2023	675,000	5.000%	161,250.00	836,250.00	
02/01/2024			144,375.00	144,375.00	
06/30/2024					980,625.00
08/01/2024	855,000	5.000%	144,375.00	999,375.00	
02/01/2025			123,000.00	123,000.00	
06/30/2025					1,122,375.00
08/01/2025	870,000	5.000%	123,000.00	993,000.00	
02/01/2026			101,250.00	101,250.00	
06/30/2026					1,094,250.00
08/01/2026	885,000	5.000%	101,250.00	986,250.00	
02/01/2027			79,125.00	79,125.00	
06/30/2027					1,065,375.00
08/01/2027	905,000	5.000%	79,125.00	984,125.00	
02/01/2028			56,500.00	56,500.00	
06/30/2028					1,040,625.00
08/01/2028	915,000	4.000%	56,500.00	971,500.00	
02/01/2029			38,200.00	38,200.00	
06/30/2029					1,009,700.00
08/01/2029	950,000	4.000%	38,200.00	988,200.00	
02/01/2030			19,200.00	19,200.00	
06/30/2030					1,007,400.00
08/01/2030	960,000	4.000%	19,200.00	979,200.00	
06/30/2031					979,200.00
	9,085,000		2,443,144.31	11,528,144.31	11,528,144.31

DETAILED BOND DEBT SERVICE

Town of Waterford, Connecticut
GO Bonds, Issue of 2011 - Post 2017 Refunding

Bond Component

Period Ending	Principal	Coupon	Interest	Debt Service	Annual Debt Service
08/01/2020	735,000	2.500%	9,187.50	744,187.50	
06/30/2021					744,187.50
	735,000		9,187.50	744,187.50	744,187.50

2017 Refunding

DETAILED BOND DEBT SERVICE

Town of Waterford, Connecticut
$14,585,000 General Obligation Refunding Bonds, Issue of 2017

Bond Component

Period Ending	Principal	Coupon	Interest	Debt Service	Annual Debt Service
08/01/2020	325,000	3.000%	317,575	642,575	
02/01/2021			312,700	312,700	
06/30/2021					955,275
08/01/2021	1,050,000	3.000%	312,700	1,362,700	
02/01/2022			296,950	296,950	
06/30/2022					1,659,650
08/01/2022	1,055,000	5.000%	296,950	1,351,950	
02/01/2023			270,575	270,575	
06/30/2023					1,622,525
08/01/2023	1,070,000	5.000%	270,575	1,340,575	
02/01/2024			243,825	243,825	
06/30/2024					1,584,400
08/01/2024	1,085,000	5.000%	243,825	1,328,825	
02/01/2025			216,700	216,700	
06/30/2025					1,545,525
08/01/2025	1,070,000	5.000%	216,700	1,286,700	
02/01/2026			189,950	189,950	
06/30/2026					1,476,650
08/01/2026	2,830,000	5.000%	189,950	3,019,950	
02/01/2027			119,200	119,200	
06/30/2027					3,139,150
08/01/2027	2,820,000	5.000%	119,200	2,939,200	
02/01/2028			48,700	48,700	
06/30/2028					2,987,900
08/01/2028	1,070,000	4.000%	48,700	1,118,700	
02/01/2029			27,300	27,300	
06/30/2029					1,146,000
08/01/2029	685,000	4.000%	27,300	712,300	
02/01/2030			13,600	13,600	
06/30/2030					725,900
08/01/2030	680,000	4.000%	13,600	693,600	
06/30/2031					693,600
	13,740,000		3,796,575	17,536,575	17,536,575

2014 Refunding

DETAILED BOND DEBT SERVICE

Town of Waterford, Connecticut
$9,440,000 General Obligation Refunding Bonds, Issue of 2014

Bond Component

Period Ending	Principal	Coupon	Interest	Debt Service	Annual Debt Service
08/15/2020	840,000	5.000%	130,637.50	970,637.50	
02/15/2021			109,637.50	109,637.50	
06/30/2021					1,080,275.00
08/15/2021	835,000	3.000%	109,637.50	944,637.50	
02/15/2022			97,112.50	97,112.50	
06/30/2022					1,041,750.00
08/15/2022	830,000	3.250%	97,112.50	927,112.50	
02/15/2023			83,625.00	83,625.00	
06/30/2023					1,010,737.50
08/15/2023	825,000	5.000%	83,625.00	908,625.00	
02/15/2024			63,000.00	63,000.00	
06/30/2024					971,625.00
08/15/2024	835,000	5.000%	63,000.00	898,000.00	
02/15/2025			42,125.00	42,125.00	
06/30/2025					940,125.00
08/15/2025	840,000	5.000%	42,125.00	882,125.00	
02/15/2026			21,125.00	21,125.00	
06/30/2026					903,250.00
08/15/2026	845,000	5.000%	21,125.00	866,125.00	
06/30/2027					866,125.00
	5,850,000		963,887.50	6,813,887.50	6,813,887.50

DETAILED BOND DEBT SERVICE

Town of Waterford, Connecticut
$15,930,000 General Obligation Bonds, Issue of 2014

Bond Component

Period Ending	Principal	Coupon	Interest	Debt Service	Annual Debt Service
09/15/2020			214,734.38	214,734.38	
03/15/2021	750,000	4.000%	214,734.38	964,734.38	
06/30/2021					1,179,468.76
09/15/2021			199,734.38	199,734.38	
03/15/2022	815,000	4.000%	199,734.38	1,014,734.38	
06/30/2022					1,214,468.76
09/15/2022			183,434.38	183,434.38	
03/15/2023	845,000	3.000%	183,434.38	1,028,434.38	
06/30/2023					1,211,868.76
09/15/2023			170,759.38	170,759.38	
03/15/2024	875,000	3.000%	170,759.38	1,045,759.38	
06/30/2024					1,216,518.76
09/15/2024			157,634.38	157,634.38	
03/15/2025	875,000	3.000%	157,634.38	1,032,634.38	
06/30/2025					1,190,268.76
09/15/2025			144,509.38	144,509.38	
03/15/2026	920,000	3.000%	144,509.38	1,064,509.38	
06/30/2026					1,209,018.76
09/15/2026			130,709.38	130,709.38	
03/15/2027	925,000	3.000%	130,709.38	1,055,709.38	
06/30/2027					1,186,418.76
09/15/2027			116,834.38	116,834.38	
03/15/2028	925,000	3.200%	116,834.38	1,041,834.38	
06/30/2028					1,158,668.76
09/15/2028			102,034.38	102,034.38	
03/15/2029	925,000	3.250%	102,034.38	1,027,034.38	
06/30/2029					1,129,068.76
09/15/2029			87,003.13	87,003.13	
03/15/2030	925,000	3.500%	87,003.13	1,012,003.13	
06/30/2030					1,099,006.26
09/15/2030			70,815.63	70,815.63	
03/15/2031	925,000	3.625%	70,815.63	995,815.63	
06/30/2031					1,066,631.26
09/15/2031			54,050.00	54,050.00	
03/15/2032	940,000	3.750%	54,050.00	994,050.00	
06/30/2032					1,048,100.00
09/15/2032			36,425.00	36,425.00	
03/15/2033	940,000	3.875%	36,425.00	976,425.00	

DETAILED BOND DEBT SERVICE

Town of Waterford, Connecticut
$15,930,000 General Obligation Bonds, Issue of 2014

Bond Component

Period Ending	Principal	Coupon	Interest	Debt Service	Annual Debt Service
06/30/2033					1,012,850.00
09/15/2033			18,212.50	18,212.50	
03/15/2034	940,000	3.875%	18,212.50	958,212.50	
06/30/2034					976,425.00
	12,525,000		3,373,781.36	15,898,781.36	15,898,781.36

DETAILED BOND DEBT SERVICE

Town of Waterford, Connecticut
$33,750,000 Genarl Obligation Bonds, Issue of 2013 - Post 2017 Refunding

Serial Component

Period Ending	Principal	Coupon	Interest	Debt Service	Annual Debt Service
08/15/2020	1,755,000	4.000%	313,897.50	2,068,897.50	
02/15/2021			278,797.50	278,797.50	
06/30/2021					2,347,695.00
08/15/2021	1,755,000	4.000%	278,797.50	2,033,797.50	
02/15/2022			243,697.50	243,697.50	
06/30/2022					2,277,495.00
08/15/2022	1,755,000	2.000%	243,697.50	1,998,697.50	
02/15/2023			226,147.50	226,147.50	
06/30/2023					2,224,845.00
08/15/2023	1,955,000	2.250%	226,147.50	2,181,147.50	
02/15/2024			204,153.75	204,153.75	
06/30/2024					2,385,301.25
08/15/2024	1,955,000	2.250%	204,153.75	2,159,153.75	
02/15/2025			182,160.00	182,160.00	
06/30/2025					2,341,313.75
08/15/2025	2,000,000	2.500%	182,160.00	2,182,160.00	
02/15/2026			157,160.00	157,160.00	
06/30/2026					2,339,320.00
08/15/2026			157,160.00	157,160.00	
02/15/2027			157,160.00	157,160.00	
06/30/2027					314,320.00
08/15/2027			157,160.00	157,160.00	
02/15/2028			157,160.00	157,160.00	
06/30/2028					314,320.00
08/15/2028	2,000,000	3.250%	157,160.00	2,157,160.00	
02/15/2029			124,660.00	124,660.00	
06/30/2029					2,281,820.00
08/15/2029	2,000,000	3.000%	124,660.00	2,124,660.00	
02/15/2030			94,660.00	94,660.00	
06/30/2030					2,219,320.00
08/15/2030	2,000,000	3.000%	94,660.00	2,094,660.00	
02/15/2031			64,660.00	64,660.00	
06/30/2031					2,159,320.00
08/15/2031	1,970,000	3.100%	64,660.00	2,034,660.00	
02/15/2032			34,125.00	34,125.00	
06/30/2032					2,068,785.00
08/15/2032	1,950,000	3.500%	34,125.00	1,984,125.00	
06/30/2033					1,984,125.00
	21,095,000		4,162,980.00	25,257,980.00	25,257,980.00