

**COMMISSION WORK SESSION
TUESDAY, OCTOBER, 8TH 2024
5:45 P.M.**

A. CALL TO ORDER – Vice Mayor Jim Falkner

B. DISCUSSION ITEMS

1. Discussion on the current Coffeyville Fire Department fleet.

C. ADJOURN



**CITY OF COFFEYVILLE
BOARD OF COMMISSIONERS AGENDA ITEM**

MEETING DATE	10/08/2024	
RESOLUTION OR ORDINANCE NUMBER	N/A	
AGENDA TITLE	Apparatus Replacement Plan Discussion	
REQUESTING DEPARTMENT	Coffeyville Fire Department	
PRESENTER	Mike O'Connor, Fire Chief	
FISCAL INFORMATION	Cost as recommended:	
	Budget Line Item:	
	Balance Available	
	New Appropriation Required:	☐ Yes ☐ No
PURPOSE	To discuss the current fleet of the Coffeyville Fire Department and make recommendations on a replacement cycle.	

BACKGROUND	The fire apparatus fleet is in a high need of replacing aging equipment. Our 1996 aerial is out of service and has been since April. We have a 1997 pumper with very high miles and hours that is in need of replacement. The cost of Fire trucks has increased substantially since 2020 and with the new Diesel emissions standard coming in 2026-2027 the price increase on engines alone will be between \$70,000-110,000. I have priced multiple stock trucks with different vendors and have found the pricing to be \$700,000-\$850,000. One other option is a used 2020 pumper located in Minnesota for \$475,075.
SPECIAL NOTES	Stock model trucks would be available in January 2025. Used truck is available immediately.
ANALYSIS	Guidelines for the apparatus scoring came from the American Public Works Association.
PUBLIC INFORMATION PROCESS	
BOARD OR COMMISSION RECOMMENDATION	
STAFF RECOMMENDATION	Staff recommends purchasing a new pumper from Feld Fire not to exceed \$740,000. Delivery would take place in January 2025. By also purchasing the used pumper for \$475,075 we would not have to purchase another large apparatus until 2038. This would greatly modernize our fleet at a cost of less than 1 new aerial apparatus.
REFERENCE DOCUMENTS ATTACHED	Attached is the Apparatus replacement plan and information on the used truck.

Coffeyville Fire-Rescue Vehicle Replacement 2024

Apparatus	Year Manufactured	Age	Mileage	Engine Hours	Replacement Points	Maintenance Cost to Date	Replacement	Anticipated
Squad 1	2005	19	12,325	1,781	27.4	\$5,000	2035	\$ 90,000
Squad 2	2020	4	5,802	399	12.3	\$1,500	2045	\$ 110,000
HazMat1	2023	1	1,000	14	7.0	\$0	2045	\$ 125,000
FD1	2010	14	178,534	6,000	33.22	\$3,835.89	2025	\$ 60,000
Ladder 1	1996	28	46,933	5,760	50.19	\$54,513.00	2024	\$ 450,000
Engine 2	1997	27	100,010	10,986	55.14	\$65,000.00	2025	\$ 740,000
Engine 1	2010	14	68,500	5,944	37.60	\$75,000.00	2030	\$ 900,000
Engine 3	2017	7	36,600	4,163	24.64	\$45,000.00	2040	\$ 1,000,000
<u>Point Ranges</u>								
Under 19	Condition I			Excellent		Code = Exc.		
20-25 points	Condition II			Good		Code = Good		
26-29 points	Condition III			Qualifies for replacement		Code = QFR		
30 points and above	Condition IV			Needs immediate consideration		Code = NIC		
OUT OF SERVICE								

Coffeyville
Fire-Rescue[illegible]

Coffeyville Fire-Rescue
Vehicle Replacement Program

VEHICLE REPLACEMENT GUIDELINES

MAKE HME
MODEL Silverfox
DEPARTMENT Fire Engine
YEAR PURCHASED 2010
CLASSIFICATION Enginge
MOUNTED BODY OR EQUIP. Fire Engine

Reference Number E1
Common Name Engine 1

Value Remaining in Vehicle \$90,000 <http://www.kbb.com/> Kelley Blue Book (use trade-in value)

General Information

Current Number of Miles	68,500	
Average Annual Mileage	4,893	"Current Number of Miles" divided by "Age of Vehicle"
Expected Mileage After 10 Years	122,321	"Average Annual Mileage" times "Expected Life of Vehicle"
Current Number of Engine Hours	5,944	Hour Pts 11.89 Mileage Pt: 6.85
Age of Vehicle (in years)	14	
Interior/Exterior Condition	3	Scale of 1-5, with 1 being excellent
Type of Use	4	Scale based on type of service. Vehicles with the lightest use are rated 1, moderate use 3, and heavy use 5

Depreciation Information

Original Purchase Price	\$269,200	
Expected Life of Vehicle (in years)	25	
Annual Depreciation (if any)	\$10,768	Straight-line depreciation
Amount of Depreciation Left	\$118,448	

Cost Information

Maintenance Cost-to-Date	\$75,000	Value is taken from fleet maintenance (less fuel & accident repair)
Number of Hours in Shop	300.50	Value is taken from fleet maintenance records
Cost as a Percent of Original Price	27.9%	"Maintenance Cost-to-Date" divided by "Original Purchase Price"

Unused Mileage 31,500 → Based on a 100,000 mile minimum

City of Coffeyville Rating

(see below for explanation)

Age	14.00	1 point for every year of service
Miles/Hours	11.89	For every 10,000 miles or 500 hours, 1 points is added
Type of Use	4.00	Based on the "Type of Use" above
Reliability	0.72	Based on the "Number of Hours in Shop" above
Maintenance & Repair Costs	4.00	Based on "Maintenance Cost as a Percent of Original Price" above
Condition	3.00	Based on "Interior/Exterior Condition" above
Total	37.60	

Overall Rating 37.60 **Current CIP Replacement Schedule** 2030
\$900,000.00

Coffeyville Fire-Rescue
Vehicle Replacement Program

VEHICLE REPLACEMENT GUIDELINES

MAKE Pierce
MODEL Responder
DEPARTMENT Fire
YEAR PURCHASED 1997
CLASSIFICATION Engine
MOUNTED BODY OR EQUIP. Fire Engine

Reference Number E2
Common Name Engine 2

Value Remaining in Vehicle \$7,500 <http://www.kbb.com/> Kelley Blue Book (use trade-in value)

General Information

Current Number of Miles	100,010	
Average Annual Mileage	3,704	"Current Number of Miles" divided by "Age of Vehicle"
Expected Mileage After 10 Years	92,602	"Average Annual Mileage" times "Expected Life of Vehicle"
Current Number of Engine Hours	10,986	Hour Pts 21.97 Mileage Pt: 10.00
Age of Vehicle (in years)	27	
Interior/Exterior Condition	3	Scale of 1-5, with 1 being excellent
Type of Use	1	Scale based on type of service. Vehicles with the lightest use are rated 1, moderate use 3, and heavy use 5

Depreciation Information

Original Purchase Price	\$137,322	
Expected Life of Vehicle (in years)	25	
Annual Depreciation (if any)	\$5,493	Straight-line depreciation
Amount of Depreciation Left	\$0	

Cost Information

Maintenance Cost-to-Date	\$65,000	Value is taken from fleet maintenance (less fuel & accident repair)
Number of Hours in Shop	135.50	Value is taken from fleet maintenance records
Cost as a Percent of Original Price	47.3%	"Maintenance Cost-to-Date" divided by "Original Purchase Price"

Unused Mileage -10 → Based on a 100,000 mile minimum

City of Coffeyville Rating

(see below for explanation)

Age	27.00	1 point for every year of service
Miles/Hours	21.97	For every 10,000 miles or 500 hours, 1 points is added
Type of Use	1.00	Based on the "Type of Use" above
Reliability	0.17	Based on the "Number of Hours in Shop" above
Maintenance & Repair Costs	3.00	Based on "Maintenance Cost as a Percent of Original Price" above
Condition	2.00	Based on "Interior/Exterior Condition" above
Total	55.14	

Overall Rating	55.14	Current CIP Replacement Schedule	2025
			\$740,000.00

Coffeyville Fire-Rescue
Vehicle Replacement Program

VEHICLE REPLACEMENT GUIDELINES

MAKE Smeal
MODEL Metrostar
DEPARTMENT Fire Engine
YEAR PURCHASED 2017
CLASSIFICATION Engine
MOUNTED BODY OR EQUIP. Fire Engine

Reference Number E3
Common Name Engine 3

Value Remaining in Vehicle \$325,000 <http://www.kbb.com/> Kelley Blue Book (use trade-in value)

General Information

Current Number of Miles	36,600	
Average Annual Mileage	5,229	"Current Number of Miles" divided by "Age of Vehicle"
Expected Mileage After 10 Years	130,714	"Average Annual Mileage" times "Expected Life of Vehicle"
Current Number of Engine Hours	4,163	Hour Pts 8.33 Mileage Pt: 3.66
Age of Vehicle (in years)	7	
Interior/Exterior Condition	2	Scale of 1-5, with 1 being excellent
Type of Use	4	Scale based on type of service. Vehicles with the lightest use are rated 1, moderate use 3, and heavy use 5

Depreciation Information

Original Purchase Price	\$493,568	
Expected Life of Vehicle (in years)	25	
Annual Depreciation (if any)	\$19,743	Straight-line depreciation
Amount of Depreciation Left	\$355,369	

Cost Information

Maintenance Cost-to-Date	\$45,000	Value is taken from fleet maintenance (less fuel & accident repair)
Number of Hours in Shop	66.00	Value is taken from fleet maintenance records
Cost as a Percent of Original Price	9.1%	"Maintenance Cost-to-Date" divided by "Original Purchase Price"

Unused Mileage 63,400 → Based on a 100,000 mile minimum

City of Coffeyville Rating

(see below for explanation)

Age	7.00	1 point for every year of service
Miles/Hours	8.33	For every 10,000 miles or 500 hours, 1 points is added
Type of Use	4.00	Based on the "Type of Use" above
Reliability	0.31	Based on the "Number of Hours in Shop" above
Maintenance & Repair Costs	1.00	Based on "Maintenance Cost as a Percent of Original Price" above
Condition	4.00	Based on "Interior/Exterior Condition" above
Total	24.64	

Overall Rating 24.64 **Current CIP Replacement Schedule** 2040
\$1,000,000.00

Coffeyville Fire-Rescue
Vehicle Replacement Program

VEHICLE REPLACEMENT GUIDELINES

MAKE Sutphen
MODEL Quint
DEPARTMENT Fire
YEAR PURCHASED 1996
CLASSIFICATION Quint
MOUNTED BODY OR EQUIP. 75' ladder

Reference Number L1
Common Name Ladder 1

Value Remaining in Vehicle \$10,000 <http://www.kbb.com/> Kelley Blue Book (use trade-in value)

General Information

Current Number of Miles	46,933	"Current Number of Miles" divided by "Age of Vehicle"
Average Annual Mileage	1,676	
Expected Mileage After 10 Years	41,904	"Average Annual Mileage" times "Expected Life of Vehicle"
Current Number of Engine Hours	5,760	Hour Pts 11.52 Mileage Pt. 4.69
Age of Vehicle (in years)	28	
Interior/Exterior Condition	3	Scale of 1-5, with 1 being excellent
Type of Use	2	Scale based on type of service. Vehicles with the lightest use are rated 1, moderate use 3, and heavy use 5

Depreciation Information

Original Purchase Price	\$349,539	
Expected Life of Vehicle (in years)	25	
Annual Depreciation (if any)	\$13,982	Straight-line depreciation
Amount of Depreciation Left	\$0	

Cost Information

Maintenance Cost-to-Date	\$54,513	Value is taken from fleet maintenance (less fuel & accident repair)
Number of Hours in Shop	561.00	Value is taken from fleet maintenance records
Cost as a Percent of Original Price	15.6%	"Maintenance Cost-to-Date" divided by "Original Purchase Price"

Unused Mileage 53,067 → Based on a 100,000 mile minimum

City of Coffeyville Rating

(see below for explanation)

Age	28.00	1 point for every year of service
Miles/Hours	11.52	For every 10,000 miles or 500 hours, 1 points is added
Type of Use	2.00	Based on the "Type of Use" above
Reliability	0.67	Based on the "Number of Hours in Shop" above
Maintenance & Repair Costs	4.00	Based on "Maintenance Cost as a Percent of Original Price" above
Condition	4.00	Based on "Interior/Exterior Condition" above
Total	50.19	

Overall Rating 50.19 **Current CIP Replacement Schedule** 2024
\$450,000

Coffeyville Fire-Rescue
Vehicle Replacement Program

VEHICLE REPLACEMENT GUIDELINES

MAKE Chevy
MODEL Tahoe
DEPARTMENT
YEAR PURCHASED 2010
CLASSIFICATION Chiefs Vehicle
MOUNTED BODY OR EQUIP.

Reference Number FD1
Common Name FD1

Value Remaining in Vehicle \$1,500 <http://www.kbb.com/> Kelley Blue Book (use trade-in value)

General Information

Current Number of Miles	178,534	"Current Number of Miles" divided by "Age of Vehicle"
Average Annual Mileage	12,752	"Average Annual Mileage" times "Expected Life of Vehicle"
Expected Mileage After 10 Years	127,524	
Current Number of Engine Hours	6,000	Hour Pts 12.00 Mileage Pt: 17.85
Age of Vehicle (in years)	14	
Interior/Exterior Condition	5	Scale of 1-5, with 1 being excellent
Type of Use	3	Scale based on type of service. Vehicles with the lightest use are rated 1, moderate use 3, and heavy use 5

Depreciation Information

Original Purchase Price	\$0	
Expected Life of Vehicle (in years)	10	
Annual Depreciation (if any)	\$0	Straight-line depreciation
Amount of Depreciation Left	\$0	

Cost Information

Maintenance Cost-to-Date	\$3,836	Value is taken from fleet maintenance (less fuel & accident repair)
Number of Hours in Shop	92.00	Value is taken from fleet maintenance records
Cost as a Percent of Original Price	No Value	"Maintenance Cost-to-Date" divided by "Original Purchase Price"

Unused Mileage -78,534 → Based on a 100,000 mile minimum

City of Coffeyville Rating

(see below for explanation)

Age	14.00	1 point for every year of service
Miles/Hours	12.00	For every 10,000 miles or 500 hours, 1 points is added
Type of Use	3.00	Based on the "Type of Use" above
Reliability	0.22	Based on the "Number of Hours in Shop" above
Maintenance & Repair Costs	2.00	Based on "Maintenance Cost as a Percent of Original Price" above
Condition	2.00	Based on "Interior/Exterior Condition" above
Total	33.22	

Overall Rating 33.22 Current CIP Replacement Schedule 2025
\$60,000.00

Coffeyville Fire-Rescue
Vehicle Replacement Program

VEHICLE REPLACEMENT GUIDELINES

MAKE Ford
MODEL Truck
DEPARTMENT F450
YEAR PURCHASED 2023
CLASSIFICATION Utility Truck
MOUNTED BODY OR EQUIP.

Reference Number Haz1
Common Name HazMat1

Value Remaining in Vehicle \$67,500 <http://www.kbb.com/> Kelley Blue Book (use trade-in value)

General Information

Current Number of Miles	1,000	"Current Number of Miles" divided by "Age of Vehicle"
Average Annual Mileage	1,000	
Expected Mileage After 10 Years	20,000	"Average Annual Mileage" times "Expected Life of Vehicle"
Current Number of Engine Hours	14	Hour Pts 0.03 Mileage Pt 0.10
Age of Vehicle (in years)	1	Scale of 1-5, with 1 being excellent Scale based on type of service. Vehicles with the lightest use are rated 1, moderate use 3, and heavy use 5
Interior/Exterior Condition	1	
Type of Use	1	

Depreciation Information

Original Purchase Price	\$67,500	Straight-line depreciation
Expected Life of Vehicle (in years)	20	
Annual Depreciation (if any)	\$3,375	
Amount of Depreciation Left	\$64,125	

Cost Information

Maintenance Cost-to-Date	\$0	Value is taken from fleet maintenance (less fuel & accident repair)
Number of Hours in Shop	0.00	Value is taken from fleet maintenance records
Cost as a Percent of Original Price	0.0%	"Maintenance Cost-to-Date" divided by "Original Purchase Price"

Unused Mileage 99,000 → Based on a 100,000 mile minimum

City of Coffeyville Rating

(see below for explanation)

Age	1.00	1 point for every year of service
Miles/Hours	0.03	For every 10,000 miles or 500 hours, 1 points is added
Type of Use	1.00	Based on the "Type of Use" above
Reliability	0.00	Based on the "Number of Hours in Shop" above
Maintenance & Repair Costs	3.00	Based on "Maintenance Cost as a Percent of Original Price" above
Condition	2.00	Based on "Interior/Exterior Condition" above
Total	7.03	

Overall Rating 7.03 Current CIP Replacement Schedule 2045
\$125,000.00

Coffeyville Fire-Rescue
Vehicle Replacement Program

VEHICLE REPLACEMENT GUIDELINES

MAKE Ram
MODEL 3500
DEPARTMENT Fire
YEAR PURCHASED 2020
CLASSIFICATION Brush
MOUNTED BODY OR EQUIP. Brush body

Reference Number S2
Common Name Squad 2

Value Remaining in Vehicle \$40,000 <http://www.kbb.com/> Kelley Blue Book (use trade-in value)

General Information

Current Number of Miles	5,802	"Current Number of Miles" divided by "Age of Vehicle"
Average Annual Mileage	1,451	
Expected Mileage After 10 Years	29,010	"Average Annual Mileage" times "Expected Life of Vehicle"
Current Number of Engine Hours	399	Hour Pts 0.80 Mileage Pt: 0.58
Age of Vehicle (in years)	4	Scale of 1-5, with 1 being excellent Scale based on type of service. Vehicles with the lightest use are rated 1, moderate use 3, and heavy use 5
Interior/Exterior Condition	2	
Type of Use	2	

Depreciation Information

Original Purchase Price	\$37,000	Straight-line depreciation
Expected Life of Vehicle (in years)	20	
Annual Depreciation (if any)	\$1,850	
Amount of Depreciation Left	\$29,600	

Cost Information

Maintenance Cost-to-Date	\$1,500	Value is taken from fleet maintenance (less fuel & accident repair)
Number of Hours in Shop	91.00	Value is taken from fleet maintenance records
Cost as a Percent of Original Price	4.1%	"Maintenance Cost-to-Date" divided by "Original Purchase Price"

Unused Mileage 94,198 → Based on a 100,000 mile minimum

City of Coffeyville Rating

(see below for explanation)

Age	4.00	1 point for every year of service
Miles/Hours	0.58	For every 10,000 miles or 500 hours, 1 points is added
Type of Use	2.00	Based on the "Type of Use" above
Reliability	0.76	Based on the "Number of Hours in Shop" above
Maintenance & Repair Costs	2.00	Based on "Maintenance Cost as a Percent of Original Price" above
Condition	3.00	Based on "Interior/Exterior Condition" above
Total	12.34	

Overall Rating 12.34 **Current CIP Replacement Schedule** 2045
\$110,000.00

Coffeyville Fire-Rescue
Vehicle Replacement Program

VEHICLE REPLACEMENT GUIDELINES

MAKE Chevy
MODEL Kodiak
DEPARTMENT Fire
YEAR PURCHASED 2005
CLASSIFICATION Brush
MOUNTED BODY OR EQUIP. Brush body

Reference Number S1
Common Name Squad 1

Value Remaining in Vehicle \$25,000 <http://www.kbb.com/> Kelley Blue Book (use trade-in value)

General Information

Current Number of Miles	12,325	"Current Number of Miles" divided by "Age of Vehicle"
Average Annual Mileage	649	
Expected Mileage After 10 Years	12,974	"Average Annual Mileage" times "Expected Life of Vehicle"
Current Number of Engine Hours	1,781	
Age of Vehicle (in years)	19	Hour Pts 3.56 Mileage Pt: 1.23
Interior/Exterior Condition	2	Scale of 1-5, with 1 being excellent Scale based on type of service. Vehicles with the lightest use are rated 1, moderate use 3, and heavy use 5
Type of Use	2	

Depreciation Information

Original Purchase Price	\$47,000	Straight-line depreciation
Expected Life of Vehicle (in years)	20	
Annual Depreciation (if any)	\$2,350	
Amount of Depreciation Left	\$2,350	

Cost Information

Maintenance Cost-to-Date	\$5,000	Value is taken from fleet maintenance (less fuel & accident repair)
Number of Hours in Shop	95.00	Value is taken from fleet maintenance records
Cost as a Percent of Original Price	10.6%	"Maintenance Cost-to-Date" divided by "Original Purchase Price"

Unused Mileage 87,675 → Based on a 100,000 mile minimum

City of Coffeyville Rating

(see below for explanation)

Age	19.00	1 point for every year of service
Miles/Hours	1.23	For every 10,000 miles or 500 hours, 1 points is added
Type of Use	2.00	Based on the "Type of Use" above
Reliability	0.17	Based on the "Number of Hours in Shop" above
Maintenance & Repair Costs	2.00	Based on "Maintenance Cost as a Percent of Original Price" above
Condition	3.00	Based on "Interior/Exterior Condition" above
Total	27.40	

Overall Rating 27.40 **Current CIP Replacement Schedule** 2035
\$90,000.00



2020 SPARTAN PUMPER FIRE TRUCK

Price: Request a Quote

Condition	Used
Stock Number	LB559700
Miles	13915
Class	CLASS 8 (GVW 33001 - 150000)

Specifications

General

Manufacturer	SPARTAN
Model	PUMPER FIRE TRUCK
Year	2020
Condition	Used
Stock Number	LB559700
Miles	13915
Class	CLASS 8 (GVW 33001 - 150000)
Color	RED
Category	Fire Truck
Subcategory	Fire Truck

Engine Drivetrain

Engine Model	CUMMINS L9 450EV
Fuel Type	Diesel
Horsepower	450

Drivetrain

Transmission Make	ALLISON AUTOMATIC
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Description

2020 SPARTAN, PUMPER FIRE TRUCK
Fire Truck, - 510 GALLON WATER TANK
- WATEROUS 1,500 GPM WATER PUMP
- PUMP MODEL: CSU
- FRC IN CONTROL 400 UNIT
- DECK GUN OPTION
- AIR SHORE LINE
- 20 AMP 120 VOLT SHORELINE
- POWER WINDOWS
- POWER LOCKS
- KUSSMAUL AUTO CHARGER
- BACKUP CAMERA
- WHELEN SIREN
- POWER MIRRORS
- GLOBAL TRAFFIC TECHNOLOGIES
OPTICAL
- FLOOR DRY COMPARTMENT
- VEHICLE HEIGHT - 9' 10"
- VEHICLE LENGTH - 32' 7"
- VEHICLE WIDTH - 9' 7"

Fire Apparatus Options

10/8/2024

Option 1: Do nothing until E-3 is paid off in October of 2027 (current balance is \$170,000.) Substantial cost increase on the engines in excess of \$75,000-\$100,000. Other associated costs would be a roughly 6% per year increase on the other materials needed to build a fire truck.

Option2: Purchase a used 2020 Spartan pumper from CarCo Fire Equipment in Minnesota for \$490,000 to replace E-2 which is 27 years old with high miles and hours.

Option 3: Purchase a new Spartan pumper from Feld Fire for \$740,000 that would be available in January 2025. This would replace E-2 which is 27 years old with high miles and hours.

Option 4: Purchase a new Spartan pumper from Feld Fire for \$740,000 and also purchase the used 2020 Spartan from CarCo for \$490,000. By purchasing 2 trucks now it would replace E-2 and we could also replace E-1. E-1 is a 2010 with 68,000 miles and beginning to have issues with passing pump tests. By selling it now we would also see somewhat of a return with similar models being sold for \$100,000. The 2020 apparatus brand new would cost over \$1,300,000 in today's market. By making these purchases we wouldn't need to make another large apparatus purchase for another 10-15 years.