

## **Finance & Facilities Committee**

Monday, August 12, 2024 6:00 PM

District Office Conf Rm B, 512 Industrial Blvd., Waconia, MN 55387

1. **Prairie Grass Plantings at Laketown**

# Laketown Elementary Pollinator Plot

5/9/2024 – Finance Committee





## Pollinators in the School

Pollinators bring us nearly 1 of every 3 bites of food we eat and are vital in the reproduction of nearly 80% of the flowering plants on the planet. Our food, our forests, our farms and our future need good pollinator-friendly practices – and school is a great place to start.



# Laketown Elementary Pollinator Plot

.14 Acres

Area

 **0.14** acres

Perimeter

 **166** yds

# Cost Breakdown

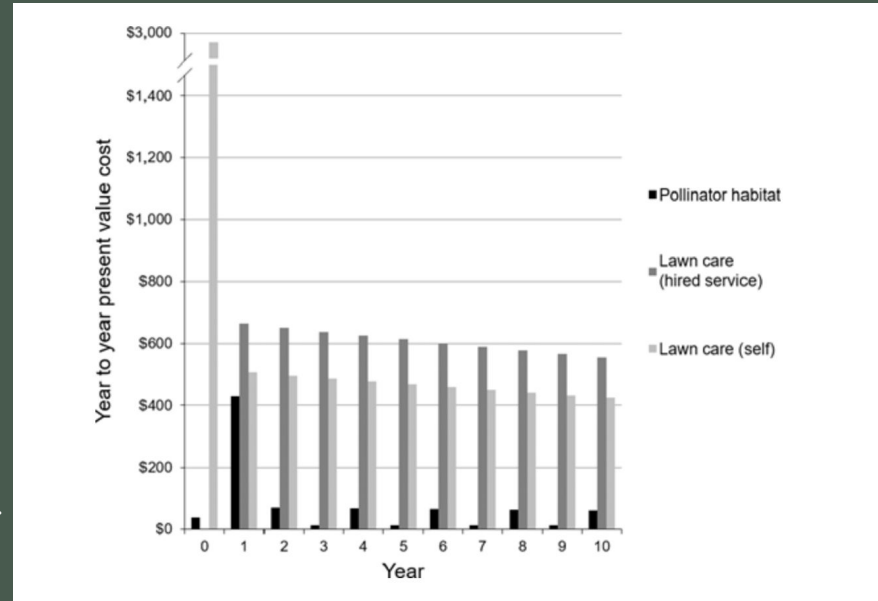
Total cost to convert .14 acres of Kentucky Bluegrass to Pollinator blend

<u>Cost</u>	Description
\$86.00	Pheasants Forever Monarch Pollinator Mix (.5 Acres)
\$44.00	(3) Applications of Glyphosate at recommended rate
\$280.00	Tractor and Tiller Rental
\$96.00	Signage
<u>\$485</u>	<u>Total Cost</u>

# Turfgrass vs. Pollinator Savings

- On average, over a 10-y time frame, pollinator habitat was between 80 and 90% less expensive than maintaining lawns.
- Long term management consists of mowing or burning every 3–5 years

Janke, A. K., Tyndall, J. C., & Bradbury, S. P. (2021). Financial analysis of converting rural lawns to pollinator habitat. *Journal of Fish and Wildlife Management*, 12(1), 151-164.  
<https://doi.org/10.3996/JFWM-20-047>



Average per acre year-to-year present value costs and annualized costs of three different land use and management options for rural lawns across a 10-y management horizon and a 2% discount rate on a hypothetical 1-acre midwestern parcel. Lawn care (self) includes expenses related to land owners or managers maintain a lawn on their own. Lawn care (hired) includes expenses related to contracted lawn care. Pollinator habitat includes expenses related to conversion of lawns to pollinator habitat in the midwestern United States. All costs are in USD 2020.

# Project Funding

## Pheasants Forever Pollinator Program Grant

- Pollinator Habitat Program will provide financial assistance and training for PF/QF chapters to engage youth, families and local communities in establishing pollinator habitat projects. The objectives of this program are to educate participants on the importance of pollinators and pollinator habitat as well as establish quality pollinator habitat projects.
- Carver County Pheasants Forever will pay for the entire project up front. The Chapter will then be reimbursed up to \$500.00 (i.e. seed cost, wildflower plugs, signs, site prep, educational materials, food/water for education day).



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# Laketown Pollinator Plot Phases

## Phase 1 - July & September

Plot will be sprayed with Glyphosate to remove turfgrass

## Phase 2 - Spring 2025

Plot will be tilled and a 3rd round of Glyphosate will be applied

## Phase 3 - Spring 2025

Pollinator seed will be drilled into the soil

## Phase 4 - Summer/Fall

Weed plot with help from the Waconia Conservation Club

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# Thanks!

Do you have any questions?

**Ben Brettingen**

[Bpbrettingen@gmail.com](mailto:Bpbrettingen@gmail.com)

952.239.3829



2. **IAQ and Abatement Project Updates**

**Presenter:** Tim Bisek,  
Director of Buildings  
and Grounds

3. **Community Education and Buildings and Grounds  
Purchase of Field Maintenance Equipment**



## MEMORANDUM

**TO:** ISD 110 Administration

**FROM:** Steven Jenson, Community Education and Tim Bisek, Buildings and Grounds

**DATE:** 7/23/2024

**SUBJECT: Purchase of a Kromer with GPS Painter**

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### **Purpose**

A Kromer is a ride-on field painter that can be a multipurpose piece of equipment that can also be used to groom ball fields and sweep the turf.

Swozi GPS attachment is a GPS painter that can plot out fields without manually plotting out fields with string lines. This is attached to the Kromer.

### **History and/or Context**

Currently Waconia Schools owns 1 Kromer that does not have a gps attachment that is used to paint field lines manually and groom ball fields. It takes 2 weeks and two people to manually set up fields in the spring.

Waconia has 19 ball fields, and 18 green space fields that are used by the school district. Waconia schools have multiple parking lots at 7 different locations.

### **Proposal Summary**

The purchase of a new Krommer with GPS attachment, would give the grounds crew the ability to map out fields via GPS and paint them within two days each season. Currently it would take the crew 1 to 2 weeks to manually measure out field lines each season. This would save more than 10 days of work in the fall and 10 days in the spring. With the spring seasons in Minnesota being so unpredictable, this time savings is critical to have lines painted for sports teams to compete.

The past two spring seasons we have contracted a GPS Painter, \$11,000 each year to paint fields because we did not have the time to manually paint lines because of weather.

Spring field painting if weather allows (2 Weeks)

- 80 hrs of staff time x 2 staff
- \$27/hr and \$15/hr
- \$3,600

### Outsourced GPS painting

- 1 day
- \$11,000

### Painting with New Kromer and GPS (2 Days)

- 16 hrs x 2 staff
- \$27/hr and \$15/hr
- \$672

We would still use the existing painter after all the lines have been painted initially via the new Kromer with GPS. This would give us two painters and cut the continuous painting needed after mowing in half. We would also have another machine used to prep ball fields before practices and games.

Also, we would use the existing painter to do touch up paint jobs in the parking lots during the summer. We do not want to use the new painter for this because the paint required to paint parking lot lines is different, and can cause much more wear and tear on the pump being used.

### **Measures of Success**

Waconia schools would have the equipment needed to touch up parking lot paint jobs, and paint all fields without having to outsource a company to come paint our facilities. This would be an investment that would save the district time and money.

### **Potential Pitfalls**

The original Kromer would be used to touch up parking lot paint jobs. The parking lot paint is more abrasive and could shorten the life of a paint pump in the machine. We would then replace the pump which is much cheaper than outsourcing parking lot paintings.

Swozi has hundreds of GPS arms in the industry with little known issues. Any damage would be at the owner's expense. Software updates would be ongoing through the cloud, to your tablet. 2 year warranty on any parts. Kromer would take care of any installations, if needed.

Kromer would provide installation and training, along with tech support. Swozi also has a manufacturing Rep to answer any questions as well.

### **Proposal Cost Estimates**

**Cost:** \$59,245

**CE will cover** \$44,433.75

**ISD 110 Buildings and Grounds department will cover** \$14,811.25

### **Funding**

Community Education would pay this cost out of the Community Ed Fund Balance. Community Education has maintained a healthy fund balance and this is a great way to become more efficient and provide a better experience for our community members.

Buildings and Grounds would pay this cost out of a capital equipment budget designated specifically for purchases of this nature. As a result, there will be no additional funding required.

## **Timeline**

Fall 2024 Kromer company does a full demo and training on our fields.

Winter 2024 Kromer ordered and delivered

Spring 2025 Kromer is in use on our facilities

SWOZI



THE SWOZI WAY  
SPORTS FIELD LINE MARKING

# LINE MARKING WITHOUT STRINGS AND MEASURING TAPES?

Enjoy the high efficiency, flexibility and cost savings the SWOZI solution can bring you!

# 1

## MORE THAN 75% TIME SAVING

- Optimal work efficiency
- 75 % time saving
- Reduced ink consumption



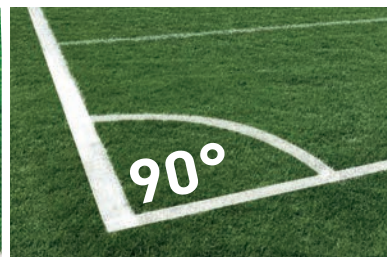
# 2

## 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.

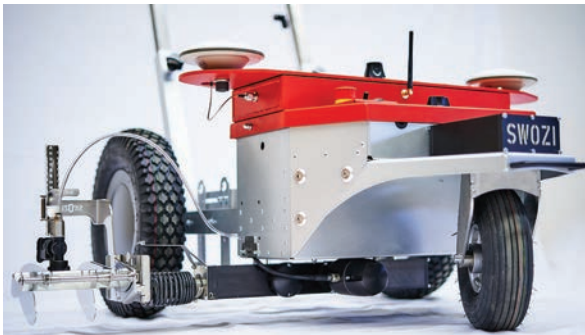
# 3

## UTMOST FLEXIBILITY AND FREEDOM

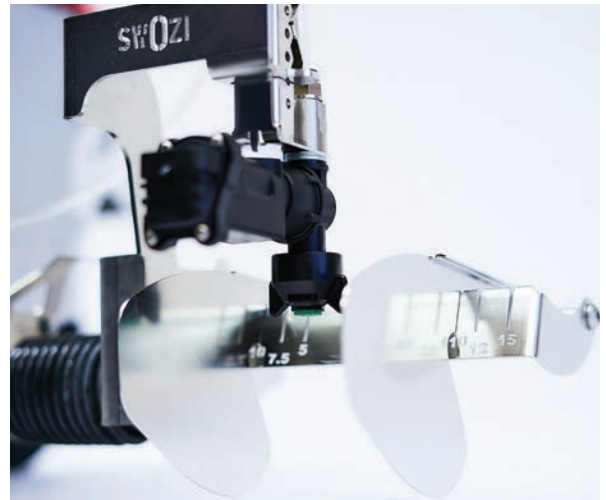
### NO MORE STRINGS AND TAPES

- + 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.

# THE SWOZI SOLUTION – THREE DIFFERENT MODELS

## KROMER GPS POWERED BY SWOZI



Swози attachment can be added to any Kromer model for GPS accurate painting.

## SWOZI CART PRO – LASER



With the laser tracker you can also mark 100% accurate when there is no satellite reception. As a supplement to the GPS solution or as a stand-alone solution. Especially in covered stadiums or on sports fields surrounded by dense trees, the GPS signal can be too weak.

## SWOZI CART PRO – AUTO



Automatic line marking is convenient. Capped at 7km/h it marks every sports turf with the desired field layout. 100% accurate by GPS. Keep an eye on it though.

## SWOZI CART PRO – RIDE ON



The ride-on variant is the most efficient solution for sports facilities with many sports fields or for contractors. The ride-on unit can easily be docked to the SWOZI within seconds. Let's go!



Kromer Company  
2415 W Industrial Blvd Unit 1  
Long Lake, MN 55356  
(763)443-0431 cell

KROMER COMPANY  
2415 W Industrial Blvd  
Unit1  
Long Lake, MN 55356  
800.373.0337  
www.kromerco.com



## FC1 Pro™ Field Maintainer Tractor Specifications

Rev9.5

### Design

- Computer aided design/Computer aided manufacturing - CAD/CAM
- Patented designs with other patents pending
- Precision laser cut and powder coated painted parts with infused labels directions
- Modular components and assembly for quality, reliability and ease of repair and maintenance
- Both natural turf and artificial turf - indoor and outdoor
- Painting, grooming, spraying, fence line, weed removal, and utility capabilities
- Removal of painted lines, logos, end zones on synthetic and natural turf

### Propulsion System

- Engine V-Twin Cylinder
  - Honda GX630 20.8 hp
- Fuel System
  - 6 gal. Capacity, 5 gal. Main, 1 gal. reserve, aluminum fuel tank with tethered gas cap
- Hydraulics
  - Parker hoses and fittings with dual filtration
  - Propel pump
    - Infinitely variable, bidirectional, axial piston pump design
    - Direct coupled, tandem configuration, with auxiliary accessory pump
  - Wheel Motors
    - 2 Fixed displacement, bi-directional, high torque orbital wheel motors
    - Rated 7250 lb. rear axle capacity
  - Auxiliary pump
    - Positive displacement, gear pump
    - 6CM<sup>3</sup>/rev and 5.46 GPM
  - Cooling system for hydraulics
    - Aluminum hydraulic fluid heat exchanger. Augments engine compartment cooling.
    - 12V, 5.4A fan 280 CFM
    - 8" x 8" x 4.5"
  - Hydraulic fluid tank with sight gauge and internal filter
    - 5.4 gal. system capacity
  - Wheels and tires
    - Front 16 x 17.5 - 8 low ground pressure 4 ply TurfTech
    - Rear 23 x 10.50 - 12 low ground pressure 4 ply TurfTech
  - Forward speed variable 13 MPH – reverse speed variable 3 MPH

### Electrical System

- Voltage / Amperage – 12V, 20 ampere charge
- Battery – 340CCA / 425CA
- 12V accessory receptacle - charger port
- Gauge package, hour meter, volt meter, paint PSI
- All harness wirings color - coded for ease of maintenance and troubleshooting
- High quality connectors - commercial soft shell pin and socket
- Quick disconnect couplers at forward accessories
- Modular assemblies for ease of maintenance and troubleshooting

## Paint /Water/Chemical Tank and Spraying System

- Top quality hoses and fittings
- Brass regulator / stainless steel internals
- Kromer engineered Hypro Ultra Pressure Paint Pump 290 PSI 6 GPM
- Built in storage compartment and cup holder
- Paint systems options
  - Ultra pressure paint system can save up to 50% in paint costs
  - Low Pressure dust control electric pump system
  - Spray boom 3 sizes
  - 4 liner box options available
- Tank system
  - 65 gal. capacity
  - Custom patented design 62.5 gal. paint / water / chemical capacity
  - Durable corrosion proof high quality rotomolded plastic
  - Integral 2.5 gal. fresh water rinse tank (tank within a tank)
  - Easy outboard fill location for both tanks
    - Quick lock lid on main tank
    - Double filtration (basket filter, in-line bowl filter / strainer)
    - In-tank agitation
  - Easy-rinse sloped sump system with 100% positive drain
  - Cleans systems 3 ways
    - Water hose flush main tank
    - Connect water hose to inlet selector valve
    - Clean paint nozzles, paint lines and paint pump with integral fresh water tank in about 2 minutes

## Ergonomics

- Ezy Fast Fill™ system transfer pump pumps paint directly from a 5 gal. 70 lb paint pail into main tank. Transfer pump also decreases viscosity of paint, making easier to mix with water.
- Transfer pump – Diaphragm electric, non-choke valves, run dry capable, self-priming, high-flow
- Large operator compartment - increased steering wheel clearance, large foot wells, improved design accelerator foot pedal
- Cool grey seat with lumbar support has adjustable: variable - rate suspension, seat back angle, armrest height and angle, fore / aft movement
- Main painter head – foot operated lift assist (greatly reduced effort - 72% reduction)
- All controls clearly marked
  - Special process image infused graphics lasting durable powder coat finish
  - Easy to read color coded grouped controls and receptacles

## Versatility

- 40 + options and accessories - Custom modifications available
- Rear attachments
  - Quick Change System
    - No tools / 1 - 2 minute changes
    - Hydraulic raise, lower and lock for precise depth of grooming
    - Float mode provides versatility for variety of field types, multiple conditions and speed grooming

## Dimensions

- Main tractor without options or accessories
  - Weight 989 LBS - Length 82.6" - Width 45.6" - Height 52.3"

## Warranty

- 3 yr. Limited Warranty, 3 yr. Manufacture Engine



KROMER COMPANY

Kromer Company  
2415 W Industrial BLVD  
Unit1  
Long Lake, MN 55356

Toll Free: (800) 373-0337  
Phone: (763) 746-4040  
Fax: (763) 746-4041

To:

Waconia ISD #110  
512 Industrial Blvd  
Waconia, MN 55387  
Attn: Jake Hannes

### Quotation

Quotation: 3104

Date: 6/12/2024

Price quotes are good for (30) days. Prices are stated and payable in US Dollars.  
A fee of 3.5% on Invoices paid with credit card if over \$3000.  
Payments due in 30 days. After due date a 1.5% interest charge will be added unless discussed prior to ordering.

Sales Contact: A&N

Terms: Net 10

Item	Description	Qty	Sales Price	Total
FC1	FC1 Pro™ Field Maintainer Tractor, Honda GX630 V-Twin Engine 20.8 HP, 6 gallon gas tank, 5 gallon main, 1 gallon reserve, Fully Hydraulic System with Parker hoses and fittings with dual filtration, Dual Front PTO's Hydraulic rear quick attach system. Includes Suspension Seat. Warranty is 3 years on parts, 1 year on labor.	1	23,550.00	23,550.00T
LP65HP	Ultra-Pressure Line Painter System, Pressure up to 300 psi - Capacity: 65 Gallons (US) (Includes Dual Line Painter)	1	6,450.00	6,450.00T
FCGPS_SWOZI	Field Commander GPS Painter SWOZI Arm Kit Includes RTK Base Station	1	27,250.75	27,250.75T
FCGPS-TABLET	Field Commander Android Tablet for SWOZI GPS Painter	1	1,099.00	1,099.00T
Shipping & Han...	Subtotal Shipping & Handling For Swozi System import fee and Shipping)	1	895.00	58,349.75 895.00T
	Swozi System requires a Pre-Payment of \$27,250.75 + \$895 S&H = \$28,145.75 before System is ordered and then will be built and shipped to Kromer for assembly to the Kromer Unit.			

ALL PRICES QUOTED IN US DOLLARS  
TAXES, CUSTOMS, AND BROKER FEES ARE CUSTOMERS RESPONSIBILITY

Quote accepted by:  
  
\_\_\_\_\_  
Signature & Date

<b>Subtotal</b>	\$59,244.75
<b>Sales Tax (0.00)</b>	\$0.00
<b>Total</b>	\$59,244.75

4. **Timelines for Levy and Audit**

5. **June Cash Reconciliation**

