



FINANCE COMMITTEE

Monday, October 30, 2023 4:30 PM

Administration Conference Room, City Hall

- 1. Call to Order**
- 2. Financial Updates**
 - A. City Administrator Approvals
- 3. Action Items**
 - A. Approve the minutes for the October 9, 2023, meeting
 - B. Approve a small construction agreement with J. Richardson Construction to replace concrete trail in English Landing Park and to add dumpster pad in Platte Landing Park (Parks)
 - C. Approve a construction agreement with J. Richardson Construction for the Gateway Park project (Parks)
 - D. Approve the purchase order with Most Dependable Fountains for drinking fountains for the parks (Parks)
 - E. Renew an intergovernmental agreement with Mid-America Regional Council Solid Waste Management District for the 2023 Regional Household Hazardous Waste Collection Program (Public Works)
 - F. Approve a purchase order with State Tractor for salt and sand material for emergency snow operations (Public Works)
- 4. Non-Action Items**
- 5. Unfinished Business (postponed from prior meetings)**
- 6. Other Business**
- 7. Adjourn**



CITY ADMINISTRATOR
PURCHASING APPROVAL

Preparation date: 10/9/2023

CITY OF PARKVILLE

Department: Administration

Low Bidder and
Contract Amount:

ICC Community Development Solutions
781 Elmgrove Road
Rochester, NY, 14624

\$6,700.00

General Scope of Work Description/Project: Records Management Software

In order to increase the City's operational excellence, the Board of Aldermen adopted a strategic goal for 2022-2023 to procure software that will enhance citizen input and increase staff efficiency for City operations.

The Board of Aldermen asked staff to research software options to process records requests that also had an online portal. After participating in several demos, staff felt that because of the high cost compared to the low number of requests received each year, the software was not necessary. Staff instead recommends purchasing records management software with public access to official City documents through an online portal. The software will improve internal efficiencies and help save space because most paper records will be scanned into the system.

Competitive Purchasing Information: (List bidder, address, and price):

Staff researched options and reached out to eight vendors (see Exhibit A). Quotes for software that met our needs were:

Company	Setup Cost	Annual Fee	Total
MCCI (Laserfiche)	\$ 20,090.00	\$ 7,120.00	\$ 27,210.00
ICC (Laserfiche)	\$ 1,700.00	\$ 5,000.00	\$ 6,700.00
Vista Solutions	\$ 9,100.00	\$ 3,250.00	\$ 12,350.00

The City Clerk participated in a demo from MCCI, but because cost exceeded the budget she was not going to recommend it for a demo. Several staff participated in demos of the remaining options and recommend purchasing Laserfiche through ICC. Even though the annual cost for Vista is lower, the set-up costs were higher and staff felt Laserfiche was more user-friendly.

Project Start Date: 10/9/2023

Estimated Completion Date: 12/31/2023

Budget Account Code: 10-555.02-02-00

Authorization:

☒ City Administrator: Alex Barton Date: 10/9/23
☒ Department Head: Melissa McCreary Date: 10/9/23
☐ Mayor (if applicable): _____ Date: _____
☐ Submit to the Finance Committee for Authorization (if requested by the City Administrator)

AUTHORIZATION & AGREEMENT

The City of Parkville, Platte County, Missouri hereby agrees to the procedures outlined above, to ICC Community Development Solutions Terms & Conditions and to the License Agreements for the software referred to above, all of which are available at <https://icc-cds.com/terms-conditions>, and are incorporated herein by reference, and authorizes ICC-CDS to proceed with the project.

Electronic Document Management Project

\$6,700.00

Estimated Annual support fee second year forward (SAAS): \$5,000.00

If/when the client wishes to implement the additional modules included with their licenses, there may be additional development, configuration and training time required. These additional service fees would not apply until you are ready and agree to implement additional components.

SOFTWARE ORDER, PAYMENT AND PERFORMANCE SCHEDULE

\$5,000.00 of the project price shall be invoiced upon customer site activation.

\$1,700.00 of the Configuration and Training services shall be invoiced upon their completion.

(Client please fill out) Invoice for this Project to be sent to:

Department: Administration

Contact Name: Melissa McChesney

CITY OF PARKVILLE, PLATTE COUNTY, MISSOURI

By: Alexa Barton

In the Presence of: Melissa McChesney

Title: City Administrator

Title: City Clerk

Date: October 9, 2023

Date: October 9, 2023

ICC-CDS, LLC

By: [Signature]

In the Presence of: Susan Harkenrider

Title: General Manager

Title: Proposal & Inside Sales Rep

Date: 10/10/23

Date: 10/10/23

To authorize the project:

1. Sign the Proposal and return to your Solutions Account Executive
2. Fax or email the Authorization & Agreement Section only to: ICCCDS@icc-cds.com • fax (585) 328-8189
3. Mail the signed Proposal to ICC-CDS at: 781 Elm Grove Road • Rochester, NY 14624

Exhibit A

Records Management Software Cost Comparison

<u>Company</u>	<u>Setup Cost</u>	<u>Annual Fee</u>	<u>Total</u>		<u>2nd Year</u>	<u>3rd Year</u>	<u>4th year</u>	<u>Notes</u>
MCCI (Laserfiche)	\$ 20,090.00	\$ 7,120.00	\$ 27,210.00		\$ 7,120.00			
*ICC (Laserfiche)	\$ 1,700.00	\$ 5,000.00	\$ 6,700.00		\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	
Vista Solutions	\$ 9,100.00	\$ 3,250.00	\$ 12,350.00		\$ 3,250.00	\$ 3,250.00	\$ 3,250.00	
Granicus govQA	\$ -	\$ 4,000.00	\$ 4,000.00		\$ 4,579.60			Records requests only
Granicus govRecords	X	X	X					Too robust for our needs
DocuLock	X	X	X					Scanning services only
Hyland	X	X	X					For larger organizations
DocuWare	X	X	X					No public portal



CITY ADMINISTRATOR
PURCHASING APPROVAL

Preparation date:

10/10/2023

City of Parkville

Department: Parkville Parks and Recreation

Low Bidder and
Contract Amount:

BBN Architects, Inc.
411 Nichols Road, Ste. 246
KCMO 64112
816-753-2550
\$9,980

General Scope of Work Description/Project:

Provide Farmers Market Design Recommendations.

Proposal for the Farmers Market Design Recommendation is attached.

BBN Architects - \$1,420

Confluence - \$8,560

Total \$9,980

Competitive Purchasing Information: (List bidder, address, and price):

BBN and Confluence have the background and history on this project. BBN is an on-call architect for the City of Parkville so competitive bids were not necessary.

Project Start Date: Estimated Completion Date: 10/25/2023

Budget Account

41-560.52-50-00

Code:

Authorization:

- ☐ City Administrator: _____ Date: _____
- ☐ Department Head: _____
- ☐ Mayor (if applicable): _____
- ☐ Submit to the Finance Committee for Authorization (if requested by the City Administrator)



CITY ADMINISTRATOR
PURCHASING APPROVAL

Preparation date: 9/21/2023

City of Parkville

Department: Parkville Parks and Recreation

Low Bidder and
Contract Amount:

Robert Young, PLS

RL Buford & Associates, LLC

201 Main St., Suite 6, Parkville, MO 64152

Mailing: PO Box 14069, Parkville, MO 64152

816-741-6152

rob@rlbuford.com

\$2,600

General Scope of Work Description/Project:

Site Survey at the Detention Pond

River North Development, who developed the Parkville Commons shopping center, deeded the several parcels of property around the Parkville Athletic Complex (PAC) detention pond to Platte County. Platte County then conveyed the property to the City of Parkville to be used for both right-of-way and park uses. Ordinance No. 2173 was approved December 21, 2004.

The City is working on a long-term maintenance management plan for this area. Key items include the parking lot, detention pond, trail, and two large retaining walls. This survey will identify the boundaries of the city, the county, the PAC, and adjacent property owners.

Competitive Purchasing Information: (List bidder, address, and price):

R.L. Buford is the On-Call Surveyor for the City of Parkville.

Project Start Date: 10/19/2023 Estimated Completion Date: 11/1/2023

Budget Account Code: 41-525.08-02-02

Authorization:

- ☐ City Administrator: _____ Date: _____
- ☐ Department Head: _____
- ☐ Mayor (if applicable): _____
- ☐ Submit to the Finance Committee for Authorization (if requested by the City Administrator)



CITY ADMINISTRATOR
PURCHASING APPROVAL

Preparation date: 9/13/2023

City of Parkville

Department: Parkville Parks and Recreation

Low Bidder and
Contract Amount:

Bret Cleveland
Urban Tree Specialists
PO Box 901422
Kansas City, MO 64190
\$3,250.00

General Scope of Work Description/Project:

Tree Removal at Detention Pond

Removal of 20 volunteer trees that pose a risk to the drainage basin at the detention pond behind the PAC. Removal of other miscellaneous trees, shrubs, logs, limbs, and debris near the drainage area and around the walking trail. These trails pose a risk to the drainage tube and the detention pond. Several of the trees have fallen over due to a Beaver problem. This scope includes haul away and dump.

Competitive Purchasing Information: (List bidder, address, and price):

Urban Tree Specialists is the On-Call Arborist for the City of Parkville.

Project Start Date: Estimated Completion Date: 10/15/2023

Budget Account
Authorization:

41-525.07-53-00

Code:

- ☐ City Administrator: _____ Date: _____
- ☐ Department Head: _____
- ☐ Mayor (if applicable): _____
- ☐ Submit to the Finance Committee for Authorization (if requested by the City Administrator)



CITY ADMINISTRATOR
PURCHASING APPROVAL

Preparation date: 10/24/2023

CITY OF PARKVILLE

Department: Public Works

Low Bidder and
Contract Amount:

Fluid Equipment, A Cogent Co.
4525 NW 41st St., Suite 400
Riverside, MO 64150

\$9,824.81 WA-18

General Scope of Work Description/Project:

ABS Mixer Repair

This project is for the repair of the ABS mixer on aeration basin #1. In September 2023 the mixer started having mechanical issues and was removed from service to determine the equipment status status. Upon removal it was determined that repairs could be made at a price lower than replacement and it would be repaired and later put back into service.

Competitive Purchasing Information: (List bidder, address, and price):

This work is awarded to Fluid Equipment under our existing maintenance services agreement.

Project Start Date: 9/1/23

Estimated Completion Date: 11/30/23

Budget Account Code: 30-501.6-01-00

Authorization:

- ☒ City Administrator: [Signature] (Acting) Date: 10/25/23
☐ Department Head: [Signature] Date: 10-25-23
☐ Mayor (if applicable): _____ Date: _____
☐ Submit to the Finance Committee for Authorization (if requested by the City Administrator)



CITY OF PARKVILLE • 8880 Clark Avenue • Parkville, MO 64152 • (816) 741-7676 • FAX (816) 741-0013

Work Authorization #18

Date: October 10, 2023

Issued to: Fluid Equipment, A Cogent Co.
4525 NW 41st St., Suite 400
Riverside, MO 64150

Project/Work Description

Title: ABS RW 6522 Mixer - Repair
Scope of Work/Purpose: Estimate #7055373 - Attached

Schedule and Price

Project Start Date: October 10, 2023
Estimated Completion Date: February 29, 2024
Latest Acceptable Date: TBD
Estimated Cost: \$9,824.81
Expenditure Limit: \$9,824.81
Budget Account Code: 30-501.06-01-00

Acceptance of this work authorization constitutes agreement to perform the work described above in accordance with the City of Parkville Terms and Conditions for maintenance projects.

Name/Title: JASON ROBERTSON/PRESIDENT Signature: [Signature]
Company: Fluid Equipment Date: 10-16-2023

Authorization
Department Head: [Signature] Date: 10-24-23

Dan Harper, Public Works Director
City Administrator (if over \$2,500): [Signature] Date: 10/25/2023
Alexa Barton, City Administrator

Mayor (if over \$10,000) _____ Date: _____

Mayor Dean Katerndahl

For Internal Staff Use Only

(initial each item and file with executed work authorization)

- ____ Employment Eligibility Status Verification (if the cost exceeds \$5,000)
☒ Certificate of Insurance that demonstrates compliance with the Terms and Conditions
☒ Valid business license

SERVICE ESTIMATE

Customer: City Of Parkville, MO Contact : Jason Brown Date: 09/19/2023 Phone: 816-741-7676 Fax: Project: ABS RW 6522 Mixer - Repair Quote #: 7055373 Opp #: OP-578494	Fluid - Municipal Kansas City 4525 NW 41st St, Suite 400 Riverside, MO 64150 Phone: 816-795-8511 Fax: 816-795-8926	 FLUID EQUIPMENT A COGENT COMPANY
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Dear Jason,

We are pleased to offer the following estimate for your review.

Line No	Quantity	Description of Unit	Net Each	Net Ext.
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Estimate for the repair of ABS Mixer.

*Estimate does not include removal, installation, or transportation of pump
Any labor or materials needed for repair of equipment outside of a motor, mechanical seals,
bearings, o-rings, and cable will be quoted as additional before proceeding.*

1		ABS RW 6522 Mixer - Repair Serial Number - 30316	Materials	\$6,662.81
			Labor	\$3,162.00
			Total	\$9,824.81
2		ABS RW 6522 Mixer - Replacement	Total	\$26,542.27

Delivery: 12 - 14 week(s) after receipt of P.O.
 FOB Point: Shipping Point
 Terms of Payment: Upon Receipt
 Quote Validity: 15 Days

Thank you for the opportunity to provide you with this estimate. Please let us know how you would like to proceed.

Quoted By:
 Alexis Davis
 adavis@cogentcompanies.com

Salesrep:
 Jason Robertson
 jrobertson@fluidequip.com
 816-606-0153



CITY ADMINISTRATOR
PURCHASING APPROVAL

Preparation date: 10/25/2023

CITY OF PARKVILLE

Department: Public Works

Low Bidder and
Contract Amount:

H&H Septic Service Inc.
4525 NW 41st St., Suite 400
Riverside, MO 64150

\$4,842.64 WA-1

General Scope of Work Description/Project:

8405 Lakeview Drive Repair

This project is for an emergency repair to the low pressure sewer system that was on the city side at the end of September.

Competitive Purchasing Information: (List bidder, address, and price):

This work is awarded to H&H Septic Service under our existing on-call contractor services agreement.

Project Start Date: 9/20/23

Estimated Completion Date: 9/30/23

Budget Account Code: 30-501.07-34-00

Authorization:

☒ City Administrator:

Date:

☐ Department Head:

Date:

☐ Mayor (if applicable):

Date:

☐ Submit to the Finance Committee for Authorization (if requested by the City Administrator)



CITY OF PARKVILLE • 8880 Clark Avenue • Parkville, MO 64152 • (816) 741-7676 • FAX (816) 741-0013

Work Authorization #160 (OC)

Date: September 28, 2023
Issued to: H & H Septic Service Inc.
13325 N. Silver Ridge Dr.
Platte City, MO 64079

Project/Work Description

Title: 8405 Lakeview Dr. – Repair Broken 1 ¼" Discharge Line
Invoice No. 55069 Attached

Schedule and Price

Project Start Date: 9/28/2023
Estimated Completion Date: 10/2/2023
Latest Acceptable Date: 10/2/2023
Estimated Cost: \$2,937.50
Expenditure Limit: \$2,937.50
Budget Account Code: 30.501.07-34-00

Acceptance of this work authorization constitutes agreement to perform the work described above in accordance with the City of Parkville Terms and Conditions for maintenance projects.

Name/Title: Regina Moore *Bookkeeping Office Manager*
Signature: *[Signature]*
Company: H & H Septic Service Inc. **Date:** 10-9-2023

Authorization

Department Head: *[Signature]* **Date:** 10-25-23
Dan Harper, Public Works Director
City Administrator (if over \$2,500): *[Signature]* **Date:** 10/25/2023
Alexa Barton, City Administrator
Mayor (if over \$10,000): **Date:**

For Internal Staff Use Only

(initial each item and file with executed work authorization)

- ____ Employment Eligibility Status Verification (if the cost exceeds \$5,000)
☒ Certificate of Insurance that demonstrates compliance with the Terms and Conditions
☒ Valid business license

H & H Septic Service Inc

13325 N Silver Ridge Dr
Platte City MO 64079

Invoice

Date	Invoice #
9/28/2023	55069

Bill To
CITY OF PARKVILLE 8880 CLARK AVENUE PARKVILLE MO 64152

P.O. No.	Terms	Project
JASON	Net 30	

Quantity	Description	Rate	Amount
4	BACKHOE LABOR	1,500.00	1,500.00
	VACUUM TRUCK	500.00	500.00
	LABOR 4 HOURS OF MAN LABOR	75.00	300.00
	PLUMBING PARTS	50.00	50.00
	LABOR PROFIT & OVERHEAD @ 25%	587.50	587.50
JOB SITE: 8405 LAKEVIEW DRIVE PARKVILLE RISS LAKE JOB: TO REPAIR BROKEN 1 1/4" DISCHARGE LINE			
Total			\$2,937.50



CITY ADMINISTRATOR
PURCHASING APPROVAL

CITY OF PARKVILLE

Department: Public Works

Preparation date: 10/24/2023

Low Bidder and
Contract Amount:

Mcintire Management Group
120 E 15th Avenue
North Kansas City, MO 64116

\$5,876.00 PO-2

General Scope of Work Description/Project:

Commander Odor Control Chemical

This purchase order is for the procurement of Commander odor control chemical. This chemical is needed to reduce latent odors that originate in the sewer system impacting primarily the downtown area. As part of the Odor Control System Rehabilitation project an alternative chemical is being procured instead of Robin 4000 due to the primary tank being out of commission. In addition this chemical was proposed for city use as an alternative to Robin 4000 and is being used on a small quantity trial basis to determine local effectiveness.

Competitive Purchasing Information: (List bidder, address, and price):

This purchase was awarded to McIntire as they were the only local supplier that could provide a chemical that would address the storage issues during the odor control project.

McIntire Management Group – 120 E 15th Ave., North Kansas City, MO 64116 - \$5,876.00.

Project Start Date: 10/1/23

Estimated Completion Date: 10/31/23

Budget Account Code: 30-501.07-91-00

Authorization:

☒ City Administrator: [Signature] Date: 10/25/23

☐ Department Head: [Signature] Date: 10-25-23

☐ Mayor (if applicable): _____ Date: _____

☐ Submit to the Finance Committee for Authorization (if requested by the City Administrator)

PURCHASE ORDER 2
(non-construction)

CITY OF PARKVILLE (PURCHASER)
8880 Clark Avenue
(816) 741-7676

Date: September 6, 2023

Upon proper acceptance, we agree to purchase from you upon terms and conditions set forth below and on the attached pages hereto.

VENDOR McIntire Management Group
120 E 15th Avenue
North Kansas City, MO 64116
Phone: 816-746-6669

SHIP TO: Jason Brown, 12303 NW FF Highway, Parkville, MO 64152

INVOICE TO: 8880 Clark Avenue, Parkville, MO 64152

ALL MATERIAL SHALL BE DELIVERED TO PURCHASER FREIGHT PREPAID, UNLESS OTHERWISE SPECIFIED BELOW.

Vendor agrees to furnish following goods in accordance with the terms and provisions of this Purchase Order Agreement consisting of 5 pages including attachments. Purchaser agrees to pay the total sum of **FIVE THOUSAND EITHY HUNDRED SEVENTY-SIX DOLLARS AND NO/100 (\$5,876.00)** for such materials, subject to any additions or deductions agreed upon in writing. **Freight charges are included in purchase price and sales taxes will not be charged to the Purchaser as a tax exempt entity.** Purchaser will provide Vendor with a Tax Exemption Certificate upon request. Payment is to be made within thirty days after delivery of goods and receipt of invoice. This purchase order is only valid through August 31, 2023.

ITEMS:

Helix Commander 55 Gallon, WGT 490 LBS

New unit: \$5,876.00

See Attachment "A" - Terms and Conditions
See Attachment "B" - Insurance Requirements
See Attachment "C" - Quote

SCHEDULE OF DELIVERY:

F O B.

Jason Brown, 12303 NW FF Highway, Parkville, MO 64152

816-891-0003

NOTE: All Terms and Conditions for Purchase Order attached hereto are incorporated herein by reference and made a part of this Purchase Order. Vendor's signature and return of this document as presented, or its delivery of any of the items covered by this Purchase Order, shall constitute acceptance of all of its terms and conditions. If this Purchase Order is not signed and returned to Purchaser within ten (10) days of the date stated on page 1 above, however, it may be deemed voidable at the option of Purchaser. Payment shall not be due until Vendor has furnished Purchaser, with the required Certificates of Insurance and any other documents required by Purchaser.

All terms in any offer, bid, order acknowledgement or other document that are inconsistent with the terms stated herein are explicitly rejected and not a part of this Purchase Order.

CITY OF PARKVILLE, MISSOURI. ("Purchaser")

MCINTIRE MANAGEMENT GROUP ("Vendor")

By: Alexa BartonTitle: Alexa Barton, City Administrator

Date: _____

By: Kelsie AmelaTitle: Admin AssistantDate: 9.21.2023



Invoice

Date	Invoice #
8/22/2023	25148

Bill To	
CITY OF PARKVILLE 8880 CLARK AVENUE PARKVILLE, MO 64152	

Ship To
CITY OF PARKVILLE 12303 NW HIWAY FF PARKVILLE, MO 64152

P.O. Number							Due Date	
VBL							9/21/2023	
C.S.	S.O. #	Rep	Payment Terms	Ship Date	Freight Terms	Shipped Via		F.O.B.
KKG	8652	BW-MO	Net 30	8/22/2023	PPA	OTHER		FACTORY
Quantity	Item Code	Description			U/M	Price Each	Amount	
4	MHEL-COMMA...	HELIX COMMANDER 55 GALLON, WGT 490LBS				1,320.00	5,280.00	
1	FREIGHT - NON...	NON TAXABLE FREIGHT				596.00	596.00	
						Total	\$5,876.00	

Change Order 1

PROJECT (*Name and address*):
2023 Curb Repair & Replacement Program

CHANGE ORDER NUMBER: 1
DATE: August 30, 2023

TO CONTRACTOR (*Name and Address*):
Terry Snelling Construction, Inc.
20004 E. Yocum Rd.
Independence, MO 64058

PROJECT NO.: _____
CONTRACT DATE: 5/16/2023

THE CONTRACTOR IS CHANGED AS FOLLOWS:

The original Contract Sum was	\$ 85,025.00
The net change by previously authorized Change Orders	\$ 0.00
The Contract Sum prior to this Change Order was	\$ 85,025.00
The Contract Sum will be increased by this Change Order in the amount of	\$ 2,148.00
The new Contract Sum including this Change Order will be	\$ 87,173.00

The Contract Time will be increased by thirty (30) days.
The date of Substantial Completion as of the date of this Change Order therefore is 8/22/23.

This Change Order represents a complete and final resolution of all matters concerning or arising out of the work described in the Change Order, including any impact, delay, disruption and/or acceleration of work unless specifically identified herein.

NOT VALID UNTIL SIGNED BY THE CONTRACTOR AND OWNER.

Terry Snelling Construction, Inc.
CONTRACTOR (*Firm name*)

City of Parkville
OWNER (*Firm Name*)

20004 E. Yocum Rd., Independence, MO
64058

8880 Clark Ave.
Parkville, MO 64152

ADDRESS

ADDRESS

BY (*Signature*)

BY (*Signature*)

Terry Snelling
(*Typed name*)

Dan Harper, PW Director
(*Typed name*)

9-21-2023
DATE

DATE



Finance Committee Meeting
Monday, October 9, 2023 4:30 PM
Administration Conference Room, City Hall

Minutes

1. Call to Order

Chair Wylie called the meeting to order at 4:29 p.m. A quorum was present.

Members Present: Chair Douglas Wylie, Vice Chair Bob Bennett, Dean Katerndahl, Philip Wassmer and Michael Lee

City Staff Present: City Administrator Alexa Barton, Deputy City Administrator/Finance Director Bryan Kidney, Police Chief Kevin Chrisman (*via videoconference*), Public Works Director Dan Harper, Parks & Recreation Project Manager Chris Ashley and City Clerk Melissa McChesney

2. Financial Updates

A. City Administrator Approvals

City Administrator Alexa Barton provided an overview of purchases within her authority.

3. Action Items

A. Approve the minutes for the September 11, 2023, meeting

Bob Bennett moved to approve the minutes for the September 11, 2023, meeting. Philip Wassmer seconded; motion passed 5-0.

B. Approve an agreement with Columbia Capital Municipal Advisors for advisory and consulting services

Deputy City Administrator/Finance Director Bryan Kidney said that the proposed agreement would include four major areas of municipal advisory services. Staff worked with Baker Tilly on the neighborhood improvement district debt and bond issues for the sewer system at the Creekside development. Their customer service level was affected because of staff transition, so staff recommended the agreement with Columbia Capital, who had similar fees to Baker Tilly.

City Administrator Alexa Barton said staff would seek their help with the revenue forecasts for the Creekside development and have them review the project.

Adam Pope, Columbia Capital Municipal Advisors, said they were investment advisors and would review the City's investment policy.

Bennett moved to recommend that the Board of Aldermen approve an investment and advisory services professional services agreement with Columbia Capital Management, LLC. Wassmer seconded; motion passed 5-0.

C. Approve a purchase order with Central Salt for straight salt for emergency snow

operations

Public Works Director Dan Harper stated that the purchase order would set the unit price per ton for salt for the 2023-2024 winter season. The Mid-America Regional Council negotiated the unit price and made it available to participating communities under a cooperative purchasing agreement. He added that staff also compared their prices with other vendors.

Bennett moved to recommend that the Board of Aldermen approve a purchase order with Central Salt for straight salt for the 2023-2024 winter season. Wassmer seconded; motion passed 5-0.

D. **Approve Work Authorization No. 12 with Fluid Equipment Co. to replace the pump at the River Hills Pump Station**

Public Works Director Dan Harper said that the system at the River Hills Pump Station failed in July, which required manual operations until it was fixed. Several things were completed through different work authorizations, one of which was for an emergency repair and the other was for follow-up service, and an additional work authorization would be needed to install the pump. He added that the cost to repair the pump was more than the cost to purchase a new pump.

Bennett moved to recommend that the Board of Aldermen approve an agreement with Fluid Equipment Co. to purchase the pump at the River Hills Pump Station in the amount of \$13,240. Wassmer seconded; motion passed 5-0.

4. Non-Action Items

5. Unfinished Business (postponed from prior meetings)

6. Other Business

7. Adjourn

Chair Wylie adjourned the meeting at 4:58 p.m.

Submitted by:

Melissa McChesney
City Clerk

Approval Date

CITY OF PARKVILLE
Policy Report

Date: October 17, 2023

Prepared By:

Brittanie Propes, Parks & Recreation Director

Reviewed By:

Alexa Barton, City Administrator

ISSUE:

Approve a small construction agreement with J. Richardson Construction to replace concrete trail in English Landing Park and to add dumpster pad in Platte Landing Park (Parks)

BACKGROUND:

In 2022, the northern portion of the concrete English Landing Park (ELP) trail, adjacent to the Waddell A-Truss bridge was replaced, regraded and widened. The trail was failing in areas and was too narrow for several of our large races. The Community Land & Recreation Board recommended that staff budget to replace and widen the southern portion of the trail adjacent to the bridge in 2023.

There is also a need for staff to have a dumpster in Platte Landing Park (PLP) to efficiently empty the trash bins in that park. The dumpster will be placed on a new concrete slab that will be located south of the existing restrooms. There will be fencing around the dumpster to prevent illegal dumping and for aesthetic purposes.

These two projects were combined into one concrete project to meet concrete delivery minimums and save money.

STRATEGIC GOAL(S):

- Infrastructure and Public Facilities
- Parks and Recreation

BUDGET IMPACT:

The Trail Replacement and the Dumpster Pad projects are budgeted in the 2023 Parks Capital Improvement Projects. The budget includes \$10,000 for the ELP trail and \$12,000 for the PLP Dumpster Pad. The cost of concrete has significantly increased since 2022, so after receiving initial bids that were over \$20,000, per City policy, staff put this project out for a sealed bid.

ALTERNATIVES:

1. Approve the item agreement for the concrete projects.
2. Approve the item, subject to changes.
3. Do not approve the item.
4. Postpone the item.

FINANCE COMMITTEE RECOMMENDATION:

STAFF RECOMMENDATION:

Staff recommends approving an agreement with J.Richardson Construction for the Trail Replacement at English Landing Park and the Dumpster Pad at Platte Landing Park in the amount of \$26,000.

POLICY:

The Purchasing Policy, Resolution No. 17-016, requires Board of Aldermen approval for all purchases above \$10,000 upon recommendation of the Finance Committee.

SUGGESTED MOTION:

I move to recommend that the Board of Aldermen approve the agreement with J.Richardson Construction for the trail replacement at English Landing Park and the dumpster pad at Platte Landing Park in the total amount of \$26,000.

ATTACHMENTS:

1. Bid Tabulation
2. Agreement
3. Specifications

BID TABULATION

SIDEWALK REPLACEMENT IN ELP AND NEW DUMPSTER PAD IN PLP

Bid Opening Tuesday, October 3, 2023

10:30 a.m., Public Works Conference Room

Bidder Name	LUMP SUM BASE
J. Richardson Cont. Olathe, KS	\$26,000
MTS Contracting, Inc. N. KCMO	\$44,400
SIG Liberty, MO	\$45,535
Terry Snelling Const., Inc. Independence, MO	\$32,100
VS Services, LLC KCKS	\$45,449

(*) Recommended Award of Purchase

CITY OF PARKVILLE, MO
AGREEMENT BETWEEN CITY OF PARKVILLE
AND CONTRACTOR
FOR
Sidewalk Replacement in English Landing Park and New Dumpster
Pad in Platte Landing Park

This agreement is made and entered into this 17th day of October, 2023, by and between the City of Parkville, Missouri, (hereinafter the "City") and J. RICHARDSON CONSTRUCTION (hereinafter the "Contractor").

WITNESSETH:

WHEREAS, the City, in the manner prescribed by law, has publicly opened, examined and evaluated the Bids submitted, and as a result of this process has, in accordance with the law, determined and declared the Contractor to be the lowest and best responsible bidder for the construction of the public improvements, and has duly selected the Contractor for award of a contract therefor upon the terms and conditions set forth in this Agreement for the sum or sums stated below.

WHEREAS, the City has caused to be prepared, in accordance with the law, Notice to Bidders, Instructions to Bidders, Bid, this Agreement, General and Special Conditions, Plans, Specifications and other documents as identified below and as further defined in the General Conditions(collectively referred to as "the Contract Documents"), for the work therein described, and has approved and adopted these said Contract Documents and has caused to be published, in the manner and for the time required by law, an advertisement inviting sealed Bids for furnishing construction materials, labor, tools, equipment and transportation necessary for, and in connection with, the construction of public improvements in accordance with the terms of this Agreement; and

WHEREAS, the Contractor, in response to the advertisement, has submitted to the City, in the manner and at the time specified, a sealed Bid in accordance with the terms of this Agreement; and

WHEREAS, the City, in the manner prescribed by law, has publicly opened, examined and evaluated the Bids submitted, and as a result of this evaluation has, in accordance with the law, determined and declared the Contractor to be the lowest and best responsible bidder for the construction of the public improvements, and has duly selected the Contractor for award of a contract therefor upon the terms and conditions set forth in this Agreement for the sum or sums set forth below.

NOW, THEREFORE, in consideration of the compensation to be paid the Contractor, and of the mutual agreements herein contained, the parties hereto have agreed, and hereby agree, the City for itself and its successors and the Contractor for itself, its, successors and assigns, as follows:

ARTICLE I. The Contractor will furnish at its own cost and expense all labor, tools, equipment, materials and transportation required to construct and complete the work designated, described and required by the Contract Documents, all in accordance with the Contract Documents, on file with the City Clerk of Parkville, Missouri, all of which are as fully a part hereof as if repeated verbatim herein; all work to be done in a good, substantial and workmanlike manner to the entire satisfaction of the City, and in accordance with the laws of the City, the State of Missouri and the United States of America. All terms used herein shall have the meanings ascribed to them in the General Conditions unless otherwise specified.

ARTICLE II. The City shall pay to the Contractor for the performance of the work embraced in this Contract, and the Contractor will accept in full compensation therefor, the sum of **TWENTY-SIX THOUSAND**

DOLLARS AND NO/100 (\$26,000) (subject to adjustment as provided by the Contract Documents) for all work covered by and included in the Contract award and designated in the foregoing Article I, payment thereof to be made in cash or its equivalent and in the manner provided in the Contract Documents.

ARTICLE III. The contractor shall commence work upon the date stated in the Notice to Proceed and will complete all work by this Contract by 45 days. Time is of the essence. Accordingly, liquidated damages shall be assessed against Contractor, as stipulated liquidated damages and not as a penalty, in the amount of \$100.00 for each and every calendar day the work remains incomplete over the specified completion time.

ARTICLE IV. This Agreement shall not become effective, nor shall Contractor commence any work hereunder, until the City has received, and approved, the Certificate of Insurance and Additional Insured- and Notice of Cancellation Endorsements, the fully executed Performance and Payment Bonds with Powers of Attorney, and the list of proposed Subcontractors from Contractor.

ARTICLE V. This Agreement is entered into, under and pursuant to, and is to be construed and enforceable in accordance with the laws of the State of Missouri.

ARTICLE VI: The following documents are made part of this agreement by reference:

Exhibit A	General Conditions of the Contract
Exhibit A-1	Special Conditions of the Contract
Exhibit B-1	Performance Bond
Exhibit B-2	Payment Bond
Exhibit C	Drawings: Sheet 1. Partial English Landing Park Site Plan; 9/18/23 Sheet 2. Partial Platte Landing Park Site Plan; 9/18/23
Exhibit D	Specifications: None
Exhibit E	Contractor's Affidavit Acknowledging Federal Lobbying Activities and Conflict of Interest Prohibition
Exhibit F	Sales tax exemption documentation forms
Exhibit G	Contractor's Affidavit of Compliance with Non-Discrimination and Equal Employment Opportunity Laws
Exhibit H	Affidavit of Compliance with Safety Training Requirements (§292.675 R.S. Mo.)
Exhibit I	Affidavit of Compliance with R.S. Mo §285.530.6
Exhibit J-1	Applicable Missouri Prevailing Wage Rates
Exhibit J-2	Prevailing Wage Rate Reporting Form
Exhibit J-3	Certification of Compliance with Prevailing Wage Requirements
Exhibit K	Insurance Requirements
Exhibit L	Bill of Sale
Exhibit M	Bailment Agreement
Exhibit N	Conditional Partial Waiver of Lien and Release of Claims
Exhibit O	Conditional Final Waiver of Lien and Release of Claims Certificate of Substantial Completion Certificate of Final completion Construction Change Directive Change Order

WITNESS WHEREOF, the City of Parkville, Missouri, has caused this Agreement to be executed on its behalf, thereunto duly authorized, and the said Contractor has executed this contract in the prescribed form and manner, the day and year first above written.

CITY OF PARKVILLE, MISSOURI

By: _____
Dean Katerndahl

Title: Mayor

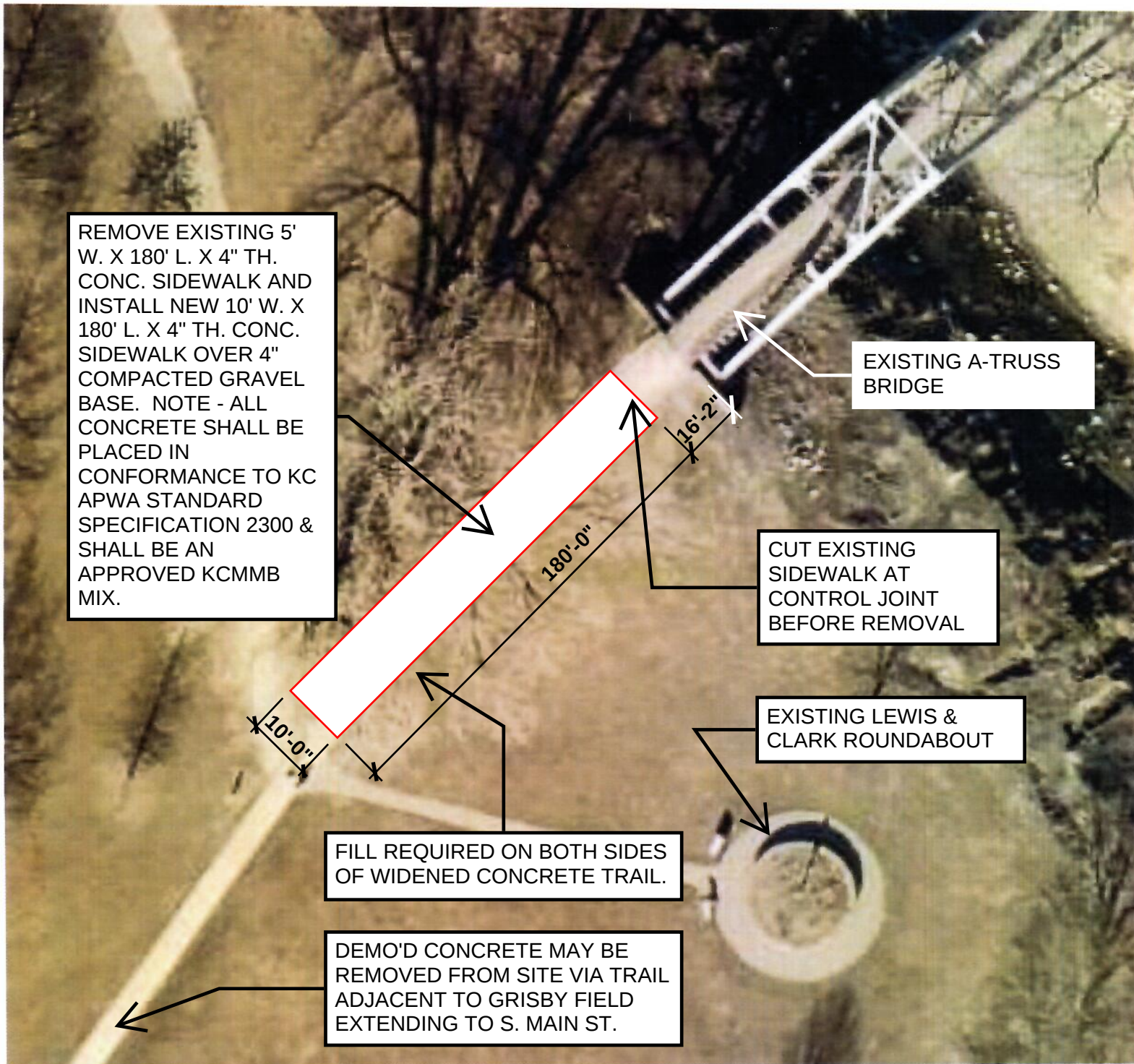
ATTEST:

Melissa McChesney, City Clerk

(SEAL)

J. RICHARDSON CONSTRUCTION
By: _____
Title: President

(If the Contract is not executed by the President of the Corporation or general partner of the partnership, please provide documentation, which authorizes the signatory to bind the corporation or partnership. If a corporation, Contractor shall furnish the City a current certificate of good standing, dated within ten (10) days of the date of this Contract.)



PARTIAL ENGLISH LANDING PARK SITE PLAN

NO SCALE

SIDEWALK REPLACEMENT IN ENGLISH LANDING PARK & DUMPSTER PAD IN PLATTE LANDING PARK

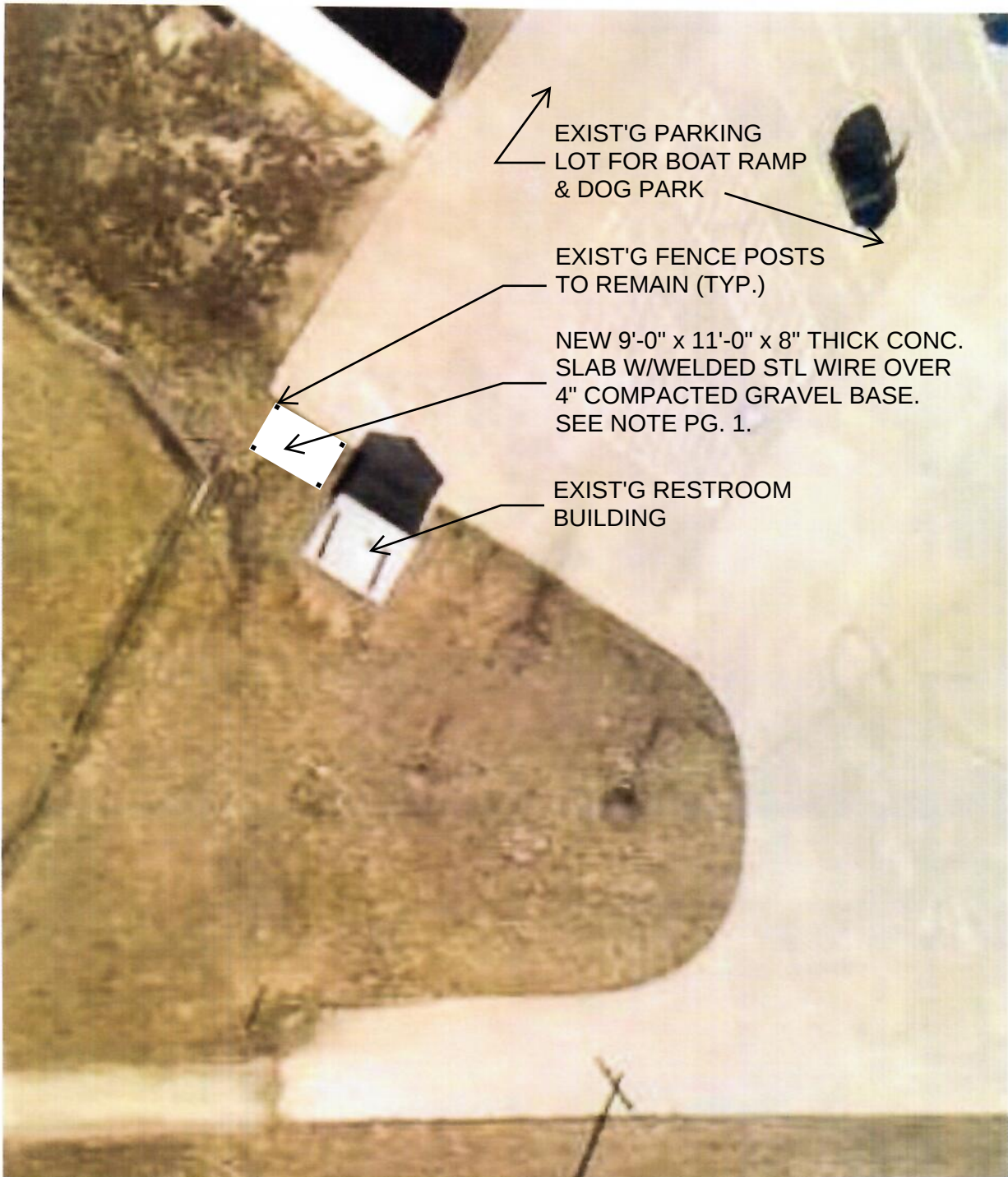


NORTH

1 OF 2

9/18/23

Page 27 of 68



PARTIAL PLATTE LANDING PARK SITE PLAN

NO SCALE

SIDEWALK REPLACEMENT IN ENGLISH LANDING PARK & DUMPSTER
PAD IN PLATTE LANDING PARK

↑
NORTH
2 of 2
9/18/23

**CITY OF PARKVILLE
Policy Report**

Date: October 17, 2023

Prepared By:

Brittanie Propes, Parks & Recreation Director

Reviewed By:

Alexa Barton, City Administrator

ISSUE:

Approve a construction agreement with J. Richardson Construction for the Gateway Park project (Parks)

BACKGROUND:

The park land is located on Route 9 and 62nd Street near the entrance of Pinecrest neighborhood. This land was donated to the City to be used as park land. In 2022, the City and stakeholders in the Pinecrest neighborhood met in June and again in October to discuss plans for this open space. The vision is to create a resting spot and trail head for the new sidewalks along Route 9. The park will include a drinking fountain, seating, landscaping and lighting.

The 2023 Capital Improvement Budget includes \$50,000 of funding for the Gateway Park Project. In January 2023, the City applied for a Platte County Parks and Recreation Outreach Grant and in March, we received notice of award for the grant in the amount of \$34,000. With the budgeted amount, the project budget is \$84,000.

The city contracted the on-call consultant, McClure engineering, for the project engineering and design. In September, the City put the project out for bids and two contractors submitted bids for this project:

- J. Richardson Construction - \$56,000
- Julius Kazz Construction- \$92,000

STRATEGIC GOAL(S):

- Infrastructure and Public Facilities
- Parks and Recreation

BUDGET IMPACT:

The Parks 2023 Capital Budget includes \$50,000 for the Gateway Park Project. The City was awarded a Platte County Outreach Grant for \$34,000, giving us a project budget of \$84,000.

ALTERNATIVES:

1. Approve a construction agreement with J. Richardson Construction for Gateway Park.
2. Provide direction to staff related to the construction of Gateway Park
3. Do not approve the item.

4. Postpone the item.

FINANCE COMMITTEE RECOMMENDATION:

STAFF RECOMMENDATION:

Staff recommends the approval of the construction agreement with J. Richardson Construction for the construction of Gateway Park.

POLICY:

The Purchasing Policy, Resolution No. 17-016, requires Board of Aldermen approval for all purchases above \$10,000 upon recommendation of the Finance Committee.

SUGGESTED MOTION:

I move to recommend that the Board of Aldermen approve the construction agreement with J. Richardson Construction for Gateway Park in the amount of \$56,000.

ATTACHMENTS:

1. Bid Tabulation
2. Agreement
3. Scope of Work

BID TABULATION

GATEWAY PARK

Bid Opening Tuesday, October 3, 2023
10:00 a.m., Public Works Conference Room

Bidder Name	LUMP SUM BASE	LUMP SUM ALTERNATE
J. Richardson Const. Olathe, KS	\$56,000	\$15,000
Julius Kazz Const. Leavenworth, Ks	\$92,000	\$25,955

(*) Recommended Award of Purchase

CITY OF PARKVILLE, MO

**AGREEMENT BETWEEN CITY OF PARKVILLE
AND CONTRACTOR
FOR
GATEWAY PARK**

This agreement is made and entered into this 7th day of November, 2023, by and between the City of Parkville, Missouri, (hereinafter the "City") and J. Richardson Construction (hereinafter the "Contractor").

WITNESSETH:

WHEREAS, the City, in the manner prescribed by law, has publicly opened, examined and evaluated the Bids submitted, and as a result of this process has, in accordance with the law, determined and declared the Contractor to be the lowest and best responsible bidder for the construction of the public improvements, and has duly selected the Contractor for award of a contract therefor upon the terms and conditions set forth in this Agreement for the sum or sums stated below.

WHEREAS, the City has caused to be prepared, in accordance with the law, Notice to Bidders, Instructions to Bidders, Bid, this Agreement, General and Special Conditions, Plans, Specifications and other documents as identified below and as further defined in the General Conditions(collectively referred to as "the Contract Documents"), for the work therein described, and has approved and adopted these said Contract Documents and has caused to be published, in the manner and for the time required by law, an advertisement inviting sealed Bids for furnishing construction materials, labor, tools, equipment and transportation necessary for, and in connection with, the construction of public improvements in accordance with the terms of this Agreement; and

WHEREAS, the Contractor, in response to the advertisement, has submitted to the City, in the manner and at the time specified, a sealed Bid in accordance with the terms of this Agreement; and

WHEREAS, the City, in the manner prescribed by law, has publicly opened, examined and evaluated the Bids submitted, and as a result of this evaluation has, in accordance with the law, determined and declared the Contractor to be the lowest and best responsible bidder for the construction of the public improvements, and has duly selected the Contractor for award of a contract therefor upon the terms and conditions set forth in this Agreement for the sum or sums set forth below.

NOW, THEREFORE, in consideration of the compensation to be paid the Contractor, and of the mutual agreements herein contained, the parties hereto have agreed, and hereby agree, the City for itself and its successors and the Contractor for itself, its, successors and assigns, as follows:

ARTICLE I. The Contractor will furnish at its own cost and expense all labor, tools, equipment, materials and transportation required to construct and complete the work designated, described and required by the Contract Documents, all in accordance with the Contract Documents, on file with the City Clerk of Parkville, Missouri, all of which are as fully a part hereof as if repeated verbatim herein; all work to be done in a good, substantial and workmanlike manner to the entire satisfaction of the City, and in accordance with the laws of the City, the State of Missouri and the United States of America. All terms used herein shall have the meanings ascribed to them in the General Conditions unless otherwise specified.

ARTICLE II. The City shall pay to the Contractor for the performance of the work embraced in this Contract, and the Contractor will accept in full compensation therefor, the sum of **SEVENTY-ONE THOUSAND DOLLARS AND NO/100 (\$71,000.00)** (subject to adjustment as provided by the Contract Documents) for all work covered by and included in the Contract award and designated in the foregoing Article I, payment thereof to be made in cash or its equivalent and in the manner provided in the Contract Documents.

ARTICLE III. The contractor shall commence work upon the date stated in the Notice to Proceed and will complete all work by this Contract by 75 days. Time is of the essence. Accordingly, liquidated damages shall be assessed against Contractor, as stipulated liquidated damages and not as a penalty, in the amount of \$100.00 for each and every calendar day the work remains incomplete over the specified completion time.

ARTICLE IV. This Agreement shall not become effective, nor shall Contractor commence any work hereunder, until the City has received, and approved, the Certificate of Insurance and Additional Insured- and Notice of Cancellation Endorsements, the fully executed Performance and Payment Bonds with Powers of Attorney, and the list of proposed Subcontractors from Contractor.

ARTICLE V. This Agreement is entered into, under and pursuant to, and is to be construed and enforceable in accordance with the laws of the State of Missouri.

ARTICLE VI: The following documents are made part of this agreement by reference:

Exhibit A	General Conditions of the Contract
Exhibit A-1	Special Conditions of the Contract
Exhibit B-1	Performance Bond
Exhibit B-2	Payment Bond
Exhibit C	Drawings: L100 – L106; Dated 9/8/23
Exhibit D	Specifications: None – (included on drawings)
Exhibit E	Contractor's Affidavit Acknowledging Federal Lobbying Activities and Conflict of Interest Prohibition
Exhibit F	Sales tax exemption documentation forms
Exhibit G	Contractor's Affidavit of Compliance with Non-Discrimination and Equal Employment Opportunity Laws
Exhibit H	Affidavit of Compliance with Safety Training Requirements (§292.675 R.S. Mo.)
Exhibit I	Affidavit of Compliance with R.S. Mo §285.530.6
Exhibit J-1	Applicable Missouri Prevailing Wage Rates
Exhibit J-2	Prevailing Wage Rate Reporting Form
Exhibit J-3	Certification of Compliance with Prevailing Wage Requirements
Exhibit K	Insurance Requirements
Exhibit L	Bill of Sale
Exhibit M	Bailment Agreement
Exhibit N	Conditional Partial Waiver of Lien and Release of Claims
Exhibit O	Conditional Final Waiver of Lien and Release of Claims
	Certificate of Substantial Completion
	Certificate of Final completion
	Construction Change Directive
	Change Order

WITNESS WHEREOF, the City of Parkville, Missouri, has caused this Agreement to be executed on its behalf, thereunto duly authorized, and the said Contractor has executed this contract in the prescribed form and manner, the day and year first above written.

CITY OF PARKVILLE, MISSOURI

By: _____
Dean Katermdahl

Title: Mayor

ATTEST:

Melissa McChesney, City Clerk

J. RICHARDSON CONSTRUCTION

By _____

Title President

(SEAL)

(If the Contract is not executed by the President of the Corporation or general partner of the partnership, please provide documentation, which authorizes the signatory to bind the corporation or partnership. If a corporation, Contractor shall furnish the City a current certificate of good standing, dated within ten (10) days of the date of this Contract.)

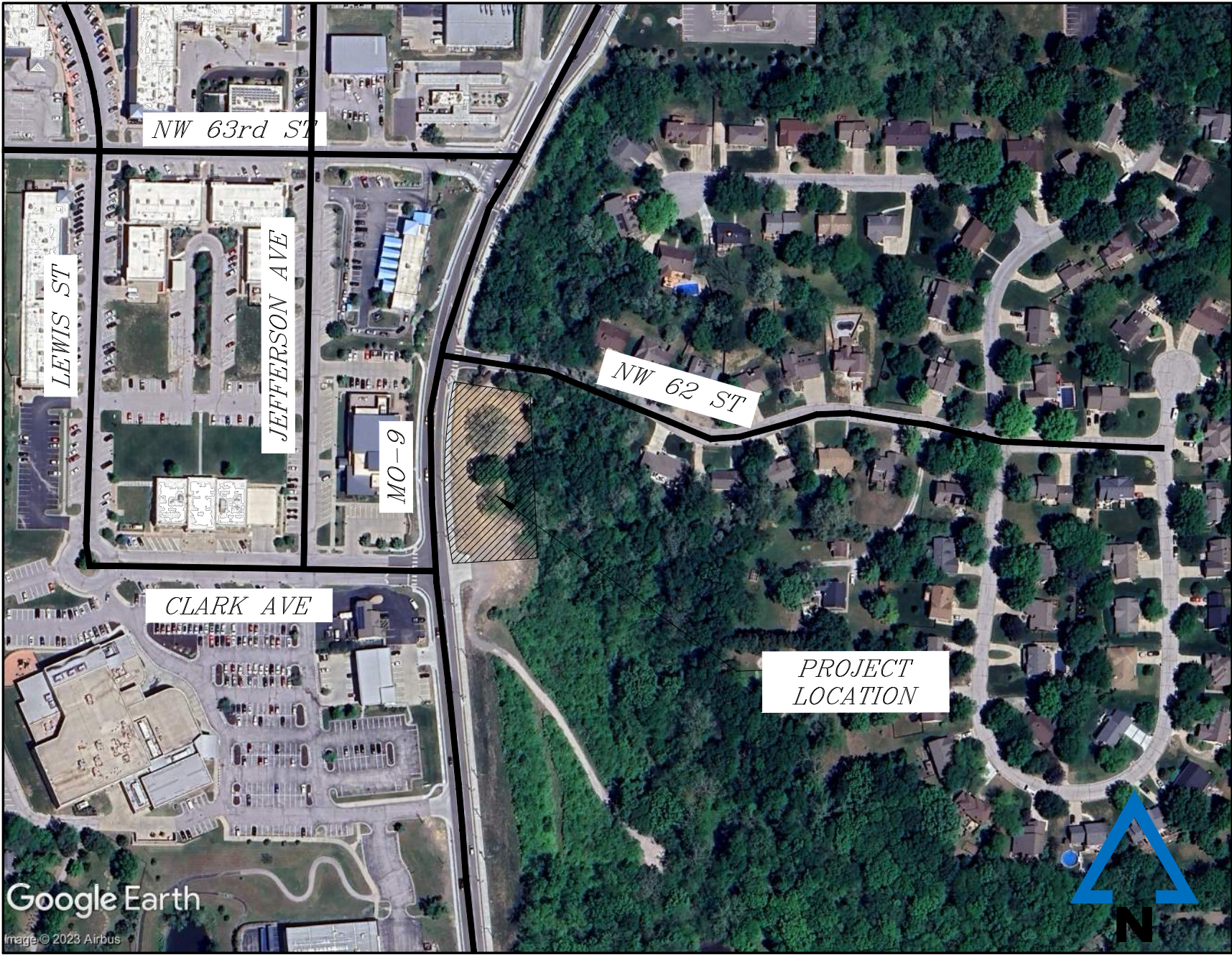
GATEWAY PARK CONSTRUCTION DOCUMENTS

LOCATED IN
SECTION 26 TOWNSHIP 51N, RANGE 34W
PARKVILLE, CLAY COUNTY, MISSOURI

AREA DISTURBED: 0.18 ACRES

PROJECT BENCHMARK

BENCHMARK ELEV.: 950.65'
CHISELED "+\" ON NE CORNER OF CURB INLET OFF MISSOURI
HIGHWAY NO. 9

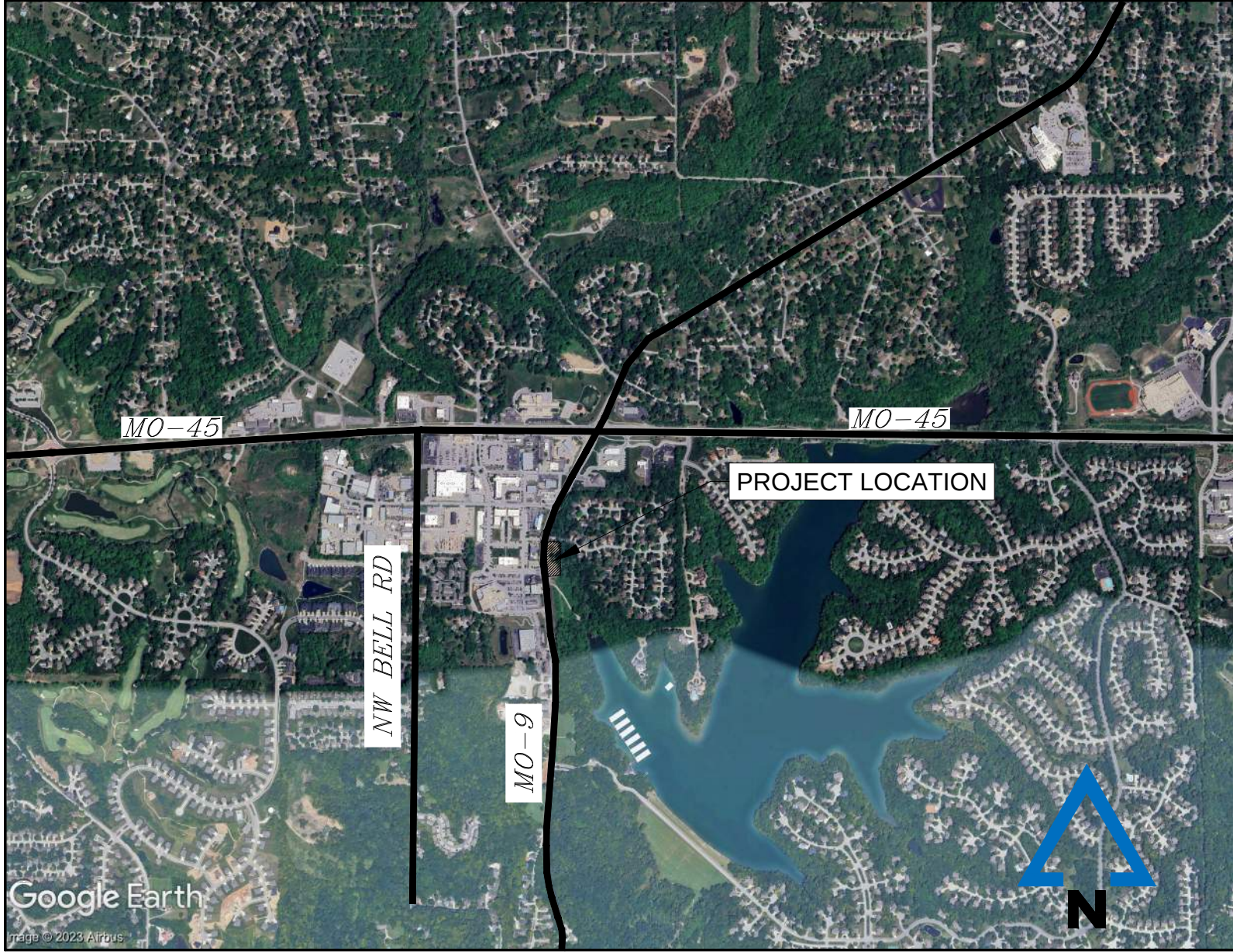


VICINITY MAP
NOT TO SCALE
SECTIONS 26, TOWNSHIP 51N, RANGE 34W

FLOODPLAIN:
PER THE "FLOOD INSURANCE RATE MAP", AS PUBLISHED BY FEDERAL EMERGENCY
MANAGEMENT AGENCY. OUR REVIEW OF THIS MAP INDICATES THAT THIS PARCEL OF LAND
LIES WITHIN ZONE X WHICH IS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL
CHANCE FLOODPLAIN" PER FIRM PANEL: 29165C0383D

LEGAL DESCRIPTION

N/A



LOCATION MAP
NOT TO SCALE
PARKVILLE, CLAY COUNTY, MISSOURI



UTILITY NOTE:
"THE UNDERGROUND UTILITIES HAVE BEEN SHOWN
PER GIS INFORMATION AND EXISTING DRAWINGS. THE
SURVEYOR MAKES NO GUARANTEE THAT THE
UNDERGROUND UTILITIES SHOWN COMPRISE ALL
SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR
ABANDONED. THE SURVEYOR FURTHER DOES NOT
WARRANT THAT THE UNDERGROUND UTILITIES
SHOWN ARE IN EXACT LOCATION INDICATED."

Sheet List Table	
Sheet Number	Sheet Title
L100	COVER
L101	NOTES
L102	DEMO
L103	SITE PLAN
L104	DIMENSIONS
L105	GRADING
L106	SITE DETAILS

"I HAVE READ REVIEWED THESE PLANS AND UNDERSTAND WHAT IS
PROPOSED. ANY INCIDENTAL WORK NOT SPECIFICALLY PERMITTED
(I.E. FINAL CLEANUP) WILL BE COMPLETED BY THE GENERAL
CONTRACTOR"

CITY OF PARKVILLE, MO
(OWNER/OWNER'S REPRESENTATIVE)

DATE

I HEREBY CERTIFY THAT THIS PROJECT HAS BEEN DESIGNED, AND
THESE PLANS PREPARED, TO MEET OR EXCEED THE DESIGN CRITERIA
OF PARKVILLE, MISSOURI IN CURRENT USAGE, EXCEPT AS INDICATED
BELOW:

Joy D. Rhea

JOY D. RHEA (NAME)

9-8-2023

(DATE)

DEVELOPER: CITY OF PARKVILLE ADDRESS: 8880 CLARK AVENUE PARKVILLE, MO 64152	
PHONE: EMAIL:	816.268.5020 - PARKS DIRECTOR BPROPS@PARKVILLE.MO
PLANNER & CIVIL ENGINEER MCCLURE ENGINEERING CONTACT NAME: JOY RHEA ADDRESS: 1700 SWIFT ST STE 100 NORTH KANSAS CITY, MO 64116 816.502.3915 JRHEA@MCCLUREVISION.COM	
PHONE: EMAIL:	
SURVEYOR MCCLURE ENGINEERING CONTACT NAME: R. L. BUFORD & ASSOCIATES ADDRESS: P.O. BOX 14069 PARKVILLE, MO 64152 816.741.6152	
PHONE:	

NOT FOR CONSTRUCTION ☐ PROJECT NO.: 2023000016-000
REVIEWED FOR CONSTRUCTION ☒ FILE NO.:

McCLURE
1700 Swift Ave., Suite 100
North Kansas City, Missouri 64116
P 816-756-0444
F 816-756-1763
Ankeny, IA | Carroll, IA | Clive, IA
Cedar Rapids, IA | Fort Dodge, IA
North Liberty, IA | Sioux City, IA
Macon, MO | Columbia, MO
North Kansas City, MO
Lenexa, KS

NOTICE:
McClure Engineering Co. is not
responsible or liable for any issues,
claims, damages, or losses
(collectively, "Losses") which arise
from failure to follow these Plans,
Specifications, and the engineering
intent they convey, or for Losses
which arise from failure to obtain
and/or follow the engineers' or
surveyors' guidance with respect to
any alleged errors, omissions,
inconsistencies, ambiguities, or
conflicts contained within
the Plans and Specifications.

MISSOURI CERTIFICATE OF
AUTHORITY NO. E-2006023253
EXPIRES: DECEMBER 31, 2024



REVISIONS

PROJECT INFO
2023000016-000

ENGINEER DRAWN BY CHECKED BY

GATEWAY PARK
6201 MO-9
PARKVILLE, MISSOURI 64152
COVER SHEET

DRAWING NO.
L100

P:\2023000016-000\04-Drawings\Civil\Construction Documents\2023000016 - COVR.DWG

GENERAL NOTES:

1. ALL CONSTRUCTION OPERATIONS MUST BE ACCOMPLISHED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS FOR THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
2. ALL SITE WORK MUST ALSO COMPLY WITH APPLICABLE ENVIRONMENTAL REQUIREMENTS.
3. ALL ON-SITE CONSTRUCTION MUST BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
4. ALL CONSTRUCTION IN THE CITY R.O.W. AND/OR EASEMENTS SHALL BE IN ACCORDANCE WITH THE CITY OF PARKVILLE, MISSOURI STANDARD SPECIFICATIONS, AS AMENDED.
5. WHEN REQUIRED, CONTRACTOR SHALL REMOVE PAVEMENT IN ACCORDANCE WITH THE MISSOURI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, LATEST EDITION.
6. THE CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANIES PRIOR TO CONSTRUCTION ADJUSTMENTS OR RELOCATION OF EXISTING UTILITIES.
7. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENT DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO DRAINAGE STRUCTURES, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
8. THE CONTRACTOR SHALL PROTECT ALL BENCHMARKS AND PROPERTY MONUMENTATION AND SHALL REPLACE OR REPAIR, AT HIS/HER OWN EXPENSE. BENCHMARKS AND MONUMENTATION DISTURBED DURING CONSTRUCTION.
9. IF THE CONTRACTOR RELOCATES OR SETS NEW BENCHMARKS, THE VERTICAL ELEVATION OF THE BENCHMARKS SHALL BE SET WITHIN A TOLERANCE OF 0.010 FEET.
- 10.DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
11. ALL STRIPING, PAVEMENT MARKINGS, AND TRAFFIC SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, UNLESS OTHERWISE NOTED ON THE PLANS.
12. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH OCCUR DUE TO HIS/HER FAILURE TO LOCATE AND PRESERVE ANY AND ALL UTILITIES. CONTRACTOR SHALL LOCATE ALL UTILITIES, PUBLIC AND PRIVATE, PRIOR TO COMMENCING ANY WORK.
13. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED AND GRADED TO ORIGINAL GRADES UNLESS OTHERWISE NOTED.

DEMOLITION NOTES:

1. ALL WORK TO BE ACCOMPLISHED IN STRICT ACCORDANCE WITH ALL LOCAL ORDINANCES, CITY OR STATE.
2. WITHIN THE SUBJECT PROPERTY, THE INTENT IS TO HAVE A CLEAN, CLEAR SITE, FREE OF ALL EXISTING ITEMS NOTED TO BE REMOVED IN ORDER TO PERMIT THE CONSTRUCTION OF THE NEW PROJECT. DEMOLITION OF SOME EXISTING BUILDINGS ON-SITE WAS COMPLETED UNDER SEPARATE CONTRACT BY OTHERS.
3. FOR ALL STRUCTURES NOTED TO BE REMOVED - REMOVE ALL UTILITIES SHOWN OR NOT, CUT AND CAP ALL UNDERGROUND LINES AT THE PROPERTY LINE UNLESS OTHERWISE NOTED.
4. FOR ALL ITEMS NOTED TO BE REMOVED - REMOVE NOT ONLY THE ABOVE GROUND ELEMENTS, BUT ALL UNDERGROUND ELEMENTS AS WELL INCLUDING BUT NOT NECESSARILY LIMITED TO: FOUNDATIONS, GRAVEL FILLS, TREE ROOTS, OLD PIPE, ETC.
5. BACKFILL ALL EXCAVATIONS RESULTING FROM THE DEMOLITION WORK TO MEET THE REQUIREMENTS FOR FILL OUTLINED IN THE PROJECT SOILS REPORT.
6. ALL TREES OUTSIDE OF THE LIMITS OF DISTURBANCE, SHALL REMAIN, UNLESS OTHERWISE NOTED.

EROSION CONTROL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION, INSPECTION, AND MAINTENANCE OF EROSION CONTROL. CONTRACTOR SHALL PROVIDE A COPY OF THE EROSION CONTROL PLAN TO ALL CONTRACTORS AND UTILITIES PRIOR TO ANY WORK WITHIN THE DEVELOPMENT. CONTRACTOR MAY IMPART/CONVEY RESPONSIBILITY FOR INSPECTION, MAINTENANCE, AND REMEDIATION TO UTILITY COMPANIES FOR WORK UNDER THEIR CONTROL.
2. CONTRACTOR WILL BE RESPONSIBLE FOR FOR THE IMMEDIATE REMOVAL OF SOIL TRACKED ON PAVED STREETS.
3. INSPECTION OF EROSION CONTROL SHALL OCCUR AT LEAST ONCE EVERY 14 DAYS AND WITHIN 24 HOURS FOLLOWING A RAINFALL OF ONE HALF OF AN INCH OR GREATER AS MEASURED AT THE SITE. ANY DEFICIENCIES SHALL BE NOTED IN A REPORT OF THE INSPECTION AND CORRECTED WITHIN SEVEN CALENDAR DAYS OF THE INSPECTION. THE OWNER SHALL PROMPTLY NOTIFY THE SITE CONTRACTORS RESPONSIBLE FOR OPERATION AND MAINTENANCE OF EROSION CONTROL DEFICIENCIES.
4. MAINTENANCE OF EROSION CONTROL SHALL INCLUDE NECESSARY REPAIRS, REMOVAL OF SEDIMENT, AND ANY NECESSARY MODIFICATIONS.
5. SILT FENCE WILL BE INSTALLED AS SHOWN WITH MODIFICATIONS (AS APPROVED BY THE OWNER) AS NECESSARY AT THE TIME OF INSTALLATION TO FIT EXISTING CONDITIONS.
6. TOPSOIL MUST BE STOCKPILED UPSTREAM OF SILT FENCE.
7. SILT FENCE SHALL BE RELOCATED IMMEDIATELY DOWNSTREAM OF ANY ADDITIONAL GRADING OR TRENCHING REQUIRED TO COMPLETE WORK SHOWN ON THESE PLANS.
8. SOIL STOCKPILES OR OTHER AREAS DISTURBED DURING THE COURSE OF CONSTRUCTION ACTIVITIES WHICH WILL REMAIN FOR PERIODS GREATER THAN THREE WEEKS SHALL BE STABILIZED BY SEEDING OR OTHER ACCEPTABLE MEANS.
9. FOR ALL DISTURBED AREAS, STABILIZATION OF DISTURBED AREAS MUST, AT A MINIMUM, BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING, OR OTHER SOIL DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. THE DISTURBED AREAS SHALL BE PROTECTED FROM EROSION BY MAINTAINING THE EROSION CONTROL, OR STABILIZING THE AREA WITH MULCH OR OTHER SIMILARLY EFFECTIVE SOIL STABILIZING METHOD. INITIAL STABILIZATION ACTIVITIES MUST BE COMPLETED WITHIN 21 DAYS.
10. UPON FINAL GRADING, ALL DISTURBED AREAS SHALL BE STABILIZED BY SEEDING AND MULCHING WITHIN TWO WEEKS. WHEN THIS OCCURS OUTSIDE THE STANDARD SPECIFICATION SEEDING DATES, SEED SHALL CONSIST OF TEMPORARY COVER CROP OF ANNUAL RYE OR WHEAT. ALL OTHER DISTURBED AREAS NOT EXPECTED TO BE SUBSEQUENTLY DISTURBED WITHIN THE FOLLOWING 6 WEEKS SHALL BE SEEDED WITH A TEMPORARY COVER CROP OF ANNUAL RYE OR WHEAT.
11. ALL EROSION CONTROL SHALL REMAIN IN PLACE UNTIL ALL UPSTREAM VEGETATIVE COVER IS ESTABLISHED UNLESS OTHERWISE APPROVED BY THE ENGINEER.

UTILITY NOTES:

1. CONTRACTOR TO BE RESPONSIBLE FOR VERIFYING & APPLYING FOR UTILITY SERVICE WITH EACH UTILITY PROVIDER PRIOR TO STARTING CONSTRUCTION. OWNER TO REIMBURSE GENERAL CONTRACTOR FOR ALL SANITARY SEWER, GAS AND WATER TAP FEES.
2. AN ATTEMPT HAS BEEN MADE TO LOCATE ALL UTILITY MANHOLES, METER COVERS, AND OTHER SUCH UTILITY ITEMS FROM SURVEY INFORMATION. UNDERGROUND UTILITY LINES AND STRUCTURES SHOWN ARE PER RECORDS MADE AVAILABLE BY THE OWNER, UTILITY COMPANY OR MUNICIPALITY, AND BY FIELD OBSERVATION WHERE POSSIBLE. ALL MUNICIPALITIES AND UTILITY COMPANIES SHOULD BE NOTIFIED BY CONTRACTOR FOR FIELD LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES, INCLUDING SERVICE LINES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT MISSOURI ONE CALL SYSTEM (811) OR (1-800-DIG-RITE) AS WELL AS THE CITY OF PARKVILLE PUBLIC WORKS AND AT LEAST 48 HOURS BEFORE THE START OF WORK AND VERIFY ALL EXISTING UTILITY LOCATIONS.
3. TOPOGRAPHIC INFORMATION SHOWN IS BASED ON A FIELD SURVEY PERFORMED BY R.L. BUFORD IN 2023. IF THE CONTRACTOR FINDS A DISCREPANCY BETWEEN THE PLANS AND FIELD CONDITIONS, HE SHALL NOTIFY THE CIVIL ENGINEER IMMEDIATELY.
4. LOCATION OF UTILITIES IS NOT GUARANTEED AND THE CONTRACTOR SHALL USE EXTREME CAUTION DURING EXCAVATION, USING HAND EXCAVATION AS NECESSARY TO LOCATE AND PROTECT UTILITY LINES.
5. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF THE UTILITY COVERS WITHIN THE PROJECT LIMITS AND ADJUST THOSE ITEMS TO BE AT THE FINISHED GRADES IN EITHER THE SIDEWALK OR PAVEMENT AREAS WITHOUT ADDITIONAL COST TO THE OWNER. THE RELOCATION OF SUCH ITEMS SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
6. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL INFORMATION SHOWN ON PLANS.
7. REPAIR OF UTILITY LINES DAMAGED BY THE CONTRACTOR SHALL BE AT THE CONTRACTOR'S EXPENSE.
8. PROPER COORDINATION WITH THE RESPECTIVE UTILITY COMPANIES SHALL BE PERFORMED BY THE CONTRACTOR TO INSURE THAT ALL UTILITY COMPANY, LOCAL MUNICIPALITY AND LOCAL COUNTY STANDARDS FOR MATERIALS AND CONSTRUCTION METHODS ARE MET.
9. THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH THE RESPECTIVE UTILITY COMPANIES FOR SERVICE INSTALLATIONS AND CONNECTIONS AND MAIN SERVICE RELOCATIONS. THE CONTRACTOR SHALL COORDINATE THE WORK TO BE PERFORMED BY THE VARIOUS UTILITY COMPANIES AND SECURE ALL PERMITS AND PAY ALL FEES FOR CONNECTIONS, DISCONNECTIONS, RELOCATIONS, INSPECTIONS AND DEMOLITION AS NECESSARY
10. CONTRACTOR SHALL PROVIDE SLEEVES UNDER FOOTINGS OR THROUGH FOUNDATIONS FOR UTILITY CONNECTIONS.
11. CONTRACTOR SHALL PROVIDE ALL BENDS, FITTINGS, ADAPTERS, ETC. AS REQUIRED FOR PIPE CONNECTIONS TO BUILDING STUB-OUTS.
12. ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION PRIOR TO APPROVAL FOR BACKFILL IN ACCORDANCE WITH THE APPROPRIATE UTILITY COMPANY, LOCAL MUNICIPALITY AND/OR LOCAL COUNTY REQUIREMENTS.
13. THE CONTRACTOR SHALL RESTORE ANY STRUCTURE, PIPE, PAVEMENT, CURBS, SIDEWALKS, APPROPRIATE LANDSCAPE AREAS, ETC. DISTURBED DURING CONSTRUCTION TO THE ORIGINAL CONDITION OR BETTER.
14. IN THE EVENT OF CONFLICT OF ANY REQUIREMENTS OR PROVISIONS OF THE WORK INDICATED HEREIN, MCCLURE SHALL BE NOTIFIED IMMEDIATELY FOR A DETERMINATION OF THE PLAN REQUIREMENTS AND INTENT THEREOF.
15. UTILITY CONNECTION DESIGN AS REFLECTED ON THE PLAN MAY CHANGE SUBJECT TO UTILITY COMPANY AND LOCAL AGENCY REVIEW.
16. SEE THE MECHANICAL, ELECTRICAL AND PLUMBING SITE PLAN(S) FOR ADDITIONAL SITE UTILITIES AND SITE LIGHTNING.

GRADING NOTES:

1. CONTRACTOR SHALL ENSURE THAT ALL AREA OF THE SITE MAINTAIN POSITIVE DRAINAGE AND THAT TRANSITIONS BETWEEN PROPOSED CURBS AND EXISTING CURBS AND BETWEEN DIFFERENT CURB AND GUTTER TYPES ALLOW FOR POSITIVE DRAINAGE AND WILL NOT CAUSE PONDING.
2. CONTRACTOR SHALL ENSURE FINAL GRADING ADJACENT TO SIDEWALKS AND PAVED AREAS THAT ABUT AREAS DESIGNATED FOR SOD ARE LOWER THAN THE TOP OF PAVING SUCH THAT INSTALLED SOD DOES NOT CREATE A DAM/OBSTRUCTION ALONG THE PAVING, RESULTING IN PONDING WATER ATOP PAVED SURFACES. ANY AREAS WITH PONDING WATER SHALL BE CORRECTED AT THE EXPENSE OF THE CONTRACTOR.



1700 Swift Ave., Suite 100
North Kansas City, Missouri 64116
P 816-756-0444
F 816-756-1763

Ankeny, IA | Carroll, IA | Clive, IA
Cedar Rapids, IA | Fort Dodge, IA
North Liberty, IA | Sioux City, IA

Macon, MO | Columbia, MO
North Kansas City, MO
Lenexa, KS

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MISSOURI (LA) CERTIFICATE OF AUTHORITY NO. 2018037526
EXPIRES: DECEMBER 31, 2024



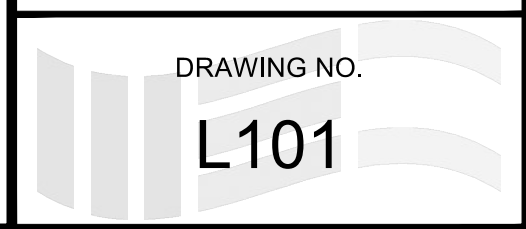
REVISIONS

PROJECT INFO
2023000016-000

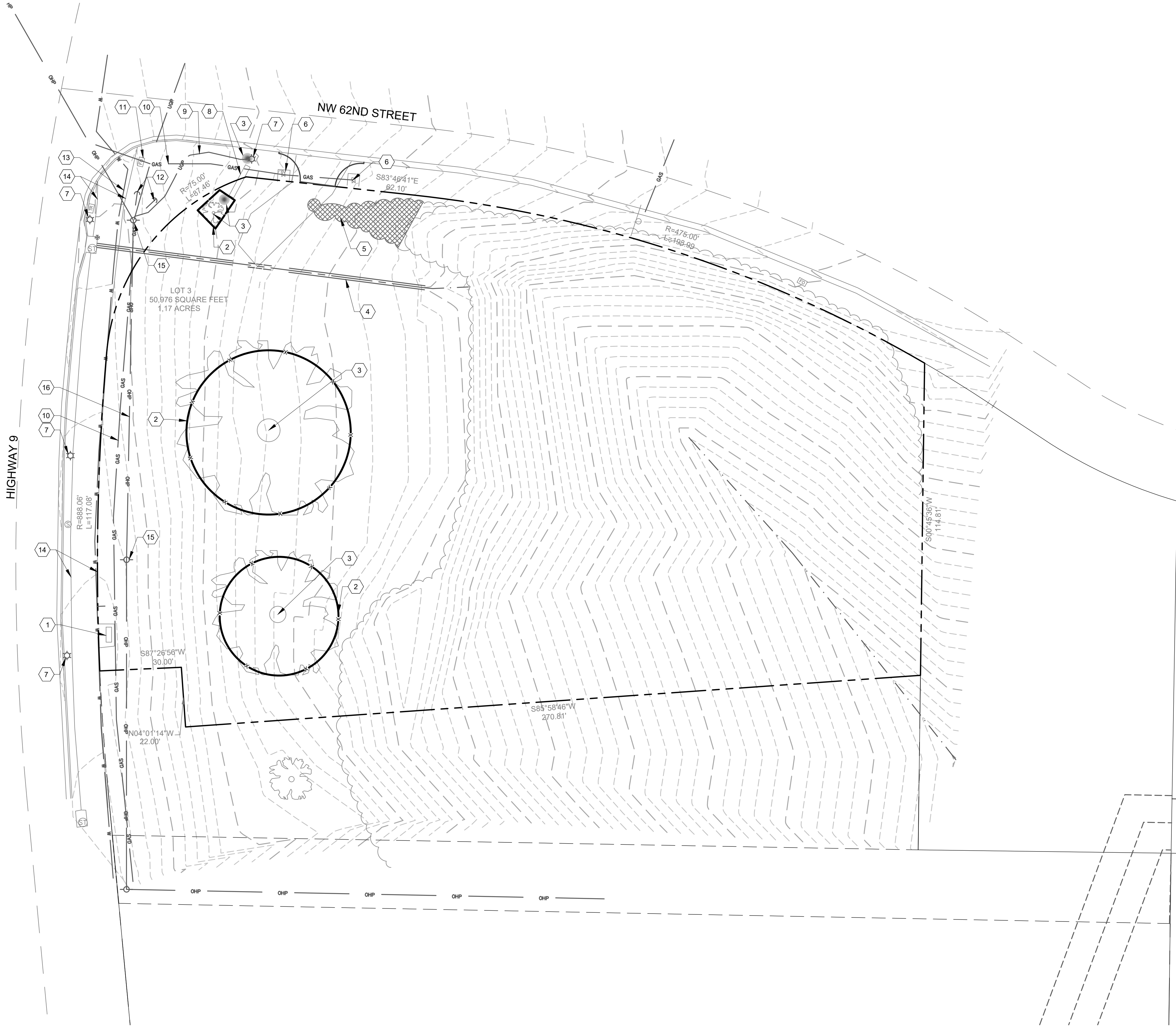
LANDSCAPE ARCHITECT	DRAWN BY	CHECKED BY
JDR	JDR	JS

GATEWAY PARK
HWY 9 AND NW 62ND STREET
PARKVILLE, MISSOURI

NOTES
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DRAWING NO.
L101



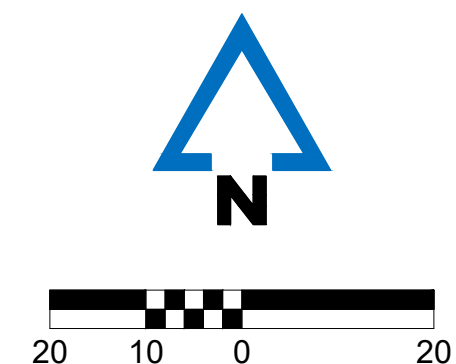
1 SITE PLAN
SCALE: 1" = 20'

KEY NOTES

- 1 EXISTING BENCH TO REMAIN
- 2 INSTALL TREE PROTECTION FENCE
- 3 EXISTING TREE TO REMAIN
- 4 EXISTING STORM SEWER TO REMAIN. VERIFY DEPTH PRIOR TO CONSTRUCTION AND PROTECT DURING EXCAVATION. (RE: L101)
- 5 CLEAR AND GRUB EXISTING TREES
- 6 EXISTING GAS VALVE TO REMAIN
- 7 EXISTING STREET LIGHT TO REMAIN
- 8 EXISTING MONUMENT SIGN
- 9 EXISTING UNDERGROUND POWER TO REMAIN
- 10 EXISTING GAS LINE TO REMAIN
- 11 EXISTING FIBER OPTIC TO REMAIN
- 12 EXISTING GUY ANCHOR
- 13 EXISTING WATER LINE TO REMAIN
- 14 EXISTING SIDEWALK TO REMAIN
- 15 EXISTING UTILITY POLE TO REMAIN
- 16 EXISTING OVERHEAD POWER TO REMAIN

QUANTITIES

TREE PROTECTION FENCE: 360 L.F.
CLEARING AND GRUBBING: 1 L.S.



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MISSOURI (LA) CERTIFICATE OF AUTHORITY NO. 2018037526
EXPIRES: DECEMBER 31, 2024



REVISIONS

PROJECT INFO
2023000016-000

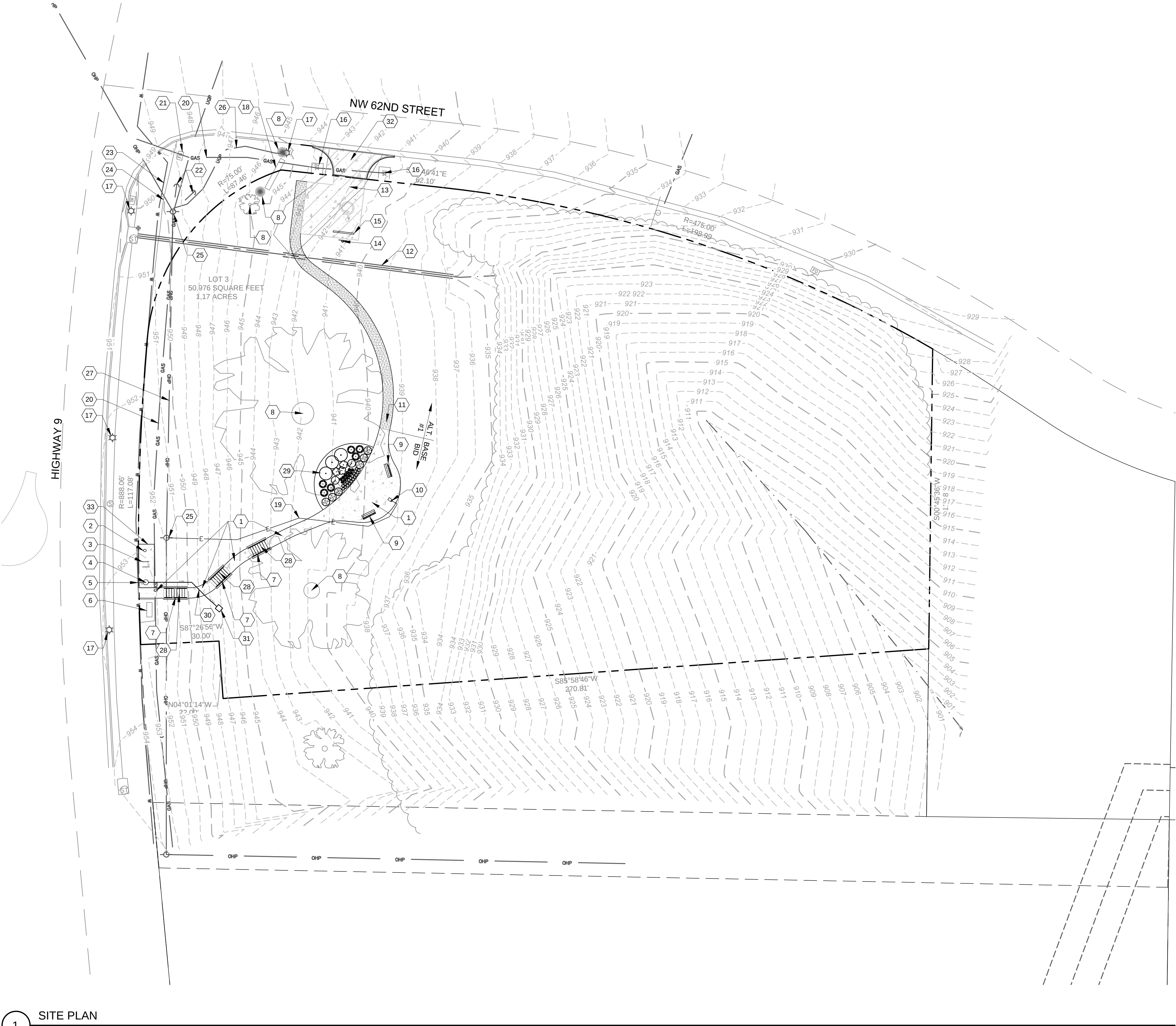
LANDSCAPE ARCHITECT	DRAWN BY	CHECKED BY
JDR	JDR	JS

GATEWAY PARK
HWY 9 AND NW 62ND STREET
PARKVILLE, MISSOURI

DEMOLITION PLAN
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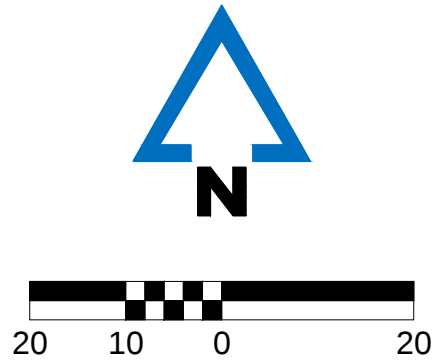
DRAWING NO.

L102



1 SITE PLAN
SCALE: 1" = 20'

- KEY NOTES**
- 4" DEPTH X 4" WIDE FIBER REINFORCED CONCRETE - 870 S.F. (SEE DETAIL 3 / L106)
 - BIKE REPAIR STATION - OWNER PROVIDED AND INSTALLED
 - BIKE RACK - OWNER PROVIDED AND SURFACE-MOUNTED
 - DRINKING FOUNTAIN - OWNER PROVIDED, GC INSTALLED
 - EXTENSION OF WATER LINE OFF OF MAIN LINE
 - EXISTING BENCH TO REMAIN
 - HANDRAIL - 6 RAILS @ +/- 9 L.F., EACH
 - EXISTING TREE TO REMAIN (SEE DETAIL 6 / L106)
 - BENCH - OWNER PROVIDED AND INSTALLED
 - DECORATIVE LIGHT POLE - OWNER PROVIDED, GC INSTALLED
 - 6" DEPTH COMPACTED FINE GRAVEL WALK (ALTERNATE - 487 S.F.) (SEE DETAIL 4 / L106)
 - EXISTING STORM SEWER TO REMAIN
 - ADA PARKING STALL (ALTERNATE)
 - ADA PARKING SIGNAGE (ALTERNATE)
 - 6" CONCRETE FOR PARKING STALL (ALTERNATE - 651 S.F.) (SEE DETAIL 5 / L106)
 - EXISTING GAS VALVE TO REMAIN
 - EXISTING STREET LIGHT TO REMAIN
 - EXISTING MONUMENT SIGN
 - UNDERGROUND ELECTRIC FOR LIGHT POLE +/- 100 L.F.
 - EXISTING GAS LINE TO REMAIN
 - EXISTING FIBER OPTIC TO REMAIN
 - EXISTING GUY ANCHOR TO REMAIN
 - EXISTING WATER LINE TO REMAIN
 - CONNECT TO EXISTING SIDEWALK
 - EXISTING UTILITY POLE TO REMAIN
 - EXISTING UNDERGROUND POWER TO REMAIN
 - EXISTING OVERHEAD POWER TO REMAIN
 - CONCRETE STAIRS WITH 1' TREAD AND 6" RISE, 4' WIDE (SEE DETAIL 1 / L106)
 - POLLINATOR GARDEN - BY OWNER
 - 1" PVC DRAIN FOR WATER FOUNTAIN - 25 L.F.
 - 8 CU. FT. OF GRAVEL 2' UNDERGROUND FOR FOUNTAIN DRAIN.
 - CONCRETE APRON PER CITY STD. (ALTERNATE - 137 S.F.)
 - 6" CONCRETE LANDING (SEE DETAIL 5 / L106)



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MISSOURI (LA) CERTIFICATE OF AUTHORITY NO. 2018037526
EXPIRES: DECEMBER 31, 2024

STATE OF MISSOURI
JOY D. RHEA
NUMBER
LA-201803739
PROFESSIONAL LANDSCAPE ARCHITECT

REVISIONS

PROJECT INFO
2023000016-000

LANDSCAPE ARCHITECT
JDR

DRAWN BY
JDR

CHECKED BY
JS

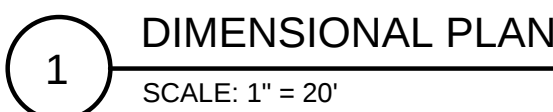
GATEWAY PARK
HWY 9 AND NW 62ND STREET
PARKVILLE, MISSOURI

SITE PLAN
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DRAWING NO.
L103



DRAWING NO.
L104



NOTICE:
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MISSOURI (LA) CERTIFICATE OF AUTHORITY NO. 2018037526
EXPIRES: DECEMBER 31, 2024



REVISIONS

PROJECT INFO
2023000016-000

LANDSCAPE ARCHITECT
JDR
DRAWN BY
JDR
CHECKED BY
JS

GATEWAY PARK
HWY 9 AND NW 62ND STREET
PARKVILLE, MISSOURI
GRADING PLAN

DRAWING NO.
L105

- KEY NOTES**
- 1 4" DEPTH X 4" WIDE FIBER REINFORCED CONCRETE
 - 2 CONCRETE STAIRS WITH 1" TREAD AND 6" RISE, 4" WIDE
 - 3 4" DEPTH FIBER REINFORCED CONCRETE PAVILION
 - 4 4" WIDE GRAVEL PATH
 - 5 LIMITS OF DISTURBANCE
 - 6 STRAW WATTLE (BASE BID) (SEE DETAIL 7 / L106)
 - 7 STRAW WATTLE (ALTERNATE BID) (SEE DETAIL 7 / L106)

QUANTITIES

TREE PROTECTION FENCE: 360 L.F.
CLEARING AND GRUBBING: 1 L.S.
STRAW WADDLE (BASE BID): 158 L.F.
STRAW WADDLE (ALTERNATE BID): 164 L.F.

SPOT ELEVATION LEGEND:
SW = TOP OF SIDEWALK/TRAIL ELEVATION
TC = TOP OF CURB ELEVATION
PV = TOP OF PAVEMENT ELEVATION
ME = MATCH ELEVATION
FF = FINISHED FLOOR ELEVATION
TW = TOP OF WALL ELEVATION
BW = BOTTOM OF WALL ELEVATION

T/CI = TOP OF CURB INLET ELEVATION
T/AI = TOP OF AREA INLET ELEVATION
TG = TOP OF GROUND ELEVATION
TR = TOP OF RAMP ELEVATION
BR = BOTTOM OF RAMP ELEVATION
D = DRAINAGE DIRECTION
+HP = HIGH POINT
TST = TOP OF STAIR RISER ELEVATION
BST = BOTTOM OF STAIR RISER ELEVATION

LEGEND:

— DRY CURB
— WET CURB
- - - EXISTING 1" CONTOUR
- - - EXISTING 5' CONTOUR
— 499 — PROPOSED 1" CONTOUR
— 500 — PROPOSED 5' CONTOUR
— FOUNDATION STEP
— STRAW WATTLE (BASE BID)
— STRAW WATTLE (ALTERNATE)

NOTE:
SEE SHEET L101 FOR GENERAL NOTES.



NW 62ND STREET

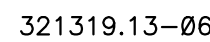
HIGHWAY 9

1 GRADING PLAN
SCALE: 1" = 10'

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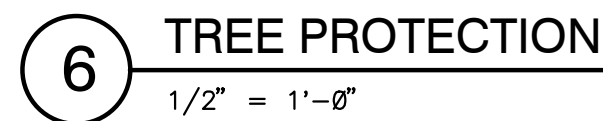
~~5. ALL EMBEDDED ALUMINUM COMING INTO CONTACT WITH CONCRETE OR CEMENTITIOUS MATERIAL SHALL BE PROTECTED FROM CORROSION.~~

1 CONCRETE STAIRS TYPICAL
1/2" = 1'-0"



321319.13-05

5 6" CONCRETE PAVEMENT
3/4" = 1'-0"



329343.01-07



1. Berm shall be reshaped and material added as necessary to maintain function and dimensions.
2. Breaches in the berm shall be repaired promptly.



7 STRAW WATTLE

PROJECT INFO
2023000016-000

LANDSCAPE ARCHITECT	DRAWN BY	CHECKED BY
JDR	JDR	JS

SITE DETAILS

DRAWING NO.
L106

**CITY OF PARKVILLE
Policy Report**

Date: October 17, 2023

Prepared By:

Brittanie Propes, Parks & Recreation Director

Reviewed By:

Alexa Barton, City Administrator

ISSUE:

Approve the purchase order with Most Dependable Fountains for drinking fountains for the parks (Parks)

BACKGROUND:

In 2022, staff experienced issues with the drainage system in both the large dog and small dog parks. This drainage issue was partly due to water spigot usage and creating mud build-up in the drain system. The existing water spigot has also created issues with large muddy areas at the entrance and holes where the dog subsequently dig. Not only will dog drinking fountains eliminate these issues, but they are an amenity for dog parks to ensure they have safe drinking water.

In August 2022, the Community Land and Recreation Board (CLARB) recommended the purchase of two drinking fountains for dogs and one ADA accessible drinking fountain with a water bottle filling station. In January 2022, they recommended the purchase of an ADA-accessible drinking fountain for Gateway Park.

The 2023 Parks Capital Improvement Plan includes funds for dog drinking fountains (\$10,000) and for the Gateway Park project, inclusive of the drinking fountain.

Most Dependable Fountains, Inc. is the manufacturer of the existing park water fountains. Staff would prefer to keep the same brand of fountains for aesthetics and maintenance and will save money by purchasing directly through the manufacturer.

Quotes for similar drinking fountains include:

- Grainger: ADA fountain with water bottle filler \$6,412.90 plus shipping
- Webstaurant Store: ADA fountain with water bottle filler \$6,129.00 plus shipping
- ProDrinking Fountains: ADA fountain with water bottle filler \$5,886.00 plus shipping
- Most Dependable Fountains: ADA fountain with water bottle filler \$4,440 plus shipping

Staff recommends purchasing the following fountains from Most Dependable Fountains :

- (2) 350 SMSS Pet Drinking Fountains \$1,500 each plus \$170 freight
- (2) 10155 SMSS Drinking Fountain with Bottle Filler and ADA \$4,440 each plus \$490 freight

The total amount for fountains and delivery is \$12,540.

STRATEGIC GOAL(S):

- Infrastructure and Public Facilities
- Parks and Recreation

BUDGET IMPACT:

The 2023 Parks Capital Improvement Budget has \$10,000 for the purchase of three drinking fountains for the dog park and one drinking fountain for Gateway Park. The total of these 4 fountains and delivery is \$12,540.

ALTERNATIVES:

1. Approve the item.
2. Approve the item, subject to changes.
3. Do not approve the item.
4. Postpone the item.

FINANCE COMMITTEE RECOMMENDATION:

STAFF RECOMMENDATION:

Staff recommends approval of the purchase order for four drinking fountains for Barkville and Gateway Park.

POLICY:

The Purchasing Policy, Resolution No. 17-016, requires Board of Aldermen approval for all purchases above \$10,000 upon recommendation of the Finance Committee.

SUGGESTED MOTION:

I move to recommend that the Board of Aldermen approve the purchase order with Most Dependable Fountains for drinking fountains in the parks.

ATTACHMENTS:

1. Quote (Pet Fountain)
2. Quote (with Bottle Filler)

Quote



**MOST DEPENDABLE
FOUNTAINS, INC.**

5705 Commander Dr. Arlington, TN 38002

Quote QTE64932

Date 9/8/2022

Page 1/1

Quoted by:

(901) 867-0039

Bill To: CITY OF PARKVILLE
8880 CLARK AVENUE
PARKVILLE MO 64152

Ship To: CITY OF PARKVILLE
CITY OF PARKVILLE
8880 CLARK AVENUE
PARKVILLE MO 64152

Purchase Order No.	Customer ID		Shipping Method	Payment Terms	Req Ship Date	Master No.
	816-587-2593		FEDEX 85	NET 30	0/0/0000	128,693
Quantity	Item Number	Description	UOM	Discount	Unit Price	Ext. Price
2	350 SMSS	350 SMSS PET FOUNTAIN GREEN	EA	\$0.00000	\$1,500.00000	\$3,000.00

LEAD TIME IS RUNNING UP TO 4-5 WEEKS QUOTED BY
KIM
PLEASE EMAIL PO TO KIM@MOSTDEPENDABLE.COM

Subtotal \$3,000.00

Freight \$170.00
Tax \$0.00

Total \$3,170.00

ONE YEAR WARRANTY. LABOR NOT INCLUDED
PRICES SUBJECT TO CHANGE WITHOUT NOTICE
CALIFORNIA SALES TAX IS SUBJECT TO CHANGE BASED ON SHIP TO ZIP CODE

Quote



**MOST DEPENDABLE
FOUNTAINS, INC.**

5705 Commander Dr. Arlington, TN 38002

Quote QTE64938

Date 9/8/2022

Page 1/1

Quoted by:

(901) 867-0039

Bill To: CITY OF PARKVILLE
8880 CLARK AVENUE
PARKVILLE MO 64152

Ship To: CITY OF PARKVILLE
CITY OF PARKVILLE
8880 CLARK AVENUE
PARKVILLE MO 64152

Purchase Order No.	Customer ID		Shipping Method	Payment Terms	Req Ship Date	Master No.
	816-587-2593		FEDEX 85	NET 30	0/0/0000	128,705
Quantity	Item Number	Description	UOM	Discount	Unit Price	Ext. Price
2	10155 SMSS	10155 SMSS BOTTLE FILLER GREEN	EA	\$0.00000	\$4,440.00000	\$8,880.00

LEAD TIME IS RUNNING UP TO 4-5 WEEKS QUOTED BY
KIM
PLEASE EMAIL PO TO KIM@MOSTDEPENDABLE.COM

Subtotal \$8,880.00

Freight \$490.00
Tax \$0.00

Total \$9,370.00

ONE YEAR WARRANTY. LABOR NOT INCLUDED
PRICES SUBJECT TO CHANGE WITHOUT NOTICE
CALIFORNIA SALES TAX IS SUBJECT TO CHANGE BASED ON SHIP TO ZIP CODE

ITEM 3.E.

For 10/30/2023

Board of Aldermen - Finance Committee Meeting

**CITY OF PARKVILLE
Policy Report**

Date: October 24, 2023

Prepared By:

Daniel Harper, Public Works Director

Reviewed By:

Alexa Barton, City Administrator

ISSUE:

Renew an intergovernmental agreement with Mid-America Regional Council Solid Waste Management District for the 2023 Regional Household Hazardous Waste Collection Program (Public Works)

BACKGROUND:

The City has historically participated in the Regional Household Hazardous Waste (HHW) Collection Program administered by the Mid-America Regional Council (MARC) Solid Waste Management District. The program is subject to annual renewal on or before December 15th.

The program allows Parkville residents to access permanent collection sites in Lee's Summit and Kansas City for proper disposal of HHW including paint, household cleaners, automotive fluids, pesticides, batteries and similar materials. The program also accommodates outreach collection sites throughout the region. Parkville hosts events in even-numbered years. The next HHW event will be held in Parkville in 2024. However, additional nearby events will be scheduled, but as of this policy report the schedule for next year has not been released by MARC.

Because this is an intergovernmental agreement, an ordinance will be required.

STRATEGIC GOAL(S):

This agreement is part of the Operational Excellence goal to create strategic partnerships for city services.

BUDGET IMPACT:

The program fee is based on a per capita rate using 2020 Census population estimates. In 2022, the proposed per capita rate will be \$1.09 with a total program fee of \$7,757.53, and the 2023 rate is \$1.13 per capita at a total program fee of \$9,651.33, which is programmed into the FY 2024 budget.

ALTERNATIVES:

1. Renew the intergovernmental agreement with the MARC Solid Waste Management District for the 2021 Regional Household Hazardous Waste Collection Program.
2. Do not approve the ordinance and provide further directions to staff.
3. Postpone this item.

FINANCE COMMITTEE RECOMMENDATION:

Staff recommends renewing the intergovernmental agreement with the MARC Solid Waste Management District for the 2021 Regional Household Hazardous Waste Collection Program.

STAFF RECOMMENDATION:

Staff recommends the approval of an ordinance to enter into an intergovernmental agreement with the Mid-American Regional Council to provide Hazardous Home Waste Service be sent to the Board of Aldermen.

POLICY:

Intergovernmental agreements require an ordinance.

SUGGESTED MOTION:

I move to recommend that the Board of Aldermen renew the intergovernmental agreement with the Mid-America Regional Council Solid Waste Management District for the 2024 Regional Household Waste Collection Program.

ATTACHMENTS:

1. Draft Ordinance
2. Agreement
3. MARC Letter
4. Community Costs

BILL NO. ____

ORDINANCE NO. ____

AN ORDINANCE APPROVING AN INTERGOVERNMENTAL AGREEMENT WITH THE MID-AMERICA REGIONAL COUNCIL SOLID WASTE MANAGEMENT DISTRICT FOR THE 2024 REGIONAL HOUSEHOLD HAZARDOUS WASTE COLLECTION PROGRAM

WHEREAS, the City participates annually in the Regional Household Hazardous Waste (HHW) Collection Program administered by the Mid-America Regional Council (MARC) Solid Waste Management District (SWMD); and

WHEREAS, Cass, Clay, Jackson, Platte, and Ray Counties and the City of Kansas City, Missouri formed the SWMD pursuant to Sections 260.300 through 260.345 of the Revised Statutes of Missouri (1986 & Cum. Supp. 1990) and the members of the SWMD include most cities within the member counties; and

WHEREAS, the Program is subject to annual renewal on or before December 16; and

WHEREAS, the Program allows Parkville residents to access permanent household hazardous waste facilities located in Kansas City and Lee's Summit for proper disposal of HHW products and accommodates outreach collection sites throughout the region.

BE IT ORDAINED BY THE BOARD OF ALDERMEN OF THE CITY OF PARKVILLE, MISSOURI AS FOLLOWS:

Section 1. The Mayor is hereby authorized to sign an intergovernmental agreement, attached hereto and incorporated herein by reference, with the Mid-America Regional Council Solid Waste Management District for the 2024 Regional Household Hazardous Waste Collection Program in the amount of \$9,651.33.

Section 2. This ordinance shall be in effect immediately upon its passage and approval.

PASSED and APPROVED this 7th day of November 2023.

Mayor Dean Katerndahl

ATTESTED:

City Clerk Melissa McChesney

2024

Intergovernmental Agreement between the MARC Solid Waste Management District and Parkville, Missouri relating to the Regional Household Hazardous Waste Collection Program

This Agreement is entered into pursuant to Missouri Revised Statutes Section 70.210 *et seq.*

Whereas, Cass, Clay, Jackson, Platte, and Ray Counties and the City of Kansas City have formed the MARC Solid Waste Management District (SWMD) pursuant to Sections 260.300 through 260.345 of the Revised Statutes of Missouri (1986 & Cum. Supp. 1990) and the members of the SWMD include most cities within the member counties; and

Whereas the City of Kansas City, Missouri (Kansas City) operates a permanent Household Hazardous Waste facility located at 4707 Deramus, Kansas City, Missouri, and operates outreach sites for collection of Household Hazardous Waste (HHW) at various locations and on various dates; and

Whereas, the City of Lee's Summit, Missouri operates a permanent Household Hazardous Waste Facility located at 2101 SE Hamblen Road, Lee's Summit; and

Whereas, Kansas City and Lee's Summit have made these HHW collection facilities available for use by members of the SWMD and the SWMD, Kansas City and Lee's Summit have agreed to create a regional household hazardous waste program for the benefit of all members of the SWMD; and

Whereas Parkville, Missouri (sometimes referred to in this Agreement as the "Participating Member") intends to participate in the Regional HHW Collection Program;

Therefore, the SWMD and the Participating Member agree that participation in the Regional HHW Collection Program shall be on the following terms and conditions:

I Definitions

Household Hazardous Waste (HHW) shall mean waste that would be classified as hazardous waste by 40 CFR 261.20 through 261.35 but that is exempt under 40 CFR 261.4 (b) (1) (made applicable in Missouri by 10 CSR 25-4.261) because it is generated by households. Examples include paint products, household cleaners, automotive fluids, pesticides, batteries, and similar materials. A determination of whether any material meets this definition shall be made by Kansas City.

II Effective Date

Parkville, Missouri agrees to participate in the Regional HHW Collection Program for a one-year period beginning on **January 1, 2024**.

III Termination

A. Budget Limitations. This Agreement and all obligations of the Participating Member and the SWMD arising therefrom shall be subject to any limitation imposed by budget law. The parties represent that they have within their respective budgets sufficient funds to discharge the obligations and duties assumed and sufficient funds for the purpose of maintaining this Agreement. This Agreement shall be deemed to terminate by operation of law on the date of expiration of funding.

B. Termination of regional program. If the regional household hazardous waste program is terminated prior to the expiration of this Agreement, the SWMD shall refund the amount paid by the participating member, less the cost of services provided prior to termination of the regional program. The cost of services shall be assessed at seventy-five dollars (\$75.00) for each vehicle belonging to a resident of the participating member that has been served prior to the termination of the program, not to exceed the amount paid by the participating member.

C. Each participating member will be required to notify the SWMD, Kansas City and Lee's Summit in writing of its intention to renew the annual agreement for the following year no later than December 15. In the event that notification is not provided in advance or the final decision is made to not rejoin the program for the upcoming year, the participating member is responsible for any costs incurred by Kansas City and/or Lee's Summit to serve residents after December 31. Kansas City and SWMD reserve the right to invoice the member city or county for any waste disposal costs incurred as a result of late notification.

IV *Duties of Participating Member*

A. *Fees.* **Parkville, Missouri** agrees to pay the sum of **\$9,651.33** to participate in the 2024 Regional HHW Collection Program for the period from January 1 to December 31. The program participation fee is based on a per capita rate of \$1.13 applied to 2022 Population Estimate figures as shown in Attachment One. At least one-half of this amount shall be paid within thirty (30) days upon receiving the district invoice. Payment of any remaining balance shall be paid within the following six months.

B. *Payment.* The Participating Member shall be obligated for payment of the amount shown in Paragraph IV(A) irrespective of the participation of its citizens, or of any actual expenses incurred by the SWMD, Kansas City, or Lee's Summit attributable to the Participating Member, except in the event of termination of the regional program, as reflected in III(B) above. Payment by the Participating Member of the agreed upon amount shall not be contingent upon renewal of this Agreement or renewal of the Agreement between the SWMD and Kansas City or Lee's Summit.

Annual Renewal. The agreement between the SWMD and the Participating Member will be subject to renewal each year. To assure community information is included in the printed promotional material, agreements will be due no later than February 1, 2024. No pro ration of fees is applicable under this agreement.

C. *Contact Person.* The Participating Member agrees to notify the SWMD and Kansas City, on or before the date of this Agreement, of the name of an individual who will serve as its contact person with respect to the Regional HHW Collection Program.

V *Services Provided by the SWMD*

A. *Permanent Collection Facilities.* HHW collection services shall be provided by Kansas City and Lee's Summit pursuant to agreements entered into between the SWMD and Kansas City, and the SWMD and Lee's Summit. Pursuant to those agreements, residents of the Participating Member may deliver HHW, by appointment, if required, and during normal hours of operation, to the Kansas City permanent HHW facility and to the Lee's Summit permanent HHW facility.

B. *Outreach Collections.* Pursuant to the agreement between the SWMD and Kansas City, Kansas City has also agreed to provide contractor services for the collection of HHW at outreach collection sites throughout the SWMD area. Residents of the Participating Member will be able to deliver HHW to outreach collection sites, the dates and locations of which will be negotiated by the SWMD and Kansas City. If, at the request of a Participating Member, an outreach collection is held within its boundaries, the Participating Member agrees that Kansas City or the contractor shall have overall control of the collection activities but the Participating Member shall provide the following:

- adequate and safe sites with unobstructed public access;
- access to restroom facilities and drinking water
- adequate publicity of the date and location of the mobile collection;
- a means for the collection, removal and disposal of any wastes that do not meet the definition of hazardous waste;
- volunteers or workers to conduct traffic control, survey participating residents, stack latex paint and automotive batteries, and assist with non-hazardous waste removal and bulking of motor oil;

- means of limiting the vehicles to a number negotiated by Kansas City and the SWMD (estimated to be either 200, 300, or 400 vehicles per outreach collection);
- a forklift and forklift operator available at the opening and closing of the event; and
- access to residents of any city or county that is also a participating member.

VI Reports

The SWMD will provide to the Participating Member quarterly reports on the operations of the Kansas City and Lee's Summit permanent facilities and on the operations of the outreach collections, based on information provided to the SWMD by Kansas City and Lee's Summit. The quarterly reports shall include the following information:

- Total number vehicles using each facility (permanent or mobile) on a quarterly basis;
- Number of vehicles from each participating member using the facility;
- An end-of-the-year summary report including waste composition and disposition.
- Each program year the district will provide brochures which include facility hours of operation, mobile event schedule, and contact information

VII Insurance

A. Insurance. The SWMD agrees that, pursuant to the terms of its Agreement with Kansas City, Kansas City shall maintain liability insurance related to the outreach collection sites under which the community where the site is located shall be named as an additional insured.

VIII Legal Jurisdiction

Nothing in this Agreement shall be construed as either limiting or extending the legal jurisdiction of the parties.

MARC Solid Waste Management District:

Participating Member:

_____ Date: _____

_____ Date: _____

Doug Wylie, Chair

Print Name

Print Title

**MARC Solid Waste
Management District**

Serving local governments in
Cass, Clay, Jackson, Platte and
Ray Counties and working
cooperatively with Johnson,
Leavenworth, Miami and
Wyandotte Counties

Executive Board

Appointed:

Louis Cummings
City of Kansas City

Bob Huston
Cass County

Donna Koontz
Clay County

Brenda Franks
Jackson County

Daniel Erickson
Platte County

Billy Gaines
Ray County

Elected:

David Pavlich
City of Kearney

Doug Wylie, Chair
City of Parkville

Mike Jackson, Vice Chair
City of Independence

Chris Bussen
City of Lee's Summit

Mike Larson
City of Sugar Creek

Trent Salisbury
City of Raymore

Cara Elbert
City of Blue Springs

Lauran Kurtz
City of Lake Lotawana

Ex Officio:

Vacant
Secretary/Treasurer

October 13, 2023

Re: 2024 Regional Household Hazardous Waste (HHW) Program

The Regional Household Hazardous Waste Collection Program provides residents the opportunity to safely dispose of household hazardous products that cannot be thrown away in the trash. The MARC Solid Waste Management District administers this program in partnership with the cities of Kansas City, Mo and Lee's Summit.

Membership in the program provides residents year-round access to permanent facilities in Kansas City and Lee's Summit, and to multiple mobile collection events.

Materials accepted for safe disposal include paint and paint-related products, automotive fluids, batteries, lawn and garden chemicals, housecleaners, fluorescent bulbs, and other items such as nail polish, bug spray and oven cleaners.

The 2024 participation fee will be \$1.13 per capita and will be applied to 2022 population estimates. A community cost list is attached to the agreement enclosed. The program is also supported with a grant from the Missouri Department of Natural Resources to assist with disposal costs.

If you are interested in providing this service to your residents in 2024, please sign and return the agreement by **Friday, December 15, 2023.**

If you have any questions and/or would like a presentation to your city council or county commissioners, please contact Nadja Karpilow at (816) 701-8226.

We look forward to serving your community.

Sincerely,



Doug Wylie
Chair, MARC Solid Waste Management District



<i>2024 Regional HHW Program Fees</i>	2022 Population	\$1.13	
Community	Estimates	per capita	
Archie	1,255	\$1,418.15	
Belton	25,420	\$28,724.60	
Blue Springs	59,518	\$67,255.34	
Buckner	2,898	\$3,274.74	
Claycomo Village	1,355	\$1,531.15	
Cleveland	641	\$724.33	
Drexel	949	\$1,072.37	
Edgerton	606	\$684.78	
Excelsior Springs	10,580	\$11,955.40	
Ferrelview	645	\$728.85	
Garden City	1,583	\$1,788.79	
Gladstone	26,907	\$30,404.91	
Glenaire	531	\$600.03	
Grain Valley	16,178	\$18,281.14	
Grandview	25,610	\$28,939.30	
Greenwood	6,088	\$6,879.44	
Hardin	562	\$635.06	
Harrisonville	9,854	\$11,135.02	
Independence	121,202	\$136,958.26	
Kearney	10,913	\$12,331.69	
Lake Lotawana	2,424	\$2,739.12	
Lake Tapawingo	783	\$884.79	
Lake Waukomis	929	\$1,049.77	
Lake Winnebago	1,657	\$1,872.41	
Lawson	2,525	\$2,853.25	
Liberty	30,775	\$34,775.75	
Loch Lloyd	936	\$1,057.68	
Lone Jack	1,666	\$1,882.58	
North Kansas City	4,622	\$5,222.86	
Oak Grove	8,492	\$9,595.96	
Orrick	739	\$835.07	
Parkville	8,541	\$9,651.33	
Peculiar	5,958	\$6,732.54	
Platte City	4,813	\$5,438.69	
Pleasant Hill	8,715	\$9,847.95	
Pleasant Valley	2,727	\$3,081.51	
Raymore	24,203	\$27,349.39	
Raytown	29,312	\$33,122.56	
Richmond	5,959	\$6,733.67	
Riverside	4,379	\$4,948.27	
Smithville	10,653	\$12,037.89	
Sugar Creek	3,184	\$3,597.92	
Weatherby Lake	2,100	\$2,373.00	
Weston	1,787	\$2,019.31	
Wood Heights	755	\$853.15	

Unincorporated Cass County	24,572	\$27,766.36	
Unincorporated Clay County	15,417	\$17,421.21	
Unincorporated Jackson Co.	23,712	\$26,794.56	
Unincorporated Platte County	29,817	\$33,693.21	
Unincorporated Ray County	11,137	\$12,584.81	
<i>Population Source:</i>			
<i>https://www.marc.org/Data-Economy/Metrodataline/Population/Current-Population-Data</i>			

CITY OF PARKVILLE
Policy Report

Date: October 26, 2023

Prepared By:
Daniel Harper, Public Works Director

Reviewed By:
Alexa Barton, City Administrator

ISSUE:

Approve a purchase order with State Tractor for salt and sand material for emergency snow operations (Public Works)

BACKGROUND:

The City's snow removal operations include the use of two primary materials consisting of rock salt and a sand/salt 1:1 mix. Rock salt is the primary material used in the majority of the city and will represent an estimated 90% of the material used. The remaining 10% of materials used will be the sand/salt mixture which provides an added benefit of additional traction for vehicles in areas with steep slopes and a larger amount of stop & go traffic or if the temperature gets low enough that salt is no longer able to melt the snow & ice leading to extended snow pack.

In recent years, research has shown that the application of sand to increase traction for vehicles has limited effectiveness. Regular vehicular traffic and winds will brush the sand off of the roadway, providing no benefit to drivers and leading to a persistent material that requires clean-up later and can accumulate in drainage channels. The use is typically recommended for lower speed roadways and areas where snow pack may persist for an extended period of time. In addition, sand provides no ability to break the bond between snow and ice and the underlying pavement, allowing for snow plow removal. The City will continue to have limited instances where the blended material needs to be utilized. City wide use is being discontinued as a normal operation.

Two local companies were contacted for unit price quotes. The lowest quote was with State Tractor who offered \$72.00 per delivered ton which is less than the \$72.50 per ton that was supplied in the 2022-2023 winter season. The other quote received was for \$74.75 per ton.

STRATEGIC GOAL(S):

The adjustment of road material treatment materials is part of the Operational Excellence strategic goal for the strategy of instituting appropriate processes and systems.

BUDGET IMPACT:

The FY 2023 and requested FY 2024 budget programmed \$70,000 each year for emergency snow removal where the purchase of a salt/sand mixture would be funded. In FY 2022 the City purchased \$33,380.86 in salt/sand materials and has not made a purchase of the blended material in the FY 2023 budget to date.

ALTERNATIVES:

1. Approve the item.
2. Approve the item, subject to changes.

3. Do not approve the item.
4. Postpone the item.

FINANCE COMMITTEE RECOMMENDATION:

STAFF RECOMMENDATION:

Staff recommends the approval of a purchase order with State Tractor for unit prices for sand/salt mixture at the rate of \$72.00 per ton.

POLICY:

The Purchasing Policy, Resolution No. 17-016, requires Board of Aldermen approval for all purchases above \$10,000 upon recommendation of the Finance Committee.

SUGGESTED MOTION:

I move to recommend that the Board of Aldermen approve a purchase order with State Tractor for a salt and sand mixture at the rate of \$72.00 per ton for the 2023-2024 winter season.

ATTACHMENTS:

1. Purchase Order
2. Wisconsin Study
3. New Hampshire Study

PURCHASE ORDER
(non-construction)

CITY OF PARKVILLE (PURCHASER)
8880 Clark Avenue
Parkville, MO 64152

Date: November 7, 2023

Upon proper acceptance, we agree to purchase from you upon terms and conditions set forth below and on the attached pages hereto.

VENDOR: **State Tractor Trucking**
 P. O. Box 12541
 Kansas City, KS 66112-0542
 913-334-1075

SHIP TO: Streets Maintenance Building, 9300 NW 45 Highway, Parkville, MO 64152

INVOICE TO: Parkville City Hall, 8880 Clark Ave., Attn: Richard Wilson, Parkville, MO 64152

ALL MATERIAL SHALL BE DELIVERED TO PURCHASER FREIGHT PREPAID, UNLESS OTHERWISE SPECIFIED BELOW.

Vendor agrees to furnish following goods in accordance with the terms and provisions of this Purchase Order Agreement consisting of 6 pages including attachments. Purchaser agrees to pay a **UNIT PRICE** of **\$94.00 per ton for Straight Salt Delivered and 72.00 per ton Delivered for 1 & 1 Salt and Sand Mix** for such materials, subject to any additions or deductions agreed upon in writing. **Freight charges are included in purchase price and sales taxes will not be charged to the Purchaser as a tax exempt entity. Purchaser will provide Vendor with a Tax Exemption Certificate upon request.** Payment is to be made within thirty (30) days after delivery of goods and receipt of invoice. This purchase order is only valid through May 1, 2024.

ITEMS:

Straight Salt

Price: Ninety-Four Dollars (\$94.00) per Ton
Delivered

1 & 1 Salt and Sand Mix

Price: Seventy-Two Dollars and 00/100
(\$72.00) per Ton Delivered

See Attachment "A" – Terms and Conditions
See Attachment "B" – Insurance Requirements
See Attachment "C" - Quote

SCHEDULE OF DELIVERY:

Materials shall be delivered on request within 72 hours of placing order.

Streets Maintenance Building, 9300 NW 45 Hwy., Parkville,
MO 64152

Attn: Richard Wilson, Director of Operations

NOTE: All Terms and Conditions for Purchase Order attached hereto are incorporated herein by reference and made a part of this Purchase Order. Vendor's signature and return of this document as presented, or its delivery of any of the items covered by this Purchase Order, shall constitute acceptance of all of its terms and conditions. If this Purchase Order is not signed and returned to Purchaser within ten (10) days of the date stated on page 1 above, however, it may be deemed voidable at the option of Purchaser. Payment shall not be due until Vendor has furnished Purchaser, with the required Certificates of Insurance and any other documents required by Purchaser.

All terms in any offer, bid, order acknowledgement or other document that are inconsistent with the terms stated herein are explicitly rejected and not a part of this Purchase Order.

CITY OF PARKVILLE, MISSOURI. ("Purchaser")

STATE TRACTOR TRUCKING (Vendor)

By: _____
Dean Katerndahl

By: _____

Title: Mayor

Title: _____

Date: _____

Date: _____

TERMS AND CONDITIONS FOR CITY OF PARKVILLE PURCHASE ORDER

1. **Packing and Shipping.** Purchaser reserves the right to inspect the goods at any time prior to shipment as well as upon delivery, but neither delivery nor inspection of goods shall constitute acceptance of them

2. **Work, Liens and Waivers:** Vendor agrees both to deliver the material to Purchaser and to perform the work free and clear of all claims, encumbrances or liens. Further if at any time there is evidence of any lien associated with the items delivered, Purchaser shall have the right to retain out of any payment then due or thereafter to become due an amount sufficient to completely indemnify against such invoice, bill, lien or claim.

3. **Insurance.** Vendor shall maintain liability and other insurance as set forth on Attachment "B" in amounts, with coverage and in companies satisfactory to Purchaser.

4. **Warranties.** (a) Vendor warrants that all work and material will be free from defects, of good quality and workmanship, suitable for their intended purposes and in strict accordance with all requirements of Purchaser, and will meet all capacities, functional tests and criteria required in them. (b) Vendor shall furnish to Purchaser all MSDS sheets relevant to items furnished hereunder.

5. **Time is of the Essence.** Vendor agrees to perform the work and furnish the goods called for as stated above by Purchaser.

6. **Indemnification:** Vendor agrees to indemnify, defend and hold harmless Purchaser from and against all claims, damages, losses, causes of action and expenses (i) arising out of injury to (including death of) any persons or damage to property alleged to have been caused in whole or in part by any act or omission of Vendor, its agents, employees, sub-subcontractors, Vendors or invitees, and (ii) arising out of (a) any alleged defects or failures in Vendor's products; (b) all tax liabilities of Vendor; (c) any infringement of patent, trademark or trade secrets; and (d) any mechanic's liens or payment bond claims by those claiming payments owed by Vendor. Vendor shall defend all suits brought against Purchaser on account of any such claims of liability, shall pay any settlements made or judgments rendered with respect thereto, and shall reimburse and indemnify Purchaser for all expenses, including court costs and reasonable attorneys' fees, incurred by Purchaser. The obligations set forth in this paragraph are continuing and shall survive occupancy, completion of the construction project, termination of

the Purchase Order, acceptance of work, or final payment to Vendor.

7. **Changes:** Purchaser reserves the right to order changes in writing in the goods required hereunder and this Purchase Order shall be modified accordingly. No change shall be made in this Purchase Order without such written order and no claim of payment by Vendor for extras will be allowed unless such payment and such extra goods are agreed to in writing by Purchaser.

8. **Remedies:** If Vendor shall fail to perform in a timely manner, Purchaser may (in addition to all other rights) demand immediate cure of Vendor's default, correct Vendor's default, or obtain conforming goods elsewhere at Vendor's expense. In any case, Purchaser shall be entitled to recoup from Vendor all its loss, cost and expense incurred as a result of Vendor's default, including replacement of such defective work and damage to other work, and shall perform Vendor's warranty with respect thereof.

9. **Disputes:** Vendor agrees that all disputes under this Purchase Order shall be resolved in the Circuit Court of Platte County, Missouri or the U.S. District Court for the Western District of Missouri. This Purchase Order shall be construed under the laws of the State of Missouri.

10. **Pricing:** If price is omitted on this Purchase Order and not otherwise agreed to in writing, then the price to apply hereto will be the prevailing market price at (a) time of order or (b) time of delivery, whichever is less.

11. **Termination:** Purchaser by written notice to Vendor may at any time terminate and cancel this P.O. with respect to materials which remain undelivered on the date of such notice. In the event of such cancellation, Vendor shall promptly stop all work called for by this Purchase Order, and Purchaser's responsibility to Vendor is limited to paying Vendor for all goods delivered as of the date of termination. Other than as specifically provided for herein, Vendor shall not be entitled to claim or recover damages or loss of profits from Purchaser on account of any such cancellation, delays suffered by Vendor, irrespective of cause, or the rejection by Purchaser of any goods shipped under this Purchase Order.

12. **Assignment:** Vendor may not assign or transfer this Purchase Order or any part hereof without the prior written consent of Purchaser.

13. **This Purchase Order is the final and integrated agreement of the parties, superseding all negotiations and prior agreements of the parties.**

ATTACHMENT "B"

INSURANCE REQUIREMENTS

1. Vendor agrees to procure and carry, at its sole cost, until completion of this Purchase Order and all applicable warranty periods, all insurance, with identical limits of liability and scope of coverages, as set forth below; provided, however:

1.1 All insurance is to be issued by companies and with liability limits acceptable to Purchaser.

1.2 Purchaser reserves the right to review certified copies of any and all insurance policies to which this Purchase Order is applicable.

1.3 Insurance certificates, written on a standard ACORD form, **and a copy of the additional insured endorsement**, must be received by Purchaser prior to any payment by Purchaser or delivery of goods.

2. Such insurance shall include the following terms and conditions:

2.1 All coverages obtained by Vendor, except professional liability if applicable, shall be on an occurrence policy form and not on a claims made policy form.

2.2 The cost of defense of claims shall not erode the limits of coverage furnished.

2.3 Advance notice of cancellation. All insurance certificates will state that all coverages are in effect and will not be canceled without thirty (30) days' prior written notice to Purchaser and other required additional insureds (except for non-payment of premium, for which at least ten (10) days advance notice shall be given to Purchaser) of such insurance and shall contain an endorsement stating the insurers agreement to provide such notice, using CNA form G-140327-B (Ed. 07/11), Travelers Form IL T4 00 (12/09) or other equivalent carrier forms, such as ACORD forms. **A copy of the Notice of Cancellation Endorsement must be furnished to Purchaser prior to delivery of goods.**

2.4 Severability of Interest. All insurance carried shall be endorsed to provide that, inasmuch as this policy is written to cover more than one insured, all terms, conditions, insuring agreements and endorsements, with the exception of limits of liability, shall operate in the same manner as if there were a separate policy covering each insured.

2.5 Commercial General Liability Insurance. Vendor shall obtain and maintain Commercial General Liability Insurance, on an occurrence form for the hazards of contractual liability insuring the indemnities set forth in the Purchase Order, including personal injury, death and property damage.

2.6 Excess Liability. Vendor shall maintain Excess Liability coverage on an umbrella form with minimum limits of \$1,000,000.00 per occurrence and \$1,000,000.00 aggregate.

2.8 Waiver of Subrogation. All insurance policies supplied shall include a waiver of any right of subrogation of the insurers thereunder against Purchaser and all its assigns, subsidiaries, affiliates, employees, insurers and underwriters. A waiver of subrogation shall be effective as to a person or entity even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay the insurance premium directly or indirectly, and whether or not the person or entity has an insurable interest in the property damaged.

2.9 Additional Insureds. Purchaser shall be included as additional insureds under Vendor's furnished insurance, for ongoing and completed operations, using ISO Additional Insured Endorsement (CG 20 10), edition date 11/85, or an equivalent (e.g., CG 20 10, edition date 10/93, plus CG 20 37, edition date 04/12), under the commercial

general liability policy. Said insurance shall be written on an OCCURRENCE basis, and shall be PRIMARY and NON-CONTRIBUTING.

2.10 Insurance Primary. All policies of insurance provided pursuant to this article shall be written as primary policies, and not in excess of the coverage of the indemnitee's insurance.

3. No Limitation of Liability. The required coverages referred to and set forth herein shall in no way affect, nor are they intended as a limitation on, Vendor's liability with respect to its performance of this Purchase Order.

4. Patent Liability. Vendor shall protect, defend and save Purchaser harmless from any liability, including costs and expenses, for, or on account of, any patented or unpatented invention, article or appliance manufactured or used in the performance of this Purchase Order, including their use by Owner and further agrees to pay all loss and expense incurred by Purchaser by reason of any such claims or suits, including attorneys' fees.

5. Professional Liability. If any design or other professional services are included in the Purchase Order, Vendor shall purchase, and maintain for a period of three years after the date of Final Completion, insurance covering claims arising out of the performance or furnishing of Design or Professional Services and for claims arising out of allegations of errors, omissions or negligent acts in connection with the Purchase Order. The policy shall be at least as broad as the coverage provided in Design Liability Policy, Member Companies of CNA Insurance, Form G-115692-A (Ed 02/96), with a minimum limit of \$1,000,000 per occurrence and \$2,000,000 aggregate.

5.1. Vendor shall require each designer providing design services engaged by Vendor to provide identical coverage.

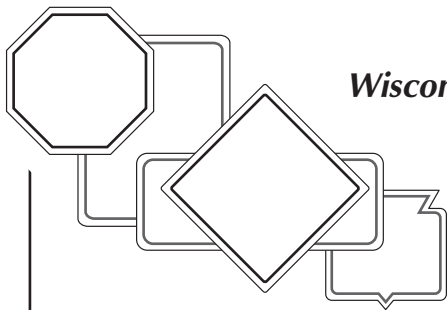
From: Bill Hale <bhale@statetractor.com>
Sent: Monday, October 9, 2023 5:58 PM
To: Richard Wilson <RWilson@parkvillemo.gov>
Cc: Bill Hale <bhale@statetractor.com>
Subject: [SPAM]: salt quote

Salt will be under state tractor trucking this year salt will be \$94.00 per ton and 1/1 will be \$72.00 a year

Bill Hale, Supervisor



Cell: 913-575-5483 Office: 913-334-1075
PO Box 12541, Kansas City, KS 66112
www.dalekc.com



Using Salt and Sand for Winter Road Maintenance

To make winter roads passable, maintenance personnel usually must either apply chemical deicers to melt ice and snow or spread sand to provide traction. Since chemicals and sand are costly and may have negative environmental impacts, you need to know how they work. This publication gives you basic information and practical tips on how to use deicing chemicals and sand.

Deicing with salt

Plowing is the best way to remove snow and slush from pavements. However, clearing winter roads to bare pavement usually requires deicing chemicals. In Wisconsin the most common chemical is salt (sodium chloride), usually mined rock salt that has been crushed, screened, and treated with an anti-caking agent. Rock salt is relatively light—about one ton per cubic yard—and comes as a mixture ranging from $\frac{3}{8}$ " granules to fine crystals.

Deicing chemicals work by lowering the freezing point of water. A 23.3% concentration of salt water will remain liquid to -6°F . Before a dry deicing chemical can act it must dissolve into a brine solution. It uses moisture from water, snow or slush on the road surface.

Changing ice or snow into water also requires heat from the air, the sun, or the pavement. Chemicals only lower the melting temperature; it takes heat to change ice to water. Even when pavement is below freezing, it holds some heat which can help melt snow and ice.

Factors affecting deicing action

Many factors affect the process of melting snow and ice. Decisions on how and when to apply materials are best left to field supervisors and operators who can assess conditions and adjust to changes.

Concentration If too much chemical is used, not all of it will dissolve into solution, and some will be wasted. Too little chemical may not sufficiently lower the solution's freezing point. When salt is dissolved into brine on the road it is near 23% concentration and freezes at -6°F .

As snow and ice melt, the extra water dilutes the solution, raising its freezing point. For example, a 10% salt brine solution will stop melting ice and can refreeze at about 20°F , which may require more salt. The ice will not melt or melted snow may refreeze, wasting the chemical. See page 2 for more on spreading rates.

Temperature

Salt's effectiveness is directly related to the surface temperature of a snow- or ice-covered road. As temperatures go down, the amount of deicer needed to melt a given quantity of ice increases significantly.

Figure 1 shows that salt can melt five times as much ice at 30°F as at 20°F . Small differences in pavement temperatures have a noticeable effect. Truck mounted temperature sensors give operators information to make better application decisions.

Time The longer a deicing chemical has to react, the greater the amount of melting. At temperatures above 20°F

both salt and calcium chloride can melt ice in a reasonable time. However, at 10°F it takes an hour for salt to melt $\frac{1}{8}$ " of ice.

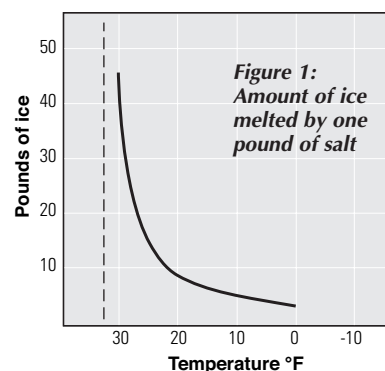


Figure 1:
Amount of ice
melted by one
pound of salt

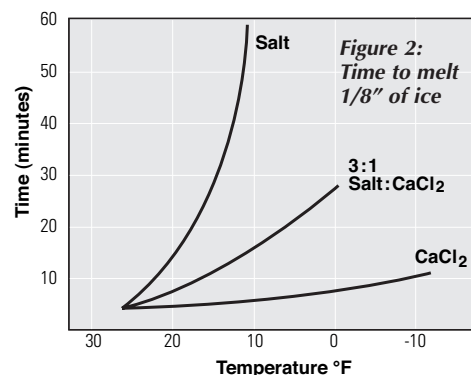


Figure 2:
Time to melt
 $\frac{1}{8}$ " of ice

Weather When sun warms the pavement, the heat speeds up melting. Radiant heat may raise pavement temperature 10°F or more above the air temperature. On clear nights, pavements will be colder than the air. Use less chemical when temperatures are rising and more when they are falling.

Applying chemicals during blowing snow and cold temperatures will cause drifting snow to stick to the pavement. If chemicals are not used, the dry snow is more likely to blow off the cold road surface.

Road surface type Snow and ice may melt more rapidly on a concrete surface because it gives up heat more rapidly. Because asphalt absorbs more solar radiation it may have more heat available for melting snow. This is why snow melts rapidly next to bare asphalt pavement areas. Bridges cool down and warm up faster than road surfaces because air reaches both sides of the deck. This can create varying conditions, such as icing on the bridge deck when the adjacent road is clear.

Topography Ice tends to form where topographic conditions, like high banks or dense vegetation, screen the road surface from the sun. The longer the area is shaded, the more likely that ice will form. Since pavement temperatures are lower in shaded areas, you may need more chemicals there. Road cuts may cause snow to drift and blow across the road; the snow will lower pavement temperatures.

Traffic effects Traffic aids deicing by spreading and mixing chemicals into the snow and ice. Tire action also breaks up ice layers weakened by salt and can throw slush off the road. Roads with light traffic can be more difficult to maintain because they lack this mixing and breaking action. However, traffic can also trap blowing snow or can melt snow and cause it to refreeze in the wheel tracks, if not treated again.

Application width Studies show that snow melts faster when salt is applied in narrow strips. The total amount of snow melted over several hours is the same, however, regardless of application width. If you concentrate spreading (windrowing), you can expose a portion of road surface to the sun quickly. It can then absorb heat and speed up the melting rate.

After a road is first plowed, deicing chemicals are usually applied in a windrow 2'-4' wide down the middle of a two-lane road. To remove glare ice or keep snow in a plowable condition, you may want to apply chemicals across a broader portion of the roadway.

Timing of application Timing is the most important factor in successfully clearing snow by chemical treatment. Early application is critical. Spreading a small amount of chemical deicer when snow is loose and

unpacked melts a little snow and turns the rest to slush. Traffic cannot pack down slushy snow which is 15% to 30% water. This lets plows remove it, and plowing is the best way to clear roads. If snow continues to fall, more salt may be needed.

Environmental impact

A major concern in using chemicals for winter road maintenance is environmental impact. Studies show that soils, vegetation, water, highway facilities, and vehicles are all affected, so it is very important to use these chemicals wisely. Most soil and vegetation impacts occur within 60' of the road and are greatest close to the pavement.

Deicing chemicals are highly soluble and will tend to follow any water flow. Salt concentrations in Wisconsin's surface and ground water have increased since the early 1960s, the Department of Natural Resources reports, but aquatic life has not yet been affected that we know of. In drinking water sources, which the WDNR also monitors, salt concentrations are within recognized safe limits. In some reported cases, groundwater carrying deicing chemicals has contaminated wells and carried heavy salt concentrations into nearby streams.

Deicing chemicals can accelerate deterioration in concrete and steel structures. New construction methods are reducing this impact, but highways and bridges do suffer from chemical damage. Vehicle corrosion is also accelerated. Corrosion on vehicles and structures is estimated to be the largest cost impact of chloride-based chemicals. Even relatively small amounts of chloride will significantly accelerate existing corrosion.

Salt storage requirements

Localized environmental damage from salt has come largely from stockpile runoff due to the effect high concentrations of salt have on exposed environmental elements. For that reason, it is necessary to prevent stockpile runoff from contaminating ground or surface water by covering the salt and storing it on an impermeable base so rain or melt runoff can't seep in.

Wisconsin regulations require highway agencies to store salt inside a covered, waterproof structure. If this is not possible, facilities with stockpiles over 1,000 pounds must be covered with waterproof material, stored on an impermeable pad, and reported to the Wisconsin DOT.

Spreading

Spreading rates No two storms are alike, so no single set of standards will give the proper spreading rate for all storm conditions. Generally, however, only apply enough chemical deicer to permit plows to remove the snow or to melt glare ice. Experience shows it is most





effective to spread 100 to 300 pounds per single lane mile.

Do not use any deicer when temperatures are

below its effective range. Normally, the lower limit for salt is 15° to 20°F. If deicing is necessary at lower temperatures, it will take more salt and melting will take much longer (see Figure 2). Alternative chemicals, such as calcium chloride or magnesium chloride, may be a better choice for low pavement temperatures.

Other conditions that affect salt application rates:

- **Precipitation type** Additional salt is helpful if the snowfall is heavy and the snow is wet, or if freezing rain is expected.
- **Snow accumulation** Roads already covered with snow or ice require more salt.
- **Time before next application** If it will be 2 hours or more until the next plowing and salting, the section will probably need extra salt.
- **Service level** More salt may be justified on a road with heavy traffic requiring a higher service level than on lower volume roads with slower speeds.

Melting action spreads across the pavement to lower areas, so concentrate deicers on the center (crown) of two lane roads and on the high side of curves.

Chute vs. spreader A spreader with a spinner is the most common way of applying deicers. A spinning circular plate throws the deicer out in a semicircle. Alternatively, a chute applicator can distribute the deicer in a windrow on the road, usually along or near its centerline.

Higher truck speeds will cause the salt to roll and spread further across the road. Tests have shown that a chute will do a better job of keeping salt on the road if spreading speed is 25 MPH or greater.

Spreaders can be equipped with automatic or ground-oriented controls. These adjust application rates to changing truck speeds, so the driver need not alter the spreader settings. They effectively cut waste and are recommended for spreading straight salt.

Spreader calibration It is important to apply the correct amount of salt for the current storm conditions. In order to control application rates, each spreader must be calibrated for each material you intend to use. Different materials will spread at different rates at the same spreader control setting, and individual spreaders, even identical models, can vary widely in how much

they spread at the same control setting. Furthermore, spreaders operate in a very hostile environment—low temperature, lots of moisture, corrosive chemicals—so, they need to be cleaned and checked every year.

Alternative chemicals

Salt is the most efficient deicing chemical if road temperatures remain above 20°F. Calcium chloride (CaCl_2) and magnesium chloride (MgCl_2) are common alternatives for use in colder temperatures. Figure 2 shows how effectively CaCl_2 melts ice at low temperatures. Since these alternative chemicals cost up to 10 times more than salt, mixing some dry CaCl_2 or MgCl_2 with dry salt can be an efficient approach.

Figure 2 shows the benefits of a mixture of 3 parts salt to one part CaCl_2 . These alternative chemicals are effective at road temperatures below 0°F.

Dry calcium chloride and magnesium chloride require special handling. They actually give off heat when they dissolve into brine—a very beneficial characteristic. They also draw moisture from the air, providing water for the initial brine formation. These unique properties make them a valuable tool during severe conditions.

They are usually stored in moisture proof bags until needed. Otherwise their ability to draw moisture can cause the material to cake and form into large chunks.

Pre-wetting

Pre-wetting salt is becoming common. Wetting provides moisture to make brine. Faster melting action may be expected. In addition, the wet salt will be less likely to bounce or be blown off the road by traffic. Savings in lost or wasted salt of 20%-30% are possible.

Common pre-wetting liquids include salt brine, calcium chloride, and magnesium chloride. Some liquid pre-wetting chemicals may contain additives to inhibit corrosion. Applications of 8-10 gallons of liquid per cubic yard of salt are recommended.

Some agencies spray the salt as it is loaded into the truck or pre-treat the salt. However, it is most common to use truck-mounted equipment to spray the salt as it leaves the spreader.

Savings from losing less salt can more than pay for pre-wetting. However, these benefits only result if the operator actually reduces the application rates.

Anti-icing

Anti-icing is a pro-active road maintenance strategy that tries to keep the bond between ice and the pavement surface from forming. It involves applying ice control chemicals before or at the very beginning of a storm.

Using this strategy often reduces the total chemical used and allows a higher level of service to travelers.

The strategy most commonly used now is *deicing*—breaking the bond between the ice and pavement. Obviously, this technique is required once the snow or ice covers the pavement. More chemicals are needed to cut through the ice and break the bond than presumably would be needed to prevent the initial formation of the ice to pavement bond.

Various ice control chemicals are being used for anti-icing including liquid salt, liquid magnesium chloride, liquid calcium chloride, CMA, and potassium acetate. See Wisconsin Transportation Bulletin No. 22, *Pre-wetting and Anti-icing—Techniques for Winter Road Maintenance*.

Abrasives

Sand and other abrasives improve vehicle traction on snow- and ice-covered roads. They can be used at all temperatures and are especially valuable when it is too cold for chemical deicers to work. Abrasives are normally used on gravel roads because chemicals will soften the surface and cause plows to scrape off the gravel. Low volume roads commonly receive only abrasives. Sand is the most common abrasive, but slag, cinders, and bottom ash from power plants are also used.

Abrasive quality Some sand and abrasives perform better than others. For better traction, use material with crushed or angular particles. Rounded particles are less effective. Very small particles and dirt are actually harmful to traction. Material larger than the #50 sieve is most effective. To minimize windshield damage, use materials in which all particles are less than $\frac{3}{8}$ " diameter.

Abrasive application Abrasives are usually applied only at hazardous locations such as curves, intersections, railroad crossings, and hills at rates of 500 pounds (0.18 cubic yard) to 2 cubic yards per mile. It is important to calibrate spreaders to control application rates.

Since abrasives must stay on the surface to be effective, they should not be used when they will be covered with snow or blown off quickly by traffic. Heavy traffic reduces their effectiveness, requiring repeat application.

Combining chemicals with sand Treating sand with 50-100 pounds of salt per cubic yard is necessary to prevent freezing and keep it workable. If slag, cinders or other abrasives are wet they also require salt, in the

same amount, to be usable. Pre-wetting sand with a liquid deicing chemical just before spreading has proven effective in embedding the abrasive on icy pavements.

Some agencies mix more salt with their abrasive than is needed for freeze-proofing. This practice is often wasteful and ineffective. Blending does not produce a new material. It is still just salt that melts and sand that can aid traction if it stays between the tire and the ice.

In a blend, sand and salt often work against each other. *IF* the goal is for sand to stay on the surface for traction, the salt in the mix either blows off and gets wasted or does its job and melts the snow. However, tires can then push the sand down into the slush, making it ineffective for improving traction. *IF* the goal is for salt in the blend to melt snow and ice so plows can clear the pavement, then the sand gets removed too, wasting it. In addition, salt melts less ice when mixed with sand.

Avoid waste. Use straight salt when it will work best and apply freeze-proofed abrasive when salt is not effective or not needed.

Environmental impacts Abrasives used for winter road maintenance have some negative environmental impact. They can clog storm water inlets and sewers. Cleanup may be necessary in urban areas, on bridge decks, and in ditches. The materials may wash downstream and end up in streams and lakes which can have a negative impact on fish habitat.

Salt mixed with abrasives to keep them unfrozen and usable has the same potential impacts as described earlier. In particular, salt-treated abrasives can accelerate vehicle corrosion.

Documented pollution from particles less than 10 microns (pm 10) has led to concern about the impact of winter abrasive use on air quality. As a result, cleaner abrasives and quicker cleanup after storms are being required in areas with severe air pollution.

Abrasive storage requirements

Wisconsin regulations require that abrasives treated with salt meet certain storage requirements. All salt-treated abrasives must be covered from April 1 to October 1 each year. If the abrasive has more salt than 5% by weight (approximately 140 pounds per cubic yard), it is considered the same as salt and must be covered at all times and stored on an impermeable base.

Salt and abrasive storage facilities holding more than 1,000 pounds must be reported to the Wisconsin DOT which conducts an annual inspection.

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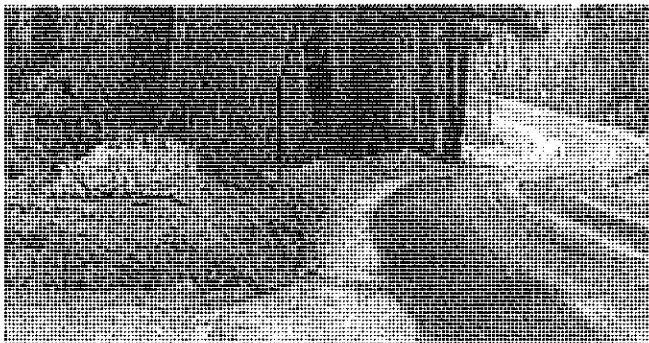
Technology Transfer Center

New Hampshire LTAP at UNH

33 College Road, Durham NH 03824

603-862-2826 800-423-0060 Fax 603-862-0620 t2.center@unh

Pros and Cons of Sand on Ice and Snowpack



This picture was taken in March after a season of spreading sand on a hill. Sand remains on the road and roadsides. A catch basin at the bottom of the hill empties into a wetland.

Many highway departments apply sand on snow and ice covered roads to increase friction and improve road safety. Yet, significant friction increases occur in only a few situations. This article will describe those situations and the affects of sand on the environment.

Environmental Concerns

Agencies tend to spread sand many times throughout the winter months. Sand is expensive. It also can create large debris deposits on roadways. Environmental concerns dictate that sand be swept up each spring. Sweeping sand also picks up other debris and various compounds. Agencies must dispose of the material as a solid waste.

Sweeping picks up only a small percent of the total sand applied during a typical winter. The rest remains in the environment, much of it in catch basins or on or around roadways. Sand retained in catch basins should be periodically removed. This material, too, must be disposed of as solid waste. (A pending New Hampshire Department of Environmental Services fact sheet will address disposal of street sweepings and catch basin materials.)

Much of the sand not retained in catch basins stays in drainage pipes, decreasing their capacity. The rest is carried to outfalls, becoming sediment in ditches and water bodies.

Some of the sand on roadsides ends up in the ground, diminishing soil quality. Much of it becomes sediment, in many instances carried into streams, rivers, ponds, or lakes.

Study Results

Studies show that the effects of sanding are temporary, whether spread dry or prewetted. Abrasives do little to improve driving conditions on roads with high traffic volume. When dry sand is spread, 30% of it immediately scatters. Over time, cars usually displace most of the remaining sand. As few as 8 to 12 vehicles can sweep it from snow covered highway surfaces. Even with light traffic, friction gained from dry sand is quickly diminished.

University of Iowa (UI) researchers have drawn conclusions about methods to prewet abrasives with a chemical deicing brine. One method is to prewet abrasives in the stockpile to prevent their freezing. Such prewetting has little effect on the ability of the abrasives to remain on the pavement surface when delivered.

Some agencies prewet abrasives while loading trucks. Researchers found no evidence that such prewetting increases abrasives staying on the road surface.

The final prewetting method is to add about 10 gallons of sodium chloride or calcium chloride brine per ton of abrasives at the truck spinner or tailgate. Studies indicate that prewetting salt and other solid chemicals helps to keep them on the road surface when first delivered. It is less clear that prewetting helps it to stay there. The researchers drew the same conclusions for sand.

In summary, none of the prewetting methods appears to help sand stay on roads.

Recommended Practices

The UI study examined abrasive use on Iowa county roads. The researcher concluded that sand has varying levels of effectiveness on different classes of roads. He recommended the following changes in practice, which are summarized in Table I.

- **High Speed Urban Roads.** For urban streets with posted speed limits above 30 mph, there is no significant value in placing abrasives. Research recommends plowing and applying chemicals to achieve bare pavement.
- **Low Speed Urban Roads.** For urban streets with posted speed limits less than 30 mph, there is less abrasive dispersion. Abrasives should be limited to parts of the road where motorists must brake, accelerate, or maneuver. Even then, abrasives should be applied only when it will likely take a long time to provide bare pavement.
- **Urban Intersections.** Urban intersections are relatively low-speed traffic locations. Abrasives could be placed if needed. However, they should be used only when an intersection might be snow or ice-covered beyond a normal period.
- **Rural Roads.** Both paved and gravel roads can expect to see high-speed traffic. Abrasives will not stay on the road for any reasonable amount of time. Abrasives should be applied on hills and curves only on low-speed low-volume roads. Paved rural roads should be plowed and chemical applied to achieve bare pavement. The recommended gravel rural roads approach should be simply to groom the snow pack.
- **Rural Intersections.** Again, gravel versus paved roads must be considered. An intersection should be considered "paved" only if all intersecting roads are paved. Road segments where motorists must stop or yield are low-speed traffic locations. Abrasives could be placed if needed. The preferred approach for paved roads is to plow and apply chemicals to achieve bare pavement. On gravel parts of intersections, abrasives may be applied over that part of the road where speeds less than 30 mph are expected.

Table 1 Recommended Abrasives Applications	
Road Type	Use of Dry Abrasives
High Speed Urban Roads	Inappropriate
Low Speed Urban Roads	Only in certain locations, and when snow pack will persist
Urban Intersections	Only when snow pack will persist
Rural Roads, Paved	Inappropriate
Rural Roads, Gravel	Only on low speed sections (perhaps hills and curves)
Rural Intersections	Only on low speed approach length of gravel roads

Sand remaining on gravel roads after spring thaw is a poor wearing course material. Some New Hampshire road managers report significant friction increases from spreading crushed aggregate on gravel hills and curves. Several have successfully used 5/8-inch minus aggregate. In addition to safer roads in the winter, these are better wearing course materials after the spring thaw. Following the UI recommendations above, managers should consider such material at gravel road intersections.