

## REPORT OF ACTION

### PUBLIC WORKS PROJECTS EVALUATION COMMITTEE

Improvement District No. BR-26-I1

Type: Change Order #1

Location: 4<sup>th</sup> Ave N, 29<sup>th</sup> St N – Cass County Drain 10

Date of Hearing: 7/13/2026

|                 |                      |
|-----------------|----------------------|
| <u>Routing</u>  | <u>Date</u>          |
| City Commission | <u>7/20/2026</u>     |
| PWPEC File      | <u>X</u>             |
| Project File    | <u>Jason Leonard</u> |

The Committee reviewed a communication from Division Engineer, Jason Leonard, regarding Change Order #1. This is a no cost/time added change order to authorize Northern Improvement to utilize Automated Machine Guidance (AMG) subject to conditions outlined in Change Order #1.

On a motion by Nicole Crutchfield, seconded by Susan Thompson, the Committee voted to recommend approval of Change Order #1 to Northern Improvement.

#### RECOMMENDED MOTION

Concur with the recommendations of PWPEC and approve Change Order #1 authorizing Northern Improvement to utilize AMG within the conditions outlined in the Change Order.

#### PROJECT FINANCING INFORMATION:

|                                                                |                                                                                                                                           |     |    |  |     |  |     |  |     |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----|----|--|-----|--|-----|--|-----|
| Recommended source of funding for project:                     | <u>Special Assessments</u>                                                                                                                |     |    |  |     |  |     |  |     |
|                                                                | <table><tr><td>Yes</td><td>No</td></tr><tr><td></td><td>N/A</td></tr><tr><td></td><td>N/A</td></tr><tr><td></td><td>N/A</td></tr></table> | Yes | No |  | N/A |  | N/A |  | N/A |
| Yes                                                            | No                                                                                                                                        |     |    |  |     |  |     |  |     |
|                                                                | N/A                                                                                                                                       |     |    |  |     |  |     |  |     |
|                                                                | N/A                                                                                                                                       |     |    |  |     |  |     |  |     |
|                                                                | N/A                                                                                                                                       |     |    |  |     |  |     |  |     |
| Developer meets City policy for payment of delinquent specials | N/A                                                                                                                                       |     |    |  |     |  |     |  |     |
| Agreement for payment of specials required of developer        | N/A                                                                                                                                       |     |    |  |     |  |     |  |     |
| Letter of Credit required (per policy approved 5-28-13)        | N/A                                                                                                                                       |     |    |  |     |  |     |  |     |

#### COMMITTEE

|                                             | Present                             | Yes                                 | No                       | Unanimous                           |
|---------------------------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|
|                                             |                                     |                                     |                          | <input checked="" type="checkbox"/> |
| Josh Bosch, Mayor                           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
| Nicole Crutchfield, Director of Planning    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
| Gary Lorenz, Fire Chief                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Ryan Erickson                       |
| Brenda Derrig, Assistant City Administrator | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |                                     |
| Ben Dow, Director of Operations             | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |                                     |
| Tom Knakmuhs, City Engineer                 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
| Susan Thompson, Finance Director            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |

ATTEST:

C: Kristi Olson

  
\_\_\_\_\_  
Tom Knakmuhs, P.E.  
City Engineer

# Memorandum

**To:** Members of PWPEC  
**From:** Jason Leonard, Division Engineer  
**Date:** July 9, 2026  
**Re:** Improvement District No. BR-26-I1 - Change Order #1 –  
Approval to Utilize Automated Machine Guidance

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## **Background:**

This project is for the street reconstruction of 4th Avenue North, from Cass County Drain 10 to 29th Street North.

Northern Improvement Company is the prime contractor.

The Contractor has requested approval to utilize Automated Machine Guidance (AMG), commonly referred to as stringless paving, for slip-form concrete pavement installation. Due to the relatively straightforward nature of the project, the Engineering Department recommends approving the use of AMG on a trial basis to evaluate the technology for future consideration.

Approval is limited to this project only and does not establish precedent for future City of Fargo projects. As a condition of approval, the Contractor will be required to submit an AMG Operation Plan, assume full responsibility for the development, accuracy, and verification of the digital machine control model, and correct any deficiencies resulting from the use of AMG at no additional cost to the City. The Contractor must perform continuous quality assurance using a robotic total station, verify all project control points using conventional survey methods, and construct the pavement within the specified horizontal and vertical tolerances. This approach allows the City to evaluate the effectiveness of AMG technology while maintaining the required construction quality and protecting the City's interests.

## **Recommended Motion:**

Approve Change Order No. 1 for Improvement District BR-26-I1, authorizing the Contractor to utilize Automated Machine Guidance (AMG), or stringless paving, for slip-form concrete pavement installation, subject to the conditions outlined in the Change Order.

JTL/klb  
Attachment



**CHANGE ORDER REPORT**  
**PAVING AND UTILITY REHAB/RECONSTRUCTION**  
**IMPROVEMENT DISTRICT NO. BR-26-I1**  
**ON 4TH AVENUE NORTH FROM 29TH STREET TO CASS COUNTY DRAIN 10.**

|                        |                         |                          |          |
|------------------------|-------------------------|--------------------------|----------|
| <b>Change Order No</b> | 1                       | <b>Change Order Date</b> | 7/9/2026 |
| <b>Contractor</b>      | Northern Improvement Co |                          |          |

This change is made under the terms of or is supplemental to your present contract, if and when approved, you are ordered to perform the work in accordance with the additions, changes, or alterations hereinafter described.

**EXPLANATION OF CHANGE**      Change Order # 1

The Contractor has requested approval to utilize Automated Machine Guidance (AMG), commonly referred to as stringless paving, for the slip-form concrete pavement installation on 4th Avenue North. Due to the relatively straightforward nature of this project, the Engineering Department has determined that this project is an appropriate opportunity to evaluate the use of AMG technology on a trial basis.

Approval of AMG is limited to this project only and shall not be interpreted as approval for future City of Fargo projects.

As a condition of this approval, the Contractor shall comply with the following requirements:

1. Submit an AMG Operation Plan to the Engineer at least fourteen (14) calendar days prior to beginning slip-form concrete pavement operations. The plan shall include:
  - Locations where AMG will be utilized.
  - The anticipated horizontal and vertical accuracy of the system.
  - Documentation of the Contractor's previous experience using AMG, including project references.
  - The manufacturer and model of the proposed AMG equipment.
2. The Contractor shall be solely responsible for the development, accuracy, and verification of the digital machine control model. The Contractor shall confirm that the model accurately reflects the contract plans, specifications, and field conditions before beginning construction.
3. The Contractor assumes full responsibility for all errors associated with the use of AMG and shall, at no additional cost to the City, correct any deficiencies resulting from the use of the system to the satisfaction of the Engineer. Any required updates to the machine control model resulting from plan revisions shall be performed by the Contractor at the Contractor's expense.
4. During all AMG operations, the Contractor shall utilize an robotic total station and perform continuous quality assurance checks to verify alignment and elevation. The completed concrete pavement shall meet a construction tolerance of  $\pm 0.02$  feet (1/4 inch) vertically and  $\pm 0.04$  feet (1/2 inch) horizontally.
5. Upon execution of a Hold Harmless Agreement, the City will provide available two-dimensional curb alignment data in either DWG or DXF format and a network of project control points with known coordinates. The Contractor is solely responsible for converting the City's data into a format compatible with its AMG equipment. In addition, the Contractor will incorporate 50-foot vertical curves on the low and high points of the pavement

section.

6. The City's provision of digital files and control information does not replace conventional construction staking. The City will provide finish-grade staking at critical locations, as determined by the Engineer, for quality assurance purposes. These stakes shall remain in place until completion of concrete pavement construction unless otherwise approved by the Engineer. The contractor

7. The Contractor shall verify all control points and continuously confirm alignment and elevation throughout construction using conventional survey methods in conjunction with the AMG system.

Acceptance of this change order constitutes the Contractor's acknowledgment and acceptance of these requirements and responsibilities.

| Section | Line<br>No | Item<br>Description | Unit | Orig Cont<br>Qty | Prev C/O<br>Qty | Prev Cont<br>Qty | Curr C/O<br>Qty | Tot Cont<br>Qty | Unit Price<br>(\$) | C/O Ext Price<br>(\$) |
|---------|------------|---------------------|------|------------------|-----------------|------------------|-----------------|-----------------|--------------------|-----------------------|
|         |            |                     |      |                  |                 |                  |                 |                 | Sub Total          | \$0.00                |

**Summary**

**Source Of Funding**

**Net Amount Change Order # 1 (\$)**

**Previous Change Orders (\$)**

**Original Contract Amount (\$)**

**Total Contract Amount (\$)**

**Special Assessments**

**\$0.00**

**\$0.00**

**\$1,205,961.80**

**\$1,205,961.80**

I hereby accept this order both as to work to be performed and prices on which payment shall be based.

**APPROVED**

**For Contractor**

**Title**

  
VILE PRESIDENT

**APPROVED DATE**

**Department Head**

**Mayor**

**Attest**

