



# BridgeWatch

## Proposal

Presented To:



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BridgeWatch® is a registered trademark of USEngineering Solutions Corporation and USEngineering Solutions Corporation is the owner of United States Patent #6,862,528 entitled "Monitoring System and Process for Structural Instabilities due to Environmental Processes" dated March 1, 2005.

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## Executive Summary

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USEngineering Solutions Corporation ("USE") is pleased to present the Minnesota Department of Transportation ("MnDOT") with this proposal for licensing the BridgeWatch® web-based hazard monitoring and training tool.

This document will briefly describe the proposed staffing, deliverables, and associated timelines and costs for the proposed BridgeWatch system for MnDOT.

By choosing USE, you will have a partner for MNDOT who can provide the technologies to help you manage the monitoring of potentially dangerous environmental conditions, cost effectively, and efficiently.

### Company Background

USE is a software-as-a-service ("SaaS") provider that enables public safety officials and asset managers to monitor, in real-time, environmental conditions that can adversely affect infrastructure. USE's solutions provide clients with early warning of any potentially destructive conditions through electronic notification.

### BridgeWatch®

- BridgeWatch is a web-based software application that empowers engineers and public officials to predict, identify, prepare for, and record potentially destructive events. For the first time, public safety officials will be able to efficiently dispatch emergency personnel, safety inspectors, and maintenance workers before, during, and after a hazardous event affects their inventory of structures. BridgeWatch can be configured to identify the occurrence of environmental hazards and collect relevant structure information, several sources of real-time meteorologic data, hydrologic data, seismologic data and any monitoring device data available.
- BridgeWatch fosters the ability to have increased communication and coordination by automatically contacting key personnel and informing them of potentially destructive events linked to individual thresholds and user-defined emergency response protocols.
- Users of BridgeWatch can access, in real-time, a graphical display of their geographic data, an inventory of structures being monitored, and the list of those structures experiencing their respective critical event. A watch list of structures identifies the priority list of those structures requiring action according to a user-defined protocol. The BridgeWatch system can, dependent upon configuration, also provide the user with pertinent structure information, real-time meteorological data, hydrological data, and any monitoring device data available. Beyond timely effectuation of emergency response protocol, users will be able to document off-site and on-site responses electronically.
- BridgeWatch is designed to be an active/pro-active monitoring system utilizing an encrypted web-based system that is accessible anytime, anywhere in the state or the world, provided the user has web-access and proper security credentials. The flexibility of secured remote access allows MnDOT to make informed decisions regarding hazard related response from anywhere and anytime.

**BridgeWatch pricing is based on several key variables:**

1. **Implementation Fee**
2. **Annual Monitoring Fee**
3. **System Licensing and Maintenance**
4. **Administrative Costs**
5. **Optional Services**
  - Hardware and Additional Software (if requested)
  - Mobile Accessibility (including devices and mobile broadband)
  - Additional User Training (if requested)
  - Professional Services and Consulting Services (if requested)
  - Customer Service and Emergency Service (if requested)

**Implementation Fee – Statewide Monitored Bridges**

**Total Implementation Fee:** **\$35,000**

Includes:

1. The collection and implementation of validated and accurate MnDOT structure information for up to 300 structures to be included as “Active” into BridgeWatch as provided to USES by MnDOT. This data includes shapefiles, NBI bridge data, threshold data templates, and structure files such as plans, reports, and photos. This does NOT include any “data scrubbing” (data error resolution, data correction, or data validation) by USES of any data provided by MnDOT.

**Annual Monitoring Fee – Statewide Bridges (pre-paid annually):**

**Total Annual Monitoring Fee:** **\$80,000\***

Includes:

1. Active population of structures is estimated to be up to three hundred (300) included in the proposed annual fee as active. Each additional structure beyond the allotted three hundred (300) will cost an additional \$25.00 per year pro-rated for that contract year.
2. Automated notification of alerts and warnings sent directly to registered MnDOT users via designated and compatible email and cell phones.

3. Secured access to MnDOT BridgeWatch ASP environment interface via internet by authorized MnDOT users.
4. Data back-up offline (bi-monthly).

\*Monitoring fee will increase 5% annually for two renewal years.

2022 - \$84,000

2023 - \$88,200

<b>Cost Breakdown</b>	<b>FY 24 (July 2024-June 2025)</b>	<b>FY 25 (July 2025-June 2026)</b>	<b>FY 26 (July 2026-June 2027)</b>
Implementation Fee	\$ 35,000.00		
Annual Monitoring Fee	\$ 80,000.00	\$ 84,000.00	\$ 88,200.00
System Licensing and Maintenance Costs	\$ 30,000.00	\$ 30,000.00	\$ 30,000.00
Total	\$ 145,000.00	\$ 114,000.00	\$ 118,200.00

### **Annual Licensing and Maintenance Fees (pre-paid annually):**

**Total Annual Licensing and Support Fees \$30,000**

Includes:

1. Base licensing and maintenance updates
2. User profile maintenance and additions
3. Base structure information updates
4. Standard Customer Support (9 A.M. – 5 P.M. EST Mon-Fri)

<b>Optional Services</b>	
<b>Hardware and Additional Software</b>	<b>TBD</b>
<b>Additional User Training (per hour/plus travel and expenses)</b>	<b>\$175</b>
<b>Professional and Consulting Services (per hour/plus travel and expenses)</b>	<b>\$275</b>
<b>Customer Support Outside Standard Hours (per hour)</b>	<b>\$175</b>

Joseph Scannell

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Chief Executive Officer

May 19, 2023

Date