Nick Koszykowski, Principal Programmer/Analyst
Center for Technology and Training

Civil & Environmental Engineering
CENTER FOR TECHNOLOGY AND TRAINING

• Surface Transportation
• Typically Applied Research
• Local & State Agencies

Strength Areas:

IT - Software
Pavement Management / Asset Management
Traffic Safety Engineering
Bridge Engineering
Bridge Load Rating
Construction Engineering
CENTER FOR TECHNOLOGY AND TRAINING

Under Civil and Environmental Engineering

20-22 Full Time Staff

- Engineers,
- Computer Programmers,
- Technical Writers,
- Business Professionals

10-15 Students
• **Started in 1997**

• **Yearly contract with MDOT**
  - **Current contract:** ~$115,000

• **Free to MI local Agencies/Consultants**

• **~1400 users**
• **Project Estimator**
  • MDOT’s Pay Item List and Average Unit Prices

• **Bid Utility**
  • Collect and analyze bids

• **Local Job Manager**
  • Manage the project in the field, tracking item usage and payments
LOCAL JOB MANAGER

• **Daily Inspections/Postings**
• **Pay Estimates**
• **Contract Modifications**
• **No Materials**

<table>
<thead>
<tr>
<th>Date</th>
<th>Total</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/17/2009</td>
<td>$2,008.74</td>
<td>This posting is to balance our records with the contractor records t</td>
</tr>
<tr>
<td>10/16/2009</td>
<td>$33,769.90</td>
<td>HMA patch placed in all disturbed sidewalk areas today. No ticket</td>
</tr>
<tr>
<td>10/15/2009</td>
<td>$1,038.20</td>
<td>Installed sewer lateral at Santo Stefano Del Lago</td>
</tr>
<tr>
<td>10/14/2009</td>
<td>$6,963.50</td>
<td>Those items were placed at Santo Stefano Del Lago. In addition to th</td>
</tr>
<tr>
<td>10/13/2009</td>
<td>$8,138.43</td>
<td>Work was performed in front of Mr. Kozak’s today. In addition to th</td>
</tr>
</tbody>
</table>

**Posting Date:** 10/13/2009  
**Field Book Number/Page:** [ ]  
**Notes:**  
Work was performed in front of Mr. Kozak’s today. In addition to these items, future pay estimates need to include Extra Service Length, Long-1 each, and Upsize Water Service 1” to 1.5”, Long-1 each.

<table>
<thead>
<tr>
<th>Pay Item</th>
<th>Description</th>
<th>Qty</th>
<th>Units</th>
<th>Price</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>2040013 Sidewalk, Rem</td>
<td>23.30</td>
<td>Syd</td>
<td>$2.60</td>
<td>$60.58</td>
</tr>
<tr>
<td>2</td>
<td>4027002 Foremain, DI, 16 inch, Tr Det G</td>
<td>34.50</td>
<td>Ft</td>
<td>$32.30</td>
<td>$1,114.35</td>
</tr>
<tr>
<td>3</td>
<td>8250245 Water and Fire Suppression Service, 6 inch, Long</td>
<td>1.00</td>
<td>Ea</td>
<td>$5,400.00</td>
<td>$5,400.00</td>
</tr>
<tr>
<td>4</td>
<td>8257030 Additional Water Main Fittings, Not Shown on Plans</td>
<td>265.00</td>
<td>Lb</td>
<td>$5.90</td>
<td>$1,563.50</td>
</tr>
</tbody>
</table>
LOCAL JOB MANAGER

• **Item Summary**

• **Completely Placed, Qty Remaining, Unpaid**

• **Item Posting History**
• Android and iOS
MERL MOBILE

- **Project Info**
- **Posting History**
- **Add Posting**
**MERL MOBILE**

- **Submit/Upload Posting**
- **Download to MERL**
• **Web-Based Project Estimator**
  • **Spring 2018**

• **Web-Based Bid Utility**
  • **Winter 2019**

• **Web-Based Local Job Manager**
  • **Winter 2019**
WEB-BASED MERL

- Hosted in Microsoft's Cloud services
  - Free for any local agency, consultant, or contractor working in Michigan
- Access via any modern browser
  - Chrome, Firefox, Internet Explorer, Edge, Safari
- Migrate from Desktop to Web using Bulk Export/Bulk Import
WEB-BASED MERL - MIGRATION

- Bulk Export from MERL Desktop
WEB-BASED MERL - MIGRATION

- **Bulk Import into MERL Web**

Contracts to Import

<table>
<thead>
<tr>
<th>Contract</th>
<th>Year</th>
<th>Location</th>
<th>Group</th>
<th>Exists</th>
<th>File Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>52833-723</td>
<td>2015</td>
<td>2015 Bridge Preventative Maintenance</td>
<td>Squad 3</td>
<td>No</td>
<td>52833-723.merwebcontract</td>
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<tr>
<td>52772</td>
<td>2015</td>
<td>S.A.D. Repair Program 2015</td>
<td>SAD</td>
<td>No</td>
<td>52772.merwebcontract</td>
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<tr>
<td>52781</td>
<td>2015</td>
<td>10 Mile Road and Greenfield Road</td>
<td>Squad 3</td>
<td>No</td>
<td>52781.merwebcontract</td>
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<tr>
<td>52801</td>
<td>2015</td>
<td>Jostyn Road - Clarkston Road to I-75</td>
<td>Squad 3</td>
<td>No</td>
<td>52801.merwebcontract</td>
</tr>
<tr>
<td>52841/52845</td>
<td>2015</td>
<td>Hickory Ridge</td>
<td></td>
<td>No</td>
<td>52841/52845.merwebcontract</td>
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<tr>
<td>52871</td>
<td>2015</td>
<td>WALTON &amp; ADAMS</td>
<td></td>
<td>No</td>
<td>52871.merwebcontract</td>
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<tr>
<td>53013</td>
<td>2015</td>
<td>Middlebelt Road Between W Elev...</td>
<td>Monroe</td>
<td>No</td>
<td>53013.merwebcontract</td>
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<tr>
<td>53041</td>
<td>2015</td>
<td>2015 Capital Preventative Mainte...</td>
<td></td>
<td>No</td>
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<tr>
<td>902016</td>
<td>2015</td>
<td>Countywide</td>
<td>TOC</td>
<td>No</td>
<td>902016.merwebcontract</td>
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<tr>
<td>9552015</td>
<td>2015</td>
<td>Dr Structure Repair Var Locations</td>
<td></td>
<td>No</td>
<td>9552015.merwebcontract</td>
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</table>

- Overwrite existing contracts?

[Cancel]  [Import Selected]
# Web-Based MERL

## Recent Contracts

<table>
<thead>
<tr>
<th>Contract</th>
<th>Project Type</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety Fund - 10 Mile Road Naiper Road</td>
<td>Miscellaneous</td>
<td>2016</td>
</tr>
<tr>
<td>test - changed location</td>
<td>Miscellaneous</td>
<td>2018</td>
</tr>
<tr>
<td>NickTest - Countywide</td>
<td>Miscellaneous</td>
<td>2018</td>
</tr>
<tr>
<td>13-020 - East Hewitt Avenue Spruce Street to Lakeshore Boulevard</td>
<td>New Construction</td>
<td>2014</td>
</tr>
<tr>
<td>05-156</td>
<td>New Construction</td>
<td>2005</td>
</tr>
</tbody>
</table>
WEB-BASED MERL

**Contract Information**

**Project Information**

**Estimate Information**

**Project Engineer**

Nick Koszykowski

**Date Created**
02/26/2018

**Spec Year**
2012

**Date Last Edited**
02/26/2018

**Total Price**
$16,867.20

**Estimate**

<table>
<thead>
<tr>
<th>Cnt #</th>
<th>Pay Item Code</th>
<th>Description</th>
<th>Supplemental Description</th>
<th>Quantity</th>
<th>Units</th>
<th>Unit Price</th>
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<tbody>
<tr>
<td>1</td>
<td>8120231</td>
<td>Pav. Mrk., Type NR, Tape, 4 Inc.</td>
<td></td>
<td>800</td>
<td>Ft</td>
<td>$0.40</td>
</tr>
<tr>
<td>1</td>
<td>8507003</td>
<td>-</td>
<td>Maintaining Traffic</td>
<td>0.93</td>
<td>Ml</td>
<td>$110.00</td>
</tr>
<tr>
<td>1</td>
<td>8507031</td>
<td>-</td>
<td>Machine Patching</td>
<td>150</td>
<td>Ton</td>
<td>$80.00</td>
</tr>
<tr>
<td>1</td>
<td>8507031</td>
<td>-</td>
<td>Spot Patching</td>
<td>10</td>
<td>Ton</td>
<td>$80.00</td>
</tr>
<tr>
<td>2</td>
<td>8120231</td>
<td>Pav. Mrk., Type NR, Tape, 4 Inc.</td>
<td></td>
<td>840</td>
<td>Ft</td>
<td>$0.40</td>
</tr>
<tr>
<td>2</td>
<td>8507003</td>
<td>-</td>
<td>Maintaining Traffic</td>
<td>0.99</td>
<td>Ml</td>
<td>$110.00</td>
</tr>
<tr>
<td>2</td>
<td>8507031</td>
<td>-</td>
<td>Spot Patching</td>
<td>40</td>
<td>Ton</td>
<td>$80.00</td>
</tr>
</tbody>
</table>

Total Items: 7
QUESTIONS?

Contact Info:

- merl@mtu.edu
- 906-487-2102
- merl.trans.mtu.edu