

NICK KOSZYKOWSKI, SR. SOFTWARE ARCHITECT

CENTER FOR TECHNOLOGY AND TRAINING



Michigan Technological University

Civil and Environmental

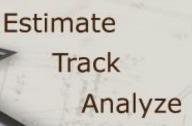
Engineering

- STARTED IN 1997
- INITIALLY, JUST ELECTRONIC SPEC BOOK
- PROJECT ESTIMATOR INTRODUCED
  - Help prevent errors for submission to LAP
  - MDOT-LET JOBS

- MORE LOCAL FOCUS
  - PROJECT ESTIMATOR
  - BID UTILITY
  - LOCAL JOB MANAGER

- PROJECT ESTIMATOR
  - MDOT'S PAY ITEM LIST AND AVERAGE UNIT PRICES
  - User-defined Pay Item codes
- BID UTILITY
  - COLLECT AND ANALYZE BIDS
- LOCAL JOB MANAGER
  - Manage the project in the field, tracking item usage and payments

- YEARLY CONTRACT WITH MDOT
  - CURRENT CONTRACT: ~\$150,000
    - DEVELOPMENT, SUPPORT, AND TRAINING
- Free to MI Local Agencies/Consultants
- ~1400 USERS



## LOCAL JOB MANAGER

- Daily Inspections/Postings
- PAY ESTIMATES
- CONTRACT MODIFICATIONS

Postings Pay Estimates Contract Mods Item Summary						
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×	Posting Date:	Field Book Number/Page:	
	10/13/2009 ∨		
	Notes:		
		ed in front of Mr. Kozak's today. In addition to these items, future pay estimates need to include	
ds t	Extra Service Leng	gth, Long-1 each, and Upsize Water Service 1" to 1.5", Long-1 each.	
ket			
		·	1

X Remove Selected

	Pay Item	Description	Qty	Units	Price	Total
1	2040013	Sidewalk, Rem	23.300	Syd	\$2.60	\$60.58
2	4027002	Forcemain, DI, 16 inch, Tr Det G	34.500	Ft	\$32.30	\$1,114.35
3	8250245	Water and Fire Suppression Service, 6 inch, Long	1.000	Ea	\$5,400.00	\$5,400.00
4	8257030	Additional Water Main Fittings, Not Shown on Plans	265.000	Ш	\$5.90	\$1,563.50

## LOCAL JOB MANAGER

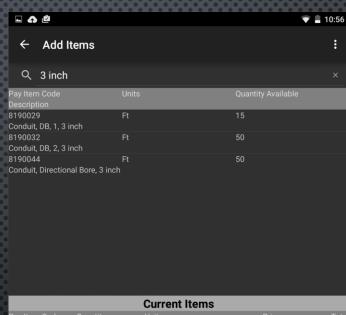
- ITEM SUMMARY
  - COMPLETELY PLACED, QTY REMAINING, UNPAID
- ITEM POSTING HISTORY

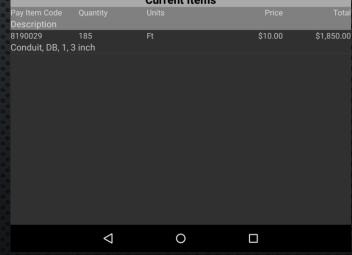
Postings	Pay Estimates Contract Mods Item Summary						
Filter:							
Pay Item:	Description:						
Filter Pay	Item X Q Filter Description	Comple	tely Placed	~			
Pay Item	Description	Units	Proj Qty	Placed	Paid		
2040005	Curb, Rem	Pt	105.00	105.00	0.00		
4027054	San Service Connection, PVC, 18 inch	Ea	1.00	1.00	0.00		
4027055	San Service Connection, PVC, 30 inch	Ea	1.00	1.00	0.00		
4027060	Sewer Flow Control, 24 inch	Ea	1.00	1.00	1.00		
8120102	Plastic Drum, High Intensity, Lighted, Furn	Ea	40.00	40.00	40.00		
8120103	Plastic Drum, High Intensity, Lighted, Oper	Ea	40.00	40.00	40.00		
8250057	Gate Valve and Box, 12 inch	Ea	2.00	2.00	0.00		
8257030	Additional Water Main Fittings, Not Shown on Plans	Ш	1,500.00	2,120.00	0.00		

ŧΞ	Item Posting History		Х
Pay Item:	Description:		Units:
8257030	Additional Water Main Fittings, Not Shown on Plans		Lb
Project Qty:	Unit Price:		
1500.00	\$5.90		
Posting Date	FB No/Page	Qty Placed	Total
10/02/2009		265.00	\$1,563.50
10/05/2009		265.00	\$1,563.50
10/06/2009		265.00	\$1,563.50
10/07/2009		265.00	\$1,563.50
10/08/2009		265.00	\$1,563.50
10/10/2009		265.00	\$1,563.50
10/13/2009		265.00	\$1,563.50
10/14/2009		265.00	\$1,563.50



- FREE FOR ANDROID AND IOS
- Daily Posting
  - Notes
  - ITEMS/QUANTITIES





- Web-Based Project Estimator
  - MDOT AND LOCAL JOBS
- WEB-BASED BID UTILITY
  - LOCAL JOBS
- Web-Based Local Job Manager
  - LOCAL JOBS

**COMING 2020** 

#### 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, EDGE, SAFARI
- MIGRATE FROM DESKTOP TO WEB USING BULK EXPORT/BULK IMPORT

- FIELD MANAGER PHASING OUT IN 2-3 YEARS
- AASHTOWARE PROJECT ONLY MDOT-LET JOBS
- LOCAL JOB OPTIONS:
  - APPIA (FROM INFOTECH VIA YEARLY LICENSE)
  - MERL

- Construction Management System for Local Agencies
  - Investigation of feasibility, scope, and scale of changes to replace Field Manager for local use.

- CURRENT FUNCTIONALITY
  - Postings
  - Pay Estimates
  - CONTRACT MODS
  - MOBILE APP

- To Be Added
  - Materials/Certs
  - SMALLER ENHANCEMENTS
    - MULTIPLE INSPECTORS
    - MULTIPLE POSTINGS/DAY
    - Contract Mod to Change Qty
    - DOC ATTACHMENTS

- To Be Added
  - MATERIALS/CERTS
  - SMALLER ENHANCEMENTS
    - Multiple Inspectors
    - MULTIPLE POSTINGS/DAY
    - CONTRACT MOD TO CHANGE QTY
    - DOC ATTACHMENTS

- ESTIMATED COMPLETION
  - ENHANCEMENTS RELEASED
     AS THEY ARE DONE
  - MATERIALS/CERTS: UNKNOWN--DEPENDING ON ADDITIONAL REQUIREMENTS
  - ~6 MONTHS FOR UPDATED
     MOBILE APP

# **QUESTIONS?**

### CONTACT INFO:

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