

**STATE OF WISCONSIN**  
**CORRESPONDENCE/MEMORANDUM**

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*Design Note: This is an example of how the Estimate Documentation Report should look like and what type of information should be included. The Estimate Documentation Report should give the reader the background information on the thought process that went into developing the estimate. This is not a form or template. Consultants may submit the report on their company letterhead.*

**Date:** 01/25/2013

**Subject:** Estimate Documentation Report for  
5845-05-71  
USH 51, Janesville – Stoughton  
CTH W to Spring Rd  
Dane County

**Associated Design Project ID:** 5845-05-01  
**WisDOT Project Manager:** Project Manager X  
**Estimate and documentation was prepared by:** Designer Y  
**PS&E Due Date:** 3/1/2013  
**Bid Letting date:** 6/11/2013

**Executive Summary**

*Design Note: The Executive Summary should include a brief description of the facility, the work to be performed and the conditions in which it will be constructed under. The discussion should also include what project specific factors were considered when selecting the estimated bid prices.*

The project is classified as a standard resurfacing project located in south central Wisconsin. The facility is a rural 2-lane classified as a Minor Arterial with existing average daily traffic of 6300 vehicles/day. The project is 4.8 miles long and has an estimated duration of 20 working days. The work consists of milling the existing HMA pavement 1.5 inches and replacing with 2 inches of HMA pavement. Other work activities include sign and pavement marking replacement, guardrail installations at two culvert locations and the installation of a ramp gate at the IH39/90 Interchange. The project will be open to traffic and all work will be performed under flagging operations.

Project is straight-forward. No adjustments were made to the unit prices as a result of traffic, special situations or unique features. In this area of the state we assumed that there would be good competition for this project. This was verified with the three past projects listed below. For each of these projects there were at least 2 eligible bidders identified and 2 of 3 projects had multiple bids submitted at the letting.

Past Projects utilized for comparison include:

- 1690-00-60 (20110809003), STH 69, IL State to Monroe, Green County - Pavement Replacement
- 5670-00-63 (20110809007), STH 59, Monroe to Evansville, Rock County - Roadway Maintenance Preservation
- 5926-00-61(20120508009),STH92, Mount Horeb to Mount Vernon, Dane County- Roadway Maintenance Preservation

All three projects were rural 2-lane facilities with the majority of the working being asphaltic pavement that were constructed under traffic with flagging operations and had roughly the same quantities.

**Estimator Parameters**

**Work Type:** Asphalt Paving  
**Highway Type:** Undivided, Minor Arterial  
**Urban/Rural Type:** Rural  
**Season:** Summer  
**County:** Dane

Estimator parameters were straight-forward. Project definitely falls within the Asphalt Paving work type; proposal estimate contains only one project id so blending unit prices across multiple project ids was not a factor and the projects limits are contained within one county. Therefore, there was no need to run different scenarios to see impact on Estimator prices.

**Unit Price Documentation of Significant Items**

*Design Note: Significant Items are the bid items that contain the majority of the contract dollars. A good starting point for analysis is the 80/20 rule which states 20% of the bid items typically make up 80% of the contract dollars. On average 10 to 15 bid items make up 80% of the contract dollars. Some projects contain only smaller dollar value bid items and the 80% rule would include most of the items. In these cases use the 20 % rule instead and list the top 20% items.*

The six significant items for the project are listed in the table below along with the cost of each item and their percentage of total contract value. These items make up roughly 81 % of the total project cost and as expected, with this type of work, are predominately made up of asphaltic items. See the attached spreadsheet under the Remarks column for the Item Level Documentation discussion of the significant items.

**Table of Significant Items**

					Cost of Item	% of Contract
460.1101	HMA PAVEMENT TYPE E-1	11,471	TON	48.50	\$556,343.50	45.53%
465.0105	ASPHALTIC SURFACE	1,159	TON	125.00	\$144,875.00	11.86%
204.0120	REMOVING ASPHALTIC SURFACE MILLING	91,650	SY	1.20	\$109,980.00	9.00%

455.0105	ASPHALTIC MATERIAL PG58-28	631	TON	100.00	\$63,100.00	5.16%
305.0110	BASE AGGREGATE DENSE 3/4-INCH	6,700	TON	12.60	\$84,420.00	6.91%
465.0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	325	TON	95.00	\$30,875.00	2.53%
Sum of significant items =					\$989,593.50	
Total project cost =					\$1,222,026.95	

*Design Note: The Estimate Review Summary should focus on the comments that had a direct impact on the unit prices being submitted with the estimate. You don't necessarily need all the back and forth iterations of a particular price but more of the final decision and why a price was selected.*

### Estimate Review Summary

Project was reviewed by *Construction Project Leader* on 01/15/2013. Review Comments (black) and design team responses (blue) are listed below:

- Do not use Estimator unit prices for item 460.1101 HMA Pavement Type E-1 & item 455.0105 Asphaltic Material PG58-28. Also need to consider items as a combined price. Based on the past project review feel that the combined priced would come in closer to \$54/ton. Agreed with review comments. Set price item 455.0105 Asphaltic Material @ \$ 100/ton and back calculated item 460.1101 HMA Pavement Type E-1 to be \$48.50/ton. *Designer 1/21/2013*
- Consider using closer to the Estimator price of around \$110/ton for item 465.0105 Asphaltic Surface. *Disagreed with comment because the work is small quantity with low production rates, spread out in different locations along the project. Kept unit price @ \$125/ton for item. Designer 1/21/2013*

Project was reviewed by Region QA Design Engineer on 01/25/2013. Review Comments (black) and design team responses (blue) are listed below:

- Based on recent past projects Mobilization unit price seems high. 2 of the 3 past projects were in the area came in between \$3000-\$5000. May want to consider modifying price down. Agreed with review comment. Adjusted Mobilization to \$5,000. *Designer 1/28/2013*

*Design Note: The Item Level Documentation for the significant items is attached to the end of the Estimate Document Report. A discussion of what the Item Level Documentation should include is located in FDM 19-5-5.5.2. Two examples of acceptable Item Level Documentation are attached as Exhibit 1 – “Item Level Documentation – Spreadsheet Example” and Exhibit 2 “Item Level Documentation – Estimator Example”. Alternatives to these examples are acceptable as long as they are able to convey the same information.*

*Design Note: The project team should refrain from adding extraneous information already included as a PS&E exhibit such as plan sheets (typical section, construction detail or plan & profile sheets) and Transport Proposal Level Preliminary Detail Estimate printout or Bid Express printouts for each item. Instead, these documents should be stored in the project file.*

# Exhibit 1 "Item Level Documentation - Spreadsheet Example"

**ENGINEER'S ESTIMATE / Q2P WORKBOOK**  
**PROJECT MANAGER: PROJECT MANAGER X**  
 Estimate Prepared by: *Designer Y*

**TITLE: 5845-05-71**

LIMITS: CTH W TO SPRING RD  
 HIGHWAY: JANESVILLE - STOUGHTON  
 COUNTY: USH 51  
 PROGRAM CODE: DANE  
 CONCEPT CODE: 303 STATE HIGHWAY REHABILITATION

PSE Date: 3/1/2013  
 NET C/L MILE: 6/11/2103

CONSTRUCTION COST ESTIMATE  
 4/17/2012 \$1,222,026.95

NET C/L MILES: 4.780

## Item Level Documentation

TOTAL BID ITEMS	SCHEDULE OF BID ITEMS WISDOT STANDARD SPECIFICATIONS 2012 EDITION					ESTIMATOR	Bid X	Past Projects			Remarks	
	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	COST			1690-00-60 (20110809003)	5670-00-63 (20110809007)	5926-00-61 (20120508009)		Proposal Numbers
58						2/1/2013						
460.1101	HMA PAVEMENT TYPE E-1	11,471	TON	48.50	556,343.50	45.53%	Don't Use Estimator Price	82.25	20.73-47.87	58.75-29.00	48.65	Significant Item - Originally used Estimator value as individual price. Discussed with Construction Project Leader. Suggested that we considered Asphalt Items as combined prices. Dane county typically sees competition. Past projects listed had combined price of \$52.1-\$55/ton used \$54.0 /ton. Set Asphaltic Material @ \$100/ton and back calculated E-1 Mix Price = \$48.50/ton
465.0105	ASPHALTIC SURFACE	1,159	TON	125.00	144,875.00	11.86%	109.27				90/1400 ton	Significant Item - work required is small quantity spread out @ different locations along project. Low production rates therefore used a higher price than what Estimator & Similar projects used.
204.0120	REMOVING ASPHALTIC SURFACE MILLING	91,650	SY	1.20	109,980.00	9.00%	1.17102	15.7	2.21-1.65/ QTY 25600		0.7/ QTY 88000	Significant Item - Used Estimator Price and rounded to the nearest \$0.10. Past Project ranges varies on both sides of selected price. Quantity has impact on price. Stayed on the higher side.
455.0105	ASPHALTIC MATERIAL PG58-28	631	TON	100.00	63,100.00	5.16%	Don't Use Estimator Price	101.5	555.70-100	100.00-556.14	100	Significant Item - Originally used Estimator price. Discussed with Construction Project Leader. Suggested that we considered Asphalt Items as combined prices. Dane county typically sees competition. Past projects listed had combined price of \$52.1-\$55/ton used \$54.0/ton. Set Material Price @ \$100/ton and back calculated E-1 Mix Price = \$48.50/ton
305.0110	BASE AGGREGATE DENSE 3/4-INCH	6,700	TON	12.60	84,420.00	6.91%	12.55113	15	12.80-7.52/ QTY 14175	11.00-15.64/ QTY 2657	12/ QTY 3870	Significant Item - Estimator Price seemed reasonable when verified against past projects. Rounded Estimator to the nearest \$ 0.10.
465.0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	325	TON	95.00	30,875.00	2.53%	95.20059	92.76	106.15-116/qty 15	95.85-100/qty 63	130/qty 235	Significant Item - Compared Estimator & Bidx prices and verified with past projects. Bidx parameters qty range 100 to 500, Counties Dane, Green, Rock Selected \$95
211.0400	PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS	504	STA	40.00	20,160.00	1.65%	25	39.91				Used Bid Express value. Set Qty Range 250 to 1000 & Price \$1.50 to \$249. Ave price = \$39.91 used \$40.00
614.2610	MGS GUARDRAIL TERMINAL EAT	8	EACH	2,400.00	19,200.00	1.57%	2390.64789	2425				
440.4410.S	QMP RIDE; INCENTIVE IRI RIDE	19,120	DOL	1.00	19,120.00	1.56%	N/A			1		
646.0106	PAVEMENT MARKING EPOXY 4-INCH	49,467	LF	0.45	22,260.15	1.82%	0.28553	0.6		0.29		
SPV.0090.01	PERIMETER CONTROL LOGS	2,165	LF	7.00	15,155.00	1.24%	No Estimator Price	6.52				Found past project on Bidx rounded up to \$7.00
646.0406	PAVEMENT MARKING SAME DAY EPOXY 4-INCH	23,631	LF	0.65	15,360.15	1.26%	0.46437	0.47				
SPV.0060.01	RAMP CLOSURE GATES HARDWIRED 37-FT	1	EACH	10,500.00	10,500.00	0.86%		7900-15399				bidx searched by the title "Ramp Closure Gates Hardwired 37-FT" Price ranged between \$7900 - \$15,399 but were more generally between \$10,000 - \$12,000 range selected \$10,500
614.2300	MGS GUARDRAIL 3	600	LF	16.00	9,600.00	0.79%	15.56098	15.33				
614.0010	BARRIER SYSTEM GRADING SHAPING FINISHING	4	EACH	2,000.00	8,000.00	0.65%	1900.60318	550-2100				
460.2000	INCENTIVE DENSITY HMA PAVEMENT	7,350	DOL	1.00	7,350.00	0.60%	N/A					
SPV.0060.02	CAST IRON MONUMENT COVERS	11	EACH	550.00	6,050.00	0.50%	No Estimator Price	548 & 600 /qty1				bidx searched by the title "Monument Covers" 2 bids (\$548 & \$600) from 1 project w/ qty of 1. Not real good history. Just used \$550.
637.0202	SIGNS REFLECTIVE TYPE II	544	SF	13.00	7,072.00	0.58%	12.66625	16				
643.0100	TRAFFIC CONTROL (PROJECT)	1	EACH	4,000.00	4,000.00	0.33%	Don't Use Estimator Price	2000-8000	1640 & 8000	2000	2000 & 3000	Used Past Project with similar traffic control requirements and operations. Selected \$4000 to be a little on the higher side. Minor item so it will not have a big impact on overall estimate.
649.0100	TEMPORARY PAVEMENT MARKING 4-INCH	23,631	LF	0.35	8,270.85	0.68%	0.24336	0.3				
204.0110	REMOVING ASPHALTIC SURFACE	1,335	SY	4.30	5,740.50	0.47%	4.3	4.3	1			
642.5001	FIELD OFFICE TYPE B (PROJECT)	1	EACH	5,225.00	5,225.00	0.43%	4094.16066	2000		3000-5300	5000	
455.0605	TACK COAT	2,558	GAL	2.00	5,116.00	0.42%	1.83506	2				
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	965	LF	4.75	4,583.75	0.38%	4.69795	4				
619.1000	MOBILIZATION	1	EACH	5,000.00	5,000.00	0.41%	Don't Use Estimator Price		31326.81-70000	3000-5294.34	5000	Originally used \$ 25,000 based on the mobilization chart on the Estimating website for an asphalt project approximately 1.95% of total contract cost. Construction Project Leader 2 had been seeing contractors being more aggressive with the item in the Dane County area for similar type work on similar type facilities as shown on past projects. Decided to lower price to \$5,000.
SPV.0060.03	VERIFY LANDMARK REFERENCE MONUMENTS	11	EACH	200.00	2,200.00	0.18%	No Estimator Price	125-500				bidx searched by the title "Landmark" far amount of bid history but because some are listed as SPV come up separately. Limited my search to Dane, Green & Rock. Bids range from (\$72.50 - \$1900) from 9 project varying qty. We have a fairly large qty for the item so we should get good price for the item so I used \$200.
460.4110.S	REHEATING HMA PAVEMENT LONGITUDINAL JOINTS	32,000	LF	0.15	4,800.00	0.39%	7.93	9				
634.0616	POSTS WOOD 4X6-INCH X 16-FT	60	EACH	52.00	3,120.00	0.26%	49.58691	52				

# Exhibit 1 "Item Level Documentation - Spreadsheet Example"

653.0135	PULL BOXES STEEL 24X36-INCH	4	EACH	600.00	2,400.00	0.20%	578.50286	575			
504.0900	CONCRETE MASONRY ENDWALLS	3	CY	700.00	2,100.00	0.17%	700	700			
213.0100	FINISHING ROADWAY (PROJECT)	1	EACH	1,500.00	1,500.00	0.12%	2000.75561	1000	462-1500	250-486.45	500
650.8000	CONSTRUCTION STAKING RESURFACING REFERENCE	25,315	LF	0.06	1,518.90	0.12%	0.06		0.06		
648.0100	LOCATING NO-PASSING ZONES	5	MI	300.00	1,434.00	0.12%	258.01311	295			
650.8500	CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (PROJECT)	1	LS	1,000.00	1,000.00	0.08%	Don't Use				
643.1000	TRAFFIC CONTROL SIGNS FIXED MESSAGE	64	SF	18.75	1,200.00	0.10%	Estimator Price	820-1700			
690.0150	SAWING ASPHALT	687	LF	1.75	1,202.25	0.10%	18.77212	16			
638.2602	REMOVING SIGNS TYPE II	64	EACH	16.50	1,056.00	0.09%	1.6363	1.1			
618.0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT)	1	EACH	1,100.00	1,100.00	0.09%	15.97334	19			
643.0900	TRAFFIC CONTROL SIGNS	1,398	DAYS	0.80	1,118.40	0.09%	1				
628.2004	EROSION MAT CLASS I TYPE B	1,075	SY	1.00	1,075.00	0.09%	0.69266	0.6			
638.3000	REMOVING SMALL SIGN SUPPORTS	63	EACH	16.00	1,008.00	0.08%	0.9	0.9			
625.0500	SALVAGED TOPSOIL	550	SY	1.45	797.50	0.07%	15.20999	19			
204.0100	REMOVING PAVEMENT	80	SY	9.00	720.00	0.06%	1.3	1.3			
654.0105	CONCRETE BASES TYPE 5	1	EACH	550.00	550.00	0.05%	8.63195	20			
614.2330	MGS GUARDRAIL 3 K	25	LF	23.00	575.00	0.05%	575.00942	570			
627.0200	MULCHING	1,700	SY	0.45	765.00	0.06%	22.5	22.5			
647.0566	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	94	LF	5.50	517.00	0.04%	0.3	0.3			
204.0180	REMOVING DELINEATORS AND MARKERS	28	EACH	16.50	462.00	0.04%	5.18497	700			
628.1905	MOBILIZATIONS EROSION CONTROL	2	EACH	215.00	430.00	0.04%	16.88873				
628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	2	EACH	200.00	400.00	0.03%	211.76589	200			
629.0210	FERTILIZER TYPE B	1	CWT	290.00	348.00	0.03%	175.10913	100			
657.0255	TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE	1	EACH	325.00	325.00	0.03%	289	60			
650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT)	1	LS	350.00	350.00	0.03%	Don't Use				
643.0300	TRAFFIC CONTROL DRUMS	250	DAYS	0.75	187.50	0.02%	Estimator Price	100-1500			
630.0200	SEEDING TEMPORARY	48	LB	3.50	168.00	0.01%	0.63278	0.8			
630.0110	SEEDING MIXTURE NO. 10	24	LB	4.50	108.00	0.01%	3.25385	1.75			
690.0250	SAWING CONCRETE	30	LF	2.75	82.50	0.01%	7.36947	4.25			
634.0614	POSTS WOOD 4X6-INCH X 14-FT	1	EACH	52.00	52.00	0.00%	3.0158	1.74			

Bidx searched by the title "staking electrical" far amount of bid history but listed separately as SPV (Project ID). Limited my search to Dane County. Bids range from (\$2000 - \$3800) from 19 projects for an average of \$904. Selected \$1000.

Bidx searched by the title "staking supplemental" fair amount of bid history but listed separately as SPV (Project ID). Limited my search to Dane County from 06/01/2012 to 03/01/2013. Bids range from (\$100 - \$1500) from 9 projects for an average of \$363. Selected \$350.

<b>CONSTRUCTION TOTAL:</b>	<b>1,222,026.95</b>
<b>DELIVERY COST:</b>	<b>122,202.70</b>
<b>TOTAL:</b>	<b>1,344,229.65</b>

CATEGORIES	FEDERAL WORK TYPES AND (CATEGORY DESCRIPTION)	FUNDING (REFER TO FIIF)	FUNDING (REFER TO FIIPS)
0010	05 - 4R MAINTENANCE, RESURFACING...(ROADWAY CONSTRUCTION)	80% FEDERAL	20% STATE 80% FEDERAL 20% STATE

## Exhibit 2 "Item Level Documentation - Estimator Example"

### Estimate 5845-05-71

Estimated Cost:\$1,222,026.95

Contingency: 0.00%

**Estimated Total: \$1,222,026.95**

***Base Date: 03/02/15***

Spec Year: 03

Unit System: E

Work Type: Asphalt Paving

Highway Type: Undivided, Minor Arterial

Urban/Rural Type: Rural

Season: Summer

County: Dane

Latitude of Midpoint: 0

Longitude of Midpoint: 0

District:

Federal/State Project Number:

*Prepared by user*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Group 0010: Initial Group

0010	204.0100	80.000	SY	\$9.00000	\$720.00
Removing Pavement					

Regression price 204.0100	Active: N	Unit Price: \$10.76298
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0020	204.0110	1,335.000	SY	\$4.30000	\$5,740.50
Removing Asphaltic Surface					

Work required is small quantity spread out @ different locations along project. Low production rates therefore used a higher price than what Estimator & Similar projects used.

Regression price 204.0110	Active: N	Unit Price: \$3.71367
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0030	204.0120	91,650.000	SY	\$1.20000	\$109,980.00
Removing Asphaltic Surface Milling					

**Significant Item** - Used Estimator Price and rounded to the nearest \$0.10. Past Project ranges varies on both sides of the selected price. Quantity has impact on Price. Stayed on the higher side.

Regression price 204.0120	Active: N	Unit Price: \$1.37303
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0040	204.0180	28.000	EACH	\$16.50000	\$462.00
Removing Delineators and Markers					

Regression price 204.0180	Active: N	Unit Price: \$16.74851
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0045	211.0400	504.000	STA	\$40.00000	\$20,160.00
Prepare Foundation for Asphaltic Shoulders					

Used Bid Express value. Set qty range 250 to 1000 & Price \$1.50 to \$249. Ave price = \$39.91 used \$40

Regression price 211.0400	Active: N	Unit Price: \$18.27309
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0050	213.0100	1.000	EACH	\$150.00000	\$150.00
Finishing Roadway (project)					

0052	634.0614	1.000	EACH	\$52.00000	\$52.00
Posts Wood 4x6-Inch X 14-FT					

Regression price 634.0614	Active: N	Unit Price: \$61.71494
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0060	305.0110	6,700.000	TON	\$12.60000	\$84,420.00
Base Aggregate Dense 3/4-Inch					

**Significant Item** - Estimator Price seemed reasonable when verified against past projects. Rounded Estimator to the nearest \$0.10.

Regression price 305.0110	Active: N	Unit Price: \$15.42042
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0070	440.4410.S	19,120.000	DOL	\$1.00000	\$19,120.00
Incentive IRI Ride					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
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Description  
Supplemental Description

Regression price 440.4410.S	Active: Y	Unit Price: \$1.00000
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0075	460.1101	11,471.000	TON	\$48.50000	\$556,343.50
HMA Pavement Type E-1					

**Significant Item** - Originally used Estimator value as individual price. Discussed with Construction Project Leader. Suggested that we consider Asphalt Items as combined price. Dane County typically has good competition for this type of work. Past projects listed had combined price of \$52.1-\$55/ton used \$54.0/ton. Set Asphaltic Material @ \$100/ton and back calculated E-1 Mix Price = \$48.50

Regression price 460.1101	Active: N	Unit Price: \$50.67280
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0080	455.0105	631.000	TON	\$100.00000	\$63,100.00
Asphaltic Material PG58-28					

**Significant Item** - SEE Notes for Item 455.0105 - HMA Pavement Type E-1

Regression price 455.0105	Active: N	Unit Price: \$118.93000
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0090	455.0605	2,558.000	GAL	\$2.00000	\$5,116.00
Tack Coat					

Regression price 455.0605	Active: N	Unit Price: \$3.10709
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0110	460.2000	7,350.000	DOL	\$1.00000	\$7,350.00
Incentive Density HMA Pavement					

Average price 460.2000	Active: Y	Unit Price: \$1.00000
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0120	460.4110.S	32,000.000	LF	\$0.15000	\$4,800.00
Reheating HMA Pavement Longitudinal Joints					

Regression price 460.4110.S	Active: N	Unit Price: \$0.19907
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0130	465.0105	1,159.000	TON	\$125.00000	\$144,875.00
Asphaltic Surface					

**Significant Item** - Work required is small quantity spread out @ different locations along project. Low production rates therefore used a higher price than what Estimator & Similar projects used.

Regression price 465.0105	Active: N	Unit Price: \$75.70166
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0140	465.0120	325.000	TON	\$95.00000	\$30,875.00
Asphaltic Surface Driveways and Field Entrances					

**Significant Item** - Compared Estimator & Bix prices and verified with past projects. Bidx parameters qty range 100 to 500, Counties Dane, Green, Rock selected \$95



<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
Mulching					
Regression price 627.0200		Active: N		Unit Price: \$0.32375	
0230	628.1905	2.000	EACH	\$215.00000	\$430.00
Mobilizations Erosion Control					
Regression price 628.1905		Active: N		Unit Price: \$263.30863	
0240	628.1910	2.000	EACH	\$200.00000	\$400.00
Mobilizations Emergency Erosion Control					
Regression price 628.1910		Active: N		Unit Price: \$126.32287	
0250	628.2004	1,075.000	SY	\$1.00000	\$1,075.00
Erosion Mat Class I Type B					
Regression price 628.2004		Active: N		Unit Price: \$1.23092	
0260	629.0210	1.000	CWT	\$290.00000	\$290.00
Fertilizer Type B					
Regression price 629.0210		Active: N		Unit Price: \$101.67795	
0270	630.0110	24.000	LB	\$4.50000	\$108.00
Seeding Mixture No. 10					
Regression price 630.0110		Active: N		Unit Price: \$12.16356	
0280	630.0200	48.000	LB	\$3.50000	\$168.00
Seeding Temporary					
Regression price 630.0200		Active: N		Unit Price: \$3.98130	
0310	634.0616	60.000	EACH	\$52.00000	\$3,120.00
Posts Wood 4x6-Inch X 16-FT					
Regression price 634.0616		Active: N		Unit Price: \$54.54611	
0320	SPV.0165	544.000	SF	\$13.00000	\$7,072.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
Special					
0330	638.2602 Removing Signs Type II	64.000	EACH	\$16.50000	\$1,056.00
Regression price 638.2602			Active: N		Unit Price: \$20.45736
0340	638.3000 Removing Small Sign Supports	63.000	EACH	\$16.00000	\$1,008.00
Regression price 638.3000			Active: N		Unit Price: \$18.76206
0350	642.5001 Field Office Type B	1.000	EACH	\$5,225.00000	\$5,225.00
Regression price 642.5001			Active: N		Unit Price: \$5,745.33859
0360	643.0100 Traffic Control (project)	1.000	EACH	\$4,000.00000	\$4,000.00
Used past project with similar traffic control requirements and operations. Selected \$4000 to be a little on the high side. Minor item so it will not have a big impact on the overall estimate.					
0370	643.0300 Traffic Control Drums	250.000	DAY	\$0.75000	\$187.50
Regression price 643.0300			Active: N		Unit Price: \$0.85986
0380	643.0900 Traffic Control Signs	1,398.000	DAY	\$0.80000	\$1,118.40
Regression price 643.0900			Active: N		Unit Price: \$1.15097
0390	643.1000 Traffic Control Signs Fixed Message	64.000	SF	\$18.75000	\$1,200.00
Regression price 643.1000			Active: N		Unit Price: \$21.52395
0400	646.0106 Pavement Marking Epoxy 4-Inch	49,467.000	LF	\$0.45000	\$22,260.15
Regression price 646.0106			Active: N		Unit Price: \$0.36894
0410	646.0406	23,631.000	LF	\$0.65000	\$15,360.15

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b> <b><u>Supplemental Description</u></b>				
	Pavement Marking Same Day Epoxy 4-Inch				
	Regression price 646.0406		Active: N	Unit Price: \$0.66716	
0420	647.0566 Pavement Marking Stop Line Epoxy 18-Inch	94.000	LF	\$5.50000	\$517.00
	Regression price 647.0566		Active: N	Unit Price: \$7.77724	
0430	648.0100 Locating No-Passing Zones	5.000	MI	\$300.00000	\$1,500.00
	Regression price 648.0100		Active: N	Unit Price: \$234.66951	
0440	649.0100 Temporary Pavement Marking 4-Inch	23,631.000	LF	\$0.35000	\$8,270.85
	Regression price 649.0100		Active: N	Unit Price: \$0.31848	
0450	650.8000 Construction Staking Resurfacing Reference	25,315.000	LF	\$0.06000	\$1,518.90
	Regression price 650.8000		Active: N	Unit Price: \$0.04886	
0460	650.8500 Construction Staking Electrical Installations (project)	1.000	LS	\$1,000.00000	\$1,000.00
	Bidx searched by title "staking electrical" fair amount of bid history but listed separately as SPV (Project ID). Limited search to Dane County. Bids range from (\$2000 - \$3800) from 19 projects for an average of \$904. Selected \$1000.				
0470	650.9910 Construction Staking Supplemental Control (project)	1.000	LS	\$350.00000	\$350.00
	Bidx searched by title "staking supplementat". Fair amount of bid history but listed separately as SPV (Project ID). Limited search to Dane County from 06/01/2012 to 03/01/2013. Bids range from \$100 to \$1500 from 9 projects fro an average of \$363. Selected \$350.				
0480	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	965.000	LF	\$4.75000	\$4,583.75
	Regression price 652.0225		Active: N	Unit Price: \$4.42657	
0490	653.0135 Pull Boxes Steel 24x36-Inch	4.000	EACH	\$600.00000	\$2,400.00
	Regression price 653.0135		Active: N	Unit Price: \$656.46461	

