

Estimate Documentation Report

See [FDM 19-5-6](#) for full details.

[Guidance on filling out this form.](#)

Date:	3/4/2021	Est. Doc. Prepared for:	Draft PS&E Plans
Project:	1040-00-70 STH 57 Saukville - Waldo IH 43 To CTH W Ozaukee	Est. Doc. Prepared By:	Bhuvan Manandhar
PS&E Date:	5/1/2021	Preparer's Email:	Bhuvan.Manandhar@dot.wi.gov
LET Date:	9/14/2021	Report finished on:	3/5/2021
		Independent Reviewer:	Click here to enter name.
		Tied Project(s):	Click here to enter tied project id's.

EXECUTIVE SUMMARY

Description of Proposed Work

Saukville – Waldo is a roadway preservation project on STH 57 from IH 43 to CTH W with length of less than 2 miles in Ozaukee county. The scope of the project includes diamond grinding the existing concrete pavement and concrete pavement repair SHES and concrete pavement replacement SHES (where needed) on STH 57 with its shoulder improvements. The scope also includes the relocating or modifying the existing beam guard/s on STH 57 and improvement of cross-over within the project limits.

Improvement Type -See [FDM 3-5-1.1](#) for definitions.

[Click here to enter text.](#)

ESTIMATING TOOL PARAMETERS

Estimator Parameters

Source Catalog	Click here to enter source catalog.
Work type	General Construction
Highway Type	FP - Freeway, Principal Arterial
Urban/Rural type	Rural
Season	Spring
County	Ozaukee
Region	SE

Bid Express and Other Tool Parameters

Tool(s) Used: Bid Express
County(s): [Click here to enter typical counties used.](#)
Date Range: 2018-2021

Other Parameters: <https://wisconsin.gov/Documents/doing-bus/eng-consultants/cnslt-rsrcs/tools/estimating/mobilization-summary.pdf>

SIMILAR PROJECTS OR PROPOSALS

List similar project/proposal IDs and how they were referenced

[Click here to enter brief description.](#)

PROJECT CHARACTERISTICS

Comments: Provide comments for how other considerations impacted estimate prices.

See [FDM 19-5-5](#) for more details.

Schedule and Road User Costs

Let Date	9/14/2021	<input type="checkbox"/> Lane rental
Anticipated Start Date	5/2/2022	<input type="checkbox"/> Enhanced liquidated damages
Completion Date or Working or Calendar Days	6/30/2022	<input type="checkbox"/> Interim liquidated damages
<input type="checkbox"/> Interim completion	61	<input type="checkbox"/> Accelerated schedule
Requirements		<input type="checkbox"/> Extraordinary forces expected
<input type="checkbox"/> Multiple Construction		<input type="checkbox"/> Other (Please explain)
Seasons		

Traffic Control

Traffic Control Characteristics: (check all that apply)

<input checked="" type="checkbox"/> Mainline Closure	<input type="checkbox"/> Complex/Unusual staging	<input type="checkbox"/> Maintain bike/pedestrian access
<input type="checkbox"/> Shoulder or No Closure	<input checked="" type="checkbox"/> Detour required	<input type="checkbox"/> Temp concrete barrier used
<input type="checkbox"/> Continuous Lane Closure	<input checked="" type="checkbox"/> Night work expected	<input type="checkbox"/> Temp/Crossover roadways
<input checked="" type="checkbox"/> Daily/Nightly Lane Closure	<input type="checkbox"/> Peak hour restrictions	<input type="checkbox"/> Temp structures
<input type="checkbox"/> Moving Lane Closure	<input type="checkbox"/> Limited work zone access	<input type="checkbox"/> Temp traffic control signals
<input type="checkbox"/> Flagging Operation		<input type="checkbox"/> Other (Please Explain)

Number of stages: [Click here to enter number.](#)

Construction Conflicts

<input type="checkbox"/> Aboveground utilities (existing to remain)	<input type="checkbox"/> Hazardous materials
<input type="checkbox"/> Underground utilities (existing to remain)	<input type="checkbox"/> Railroad coordination
<input type="checkbox"/> Utility work concurrent with construction	<input type="checkbox"/> Archeological Monitor
<input type="checkbox"/> Environmentally sensitive areas	<input type="checkbox"/> Other (Please explain)

Competition of Contractors

Expected Competition Choose an item.

Other Considerations

- | | |
|--|--|
| <input type="checkbox"/> Multiple mobilizations | <input type="checkbox"/> Remote location |
| <input type="checkbox"/> Multiple, dispersed work locations | <input type="checkbox"/> Haul distance |
| <input type="checkbox"/> Urban or <input type="checkbox"/> Rural | <input type="checkbox"/> Current bid item trends |
| <input type="checkbox"/> Constrained work environment | <input type="checkbox"/> Material shortages |
| <input type="checkbox"/> Adjacent projects | <input type="checkbox"/> Other (Please explain) |
-

ITEM LEVEL DOCUMENTATION

Significant Items List – Top 20% of items out of total contract costs and lump sum items

[Click here to enter brief description.](#)

Sl. #	Item #	Description	Units	Quantity	Price	Amount
1.	416.1715	Concrete Pavement Repair SHES	SY	1950.00	\$160.00	\$312,000.00
2.	420.1000	Continuous Diamond Grinding Concrete Pavement	SY	47,556	\$6.00	\$285,336.00
3.	460.5224	HMA Pavement 4 LT 58-28 S	TON	2,990.00	\$75.00	\$224,250.00
4.	416.1725	Concrete Pavement Replacement SHES	SY	1,200.00	\$150.00	\$180,000.00
5.	619.1000	Mobilization	EACH	1.00	\$150,000.00	\$150,000.00
6.	204.0120	Removing Asphaltic Surface Milling	SY	22,420.00	\$5.00	\$112,100.00
7.	416.0620	Drilled Dowel Bars	EACH	6,100.00	\$16.00	\$97,600.00
8.	646.1020	Marking Line Epoxy 4-Inch	LF	36,800.00	\$2.50	\$92,000.00
9.	690.0250	Sawing Concrete	LF	12,060.00	\$3.00	\$36,180.00
10.	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,140.00	\$30.0	34,200.00
11.	643.5000	Traffic Control	EACH	1.00	\$30,000.00	\$30,000.00
12.	614.0200	Steel Thrie Beam Structure Approach	LF	395.00	\$70.00	\$27,650.00
13.	416.0610	Drilled Tie Bars	EACH	2,256.000	\$12.00	\$27,072.00
14.	213.0100	Finishing Roadway (project)	EACH	1.00	\$20,000.00	\$20,000.00

ATTACHMENTS

Attachments are optional and may be referenced in the above documentation.

Unit Price Documentation printout with notes (Estimator, Q2P, Excel spreadsheets)

Other Attachment(s)

Mobilization:

From the link: <https://wisconsindot.gov/Documents/doing-bus/eng-consultants/cnslt-srces/tools/estimating/mobilization-summary.pdf>

The project cost lies in the range of \$1 million - \$2.0 million and we used the upper limit of expected range of 5.7%. This gives very close to \$100,000.00 and we used \$150,000.00 for mobilization unit rate.

Roadway Perpetuation (Resurfacing & Preservation/Restoration)	\$ 0.5M or less	\$ 0.5M to \$ 1M	\$ 1M to \$ 2M	\$ 2M to \$ 10M	\$ 10M to \$ 20M	
Sample Size:	19	46	86	152	14	
Expected Range (lower limit):	3.8%	2.7%	1.8%	2.7%	3.5%	
Typical Middle Value:	7.9%	5.6%	3.5%	4.3%	5.8%	
Expected Range (upper limit):	10.2%	7.7%	5.7%	6.4%	8.5%	

Item: 204.0120

Description: Removing Asphaltic Surface Milling

Unit Rate Preferred: \$5.00/SY

Bid Express Attachment

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Item:
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Description:
 Proposal Items:
 County:
 Unit:
 Low Bidders:

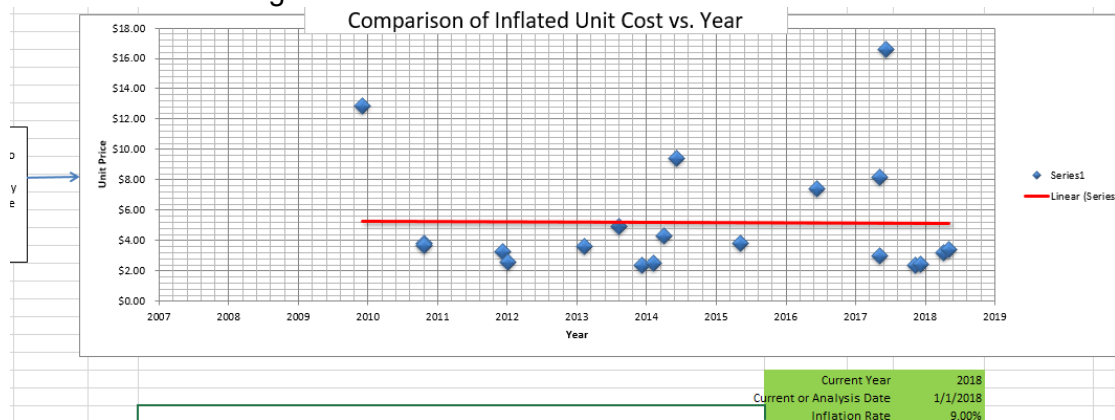
Date Range:
 From: To:
 Quantity Range:
 From: To:
 Price Range:
 From: To:

Item	Description	Average	High	Low	Unit	Bid Count
+ 204.0120	Removing Asphaltic Surface Milling	\$4.62	\$10.00	\$2.00	SY	304 Bids

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Backbone Estimating Tool Attachment



Item	SPV Extension	Item Description	Quantity	Unit	Unit Price	Extension	It
204.0120		REMOVING ASPHALTIC SURFACE MILLING	516	SY	\$6.40	\$3,302.40	
204.0120		REMOVING ASPHALTIC SURFACE MILLING	662,379.00	SY	\$2.05	\$1,357,876.95	
204.0120		REMOVING ASPHALTIC SURFACE MILLING	35,400.00	SY	\$1.99	\$70,446.00	
204.0120		REMOVING ASPHALTIC SURFACE MILLING	78,301.00	SY	\$1.94	\$151,903.94	
204.0120		REMOVING ASPHALTIC SURFACE MILLING	375,055.00	SY	\$1.54	\$577,584.70	
204.0120		REMOVING ASPHALTIC SURFACE MILLING	68,703.00	SY	\$2.35	\$161,452.05	
204.0120		REMOVING ASPHALTIC SURFACE MILLING ***	7,835.00	SY	\$3.37	\$26,403.95	
204.0120		REMOVING ASPHALTIC SURFACE MILLING	444,170.00	SY	\$1.65	\$732,880.50	
204.0120		REMOVING ASPHALTIC SURFACE MILLING	622,687.00	SY	\$1.78	\$1,108,382.86	
204.0120		REMOVING ASPHALTIC SURFACE MILLING	44,300.00	SY	\$3.14	\$139,102.00	

Item: 305.0110

Description: Removing Asphaltic Surface Milling

Unit Rate Preferred: \$30.00/TON

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Description:

Proposal Item:

County:

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Low Bidders:

Date Range:

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Quantity Range:

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Price Range:

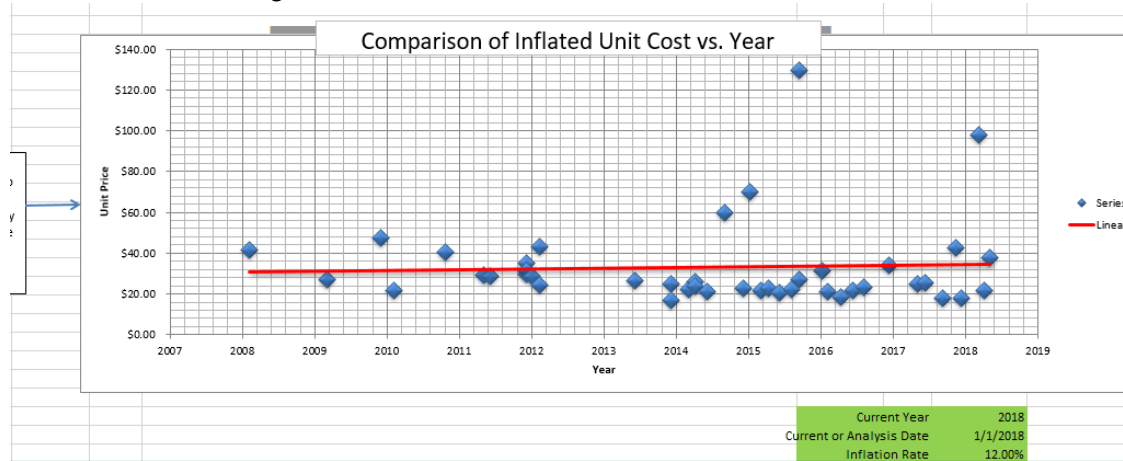
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Item ▲	Description	Average	High	Low	Unit	Bid Count
+ 305.0110	Base Aggregate Dense 3/4-Inch	\$29.60	\$200.00	\$10.00	TON	1579 Bids

Backbone Estimating Tool Attachment



Items

Item	SPV Extension	Item Description	Quantity	Unit	Unit Price	Extension
305.0110		BASE AGGREGATE DENSE 3/4-INCH	878	TON	\$13.50	\$11,853.00
305.0110		BASE AGGREGATE DENSE 3/4-INCH	5,260.00	TON	\$9.90	\$52,074.00
305.0110		BASE AGGREGATE DENSE 3/4-INCH	502	TON	\$19.00	\$9,538.00
305.0110		BASE AGGREGATE DENSE 3/4-INCH	445	TON	\$8.75	\$3,893.75
305.0110		BASE AGGREGATE DENSE 3/4-INCH	8,074.00	TON	\$18.00	\$145,332.00
305.0110		BASE AGGREGATE DENSE 3/4-INCH	129	TON	\$13.65	\$1,760.85
305.0110		BASE AGGREGATE DENSE 3/4-INCH	2,380.00	TON	\$13.50	\$32,130.00

Item: 416.0610

Description: Drilled Tie Bars

Unit Rate Preferred: \$12.00/EACH

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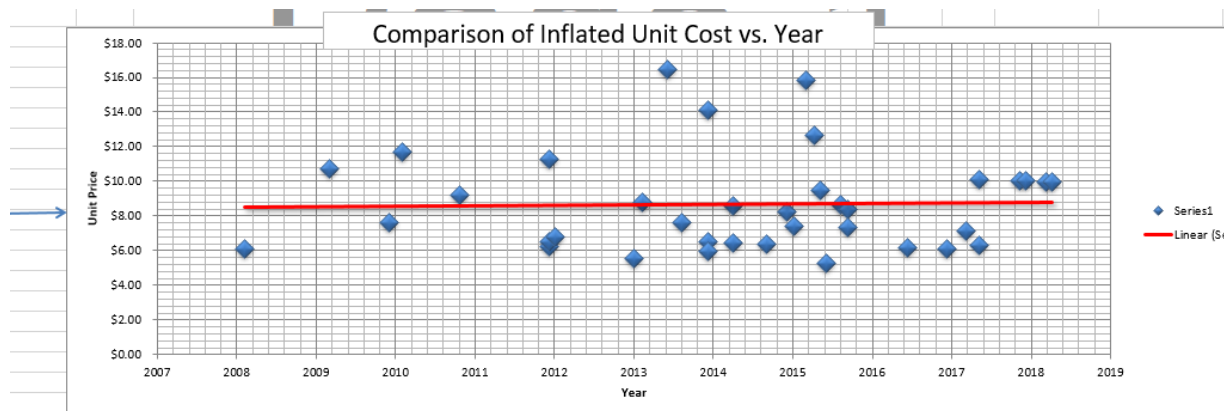
Bid Tab Analysis Search

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Description:	Any	Quantity Range:	From:	To:	
Proposal Items:	Any		Any	Any	
County:	Any	Price Range:	From:	To:	
Unit:	Any		5	30	
Low Bidders:	Any				
		<input type="button" value="Search"/> <input type="button" value="Clear"/>			

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Item	Description	Average	High	Low	Unit	Bid Count
+ 416.0610	Drilled Tie Bars	\$11.73	\$30.00	\$5.00	EACH	287 Bids

Backbone Estimating Tool Attachment



Current Year: 2018
 Current or Analysis Date: 1/1/2018
 Inflation Rate: 2.00%

Items

Item	SPV	Item Description	Quantity	Unit	Unit Price	Extension
	Extensio n					
416.0610		PAVEMENT TIES	2,151.00	EACH	\$5.00	\$10,755.00
416.0610		DRILLED TIE BARS	55	EACH	\$9.00	\$495.00
416.0610		DRILLED TIE BARS	9,267.00	EACH	\$6.50	\$60,235.50
416.0610		DRILLED TIE BARS	28	EACH	\$10.00	\$280.00
416.0610		DRILLED TIE BARS	27,538.00	EACH	\$8.00	\$220,304.00
416.0610		DRILLED TIE BARS	12,591.00	EACH	\$5.50	\$69,250.50
416.0610		DRILLED TIE BARS	4,020.00	EACH	\$5.75	\$23,115.00
416.0610		DRILLED TIE BARS	165	EACH	\$10.00	\$1,650.00

Estimator Attachment

Estimator - [Estimate]

File Edit View Catalog Tools Other Tools Window Help

Line Number: 0028
Item: 416.0610 AltCode:
Quantity: 145.00 Unit: EACH
Unit Price: 11.294
Price Source: Bid Regression ☐ Fixed Price Item
Extension: 1,637.63 ☐ Obsolete Item
☐ Exclude Item From Reference Price Calculations
Fund Package: ☒ From Group Default

Description
B *I* U **abe**

Drilled Tie Bars

Supplemental Description
B *I* U **abe**

0010 - Initial Group - \$558,908.73

- 204.0100 - Removing Pavement
- 205.0100 - Excavation Common
- 213.0100 - Finishing Roadway (project) 1228-28-70
- 305.0120 - Base Aggregate Dense 1 1/4-Inch
- 415.0080 - Concrete Pavement 8-Inch
- 415.0410 - Concrete Pavement Approach Slab
- 601.0411 - Concrete Curb & Gutter 30-Inch Type D
- 602.0410 - Concrete Sidewalk 5-Inch
- 643.5000 - Traffic Control
- 646.1020 - Marking Line Epoxy 4-Inch
- 659.1130 - Luminaires Utility LED D
- 204.0220 - Removing Inlets
- 415.0080 - Concrete Pavement 8-Inch
- 416.0610 - Drilled Tie Bars**
- 416.0620 - Drilled Dowel Bars
- 608.0412 - Storm Sewer Pipe Reinforced Concrete Class IV 12-In
- 628.7560 - Tracking Pads
- 629.0210 - Fertilizer Type B
- 643.0420 - Traffic Control Barricades Type III

Item: 416.0620

Description: Drilled Dowel Bars

Unit Rate Preferred: \$16.00/EACH

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Item:

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Description:

Proposal Items:

County:

Unit:

Low Bidders:

Date Range:
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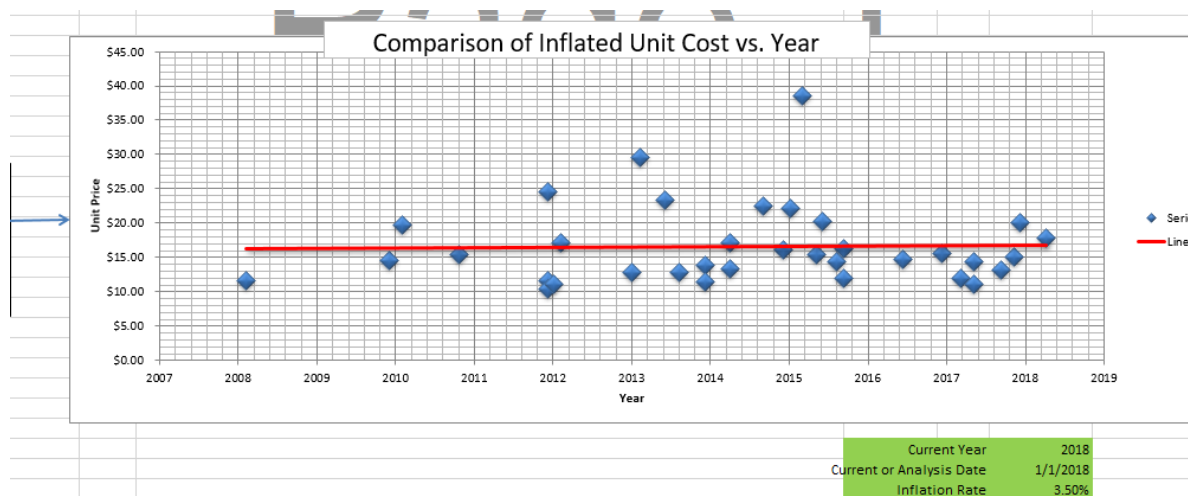
Quantity Range:
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Price Range:
 From: To:

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Item	Description	Average	High	Low	Unit	Bid Count
+ 416.0620	Drilled Dowel Bars	\$15.74	\$30.00	\$5.00	EACH	224 Bids

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Items

Item	SPV	Item Description	Quantity	Unit	Unit Price	Extension
416.0620	PAVEMENT DOWEL BARS	5,208.00 EACH			\$8.28	\$43,122.00
416.0620	DRILLED DOWEL BARS	1,014.00 EACH			\$11.00	\$11,154.00
416.0620	DRILLED DOWEL BARS	80 EACH			\$15.00	\$1,200.00
416.0620	DRILLED DOWEL BARS	44,724.00 EACH			\$12.00	\$536,688.00
416.0620	DRILLED DOWEL BARS	5,462.00 EACH			\$9.50	\$51,889.00
416.0620	DRILLED DOWEL BARS	34,300.00 EACH			\$8.40	\$288,120.00
416.0620	DRILLED DOWEL BARS	544 EACH			\$20.00	\$10,880.00

Estimator Attachment

Estimator - [Estimate]

File Edit View Catalog Tools Other Tools Window Help

Line Number: 0030
Item: 416.0620 AltCode:
Quantity: 145.00 Unit: EACH
Unit Price: 14.821
Price Source: Bid Regression Fixed Price Item ☐
Extension: 2,149.05 Obsolete Item ☐
Fund Package: From Group Default ☒
Exclude Item From Reference Price Calculations ☐

Description
B I U abc
Drilled Dowel Bars

Supplemental Description
B I U abc

0010 - Initial Group - \$558,908.73
204.0100 - Removing Pavement
205.0100 - Excavation Common
213.0100 - Finishing Roadway (project) 1228-28-70
305.0120 - Base Aggregate Dense 1 1/4-Inch
415.0080 - Concrete Pavement 8-Inch
415.0410 - Concrete Pavement Approach Slab
601.0411 - Concrete Curb & Gutter 30-Inch Type D
602.0410 - Concrete Sidewalk 5-Inch
643.5000 - Traffic Control
646.1020 - Marking Line Epoxy 4-Inch
659.1130 - Luminaires Utility LED D
204.0220 - Removing Inlets
415.0080 - Concrete Pavement 8-Inch
416.0610 - Drilled Tie Bars
416.0620 - Drilled Dowel Bars
608.0412 - Storm Sewer Pipe Reinforced Concrete Class IV 12-In
628.7560 - Tracking Pads
629.0210 - Fertilizer Type B
643.0420 - Traffic Control Barricades Type III
643.1000 - Traffic Control Signs Fixed Message
646.5020 - Marking Arrow Epoxy
646.5120 - Marking Word Epoxy
614.0010 - Barrier System Grading Shaping Finishing

Item: 416.1715

Description: Concrete Pavement Repair SHES

Unit Rate Preferred: \$160.00/SY

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Item:

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Description:

Proposal Items:

County:

Unit:

Low Bidders:

Date Range:
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Quantity Range:
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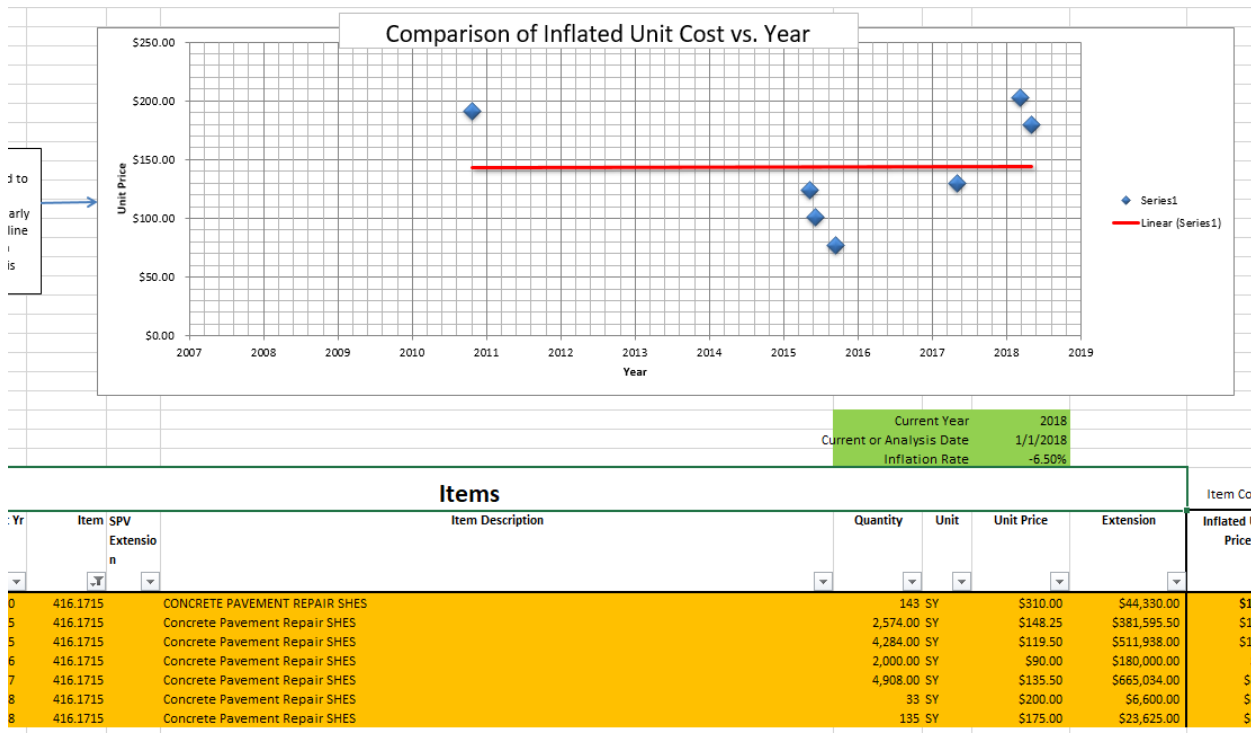
Price Range:
 From: To:

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Item	Description	Average	High	Low	Unit	Bid Count
+ 416.1715	Concrete Pavement Repair SHES	\$155.18	\$207.68	\$100.00	SY	22 Bids

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Item: 416.1725

Description: Concrete Pavement Replacement SHES

Unit Rate Preferred: \$15.000/SY

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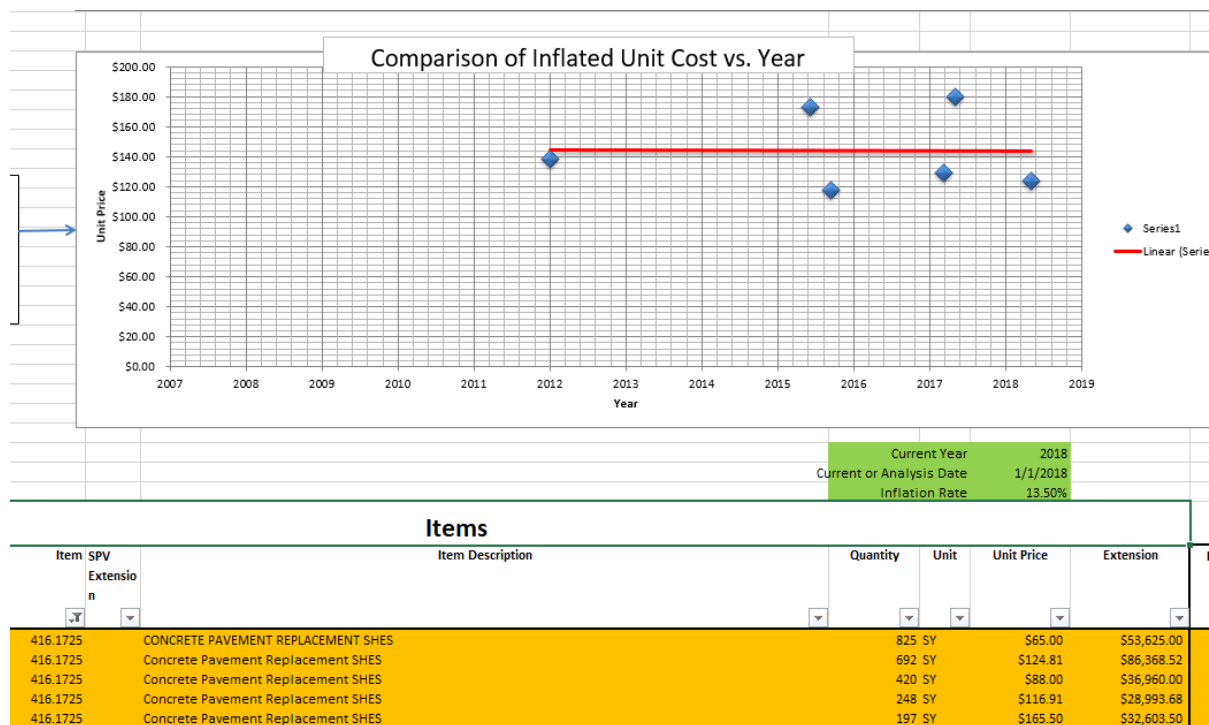
Bid Tab Analysis Search

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Description: Any	Quantity Range: From: Any To: Any	
Proposal Items: Any	Price Range: From: 50 To: 300	
County: Any		
Unit: Any		
Low Bidders: Any		
<input type="button" value="Search"/> <input type="button" value="Clear"/>		

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Item	Description	Average	High	Low	Unit	Bid Count
+ 416.1725	Concrete Pavement Replacement SHES	\$141.89	\$290.00	\$55.00	SY	51 Bids

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Item: 420.1000

Description: Continuous Diamond Grinding Concrete Pavement

Unit Rate Preferred: \$6.00/SY

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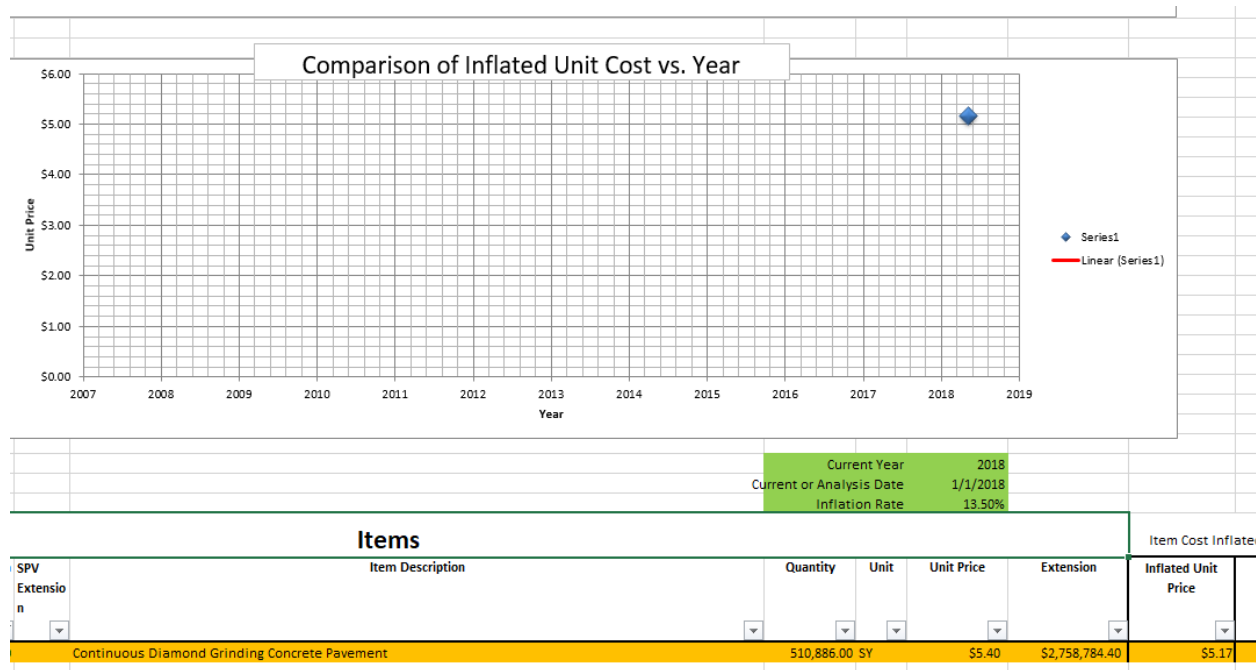
Bid Tab Analysis Search

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Description:	Any	From:	Any	To:	Any
Proposal Items:	Any				
County:	Any	From:	Any	To:	80
Unit:	Any				
Low Bidders:	Any				
		Search		Clear	

Export (csv) | Export (tab)

Item	Description	Average	High	Low	Unit	Bid Count
+ 420.1000	Continuous Diamond Grinding Concrete Pavement	\$5.43	\$11.17	\$2.95	SY	19 Bids

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Item: 460.5224

Description: HMA Pavement 4 LT 58-28 S

Unit Rate Preferred: \$75.00/TON

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Item:

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Proposal Items:

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Low Bidders:

Date Range:
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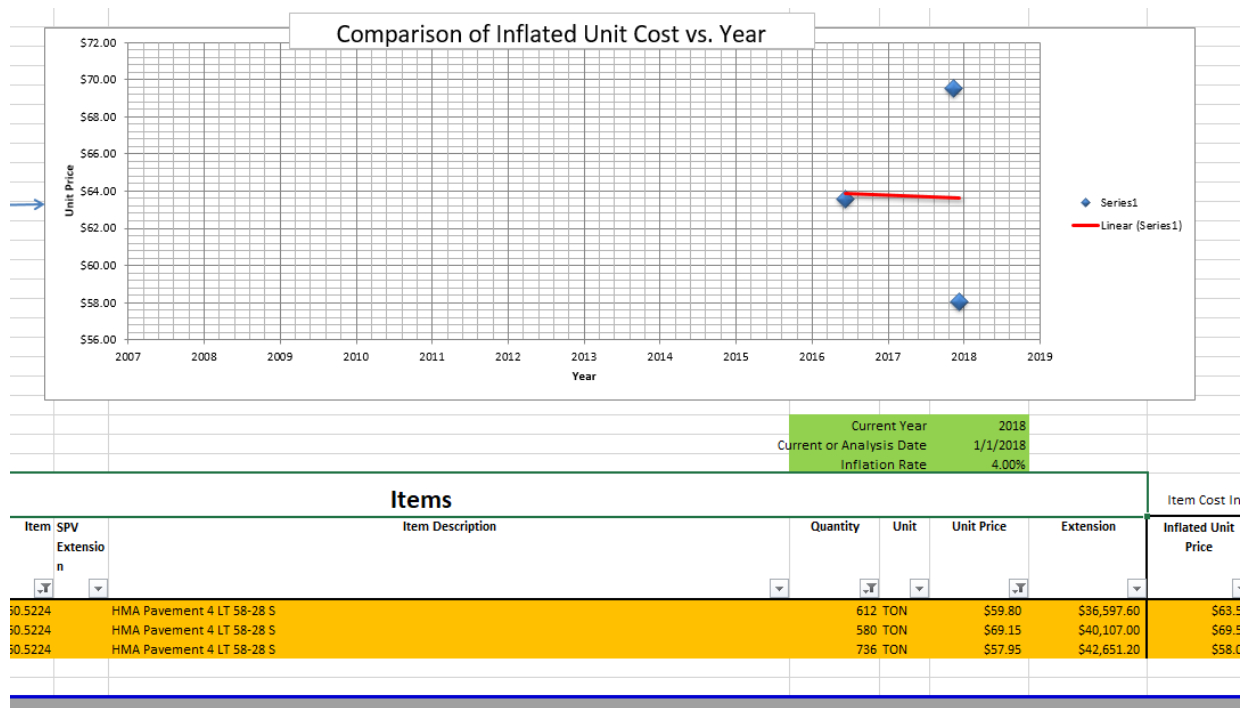
Quantity Range:
 From: To:

Price Range:
 From: To:

[Export \(csv\)](#) | [Export \(pdf\)](#)

Item	Description	Average	High	Low	Unit	Bid Count
460.5224	HMA Pavement 4 LT 58-28 S	\$75.32	\$118.70	\$46.47	TON	365 Bids

Backbone Estimating Tool Attachment



Item: 614.0200

Description: Steel Thrie Beam Structure Approach

Unit Rate Preferred: \$70.00/LF

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Item: 614.0200

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Description: Any

Proposal Items: Any

County: Any

Unit: Any

Low Bidders: Any

Date Range:
 From: 12/04/2019 To: 03/04/2021

Quantity Range:
 From: Any To: Any

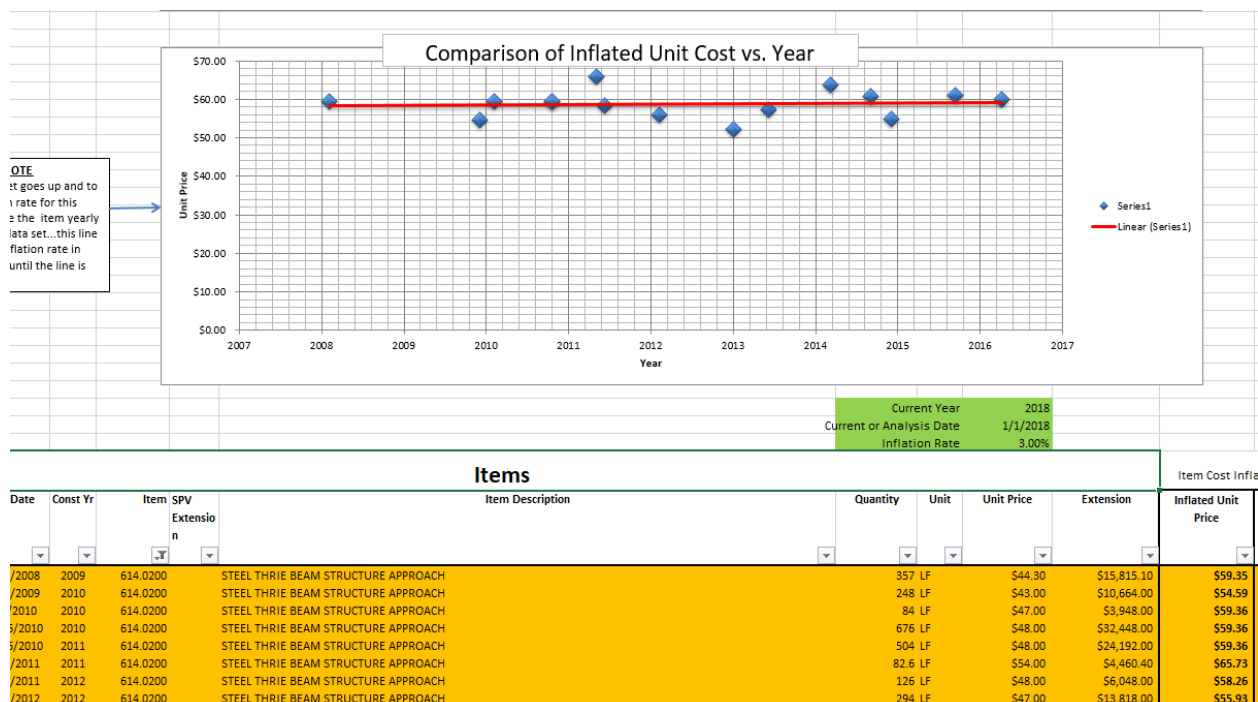
Price Range:
 From: Any To: Any

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Item	Description	Average	High	Low	Unit	Bid Count
614.0200	Steel Thrie Beam Structure Approach	\$70.44	\$91.00	\$58.00	LF	105 Bids

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Item: 646.1020

Description: Marking Line Epoxy 4-Inch

Unit Rate Preferred: \$2.50/LF

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[WIDOT](#) [Lettings](#) [Search](#) [Advantage](#) [Bid Tab Analysis](#) [Small Business Network](#)

Wisconsin Department of Transportation ▼

Bid Tab Analysis Search

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Bid Tab Analysis Search

Item: <input type="text" value="646.1020"/>	Date Range:
<input checked="" type="checkbox"/> Smart Item Search	From: <input type="text" value="12/04/2019"/> To: <input type="text" value="03/04/2021"/>
Description: <input type="text" value="Any"/>	Quantity Range:
Proposal Items: <input type="text" value="Any"/>	From: <input type="text" value="Any"/> To: <input type="text" value="Any"/>
County: <input type="text" value="Any"/>	Price Range:
Unit: <input type="text" value="Any"/>	From: <input type="text" value=".1"/> To: <input type="text" value="50"/>
Low Bidders: <input type="text" value="Any"/>	
<input type="button" value="Search"/> <input type="button" value="Clear"/>	

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Item ▲	Description	Average	High	Low	Unit	Bid Count
646.1020	Marking Line Epoxy 4-Inch	\$2.34	\$34.00	\$0.20	LF	991 Bids

Item: 690.0250

Description: Sawing Concrete

Unit Rate Preferred: \$3.00/LF

Bid Express Attachment

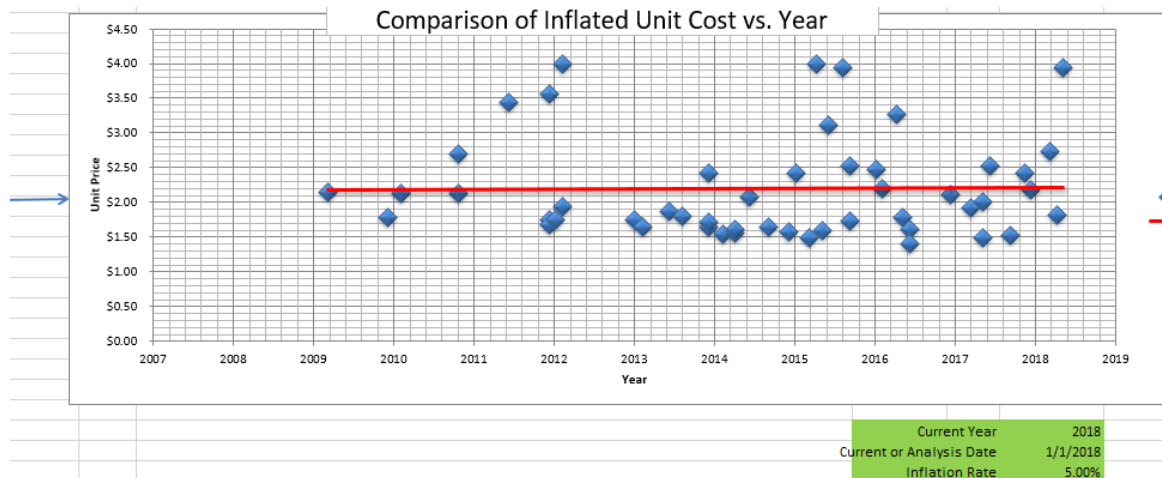
Bid Tab Analysis Search

Item: 690.0250	Date Range: From: 12/04/2018 To: 03/04/2021
<input checked="" type="checkbox"/> Smart Item Search	
Description: Any	Quantity Range: From: Any To: Any
Proposal Item: Any	
County: Any	Price Range: From: Any To: 15
Unit: Any	
Low Bidders: Any	
<input type="button" value="Search"/> <input type="button" value="Clear"/>	

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Item	Description	Average	High	Low	Unit	Bid Count
+ 690.0250	Sawing Concrete	\$2.98	\$14.00	\$1.00	LF	943 Bids

Backbone Estimating Tool Attachment



Items						
Item	SPV	Item Description	Quantity	Unit	Unit Price	Extens
	Extensio n					
690.0250		SAWING CONCRETE	9,114.00	LF	\$1.40	\$12,759.60
690.0250		SAWING CONCRETE	26,002.00	LF	\$1.20	\$31,202.40
690.0250		SAWING CONCRETE	4,513.00	LF	\$1.45	\$6,543.85
690.0250		SAWING CONCRETE	234,333.00	LF	\$1.90	\$445,232.70
690.0250		SAWING CONCRETE	1,397.00	LF	\$1.50	\$2,095.50
690.0250		SAWING CONCRETE	220	LF	\$2.50	\$550.00
690.0250		SAWING CONCRETE	11,289.00	LF	\$1.30	\$14,675.70