

# Specialty Bid Items

iPDWeb Cost Estimating Manual  
Chapter 6  
Bid Items  
Originally Issued: 08-16-19  
Revised: xx-xx-xx

Specialty Bid items are categorized as Percentage (PCT-), Percentage Lump Sum (LS), Parametric (PARA-), and Composite (COMP-). These bid items can be used to generate a high level conceptual estimate early in the development of a project or when the standard bid items and quantities have not been fully defined.

 **NOTE:** Special care needs to be taken when using specialty bid items to make sure that bid items are not being duplicated in the estimate. This can occur where a bid item is already included in the specialty bid item and then added again as a standard bid item into the estimate.

This chapter contains the following sections:

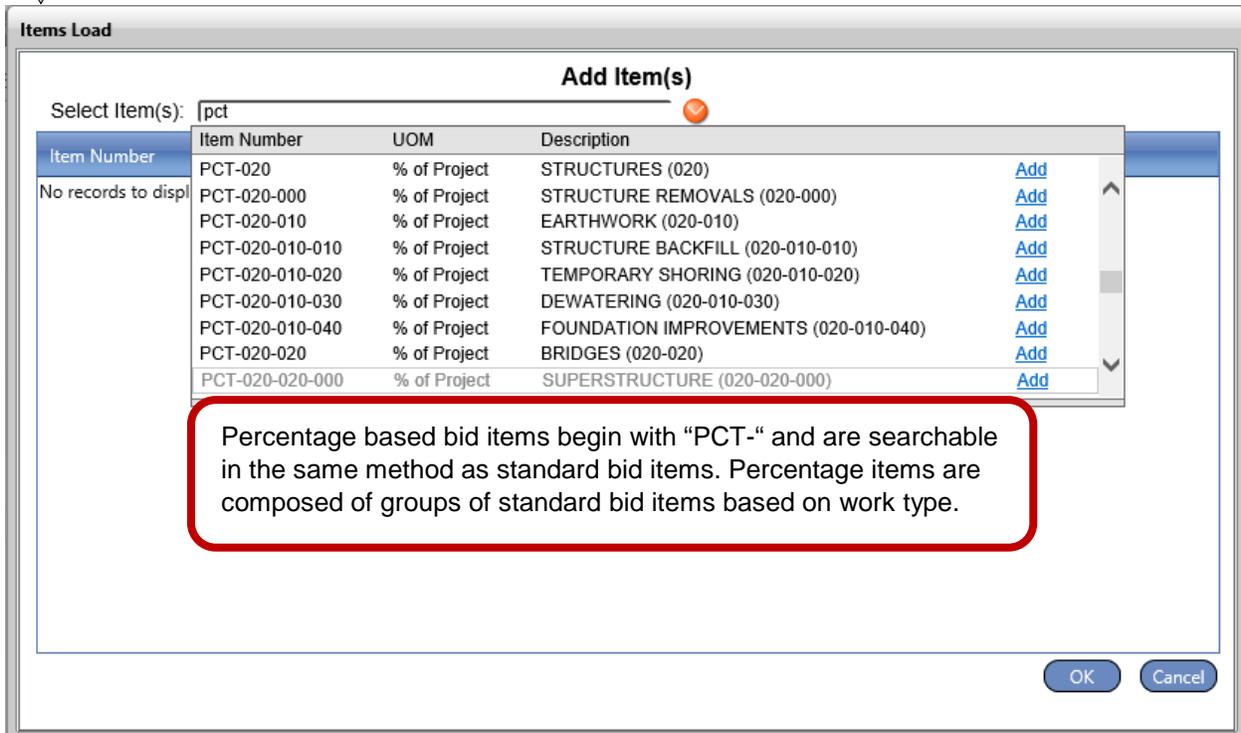
[Percentage Based Bid Items:](#) Labeled as PCT- and are mainly used to identify pricing for elements in the design that have not been fully determined.

[Percentage Lump Sum Items:](#) Lump Sum items that use percentage based pricing.

[Parametric Bid Items:](#) Labeled as PARA- and can be used to develop early conceptual estimates when only a rough approximation of the projects dimensions are known.

[Composite Bid Items:](#) Labeled as COMP- and these bid items will be assigned quantities based on typical design sections. Composite items are built and maintained by each Office. Percentage Based Bid Items

 **NOTE:** A division must be selected for percent based items to calculate correctly



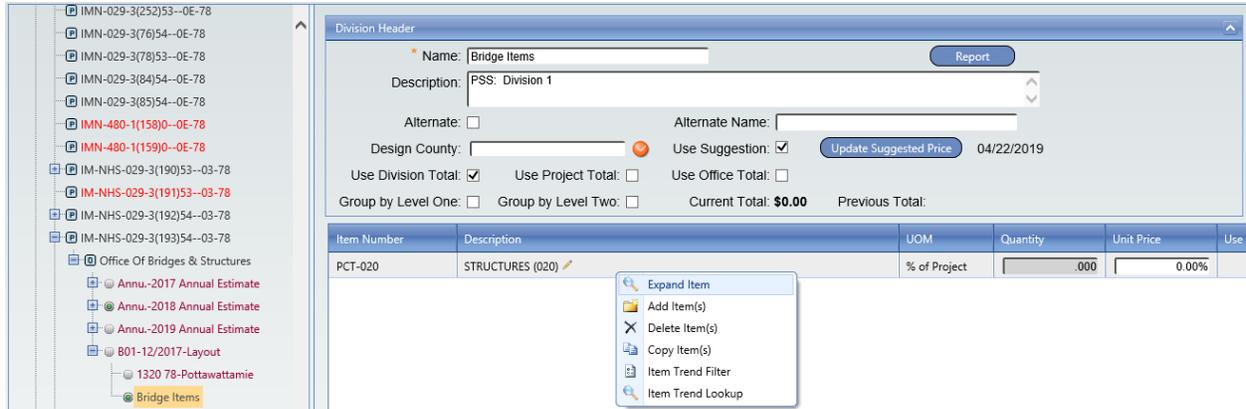
**Items Load**

**Add Item(s)**

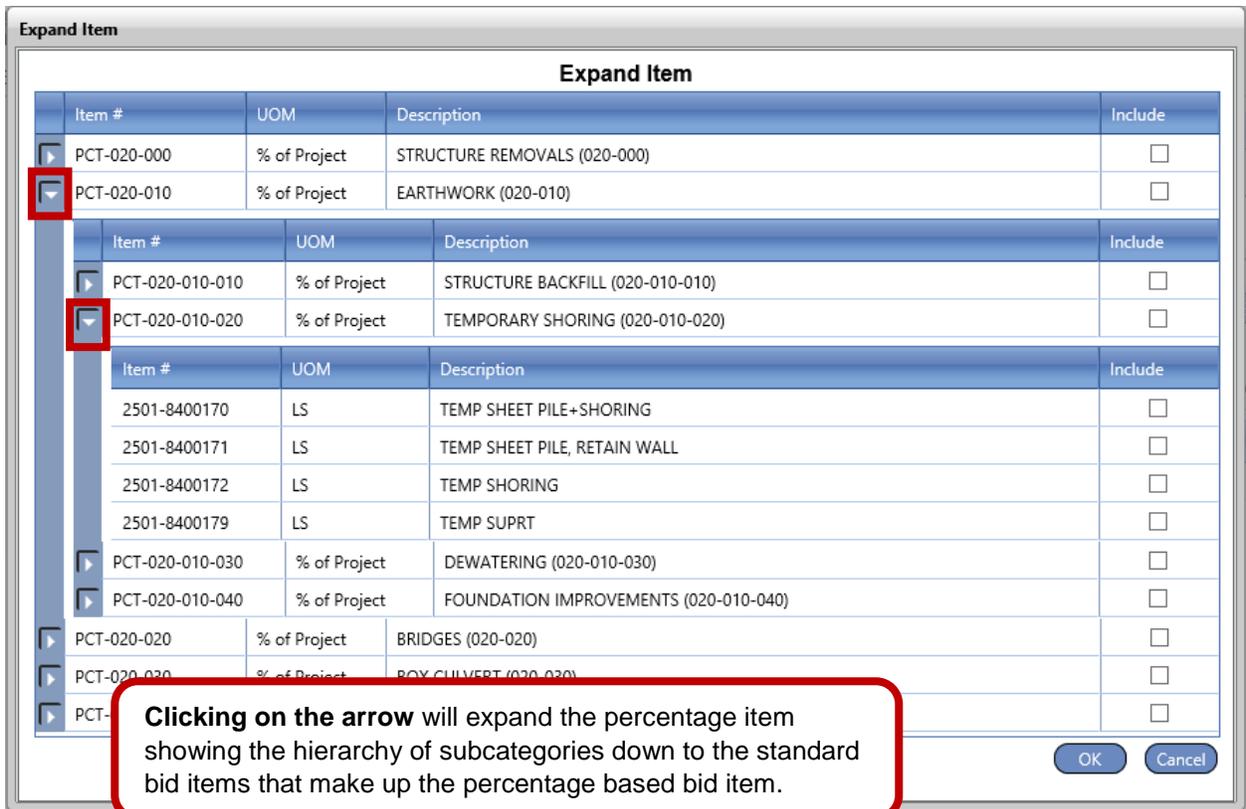
Select Item(s):  

Item Number	UOM	Description	
PCT-020	% of Project	STRUCTURES (020)	<a href="#">Add</a>
PCT-020-000	% of Project	STRUCTURE REMOVALS (020-000)	<a href="#">Add</a>
PCT-020-010	% of Project	EARTHWORK (020-010)	<a href="#">Add</a>
PCT-020-010-010	% of Project	STRUCTURE BACKFILL (020-010-010)	<a href="#">Add</a>
PCT-020-010-020	% of Project	TEMPORARY SHORING (020-010-020)	<a href="#">Add</a>
PCT-020-010-030	% of Project	DEWATERING (020-010-030)	<a href="#">Add</a>
PCT-020-010-040	% of Project	FOUNDATION IMPROVEMENTS (020-010-040)	<a href="#">Add</a>
PCT-020-020	% of Project	BRIDGES (020-020)	<a href="#">Add</a>
PCT-020-020-000	% of Project	SUPERSTRUCTURE (020-020-000)	<a href="#">Add</a>

Percentage based bid items begin with "PCT-" and are searchable in the same method as standard bid items. Percentage items are composed of groups of standard bid items based on work type.



It is important to understand the structure and what bid items are being included in a percentage based item in order to avoid adding duplicate bid items to an estimate. This can occur when a standard bid item is already being included in the Percentage bid item and then was added as a separate bid item to the estimate. To view the components that make up a percentage based item right click on the PCT bid item and **choose "Expand Item"**.



**Clicking on the arrow** will expand the percentage item showing the hierarchy of subcategories down to the standard bid items that make up the percentage based bid item.

**Expand Item**

Item #	UOM	Description	Include
PCT-020-000	% of Project	STRUCTURE REMOVALS (020-000)	<input type="checkbox"/>
PCT-020-010	% of Project	EARTHWORK (020-010)	<input type="checkbox"/>
PCT-020-010-010	% of Project	STRUCTURE BACKFILL (020-010-010)	<input checked="" type="checkbox"/>
PCT-020-010-020	% of Project	TEMPORARY SHORING (020-010-020)	<input type="checkbox"/>
2501-8400170	LS	TEMP SHEET PILE+SHORING	<input checked="" type="checkbox"/>
2501-8400171	LS	TEMP SHEET PILE, RETAIN WALL	<input checked="" type="checkbox"/>
2501-8400172	LS	TEMP SHORING	<input type="checkbox"/>
2501-8400179	LS	TEMP SUPRT	<input type="checkbox"/>
PCT-020-010-030	% of Project	DEWATERING (020-010-030)	<input type="checkbox"/>
PCT-020-010-040	% of Project	FOUNDATION IMPROVEMENTS (020-010-040)	<input type="checkbox"/>
PCT-020-020	% of Project	BRIDGES (020-020)	<input type="checkbox"/>
PCT-020-030	% of Project	BOX CULVERT (020-030)	<input type="checkbox"/>
PCT-020-040	% of Project	RETAINING WALLS (020-040)	<input type="checkbox"/>

OK Cancel

The expand screen also allows for the existing percentage item to be sub divided into more detailed categories and further down to the individual bid items. This can be done by selecting the box in the include column. Once finished **click on "OK"**.



**NOTE:** Expanding a PCT based items is permanent and cannot be undone. Make sure that the expanding of the item is necessary and all items are selected before **clicking on "OK"**.

IMN-029-3(252)53--0E-78  
 IMN-029-3(76)54--0E-78  
 IMN-029-3(78)53--0E-78  
 IMN-029-3(84)54--0E-78  
 IMN-029-3(85)54--0E-78  
 IMN-480-1(158)0--0E-78  
 IMN-480-1(159)0--0E-78  
 IM-NHS-029-3(190)53--03-78  
 IM-NHS-029-3(191)53--03-78  
 IM-NHS-029-3(192)54--03-78  
 IM-NHS-029-3(193)54--03-78  
 Office Of Bridges & Structures  
 Annu.-2017 Annual Estimate  
 Annu.-2018 Annual Estimate  
 Annu.-2019 Annual Estimate  
 801-12/2017-Layout  
 1320 78-Pottawattamie  
 Bridge Items

Division Header  
 Name: Bridge Items  
 Description: FSS: Division 1  
 Alternate:  Alternate Name:   
 Design County:  Use Suggestion:  Update Suggested Price 04/22/2019  
 Use Division Total:  Use Project Total:  Use Office Total:   
 Group by Level One:  Group by Level Two:  Current Total: \$0.00 Previous Total:

Item Number	Description	UOM	Quantity	Unit Price	Use
2501-8400170	TEMP SHEET PILE+SHORING	LS	1.000	\$0.00	
2501-8400171	TEMP SHEET PILE, RETAIN WALL	LS	1.000	\$0.00	
PCT-020-010-010	STRUCTURE BACKFILL (020-010-010)	% of Project	.000	0.00%	

In this example, the original PCT-020-010 Earthwork item has now been expanded and broken out into the selected bid items. Care should be taken when moving forward to make sure that additional PCT items are not added that already include the bid items and other PCT items already in the estimate. Once an estimate is marked as complete the software will run a duplicate bid item analysis to check for any possible duplicate bid items in the estimate.

Percentage based bid items are calculated based on the value of the total price of the division. Therefore it is necessary to have other items in the estimate with an assigned price in order for the percentage based items to be analyzed correctly. In this example, a bridge project currently priced at \$1,751,989.63, but needs to have temporary shoring added. No design information is currently available for this item, therefore a percentage based item will be used at this stage to price shoring. Adding a percentage bid item uses the same process as described in **Chapter 6A-1: Adding Bid Items**. Historically we added a percentage to the total project. It now makes the item a % of the total project by running iterations. Example of the old method \$100 X1.2 would be the add for a 20% item. The system now runs iterations to make the item exactly 20% of the project total. The reason for the change is to better align with the history of the item.

The Temporary Shoring bid item is now shown on the bid item page with the suggested price. For percentage based items the suggestion and suggestion range will be shown as a percentage and the quantity will be the dollar value of the "Current Total".

Item Number	Description	UOM	Quantity	Unit Price	Use Suggestion	Suggestion	Suggestion Range	Ext. Price	Docs
2104-2710020	EXCAVATION, CL 10, CHANNEL	CY	650,000	\$9.02	<input checked="" type="checkbox"/>	\$9.82	\$8.35 - \$11.54	\$6,383.00	[N] [A] [D]
2402-2720000	EXCAVATION, CL 20	CY	500,000	\$24.89	<input checked="" type="checkbox"/>	\$24.89	\$21.87 - \$28.33	\$12,445.00	[N] [A] [D]
2403-0100010	STRUCT CONC (BRIDGE)	CY	600,000	\$542.55	<input checked="" type="checkbox"/>	\$542.55	\$510.42 - \$576.70	\$325,530.00	[N] [A] [D]
2403-7000210	HIGH PERFORMANCE STRUC CONC	CY	600,000	\$663.70	<input checked="" type="checkbox"/>	\$663.70	\$643.54 - \$684.49	\$398,220.00	[N] [A] [D]
2404-7775005	REINFORC STEEL, EPOXY COATED	LB	115,000,000	\$1.00	<input checked="" type="checkbox"/>	\$1.00	\$0.94 - \$1.06	\$115,000.00	[N] [A] [D]
PCT-020-010-020	TEMPORARY SHORING (020-010-020)	% of Project	1,790,974.09	1.53%	<input type="checkbox"/>	1.53%	0.20% - 27.80%	\$27,401.90	[N] [A] [D]



**NOTE:** The Ext Price of the PCT bid item is also calculated into the Current Total.

**Item Trend Lookup**

Item #: PCT-020-010-020 (TEMPORARY SHORING (020-010-020))  Exclude All  Show all items in Chart  Exclude Outliers

Project Number	Work Type	Location	Bid Date	Project Total	% of Project	Excl.
IM-NHS-074-1(260)1--03-82	3511-GRADING	WB EXIT RAMP TO US 67	04/25/2017	\$884,293.30	2.04%	<input type="checkbox"/>
BRF-004-6(28)--38-32	2022-BRIDGE REPLACEMENT - CCS	Over DD # 94 2.5 Miles N. Of Co. Rd. B-14	10/16/2018	\$1,366,324.60	2.56%	<input type="checkbox"/>
BRF-003-2(65)--38-11	2022-BRIDGE REPLACEMENT - CCS	NORTH RACCOON RIVER 2.5 MILES E OF US 71	12/19/2017	\$1,475,606.53	1.69%	<input type="checkbox"/>
BRF-004-6(29)--38-32	2022-BRIDGE REPLACEMENT - CCS	Over DD #2 1.6 Miles N. Of Co. Rd. B-14	10/16/2018	\$1,582,327.59	2.84%	<input type="checkbox"/>
BRFN-141-1(38)--39-97	2022-BRIDGE REPLACEMENT -	GARRETSON DITCH 6.4 MILES E OF I-29	12/19/2017	\$1,896,226.65	1.53%	<input type="checkbox"/>

Average Value: 1.00%      Median Value: 1.53%      Predicted Value: 2.13%  
 # of Samples: 23      High Value: 4.43%      Low Value: 0.06%  
 R<sup>2</sup>: 0.35      Standard Deviation: 2.68      Suggestion Range: 0.20% - 28.30%

**Item Trend Chart**

Analyzing and modifying the price for percentage based bid items uses the same method described in **Chapter 6C-1: Item Trend Lookup**. The only difference is the regression analysis is based on the total project price and the percentage of the project that is associated with the percentage bid item.

### Percentage Lump Sum Items

Item Number	Description	UOM
2526-8285000	CONSTRUCTION SURVEY	LS
2528-8445110	TRAFFIC CONTROL	LS
2533-4980005	MOBILIZATION	LS
2590-0000020	PROJECT MANAGEMENT	LS

For most Lump Sum Items pricing cannot have a suggested price calculated by the software due to varying quantity and materials that are usually found in such bid items. However, the 4 Lump Sum Items shown above differ in the fact that there is no variance in the quantity or the materials. These bid items are known as Percentage Lump Sum Items.

Item Number	Description	UOM	Quantity	Unit Price	Use Suggestion	Suggestion	Suggestion Range
2526-8285000	CONSTRUCTION SURVEY	LS	1.000	\$0.00	<input checked="" type="checkbox"/>	0.00%	0.00% - 0.00%
2528-8445110	TRAFFIC CONTROL	LS	1.000	\$0.00	<input checked="" type="checkbox"/>	0.00%	0.00% - 0.00%
2533-4980005	MOBILIZATION	LS	1.000	\$0.00	<input checked="" type="checkbox"/>	0.00%	0.00% - 0.00%
2590-0000020	PROJECT MANAGEMENT	LS	1.000	\$0.00	<input checked="" type="checkbox"/>	0.00%	0.00% - 0.00%
2590-0000020	PROJECT MANAGEMENT	LS	1.000	\$0.00	<input checked="" type="checkbox"/>	0.00%	0.00% - 0.00%

The Percentage Lump Sum Items are calculated using a method similar to the Percentage Based Bid Items described earlier in this chapter. When generating a suggested percentage price the software analyzes other projects that contain the Percentage Lump Sum Item and runs a regression analysis based on the Project Total and the % of the Project for the Lump Sum Item.



**NOTE:** Since the suggested percentage is based on total project value it is necessary to have other bid items priced out in the estimate in order for the Percentage Based Lump Sum Items to calculate correctly.

Division Header

Name:  Report

Description:

Alternate:  Alternate Name:

Design Number:  Use Suggestion:  Update Suggested Price 06/19/2019

Group by Level One:  Group by Level Two:  Current Total: **\$3,086,351.16** Previous Total: **\$0.00**

Item Number	Description	UOM	Quantity	Unit Price	Use Suggestion	Suggestion	Suggestion Range	Est. Price		Docs
2402-2720000	EXCAVATION, CL 20	CY	3,000.000	\$21.81	<input checked="" type="checkbox"/>	\$21.81	\$17.23 - \$27.60	\$65,424.30	N	A
2403-0100010	STRUCT CONC (BRIDGE)	CY	2,400.000	\$467.20	<input checked="" type="checkbox"/>	\$467.20	\$435.83 - \$500.83	\$1,121,288.88	N	A
2403-7000210	HIGH PERFORMANCE STRUC CONC	CY	1,700.000	\$628.84	<input checked="" type="checkbox"/>	\$628.84	\$603.48 - \$655.28	\$1,069,035.82	N	A
2404-7775000	REINFORC STEEL	LB	510,000.000	\$0.87	<input checked="" type="checkbox"/>	\$0.87	\$0.80 - \$0.94	\$443,445.00	N	A
2404-7775005	REINFORC STEEL EPOXY COATED	LB	87,000.000	\$0.91	<input checked="" type="checkbox"/>	\$0.91	\$0.88 - \$0.93	\$78,830.70	N	A
2526-8285000	CONSTRUCTION SURVEY	LS	1.000	\$11,110.86	<input checked="" type="checkbox"/>	0.36%	0.10% - 1.60%	\$11,110.86	N	A
2528-8445110	TRAFFIC CONTROL	LS	1.000	\$6,481.34	<input checked="" type="checkbox"/>	0.21%	0.00% - 1.00%	\$6,481.34	N	A
2533-4980005	MOBILIZATION	LS	1.000	\$208,328.70	<input checked="" type="checkbox"/>	6.76%	3.10% - 14.70%	\$208,328.70	N	A
2590-0000020	PROJECT MANAGEMENT	LS	1.000	\$82,405.58	<input checked="" type="checkbox"/>			\$82,405.58	N	A

Once the suggested price is calculated the percentage used can be modified by right clicking on the bid item and selecting Modify Lumpsum Percent. It is a good idea to document the reason for manual changes in the notes for that item N.

**Modify Lumpsum Percent**

Enter Percent(%):

This will open a pop up window and will allow for a new percentage to be input by the estimator.

## Parametric Bid Items

**Items Load**

**Add Item(s)**

Select Item(s):  

Item Number	Item Number	UOM	Description	
No records to displ	PARA-010	Parametric	Roadway	<a href="#">Add</a>
	PARA-010(SY)	Parametric	Roadway parametric by SY	<a href="#">Add</a>
	PARA-010-000	Parametric	ROADWAY REMOVALS	<a href="#">Add</a>
	PARA-010-010	Parametric	Earthwork	<a href="#">Add</a>
	PARA-010-020	Parametric	Surfacing	<a href="#">Add</a>
	PARA-010-040	Parametric	Barrier	<a href="#">Add</a>
	PARA-010-050	Parametric	Drainage	<a href="#">Add</a>
	PARA-010-060	Parametric	Fencing	<a href="#">Add</a>
	PARA-010-070	Parametric	Noise Wall	<a href="#">Add</a>

Parametric bid items begin with “PARA-“ and can be used to develop early conceptual estimates when only a rough approximation of the projects dimensions are known such as square yards of paving or square footage of bridge deck. They are searchable similar to standard bid items. Parametric based bid items are composed of a hierarchy of standard bid items that have been grouped together similar to the percent based bid items. As with the Percentage Based Bid items care should be taken when adding Parametric based bid items to avoid duplicating any existing bid items in the estimate.

Division Header

Name:

Description:

Alternate:  Alternate Name:

Design Number:   Use Suggestion:   05/16/2019

Group by Level One:  Group by Level Two:  Current Total: **\$1,506,648.00** Previous Total: **\$0.00**

Item Number	Description	UOM	Quantity	Unit Price	Use Suggestion	Suggestion	Suggestion Range	Ext. Price		Docs
PARA-020-020	Bridges 	Parametric (Square Feet of Deck)	6,600.000	\$228.28	<input checked="" type="checkbox"/>	\$228.28	\$97.70 - \$533.35	\$1,506,648.00	<input type="checkbox"/>	<input type="checkbox"/>

Adding a parametric bid item uses the same process as described in **Chapter 6A-1: Adding Bid Items**. This example is for a 6,600 square foot PCCB bridge.

**Item Trend Lookup**

Main Locations **Work Type** Estimate Parameters

**Project Work Type**

- 000-GENERAL
- 010-ROADWAY
- 020-STRUCTURE
  - 000-REMOVAL
  - 020-BRIDGE
    - 000-NEW AND REPLACE
      - 000-CCS
      - 010-PPCB**
        - 2013 - BRIDGE NEW - PPCB
        - 2023 - BRIDGE REPLACEMENT
        - 2053 - BRIDGE AND APPROACH
      - 020-STEEL GIRDER
      - 030-UNKNOWN
    - 010-WIDENING
    - 020-REHABILITATION AND MAINTEN.
  - 030-BOX CULVERT
  - 040-RETAINING WALLS
- 030-LANDSCAPING
- 040-EROSION CONTROL

**\* Assigned Work Type**

- 2013 - BRIDGE NEW - PPCB
- 2023 - BRIDGE REPLACEMENT - PPCB
- 2053 - BRIDGE AND APPROACHES - PPCB

Add Remove

Apply Filter to Division Reset to Estimate Filter **Lookup** Close

When working with Parametric bid items it is important to select filters that are similar to the material of construction. In this scenario we only want the price for PPCB and will need to adjust the assigned work types. It will be necessary to clear all existing work types. To do this, select all the items shown in the Assigned Work Type box and then **click on "Remove"** to clear out all existing filters. Then click on 010 – PCCB and **"Add"** to have those filters applied to the Assigned Work Type box. Click on **"Lookup"** to go to the Item Trend Filter Screen.

**Item Trend Lookup**

Item #: PARA-020-020 (Bridges)  Exclude All  Show all items in Chart  Exclude Outliers

Project Number	Work Type	Location	Bid Date	Square Feet of Deck	Price per unit	Excl.
NHSX-030-6(220)--3H-86	2013-BRIDGE NEW - PPCB	OTTER CREEK 0.7 MI W OF CO RD E66	12/19/2017	48,640.00	\$39.84	<input type="checkbox"/>
IM-NHS-080-5(240)176--03-50	2023-BRIDGE REPLACEMENT - PPCB	N Skunk River 2.1 mi E of IA 224 (EB)	09/18/2018	21,288.00	\$72.20	<input type="checkbox"/>
NHSX-030-8(34)--3H-16	2013-BRIDGE NEW - PPCB	Mt. Vernon/Lisbon Bypass On E. Kirkwood Blvd./Exist. US 30 Over US 30	10/16/2018	8,504.00	\$127.36	<input type="checkbox"/>
NHSX-020-9(211)--3H-31	2023-BRIDGE REPLACEMENT - PPCB	US 20 EB & WB OVER S. FORK CATFISH CREEK IA 32 (SW ARTERIAL) INTERCHANGE	12/19/2017	12,000.00	\$142.83	<input type="checkbox"/>
NHSX-061-2(71)--3H-29	2013-BRIDGE NEW - PPCB	Flint Creek 0.6 mi N of Memorial Park Rd (SB)	07/17/2018	12,000.00	\$154.27	<input type="checkbox"/>

Average Value: \$152.18      Median Value: \$142.83      Predicted Value: \$142.83  
 # of Samples: 7              High Value: \$271.78              Low Value: \$39.84  
 R<sup>2</sup>: 0.88                      Standard Deviation: 80.19              Suggestion Range: \$135.10 - \$264.40

**Item Trend Chart**

Updated By: euser2 Update Date: 05/16/2019

Export      Modify Filter      Accept      Cancel

The Item Trend Lookup screen will display the analysis of other PPCB bridges based on the size and unit cost. Additional analysis of the price and modification of the filters can be done as described in **Chapter 6C-1: Item Trend Lookup**.

Division Header

Name: [Design 1031]      Report

Description: Parametric Example

Alternate:       Alternate Name: [ ]

Design Number: [ ]      Use Suggestion:       Update Suggested Price: 05/16/2019

Group by Level One:       Group by Level Two:       Current Total: **\$997,648.43**      Previous Total: **\$942,678.00**

Item Number	Description	UOM	Quantity	Unit Price	Use Suggestion	Suggestion	Suggestion Range	Est. Price	Disc
2401-6745625	RMVL OF EXISTING BRIDGE	LS	1.000	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	<input type="checkbox"/>
2507-6800061	REVTMENT, CLASS E	TON	.000	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	<input type="checkbox"/>
2526-8285000	CONSTRUCTION SURVEY	LS	1.000	\$7,582.13	<input checked="" type="checkbox"/>	0.76%	0.40% - 1.60%	\$7,582.13	<input type="checkbox"/>
2533-4980005	MOBILIZATION	LS	1.000	\$47,388.30	<input checked="" type="checkbox"/>	4.75%	3.50% - 6.40%	\$47,388.30	<input type="checkbox"/>
PARA-020-020	Bridges	Parametric	1.000	\$142.83	<input checked="" type="checkbox"/>	\$142.83	\$135.10 - \$264.40	\$142,830.00	<input type="checkbox"/>

Additional costs may need to be added to the base parametric cost in order to have a better estimate of the total bridge costs. Some items such as bridge removal, revtment, and mobilization can be accounted for by adding the appropriate bid item.

## Composite Bid Items

**Items Load**

**Add Item(s)**

Select Item(s): COMP-

Item Number	Item Number	UOM	Description	
No records to displ	COMP-1112	EA	Composite Major Right Turn Lane (72,787.72)	<a href="#">Add</a>
	COMP-1113	EA	Composite Minor Right Turn Lane (35,255.94)	<a href="#">Add</a>
	COMP-1114	EA	Composite Maximum Left Turn Lane (141,110.51)	<a href="#">Add</a>
	COMP-1115	EA	Composite Minimum Left Turn Lane (95,347.99)	<a href="#">Add</a>
	COMP-1600	EA	Composite 50' Median Dual Crossover (224,419.06)	<a href="#">Add</a>
	COMP-1601	EA	Composite 64' Median Dual Crossover (269,382.89)	<a href="#">Add</a>
	COMP-1602	EA	Composite 68.24' Median Dual Crossover (297,297.11)	<a href="#">Add</a>
	COMP-1603	EA	Composite 50' Median Interchange Crossover (178,902.15)	<a href="#">Add</a>
	COMP-1605	EA	Composite 64' Median Interchange Crossover (220,665.35)	<a href="#">Add</a>

Composite bid items are a set of bid items that have been grouped together for estimating purposes. These bid items will form a larger component of a project. These bid items will be assigned quantities based on typical design sections. They begin with "COMP-" and are searchable like standard bid items. Composite items are built and maintained by each Office.

Division Header

Name: Design 1031

Description: Composite Example

Alternate:  Alternate Name:

Design Number:  Use Suggestion:   05/16/2019

Group by Level One:  Group by Level Two:  Current Total: \$0.00 Previous Total:

Item Number	Description	UOM	Quantity	Unit Price	Use Suggestion	Suggestion	Suggestion Range	Est. Price		Docs
COMP-1112	Composite Major Right Turn Lane (72,787.72)	EA	000	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N	A

Tasked Item

- Composite Items
- Add Item(s)
- Delete Item(s)
- Copy Item(s)
- Item Trend Filter

The individual bid items that make up a composite item can be viewed by **right clicking** on the composite and **clicking "Composite Items"**.

**Composite Items**

Item Number	Description	Unit	Org. Quantity	Quantity
2102-2710070	EXCAVATION, CL 10, RDWY+BORROW	CY	1,222.000	1,222.000
2102-2710090	EXCAVATION, CL 10, WASTE	CY	668.000	668.000
2111-8174100	GRANULAR SUBBASE	SY	1,136.000	1,136.000
2121-7425010	GRANULAR SHLD, TYPE A	TON	159.000	159.000
2301-1033090	STD/S-F PCC PAV'T, CL C CL 3, 9"	SY	913.000	913.000
2601-2636044	SEED+FERTILIZE (URBAN)	ACRE	.750	.750

Composite items have pre-assigned typical quantities that are based on past experience with the type of work, however these quantities can be **adjusted in the Composite Items screen**. The software will analyze and assign a price for each of the bid items.

OK Cancel

Division Header

Name: [Design 1031] Report

Description: Composite Example

Alternate:  Alternate Name:

Design Number: Use Suggestion:  Update Suggested Price 05/16/2019

Group by Level One:  Group by Level Two:  Current Total: \$87,392.97 Previous Total: \$0.00

Item Number	Description	UOM	Quantity	Unit Price	Use Suggestion	Suggestion	Suggestion Range	Est. Price	Doc
COMP-1112	Composite Major Right Turn Lane (72,787.72)		1.000	\$87,392.97	<input checked="" type="checkbox"/>	\$87,392.97	\$79,508.66 - \$101,488.60	\$87,392.97	N A D

Expand Item

- Composite Item(s)
- Add Item(s)
- Delete Item(s)
- Copy Item(s)
- Item Trend Filter

This price is then combined into an overall price for the composite item. Composite items can also be expanded into the individual bid items by **right clicking** on the composite item and then **selecting "Expand Item"**.



**NOTE:** It is a good idea to review the attached document on the far right of the item information. That document should explain the assumptions and dimensions used for the component item. If a document is not attached to the item, please contact Design Methods Section

Division Header										
Name: [Design 1031] <span style="float: right;">Report</span>										
Description: Composite Example										
Alternate: <input type="checkbox"/> Alternate Name: _____										
Design Number: _____ Use Suggestion: <input checked="" type="checkbox"/> <span style="float: right;">Update Suggested Price: 05/16/2019</span>										
Group by Level One: <input type="checkbox"/> Group by Level Two: <input type="checkbox"/> Current Total: <b>\$87,392.97</b> Previous Total: <b>\$0.00</b>										
Item Number	Description	UCM	Quantity	Unit Price	Use Suggestion	Suggestion	Suggestion Range	Est. Price		Docs
2102-2710070	EXCAVATION, CL 10, RDWY+BORROW (Composite Major Right Turn Lane (72,787.72))	CY	1,222.000	\$10.30	<input checked="" type="checkbox"/>	\$10.30	\$9.13 - \$11.61	\$12,585.38	N	A [D]
2102-2710090	EXCAVATION, CL 10, WASTE (Composite Major Right Turn Lane (72,787.72))	CY	668.000	\$10.40	<input checked="" type="checkbox"/>	\$10.40	\$7.62 - \$14.17	\$6,948.54	N	A [D]
2111-8174100	GRANULAR SUBBASE (Composite Major Right Turn Lane (72,787.72))	SY	1,136.000	\$8.35	<input checked="" type="checkbox"/>	\$8.35	\$6.49 - \$10.74	\$9,482.19	N	A [D]
2121-7425010	GRANULAR SHLD, TYPE A (Composite Major Right Turn Lane (72,787.72))	TON	159.000	\$27.10	<input checked="" type="checkbox"/>	\$27.10	\$23.26 - \$31.58	\$4,308.93	N	A [D]
2301-1033090	STD/S-F PCC PAVT, CL C CL 3, 9" (Composite Major Right Turn Lane (72,787.72))	SY	913.000	\$56.92	<input checked="" type="checkbox"/>	\$56.92	\$55.27 - \$63.54	\$51,963.40	N	A [D]
2601-2636044	SEED+FERTILIZE (URBAN) (Composite Major Right Turn Lane (72,787.72))	ACRE	.750	\$2,806.05	<input checked="" type="checkbox"/>	\$2,806.05	\$2,290.83 - \$3,437.88	\$2,104.53	N	A [D]

These bid items can then be adjusted and analyzed separately.

### Chronology of Changes to Manual Section:

**6B-1 Specialty Bid Items**

DATE 08-16-2019

New.

DATE Revised

Description