

Bid Express User Guide

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Bid Express User Guide

Introduction

Bid Express is an online, searchable database of historical bid data developed by Info Tech Inc. An account is required. The database can be used to find average cost information for specific bid items, search for keywords in bid item descriptions and review awarded contracts. The data search can be tailored to include a specific date range, specific bid items or item descriptions.

Common Bid Express uses include:

- Designers developing construction estimates.
- Construction staff comparing and justifying change order item prices.
- Contractors asking questions about advertised proposals and submitting bids.

Bid Express can be used to find bid prices for any item in the Bid Tab Analysis Page and can be used to find tabulations of any awarded proposal in the Lettings Page.

- Bid Express should not be used for estimating Mobilization and the Traffic Control bid item. The [Similar Projects Tool](#) is ideal for estimating these two items. See [FDM 19-5-5.5 Tools and Resources](#).
- Lump sum SPV items may not be similarly scoped. Similar projects likely are needed to find similarly scoped items.

The Bid Express user interface is being updated to [New Roads](#). Screen captures in this guide will be updated to updated pages when we are aware of these changes. Menus and tabs are moving to the left side, and blue color theme is being used instead of green. The look and arrangement of updated pages is different, but the content on each page should remain the same. Links and information are moved to different parts of the page.

- To toggle the New Roads Updates:
 - [Log into Bid Express](#).
 - In any classic, green page, select the MyBidx Icon on the top right of the page.
 - In any updated, blue pages, select your username on the top left of the page.
 - In My Bidx Preference Page, select Enable Bid Express: New Roads or select Disable Bid Express: New Roads.

Start Up

Bid Express is at the following location: <https://bidx.com/>

Logon credentials are needed to use this site.

- DOT employees have access to Bid Express by requesting login ID and password from the hcci.dtid@dot.wi.gov mailbox. Include your name, email address and phone number in your request. Regions requesting access for multiple users should submit one spreadsheet with requested information to the HCCI mailbox.
- Consultants are not covered under the WisDOT license agreement. They need to acquire their own license at <https://bidx.com/> to use Bid Express.

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Login

Multiple approaches exist to log into Bid Express. You will need to login to view search results or letting information.

- When you go to <https://bidx.com/>, press the Login Button in the middle of the page.
- If you have already selected a Wisconsin Department of Transportation in the U.S. Agency Drop-down above the Login Button, or if you are already in the Letting or Bid Tab Analysis Pages, press Login on the top-right corner of the page.

Bid Express Overview

Once you have logged into Bid Express, you will be sent to the WisDOT agency homepage. Other pages on this site include Letting, Search, Advantage, Bid Tab Analysis and Small Business Network.

If you would like additional information about any Bid Express Page, you may look in the help pages linked throughout the Bid Express Site.

WIDOT Homepage

The agency's home page is where the agency posts any messages or news that it wants you to see. Links to updated letting files are also posted.

Lettings

The Lettings Page displays a list of every letting since the Bid Express service has been active for the agency, grouped together by year. Click the down arrow next to a year to see all the letting dates for that year. Click the up arrow to only show the year.

Information for each letting, and proposal is provided. This includes bid tabulations for each awarded proposal, bid summary, questions and answers and plan holders and eligible bidders.

Search

Search may be used to find items, bids or bidders. The basic search lists all fields that contain the search criteria. The advanced search narrows down the criteria to a more specified search.

Advantage

Only contractors can use all the functionality of the Advantage Page. We can only use View Contractor, which allows you to search for the bids of a specific contractor in a specified time frame.

Bid Tab Analysis

The Bid Tab Analysis Page is a common page used by designers. This page is used to find historical statistical information about item bid prices, including the average, high and low bid item prices, over a specified period. There are different ways to search for an item for analysis including item number, item description, proposal ID, county, unit and low bidders within date, quantity and price ranges. Using more than one field limits the return to those fields.

Small Business Network

Small Business Network is used by prime and subcontractors. They use it to request sub-quotes as a prime contractor or submit a response to sub-quote requests as a subcontractor.

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Looking up Bid History

Looking up bid history in the Bid Tab Analysis may be used to estimate the following items:

- Quantifiable standard and STSP items,
- Lump sum standard and STSP items,
- Quantifiable SPV items,
- Lump sum SPV items.
 - Results may not be similarly scoped. Similar projects likely are needed to find similarly scoped items.

These items are defined in [FDM 19-5-5.4 Estimate Types and Components](#). All bid items, current and obsolete, are listed in [Item Overview](#) in AASHTOWare Projects. Login credentials for AASHTOWare Preconstruction or Construction are required. If you do not see the Item Overview in AASHTOWare Projects, still try the link after logging into AASHTOWare Projects. You should have permission to see this page without seeing the link in AASHTOWare Projects Homepage.

Again, the Bid Tab Analysis Page is used to find historical statistical information about item bid prices, including the average, high and low bid item prices, over a specified period. There are different ways to search for an item for analysis using the various fields listed below.

Search Field	Field Format	Expected Result
Item	Item Number	A list of items and the proposals in which the item appears.
Smart Item Search	Check the box	Used with the Item Number field. Returns items where either part of the item number begins with the entered criteria. For example, if you enter 201, the Smart Item Search will return 201.#### and ###.201#.
Smart Item Search	Uncheck the box	Used with the Item Number field. Returns items where the item number begins with the entered criteria. For example, if you enter 201., the Item Search will return the items beginning with 201., which are all the items having a description of Clearing and Grubbing.
Description	Item Description	A list of items that match the description and the proposals containing the items. Supplemental descriptions are merged with item descriptions.
Proposal Items	Proposal ID number	A list of items that appear in the entered proposal, plus every proposal in which those items appear.
County	County	A list of items from proposals that are in the specified county.
Unit	Unit	A list of items that use this unit plus the proposals in which the item appears.
Low Bidders	A number	A list of items and the proposals in which they appear for the number of bidders specified.

What to enter in the Fields

- Especially for significant items, an initial review of at least 20-30 results is recommended to ensure your selected price makes sense. Then, you would know what the bid price range is for these items.

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- Limited results from a constrained search may show some outlier prices that do not reflect expected unit prices and cause your estimate to be inaccurate.
- After reviewing broader results, reasonable prices ranges may be selected in the Quantity Range, Price Range or other fields.
- Multiple criteria may be used for each field. Separate multiple values in one field with a comma.
- For standard and STSP items, enter the item number in the Item Field.
 - For similar items such as concrete pavement, asphalt pavement, culvert and storm sewer items, enter all item numbers separated by commas.
 - Otherwise, the first part of an item number and a description may be entered for a variety of similar items.
 - Smart Item Search may have to be unselected to get the expected results.
 - For example, “520.3” may be entered in the Item Field for all class III culvert pipes, “24-Inch” may be entered in the Description Field for all items that contain 24-Inch. The result is all class III culvert pipes that are 24-Inch diameter.
- For SPV items, enter the item description in the description field.
 - Completing an initial search without limiting units may help find similar units or exchangeable units for your item. This includes each and lump sum, or square feet and square yards.
 - If you need to limit your results to specific units, you can enter the relevant SPV item number(s) in the Item Field or enter the relevant unit in the Unit Field, [see FDM 19-15-80.1](#) Assigning Numbers to SPV Items (pages 20-22) for SPV item numbers, units and descriptions
- For finding bid history in areas that are geographically similar, enter the desired counties separated by commas.
 - Desired counties may be a one or two county radius around your project’s county or the counties that are located on the roadway or in the region in which the project will occur. [Appendix 1](#) contains a region and county map.
 - The [Asphalt Price Map](#) can be used to find nearby counties with similar asphalt prices, and these counties can be used in the Bid Express search criteria, see [FDM 19-5-5.6.3](#) Bid Item Estimating Guidance under Asphalt Pavement Items (page 18).
 - Saint Croix County needs to be entered as “St Croix” without a period or simply “Croix”.
 - County and region wide codes are assigned to specific counties and regions. [Appendix 2](#) contains county and region codes and [Appendix 3](#) contains a Bid Express help sheet with all regions listed.
- The [Similar Projects Tool](#) may be used to search for bid history of similar projects. After filtering your results in the Similar Projects Tool, use the Copy Proposal IDs for BidX Button in the Filters, Results and Data Sheets. Broad filters should be used such as including similar Improvement Types. The button will copy the proposals from the filtered results. You can paste this proposal list in the Proposal Items Field. **Be sure to enter search criteria in the Item or Description Fields, otherwise the search will not work.**
- Change the Date Range to what is needed. Three months is entered by default and more results are typically needed. Bid history from the past year is recommended.
 - Less than a year may be needed if you want to review recent price trends.
 - Up to three years may be needed, especially when finding more than 20-30 results for broad searches.

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- If bid history is older and limited, you likely need to adjust the historic bid price into current dollars using the WisDOT Chained Fisher Construction Cost Index, see [FDM 19-5.6.4](#) Unit Price Guidance under Adjusting Unit Prices (page 20).
- Use quantity ranges to refine your search results to projects with similar quantities.
 - Projects with a lot of spot work may want to include lower quantities completed in each stage or location.
- Entering Price Ranges can limit unbalanced items in the results. Adding a price range from \$0.02 would remove all penny bids, and other bids are averaged. Adding an upper price range would remove all unbalanced bids that are high.

When you have finished entering what is needed press search.

Review Results

The results provide item number, item description with supplemental description, average bid price, high bid price, low bid price, unit and number of bids. Expand search results for each item result. Expanded results also include the same information for each proposal with the letting date, proposal ID and county.

- The average bid price usually is used as the estimated price.
- Otherwise, you may select the proposal ID for the bid tabulations of that proposal and find the low bidder's unit price.

Multiple iterations of results may be needed. Increasing the geographic area and increasing the date range are easy ways to increase the number of results.

Looking Up Bid Tabulations

Bid tabulations are frequently found two ways, by selecting the proposal ID of Bid Tab Analysis Searches and within the Lettings Page.

The proposal ID is needed to find bid tabulation of desired projects in the Lettings Page. Proposal IDs can be found in the Data Sheet of the [Similar Projects Tool](#) if you have the controlling project ID or other project information. The proposal ID is made of eleven numerical digits. The first eight digits is the letting ID using the letting date. See below for the meaning of each numerical digit.

Letting ID Call Number

20210309004

The diagram shows the proposal ID 20210309004 with brackets indicating the structure of the digits. The first eight digits (20210309) are grouped under a single bracket labeled 'Letting ID'. The last three digits (004) are grouped under a single bracket labeled 'Call Number'. Within the 'Letting ID' group, brackets indicate that the first two digits (20) represent the 'Year', the next two digits (21) represent the 'Month', and the final four digits (0309) represent the 'Day'.

Year Month Day

Steps to View and Download Bid Tabulations

1. The Letting Page shows a list of lettings.
 - a. For each letting, the letting date, letting ID, number of proposals and if the letting date has not passed, the cut-off time for receiving bids is provided.

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- b. Click the down arrow next to a year to see all the letting dates for that year. Click the up arrow to only show the year.
 2. Select a letting date or the right-arrow to select a letting. Proposals in the letting are listed.
 - a. Information for each proposal is provided including proposal ID, project ID, proposal description, county and proposal work type.
 - b. Across the top,
 - i. Plan holders and eligible bidders for the letting are linked.
 - ii. Questions and answers for the letting are linked.
 3. Select a proposal ID to select a proposal. Bid items and quantities are shown.
 - a. If the proposal has been awarded, on the right,
 - i. Bid tabulations is linked.
 - ii. Bid summary and viewing bids in the Advantage Page are linked.
 - b. Across the top,
 - i. Plan holders and eligible bidders for the proposal are linked.
 - ii. Questions and answers for the proposal are linked.
 4. On the right, select the bid tabulations link. Bid tabulations are shown.
 - a. Bid summary is shown on the top.
 - b. Bid tabulations may be exported using the Export (csv) link on the top, right of the bid tabulations.

Quickly Viewing Bid Tabulations of Other Proposals

After you have completed the steps to view and download tabulations, you may want to quickly view and/or download bid tabulations for other proposals. You are recommended to obtain or at least review the bid tabulations of your similar projects. The assumption is, that you already have a list of proposals from the [Similar Projects Tool](#) or the proposal IDs of your similar projects.

1. In the bid tabulations page, go to the URL on the top of the browser. The proposal ID is at the end of the URL.
2. Replace the proposal ID with another proposal ID and press enter. Bid tabulations for the other proposal are shown.
 - a. If the proposal has not been awarded, a message page will open stating that bid tabulations are not available for this proposal.
3. Review and/or download the bid tabulations of the other proposal.
4. Repeat as necessary.

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Tips and Tricks

Find a Proposal ID with any Project or Structure ID

Sometimes the project or structure IDs are known, but the Proposal ID is not and is needed. Some items have the project or structure ID as part of the supplemental description, and these items are in nearly all projects. The supplemental description is merged with the item description in Bid Express' Item Description. [Find Proposal and Bidding Information, Using Structure IDs](#) and [Find Proposal and Project ID Information, Using Structure IDs](#) are more in-depth and may be needed if these quick steps do not yield the desired results using structure IDs. It is assumed you have already read through [Looking Up Bid History](#), as most of the steps are similar.

1. Go to the Bid Tab Analysis.
2. Enter the entire or a portion of the project or structure ID in the Description Field. Be sure to include a broad date range, especially if you do not know when the project or structure was let.
3. Select Search.
4. Expand all search results.
5. Select or note the relevant proposal ID(s).
6. Otherwise if necessary, repeat the search with broader date ranges or smaller portions of the IDs.

Find Proposal and Bidding Information, Using Structure IDs

When trying to find projects with similar structure work, the [Highway Structures Information \(HSI\) Application](#) can be used. It is linked in the [Highway Structures information System Webpage](#).

The following is helpful when entering structure numbers, they begin with the following letters based on structure type: B, C, P, S, L, R, N, or M ([WisDOT Bridge Manual 2.5 Structure Numbers](#)). The beginning letter is the structure type designation.

The structure type designation is then followed by a [two-digit county number](#), a unique four-digit structure number, and in some cases a unit number. Note: leading zeroes may be omitted from the structure number (i.e. B-5-70).

Instructions

1. In HSI, enter a partial or complete structure number then search.
 - a. Under "General Inventory" select File followed by the most recent year folder
 - b. Select the most recent file that ends with "_pln_let.pdf"

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HSI · B-18-210

home go B-18-210

B-18-210 HOBBS RD over IH 94

General Inventory

Identification Location Map **File** Program Manager Construction Maintenance

3 files

	Name	Size	Last Modified	backups
<input type="checkbox"/>	2018		2020-05-14 18:17	
<input type="checkbox"/>	Inspection		2020-11-13 10:09	+
<input type="checkbox"/>	B180210_InspectionCoverPhoto.jpg	199.1KiB	2018-11-21 08:56	

home go B-18-210

B-18-210 HOBBS RD over IH 94

General Inventory

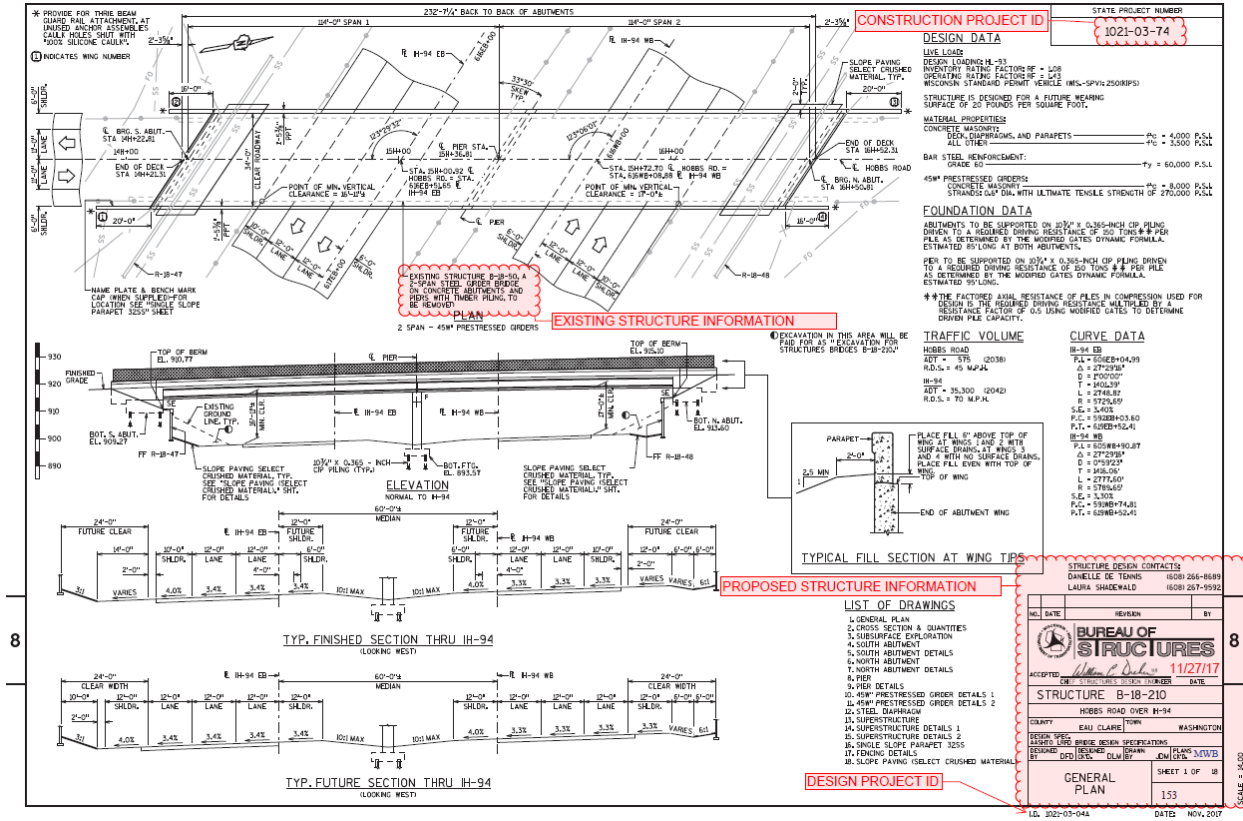
Identification Location Map **File** Program Manager Construction

6 files b18-210\2018

	Name	Size	Last Modified
<input type="checkbox"/>	designdata		2020-05-14 18:17
<input type="checkbox"/>	shop		2020-05-14 18:17
<input type="checkbox"/>	B-18-210_pln_let.pdf	1.6MiB	2018-03-09 16:25
<input type="checkbox"/>	B-18-210_pln_REVISSED_SHEETS_01.pdf	630.5KiB	2018-05-17 10:52
<input type="checkbox"/>	B-18-210_pln_REVISSED_SHEETS_02.pdf	1.4MiB	2018-07-27 13:58
<input type="checkbox"/>	B-18-210_pln_REVISSED_SHEETS_03.pdf	715.7KiB	2018-08-01 11:57

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2. Plan sheets can now be viewed and examined for information about the structure:
 - a. Construction Project ID.
 - b. Existing structure information.
 - c. Proposed structure information.
 - d. Design Project ID.
 - e. Total Estimated Quantities.
 - f. Bid numbers and items used for structure.



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3. In Bid Tab Analysis search for the 203.0200 Removing Old Structure item such as with STA. 15H+37 in this example.
 - a. Enter item number.
 - b. Enter date range from January 1st to December 31st of the folder year above.
 - c. Enter supplemental description.
 - d. Select "Search"
 - e. If no results are available, try one or more of the following:
 - i. For the date range, try adjusting it a year or two.
 - ii. For the description, add additional criteria.
 - f. Select "Search" again.

The above file was in the 2018 folder, so a date range of 01/01/2018 – 12/31/2018 was used. There may be cases where the folder date doesn't match up with the letting year, in this case try 01/01/2017 – 12/31/2019.

Entered "203.0200"

Entered "15H+37", as shown in the table and there were no results. Then added ", 15'H'+37" and below are the results.

Item	Description	Average	High	Low	Unit	Bid Count
203.0200	Removing Old Structure (station) 01. 15'H'+37	\$200,500.00	\$245,000.00	\$156,000.00	LS	2 Bids

- g. Expand all relevant search results.

Proposal Number

If you may need to look up additional bid items for this project, feel free to choose an export option.

Item	Description	Average	High	Low	Unit	Bid Count
203.0200	Removing Old Structure (station) 01. 15'H'+37	\$200,500.00	\$245,000.00	\$156,000.00	LS	2 Bids

Letting Date	Proposal	County	Proposal Average	Proposal High	Proposal Low	Quantity	Proposal Bid Count
02/13/2018	032 - 20180213032	Eau Claire	\$200,500.00	\$245,000.00	\$156,000.00	1.00000 LS	2 Bids
						Total Quantity:	1.00000 LS

- h. Click on the proposal number.

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Bidders listed in order from winning to losing.

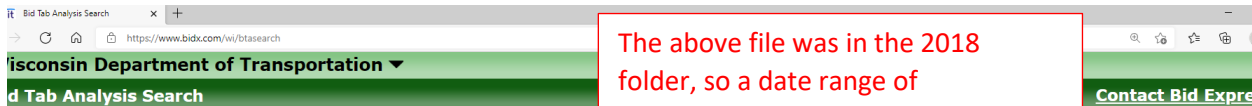
Bid Tabulations for Proposal 20180213032

Bidders	All	None	Bid Total	Deviation
<input checked="" type="checkbox"/>	LUNDA CONSTRUCTION COMPANY		\$3,885,375.52	\$0.00
<input checked="" type="checkbox"/>	ZENITH TECH., INC. - WAUKESHA		\$4,105,381.92	\$220,006.40

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

Line	Item	Alt	Description	Bidder Data				
Section 0001: Contract Items								
0002	201.0105		Clearing					
				Quantity	Unit Price	Extension	Deviation	
				LUNDA CONSTRUCTION COMPANY	38.000 STA	\$510.00	\$19,380.00	\$0.00
				ZENITH TECH., INC. - WAUKESHA	38.000 STA	\$510.00	\$19,380.00	\$0.00
0004	201.0205		Grubbing					
				Quantity	Unit Price	Extension	Deviation	
				LUNDA CONSTRUCTION COMPANY	38.000 STA	\$315.00	\$11,970.00	\$0.00
				ZENITH TECH., INC. - WAUKESHA	38.000 STA	\$315.00	\$11,970.00	\$0.00
0006	203.0100		Removing Small Pipe Culverts					
				Quantity	Unit Price	Extension	Deviation	
				LUNDA CONSTRUCTION COMPANY	10.000 EACH	\$150.00	\$1,500.00	\$0.00
				ZENITH TECH., INC. - WAUKESHA	10.000 EACH	\$150.00	\$1,500.00	\$0.00
0008	203.0200		Removing Old Structure (station) 01. 15'H+37'					
				Quantity	Unit Price	Extension	Deviation	
				LUNDA CONSTRUCTION COMPANY	1.000 LS	\$245,000.00	\$245,000.00	\$0.00
				ZENITH TECH., INC. - WAUKESHA	1.000 LS	\$156,000.00	\$156,000.00	-\$89,000.00

4. In Bid Tab Analysis search for the desired structure ID, such as B-18-50 in this example.
 - a. Enter date range from January 1st to December 31st of the folder year above.
 - b. Enter supplemental description in the description field.
 - i. Structure numbers begin with the following letters based on structure type: B, C, P, S, L, R, N, or M ([WisDOT Bridge Manual 2.5 Structure Numbers](#))
 - ii. The structure type designation is then followed by a [two-digit county number](#), a unique four-digit structure number, and in some cases a unit number. Note: leading zeroes may be omitted from the structure number (i.e. B-5-70). If no results show up for the description shown on the plan, try different combinations.
 - c. Select "Search"



The above file was in the 2018 folder, so a date range of 01/01/2018 – 12/31/2018 was used.

Bid Tab Analysis Search

Item: From: To:

Smart Item Search

Description: From: To:

Proposal Items: From: To:

County: From: To:

Unit: From: To:

Low Bidders:

Entered all possible variations of the structure number if limited results.

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

Item	Description	Average	High	Low	Unit	Bid Count
203.0210.S	Abatement of Asbestos Containing Material (structure) 01. B-18-50	\$3,050.00	\$3,100.00	\$3,000.00	LS	2 Bids

- d. Expand all relevant search results

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

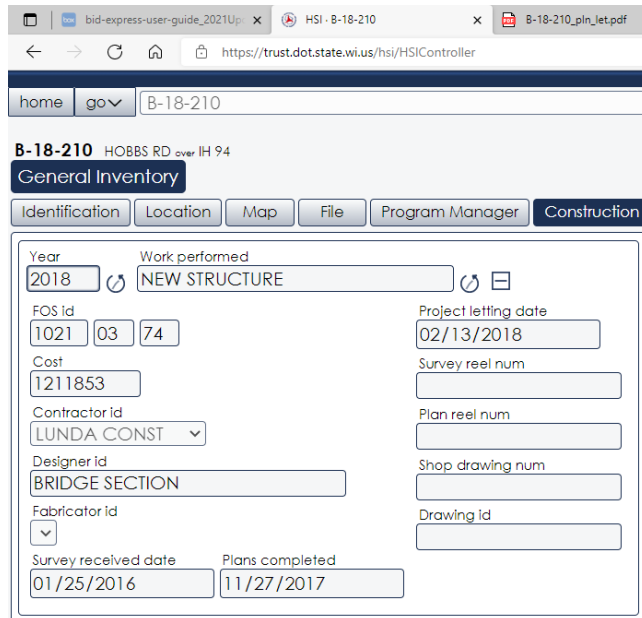
Item ▲	Description	Average	High	Low	Unit	Bid Count																								
- 203.0210.S	Abatement of Asbestos Containing Material (structure) 01. B-18-50	\$3,050.00	\$3,100.00	\$3,000.00	LS	2 Bids																								
	<table border="1"> <thead> <tr> <th>Letting Date</th> <th>Proposal</th> <th>County</th> <th>Proposal Average</th> <th>Proposal High</th> <th>Proposal Low</th> <th>Quantity</th> <th>Proposal Bid Count</th> </tr> </thead> <tbody> <tr> <td>02/13/2018</td> <td>032 - 20180213032</td> <td>Eau Claire</td> <td>\$3,050.00</td> <td>\$3,100.00</td> <td>\$3,000.00</td> <td>1.00000 LS</td> <td>2 Bids</td> </tr> <tr> <td colspan="6" style="text-align: right;">Total Quantity:</td> <td>1.00000 LS</td> <td></td> </tr> </tbody> </table>	Letting Date	Proposal	County	Proposal Average	Proposal High	Proposal Low	Quantity	Proposal Bid Count	02/13/2018	032 - 20180213032	Eau Claire	\$3,050.00	\$3,100.00	\$3,000.00	1.00000 LS	2 Bids	Total Quantity:						1.00000 LS						
Letting Date	Proposal	County	Proposal Average	Proposal High	Proposal Low	Quantity	Proposal Bid Count																							
02/13/2018	032 - 20180213032	Eau Claire	\$3,050.00	\$3,100.00	\$3,000.00	1.00000 LS	2 Bids																							
Total Quantity:						1.00000 LS																								

e. Click on the proposal number to view bidders as shown in step “3 h.” above.

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Find Proposal and Project ID Information, Using Structure IDs

1. In the [HSI Application](#), enter a partial or complete structure number, then search.
 - a. Under “General Inventory” select “Construction”



The screenshot shows a web browser window with the URL <https://trust.dot.state.wi.us/hsi/HSIController>. The page title is "B-18-210 HOBBS RD over IH 94". The "General Inventory" section is active, and the "Construction" tab is selected. The form contains the following data:

Year		Work performed	
2018		NEW STRUCTURE	
FOS id	1021 03 74	Project letting date	02/13/2018
Cost	1211853	Survey reel num	
Contractor id	LUNDA CONST	Plan reel num	
Designer id	BRIDGE SECTION	Shop drawing num	
Fabricator id		Drawing id	
Survey received date	01/25/2016	Plans completed	11/27/2017

- b. The FOS id is typically the Construction Project ID, the project letting date was 02/13/2018, so the Proposal Number would start with 20180213 followed by the Proposal number for that letting. Additional information is also provided for this structure.
2. In Bid Express enter the following:
 - a. Date range from January 1st to December 31st of the year above or more precisely the letting date.
 - b. The bid item numbers for Construction Staking Structure Layout, Item 650.6500 followed by the Special Provisions (SPV) Bid item for Lump Sum (LS), Item SPV.0105, as some projects have been assigned a Lump Sum survey item.
 - c. Supplemental descriptions for the bridge number include all possible combinations, and the Project ID.
 - d. Starting digits of the Proposal Number

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Bid Tab Analysis Search

Item: 650.6500, SPV.0105
 Smart Item Search

Description: B-18-210, B-18-0210, 1021-03-74
Proposal Items: 20180213
County: Any
Unit: Any
Low Bidders: Any

Date Range: From: 02/13/2018 To: 02/13/2018
Quantity Range: From: Any To: Any
Price Range: From: Any To: Any

Export (csv) | Export (tab)

Item	Description	Average	High	Low	Unit	Bid Count		
- SPV.0105	Special 01. Survey Project 1021-03-74	\$17,800.00	\$17,800.00	\$17,800.00	LS	2 Bids		
	Letting Date	Proposal	County	Proposal Average	Proposal High	Proposal Low	Quantity	Proposal Bid Count
	02/13/2018	032 - 20180213032	Eau Claire	\$17,800.00	\$17,800.00	\$17,800.00	1.00000 LS	2 Bids
							Total Quantity: 1.00000 LS	

Proposal Number

Assist Function in HSI to Find Similar Structures or Maintenance Work Performed

1. In HSI, select "assist" from the dropdown menu in the center of the screen and select or enter the following:
 - a. Feature on: IH
 - b. Type: Bridge(B)
 - c. Custodian: State Highway Dept(10)
 - d. Year built: 2017 – 2021

HSI - Home

> id or search criteria

assist

Region NC NE NW SE SW Office Eau Claire Green Bay La Crosse Madison Rhinelander Superior Waukesha	County Adams(01) Ashland(02) Barron(03) Bayfield(04) Brown(05) Buffalo(06) Burnett(07)	Municipality C-Abbotsford(10201) C-Abbotsford(37201) T-Abrams(42002) T-Ackley(34002) C-Adams(01201) T-Adams(01002) T-Adams(23002)	Type BRIDGE(B) CULVERT(C) HIGH MAST LIGHTING STRUCTURE(L) MISCELLANEOUS STRUCTURE(M) NO PLAN BRIDGE(P) RETAINING WALL(R) SIGN BRIDGE(S)	Custodian COUNTY-FOREST RD(31) COUNTY-RUSTIC RD(32) FEDERAL AGENCY(50) OTHER PRIVATE AGENCY(70) OTHER STATE AGENCY(20) RAILROAD(60) STATE - DNR(17) STATE HIGHWAY DEPT(10)
--	--	---	---	---

Feature on: IH
Feature under:
Near: _____ Miles 5

Year built: 2017 - 2021
Length (ft): _____
Other: _____

local state: Column Set Existing

- e. Select the "+" sign to reveal additional search criteria.

Designer FICKETT STRUCTURAL SOLUTIONS North East Region NORTHLAND CONSULTING ENGINEER TRUE NORTH STEEL ABNA ENGINEERING AECOM ALFRED BENESCH Skew angle: _____ Sufficiency: _____	Main span length (ft): _____ Span configuration DECK TRUSS FILLED ARCH FLAT SLAB FLAT VOIDED SLAB HAUNCHED SLAB HNCH VOIDED SLAB INVERTED T GIRDER LOW TRUSS Span material ALUMINUM CONCRETE CONT CONCRETE CONT PREST CONC CONT STEEL GALV STEEL MASONRY	Recommended inspection/ activity type Routine Routine - Culvert Routine - M Structure Routine - Noise Wall Routine - Retaining Wall Fracture Critical (arm's Length) In-Depth	Extended Criteria Criteria: _____ <input type="button" value="add"/>
---	--	---	---

Bid Express User Guide

- f. Span configuration: "Haunched Slab"
- g. Select "Search"

type:B,built:2017-2021,custodian:10,on:IH,spanconfiguration:01,

12 structures

Results can be sorted.

	mainspanconfig	custodian	built	type
download .csv	HAUNCHED SLAB	STATE HIGHWAY DEPT	2020	BRIDGE
map excel	HAUNCHED SLAB	STATE HIGHWAY DEPT	2020	BRIDGE
collection earth.kml	HAUNCHED SLAB	STATE HIGHWAY DEPT	2019	BRIDGE
column set gps.gpx	HAUNCHED SLAB	STATE HIGHWAY DEPT	2019	BRIDGE
checkboxes ✓	HAUNCHED SLAB	STATE HIGHWAY DEPT	2019	BRIDGE
<input type="checkbox"/> B-17-222	HAUNCHED SLAB	STATE HIGHWAY DEPT	2019	BRIDGE
<input type="checkbox"/> B-17-220	HAUNCHED SLAB	STATE HIGHWAY DEPT	2019	BRIDGE
<input type="checkbox"/> B-17-218	HAUNCHED SLAB	STATE HIGHWAY DEPT	2019	BRIDGE
<input type="checkbox"/> B-17-221	HAUNCHED SLAB	STATE HIGHWAY DEPT	2018	BRIDGE
<input type="checkbox"/> B-17-219	HAUNCHED SLAB	STATE HIGHWAY DEPT	2018	BRIDGE
<input type="checkbox"/> B-17-217	HAUNCHED SLAB	STATE HIGHWAY DEPT	2018	BRIDGE
<input type="checkbox"/> B-36-231	HAUNCHED SLAB	STATE HIGHWAY DEPT	2017	BRIDGE

- The results can then be saved to a collection, downloaded in an excel format, or individually selected to determine the project and proposal ID as mentioned previously.
- It should be noted that the Extended Criteria, criteria can be useful as you can add criteria such as "Work performed" will then give another dropdown menu and "NEW STRUCTURE" could be selected.

HSI - Home

https://trust.dot.state.wi.us/hsi/HSIController

restart gov type:B,built:2017-2021,custodian:10,on:IH,spanconfiguration:01,

assist

Region: NC, NE, NW, SE, SW, Office: Eau Claire, Green Bay, La Crosse, Madison, Rhinelander, Superior, Waukesha

County: Adams(01), Ashland(02), Barron(03), Bayfield(04), Brown(05), Buffalo(06), Burnett(07)

Municipality: C-Abbotsford(10201), C-Abbotsford(37201), T-Abrams(42002), T-Ackley(34002), C-Adams(01201), T-Adams(01002), T-Adams(23002)

Type: BRIDGE(B), CULVERT(C), HIGH MAST LIGHTING STRUCTURE(L), MISCELLANEOUS STRUCTURE(M), NO PLAN BRIDGE(P), RETAINING WALL(R), SIGN BRIDGE(S)

Custodian: COUNTY-FOREST RD(31), COUNTY-RUSTIC RD(32), FEDERAL AGENCY(50), OTHER PRIVATE AGENCY(70), OTHER STATE AGENCY(20), RAILROAD(60), STATE - DNR(17), STATE HIGHWAY DEPT(10)

Year built: 2017, 2021

Length (ft):

Other:

local state: Existing

Designer: FICKETT STRUCTURAL SOLUTIONS, North East Region, NORTHLAND CONSULTING ENGINEER, TRUE NORTH STEEL, ABNA ENGINEERING, AECOM, ALFRED BENESCH

Main span length (ft):

Span configuration: DECK GIRDER/FL SYS, DECK GIRDER, DECK GIRDER - PS WIDE, DECK TRUSS, FILLED ARCH, FLAT SLAB, FLAT VOIDED SLAB, HAUNCHED SLAB

Span material: ALUMINUM, CONCRETE, CONT CONCRETE, CONT PREST CONC, CONT STEEL, GALV STEEL, MASONRY

Recommended inspection / activity type: Routine, Routine - Culvert, Routine - M Structure, Routine - Noise Wall, Routine - Retaining Wall, Fracture Critical (arm's Length), In-Depth

Extended Criteria: Work performed: NEW DECK/WIDENING, NEW EXPANSION JOINTS, NEW JOINTS & BRGS, NEW RAILING, NEW STRUCTURE, NEW SUBSTRUCTURE, NEW SUPERSTRUCTURE, NOT BUILT

Criteria: delete, add

search reset

Bid Express User Guide

[Modifying the URL to Find Information on Additional Proposals](#)

The proposal ID or letting ID is commonly part of the URL for any webpage. You may directly enter a new proposal ID or letting in the URL and you will be sent to the same page for the new proposal or letting.

- Lettings Summary Pages
- Proposal Items Pages
 - The letting ID and proposal ID need to be changed.
- [Bid Tabulation Pages](#), which is previously shown in this guide.
- Bid Summary Pages
- Proposal Questions and Answers Pages
- Exporting CSVs
- And more.

Bid Express User Guide

Filter and Graph Bid Tab Analysis Results in Excel

A regression curve is created in Excel. Additional effort is required to use Excel to filter and graph Bid Tab Analysis results. This method is recommended for quantifiable significant items and is not worthwhile for non-significant items. The following items can be used:

- Quantifiable SPVs
- Similar quantifiable items such as varying depths of concrete pavement or similar culvert pipes.
- Similar quantifiable items with different units.
 - Excel is used to convert quantities and prices such as base aggregate dense in TONS and CY.

Instructions

An Excel Example file is available at the following location: <https://wisconsin.gov/Documents/doing-business/eng-consultants/cnslt-rsrcs/tools/estimating/bidx-example.xlsx>

1. In Bid Tab Analysis, use broad searches to quickly gather all data we need and use Excel to filter results.
 - a. Expand all relevant search results.
 - b. Highlight all text in search results from the headings down to the last relevant search result.
 - c. Hold Control and press C to copy this text to your clipboard.

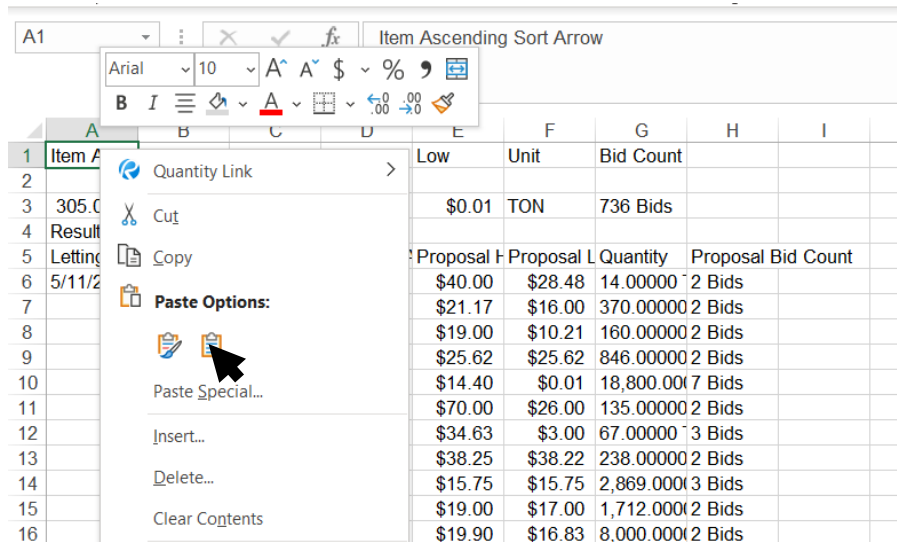
Export (csv) | Export (tab)

Item	Description	Average	High	Low	Unit	Bid Count
- 305.0120	Base Aggregate Dense 1 1/4-Inch	\$18.30	\$150.00	\$0.01	TON	808 Bids

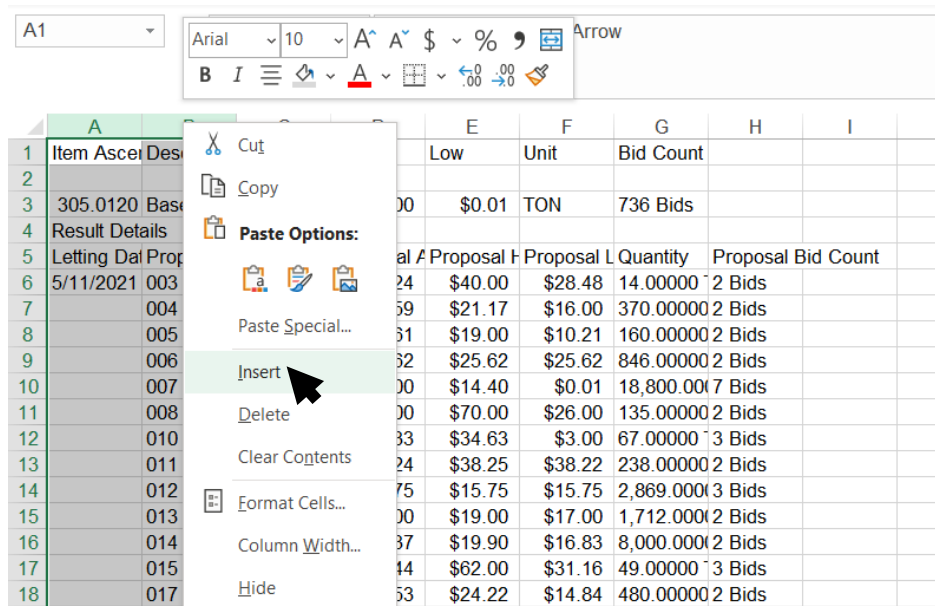
Letting Date	Proposal	County	Proposal Average	Proposal High	Proposal Low	Quantity	Proposal Bid Count
003 - 20210511003	Columbia		\$34.24	\$40.00	\$28.48	14.00000 TON	2 Bids
004 - 20210511004	Dane		\$18.59	\$21.17	\$16.00	370.00000 TON	2 Bids
005 - 20210511005	Jefferson		\$14.61	\$19.00	\$10.21	160.00000 TON	2 Bids
006 - 20210511006	La Crosse		\$25.62	\$25.62	\$25.62	846.00000 TON	2 Bids

Bid Express User Guide

2. Paste values in a new Excel file or tab.
 - a. Open a new Excel file or tab.
 - b. Right-click on Cell A1 and select the Match Destination Formatting Paste Option.
 - c. Now all the text you select has been moved to Excel. We will need a few more steps to get this into a usable format.



3. Insert two columns left of Column A.
 - a. Highlight Columns A & B as shown.
 - b. Right-click on the Column labels A or B and Select Insert.



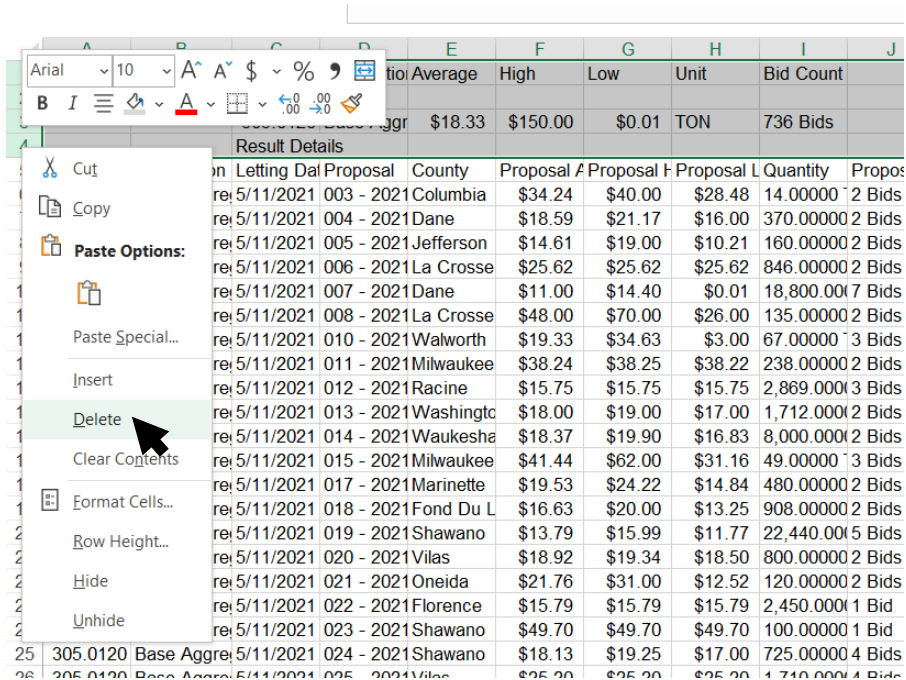
Bid Express User Guide

4. Enter Item and Description as column names in Row 5.
 - a. Then copy the item numbers and their descriptions to the relevant rows.
 - i. Be sure to copy the correct item numbers and description if there are results for multiple items.
 - b. If you want to filter by letting date, you will need to copy the letting dates to the empty letting date cells.
 - i. Only the first row containing a new letting date contains the letting date.
 - ii. Select the Letting Date Column for one letting for one item result from top to bottom.
 1. The first cell selected should contain the letting date, and the rest of the cells should be empty.
 - iii. Hold Control and press D to fill down the values.
 - iv. Repeat for each letting and each item.

	A	B	C	D	E	F	G	H	I	J	K
1			Item Asce	Description	Average	High	Low	Unit	Bid Count		
2											
3			305.0120	Base Aggr	\$18.33	\$150.00	\$0.01	TON	736 Bids		
4			Result Details								
5	Item	Description	Letting Date	Proposal	County	Proposal A	Proposal B	Proposal L	Quantity	Proposal	Bid Count
6	305.0120	Base Aggre	5/11/2021	003 - 2021	Columbia	\$34.24	\$40.00	\$28.48	14.00000	2 Bids	
7	305.0120	Base Aggre	ate Dense	004 - 2021	Dane	\$18.59	\$21.17	\$16.00	370.00000	2 Bids	
8	305.0120	Base Aggre	ate Dense	005 - 2021	Jefferson	\$14.61	\$19.00	\$10.21	160.00000	2 Bids	
9	305.0120	Base Aggre	ate Dense	006 - 2021	La Crosse	\$25.62	\$25.62	\$25.62	846.00000	2 Bids	
10	305.0120	Base Aggre	ate Dense	007 - 2021	Dane	\$11.00	\$14.40	\$0.01	18,800.000	7 Bids	
11	305.0120	Base Aggre	ate Dense	008 - 2021	La Crosse	\$48.00	\$70.00	\$26.00	135.00000	2 Bids	
12	305.0120	Base Aggre	ate Dense	010 - 2021	Walworth	\$19.33	\$34.63	\$3.00	67.00000	3 Bids	
13	305.0120	Base Aggre	ate Dense	011 - 2021	Milwaukee	\$38.24	\$38.25	\$38.22	238.00000	2 Bids	
14	305.0120	Base Aggre	ate Dense	012 - 2021	Racine	\$15.75	\$15.75	\$15.75	2,869.0000	3 Bids	
15	305.0120	Base Aggre	ate Dense	013 - 2021	Washingtc	\$18.00	\$19.00	\$17.00	1,712.0000	2 Bids	
16	305.0120	Base Aggre	ate Dense	014 - 2021	Waukesha	\$18.37	\$19.90	\$16.83	8,000.0000	2 Bids	
17	305.0120	Base Aggre	ate Dense	015 - 2021	Milwaukee	\$41.44	\$62.00	\$31.16	49.00000	3 Bids	
18	305.0120	Base Aggre	ate Dense	017 - 2021	Marinette	\$19.53	\$24.22	\$14.84	480.00000	2 Bids	
19	305.0120	Base Aggre	ate Dense	018 - 2021	Fond Du L	\$16.63	\$20.00	\$13.25	908.00000	2 Bids	
20	305.0120	Base Aggre	ate Dense	019 - 2021	Shawano	\$13.79	\$15.99	\$11.77	22,440.000	5 Bids	
21	305.0120	Base Aggre	ate Dense	020 - 2021	Vilas	\$18.92	\$19.34	\$18.50	800.00000	2 Bids	
22	305.0120	Base Aggre	ate Dense	021 - 2021	Oneida	\$21.76	\$31.00	\$12.52	120.00000	2 Bids	
23	305.0120	Base Aggre	ate Dense	022 - 2021	Florence	\$15.79	\$15.79	\$15.79	2,450.0000	1 Bid	
24	305.0120	Base Aggre	ate Dense	023 - 2021	Shawano	\$49.70	\$49.70	\$49.70	100.00000	1 Bid	
25	305.0120	Base Aggre	ate Dense	024 - 2021	Shawano	\$18.13	\$19.25	\$17.00	725.00000	4 Bids	
26	305.0120	Base Aggre	ate Dense	025 - 2021	Vilas	\$25.20	\$25.20	\$25.20	1,710.0000	4 Bids	
27	305.0120	Base Aggre	ate Dense	026 - 2021	Vilas	\$20.04	\$21.00	\$19.07	15,930.000	2 Bids	
28	305.0120	Base Aggre	ate Dense	027 - 2021	Buffalo Tre	\$13.74	\$14.50	\$11.44	27,900.000	4 Bids	
29	305.0120	Base Aggre	ate Dense	028 - 2021	Barron	\$27.56	\$48.00	\$17.30	370.00000	5 Bids	
30	305.0120	Base Aggre	ate Dense	035 - 2021	Oconto	\$15.00	\$15.00	\$15.00	1,510.0000	1 Bid	
31	305.0120	Base Aggre	ate Dense	036 - 2021	Lincoln	\$19.50	\$19.50	\$19.50	82.00000	3 Bids	
32	305.0120	Base Aggre	ate Dense	037 - 2021	Forest	\$21.59	\$21.59	\$21.59	530.00000	1 Bid	
33	305.0120	Base Aggre	ate Dense	038 - 2021	Pierce	\$16.90	\$16.90	\$16.90	18,770.000	1 Bid	
34	305.0120	Base Aggre	4/13/2021	001 - 2021	Jefferson	\$15.76	\$19.00	\$12.51	6,699.0000	2 Bids	

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5. When you are done copying over the item numbers and item descriptions, delete the unnecessary rows and adjust column widths.
 - a. If there are multiple items, be sure to remove the unnecessary rows between the item results.

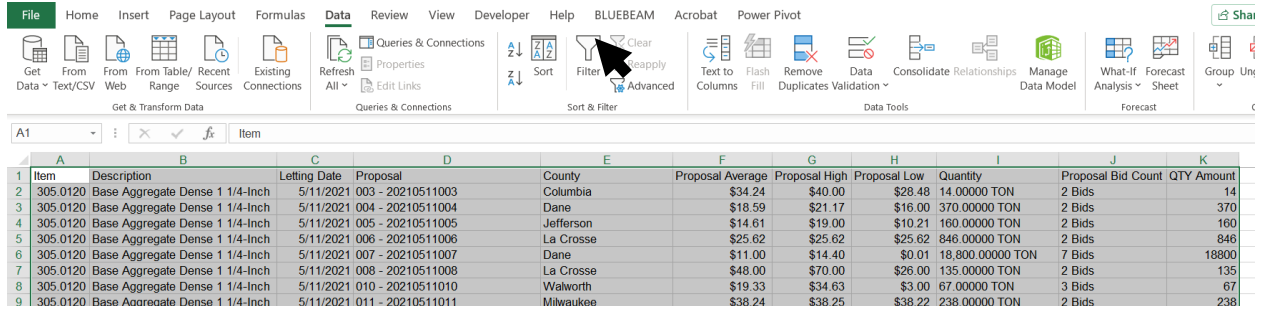


6. Create a numeric quantity column.
 - a. Proposal Average and Quantity needs to be graphed. Quantity needs to be a number and not text.
 - b. Create a new column that contains the numerical value from Quantity.
 - i. We will be using the Find Function inside the Left Function. This full function example is on the top of the screen.
 1. The LEFT function returns the first characters in a text string, based on the number of characters you specify. In this example, we want everything past two decimal places and not the unit.
 2. The decimal's location varies for each project, which is why we are using the Find Function. The FIND function locates specified text within a text string and returns the number characters from the starting position. We are finding how many characters there are until the decimal is found.
 3. The "+ 2" indicates the number of characters we want after the decimal.
 4. Multiplying the entire function by 1 causes Excel to register these values as a number instead of text.

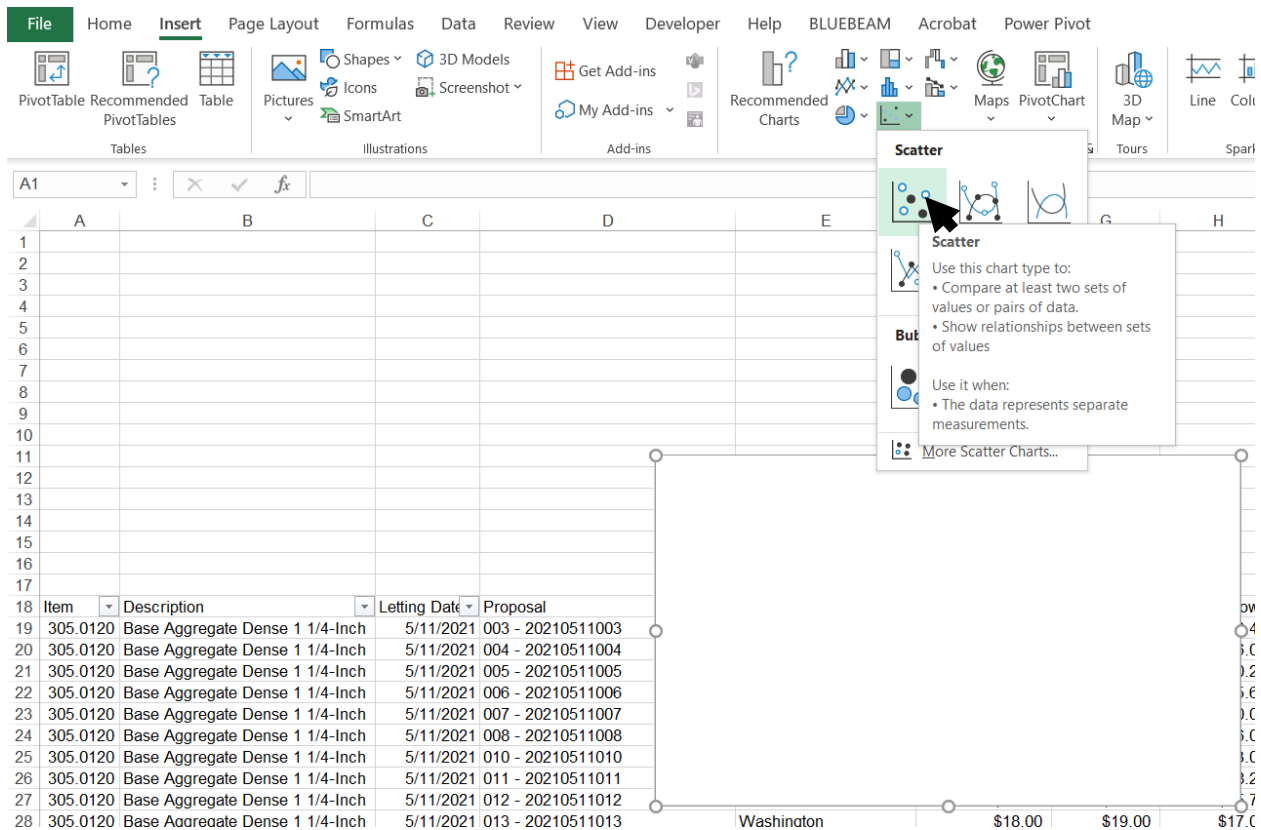
=LEFT(I2,FIND(".",I2)+2)*1	
J	K
Proposal Bid Count	QTY Amount
2 Bids	14
370 Bids	370

Bid Express User Guide

7. Add a filter to the data.
 - a. Highlight all the data in columns A through K.
 - b. Select Filter in the Data Ribbon.

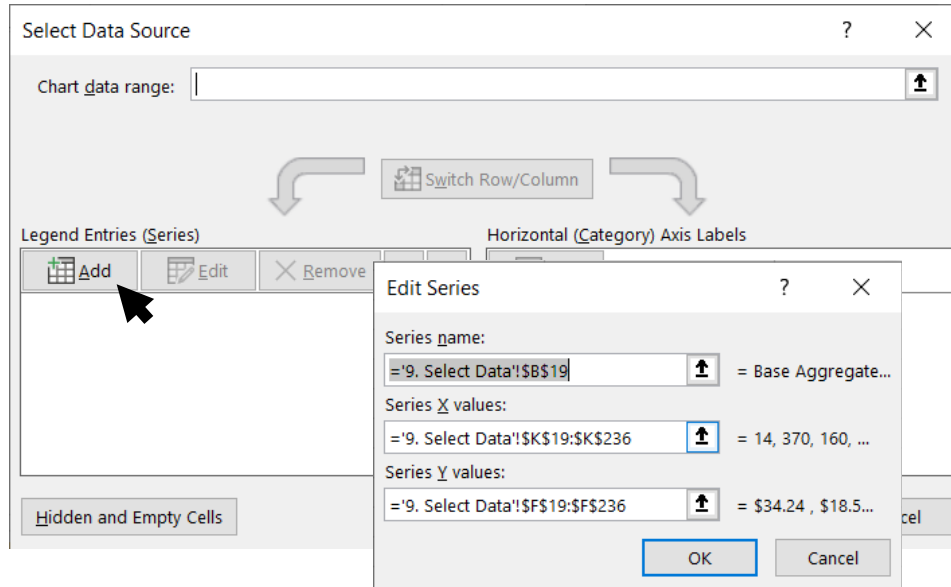


8. Now, insert a graph.
 - a. Insert 17 rows on top to make room for the regression graph.
 - b. Select an empty cell.
 - c. Insert an X-Y Scatterplot in the Insert Ribbon.
 - d. Move the X-Y Scatterplot to the top of the sheet.

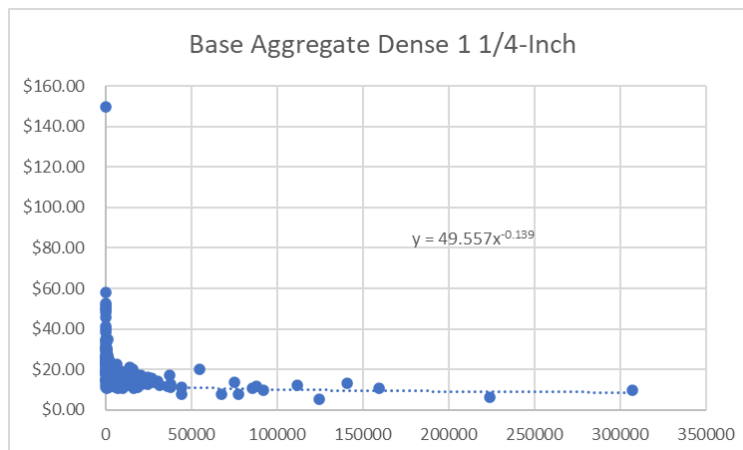


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9. Select the graph data.
 - a. Right-click on the chart and click on Select Data.
 - b. In the Select Data Source Window, Select Add
 - c. In the Edit Series Window, add the series name, X and Y values.
 - i. For Series Name, select one of the cells with the item description.
 1. The X-values should be all the numerical quantities.
 2. The Y-values should be the proposal averages.



10. Now, add a trendline by clicking on the chart data, right-click and select Add Trendline.
 - a. In the Trendline Options, select a power trendline and select display equation on chart.
11. Use the graph and filters.
 - a. When you're done, the graph should look like the one shown here. The graph automatically updates when you adjust your filters. Using these filters, you may:
 - i. Show only nearby counties.
 - ii. Remove high or low quantities.
 - iii. Selecting specific proposals.
 - b. If there are less than 20 to 30 projects filtered, the trendline will be less reliable.



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Conversion Example

Items of different units may be converted in bid results with multiple items, and Excel may be used in the conversion. Links to quantity conversions is in [FDM 19-5 Attachment 3.1 Quantity Reference Table](#).

- A simple way to verify conversions are done correctly is to ensure the amount spent on the item, unit price times quantity, is the same before and after the conversion.
- Ensure the converted quantities and unit prices are selected in the graph.

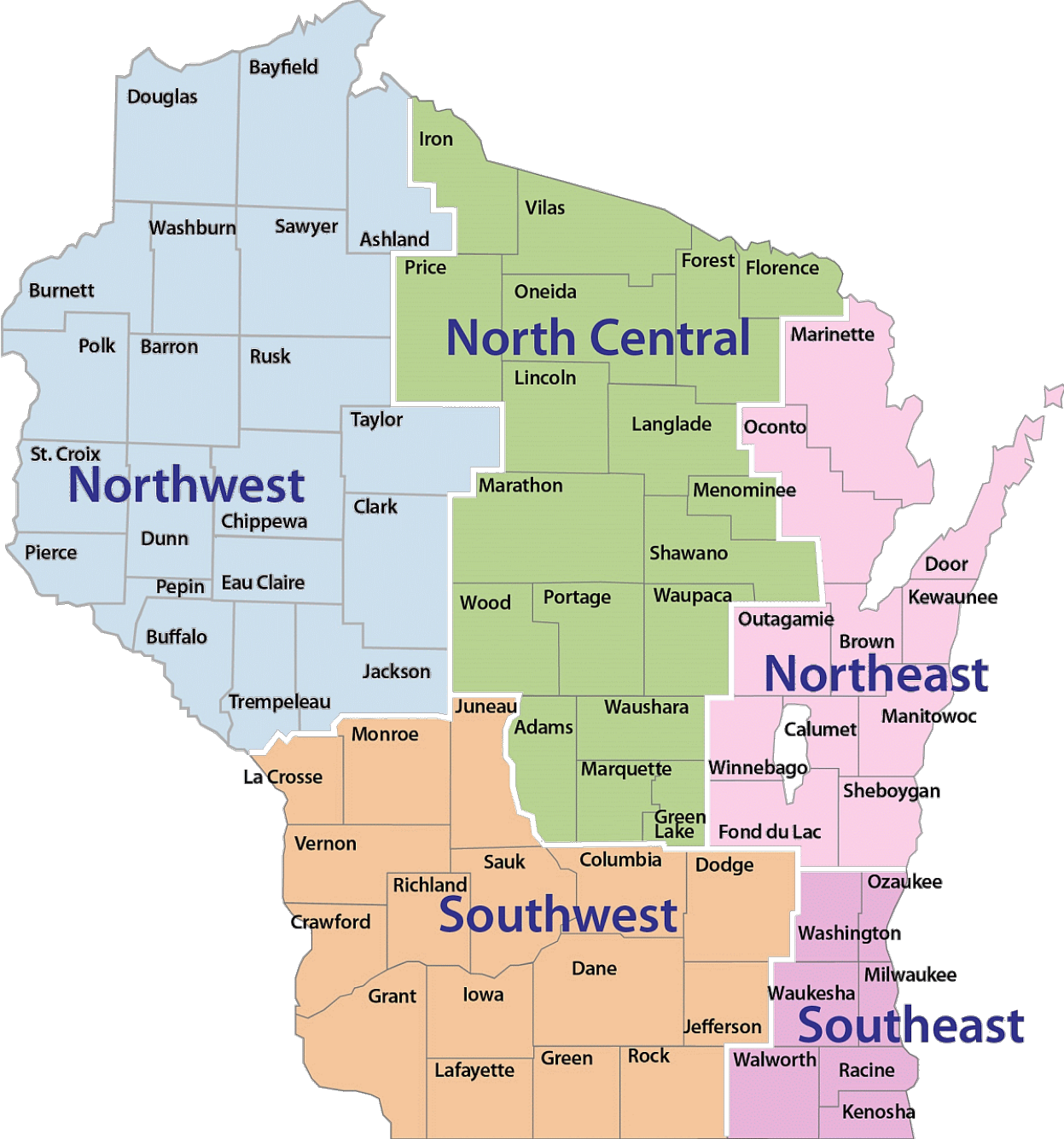
The [Bid Express Excel Example](#) contains a conversion example in the Conversion Example Sheet.

Columns L, M and N contain the conversion factor, converted proposal average and converted quantity. In this example, the project is using CY for Base Aggregate Dense 1 ¼-Inch. Most bid history for this item is in TONS, so it needs to be converted from TONS to CY.

- A RIGHT function in an IF function is used for the conversion factor.
 - The RIGHT function figures out the last two characters of Column I to find the item's unit in the Quantity Column.
 - The IF shows a conversion factor of 1 if CY is the unit or shows a conversion factor of 2 if CY is not the unit.

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Appendix 1: County and Region Map



Bid Express User Guide

Appendix 2: County and Region Codes

<u>REGION</u>	<u>TITLE</u>	<u>CODE</u>	<u>REGION</u>	<u>TITLE</u>	<u>CODE</u>
SW	SW RgnWide	81	NC	Adams*	1
SE	SE RgnWide	82		Florence	19
NE	NE RgnWide	83		Forest	21
NC	NC RgnWide	84		Green Lake	24
NW	NW RgnWide	85		Iron	26
				Langlade	34
SW	Columbia	11		Lincoln	35
	Crawford	12		Marathon	37
	Dane	13		Marquette	39
	Dodge	14		Menominee	73
	Grant	22		Oneida	43
	Green	23		Portage	49
	Iowa	25		Price	50
	Jefferson	28		Shawano	58
	Juneau	29		Vilas	63
	La Crosse	32		Waupaca	68
	Lafayette	33		Waushara	69
	Monroe	41		Wood	71
	Richland	52			
	Rock	53	NW	Ashland*	2
	Sauk	56		Barron*	3
	Vernon	62		Bayfield*	4
				Buffalo*	6
SE	Kenosha	30		Burnett*	7
	Milwaukee	40		Chippewa*	9
	Ozaukee	45		Clark	10
	Racine	51		Douglas	16
	Walworth	64		Dunn	17
	Washington	66		Eau Claire	18
	Waukesha	67		Jackson	27
				Pepin	46
NE	Brown*	5		Pierce	47
	Calumet*	8		Polk	48
	Door	15		Rusk	54
	Fond du Lac	20		Sawyer	57
	Kewaunee	31		St. Croix**	55
	Manitowoc	36		Taylor	60
	Marinette	38		Trempealeau	61
	Oconto	42		Washburn	65
	Outagamie	44			
	Sheboygan	59			
	Winnebago	70			

* When entering counties that have a single digit code, add a "-" after the single digit, try also prefixing them with "0". Ex: B-2-, B-02, etc.

** When entering St. Croix, try entering it as "St Croix".

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Appendix 3: Bid Express Help Sheet All Regions Listed

Southwest Region Counties

Columbia, Crawford, Dane, Dodge, Grant, Green, Iowa, Jefferson, Juneau, La Crosse, Lafayette, Monroe, Richland, Rock, Sauk, Vernon

County Codes:

11, 12, 13, 14, 22, 23, 25, 28, 29, 32, 33, 41, 52, 53, 56, 62, [81 \(Region Wide\)](#)

Bridge Structures:

B-11, B-12, B-13, B-14, B-22, B-23, B-25, B-28, B-29, B-32, B-33, B-41, B-52, B-53, B-56, B-62

Culvert Structures:

C-11, C-12, C-13, C-14, C-22, C-23, C-25, C-28, C-29, C-32, C-33, C-41, C-52, C-53, C-56, C-62

Southeast Region Counties

Kenosha, Milwaukee, Ozaukee, Racine, Walworth, Washington, Waukesha

County Codes:

30, 40, 45, 51, 64, 66, 67, [82 \(Region Wide\)](#)

Bridge Structures:

B-30, B-40, B-45, B-51, B-64, B-66, B-67

Culvert Structures:

C-30, C-40, C-45, C-51, C-64, C-66, C-67

Northeast Region Counties

Brown, Calumet, Door, Fond du Lac, Kewaunee, Manitowoc, Marinette, Oconto, Outagamie, Sheboygan, Winnebago

County Codes:

5, 8, 15, 20, 31, 36, 38, 42, 44, 59, 70, [83 \(Region Wide\)](#)

Bridge Structures:

B-5-, B-05, B-8-, B-08, B-15, B-20, B-31, B-36, B-38, B-42, B-44, B-59, B-70

Culvert Structures:

C-5-, C-05, C-8-, C-08, C-15, C-20, C-31, C-36, C-38, C-42, C-44, C-59, C-70

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North Central Region Counties

Adams, Florence, Forest, Green Lake, Iron, Langlade, Lincoln, Marathon, Marquette, Menominee, Oneida, Portage, Price, Shawano, Vilas, Waupaca, Waushara, Wood

County Codes:

1, 19, 21, 24, 26, 34, 35, 37, 39, 73, 43, 49, 50, 58, 63, 68, 69, 71, [84 \(Region Wide\)](#)

Bridge Structures:

B-1-, B-01, B-19, B-21, B-24, B-26, B-34, B-35, B-37, B-39, B-73, B-43, B-49, B-50, B-58, B-63, B-68, B-69, B-71

Culvert Structures:

C-1-, C-01, C-19, C-21, C-24, C-26, C-34, C-35, C-37, C-39, C-73, C-43, C-49, C-50, C-58, C-63, C-68, C-69, C-71

Northwest Region Counties

Ashland, Barron, Bayfield, Buffalo, Burnett, Chippewa, Clark, Douglas, Dunn, Eau Claire, Jackson, Pepin, Pierce, Polk, Rusk, Sawyer, St Croix, Taylor, Trempealeau, Washburn

County Codes:

2, 3, 4, 6, 7, 9, 10, 16, 17, 18, 27, 46, 47, 48, 54, 57, 55, 60, 61, 65, 85 (Region Wide)

Bridge Structures:

B-2-, B-02, B-3-, B-03, B-4-, B-04, B-6-, B-06, B-7-, B-07, B-9-, B-09, B-10, B-16, B-17, B-18, B-27, B-46, B-47, B-48, B-54, B-57, B-55, B-60, B-61, B-65

Culvert Structures:

C-2-, C-02, C-3-, C-03, C-4-, C-04, C-6-, C-06, C-7-, C-07, C-9-, C-09, C-10, C-16, C-17, C-18, C-27, C-46, C-47, C-48, C-54, C-57, C-55, C-60, C-61, C-65

Region Wide

SW, SE, NE, NC, NW

County Codes:

81, 82, 83, 84, 85

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EXAMPLE BREAK DOWNS FOR NORTHWEST REGION

Eau Claire Office Counties on IH 94

St Croix, Dunn, Eau Claire, Trempealeau, Jackson

County Codes:

55, 17, 18, 61, 27

Bridge Structures:

B-55, B-17, B-18, B-61, B-27

Culvert Structures:

C-55, C-17, C-18, C-61, C-27

Eau Claire Office Counties

St Croix, Dunn, Chippewa, Taylor, Pierce, Pepin, Eau Claire, Clark, Buffalo, Trempealeau, Jackson

County Codes:

55, 17, 9, 60, 47, 46, 18, 10, 6, 61, 27

Bridge Structures:

B-55, B-17, B-9-, B-09, B-60, B-47, B-46, B-18, B-10, B-6-, B-06, B-61, B-27

Culvert Structures:

C-55, C-17, C-9-, C-09, C-60, C-47, C-46, C-18, C-10, C-6-, C-06, C-61, C-27

Superior Office Counties

Ashland, Barron, Bayfield, Burnett, Douglas, Polk, Rusk, Sawyer, Washburn

County Codes:

2, 3, 4, 7, 16, 48, 54, 57, 65

Bridge Structures:

B-2-, B-02, B-3-, B-03, B-4-, B-04, B-7-, B-07, B-16, B-48, B-54, B-57, B-65

Culvert Structures:

C-2-, C-02, C-3-, C-03, C-4-, C-04, C-7-, C-07, C-16, C-48, C-54, C-57, C-65