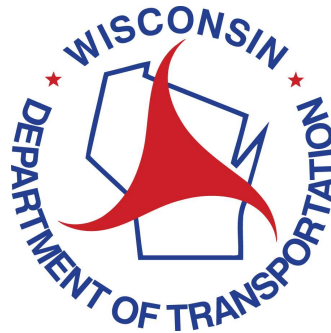




**Wisconsin Department of Transportation  
Detail Cost Estimate**

**Project ID:** 9200-10-72

**Project Description:** Shawano - Green Bay, CTH VV Interchange  
Broadband

**Spec Book:** 03

**Date Printed:** 1/24/2020

**Federal Project Number:** WISC

**State Project Number:** 9200-10-72



## Detail Estimate Cost Summary

Page 1 of 1

Project ID: 9200-10-72

Project Description: Shawano - Green Bay, CTH VV Interchange Broadband

| Fund Package             |      |                 | Total Fund Package Cost | E&C Amount   | Total          | Funding Limit | Funding        |
|--------------------------|------|-----------------|-------------------------|--------------|----------------|---------------|----------------|
| Fund                     | CNTY | Brown County    |                         |              |                |               |                |
| Package                  | 0010 |                 | 461,495.63              | 54,271.89    | 515,767.52     |               | 515,767.52     |
| Fund                     | CNTY | Totals          | \$461,495.63            | \$54,271.89  | \$515,767.52   |               | \$515,767.52   |
| Fund                     | FED  | Federal Funding |                         |              |                |               |                |
| Package                  | 0010 |                 | 1,129,868.62            | 132,872.55   | 1,262,741.17   |               | 1,262,741.17   |
| Fund                     | FED  | Totals          | \$1,129,868.62          | \$132,872.55 | \$1,262,741.17 |               | \$1,262,741.17 |
| Project Total 9200-10-72 |      |                 | \$1,591,364.25          | \$187,144.44 | \$1,778,508.69 |               | \$1,778,508.69 |



## Detail Cost Estimate

Project ID: 9200-10-72

Federal Project No.: WISC

Project Description: Shawano - Green Bay, CTH VV Interchange Broadband

Category: 0010

Roadway Items

Funding Source(s) and Participation:

1 CNTY Brown County  
1 FED Federal Funding

29.00%

0.00

71.00%

0.00

Category Work Class: UTIL

Utilities

Fed Work Category: 43

Utilities

Category Length: 0.0000 MILES

Fed Construction Class: LET

Let Project Items

Category Width: 0.0000 FEET

| Line No. | Item Number | Item Description                                                                                                     | Units | Estimated Qty | Unit Price      | Amount     |
|----------|-------------|----------------------------------------------------------------------------------------------------------------------|-------|---------------|-----------------|------------|
| 0002     | 619.1000    | Mobilization                                                                                                         | EACH  | 0.100         | 1,718,000.00000 | 171,800.00 |
| 0004     | 642.5401    | Field Office Type D                                                                                                  | EACH  | 0.200         | 25,000.00000    | 5,000.00   |
| 0006     | 652.0125    | Conduit Rigid Metallic 2-Inch                                                                                        | LF    | 20.000        | 35.00000        | 700.00     |
| 0008     | 652.0225    | Conduit Rigid Nonmetallic Schedule 40 2-Inch                                                                         | LF    | 445.000       | 5.00000         | 2,225.00   |
| 0010     | 652.0605    | Conduit Special 2-Inch                                                                                               | LF    | 95.000        | 15.00000        | 1,425.00   |
| 0012     | 652.0700.S  | Install Conduit into Existing Item                                                                                   | EACH  | 2.000         | 200.00000       | 400.00     |
| 0014     | 653.0140    | Pull Boxes Steel 24x42-Inch                                                                                          | EACH  | 2.000         | 800.00000       | 1,600.00   |
| 0016     | 654.1150    | Concrete Bases Camera Pole 50-FT                                                                                     | EACH  | 1.000         | 3,250.00000     | 3,250.00   |
| 0018     | 655.0515    | Electrical Wire Traffic Signals 10 AWG                                                                               | LF    | 755.000       | 1.00000         | 755.00     |
| 0020     | 655.0525    | Electrical Wire Traffic Signals 6 AWG                                                                                | LF    | 330.000       | 1.25000         | 412.50     |
| 0022     | 656.0500    | Electrical Service Breaker Disconnect Box (location) 01.<br>Electrical Service Breaker Disconnect Box (CCTV-05-0113) | LS    | 1.000         | 1,000.00000     | 1,000.00   |
| 0024     | 670.0100    | Field System Integrator                                                                                              | LS    | 1.000         | 5,000.00000     | 5,000.00   |
| 0026     | 670.0200    | ITS Documentation                                                                                                    | LS    | 1.000         | 1,500.00000     | 1,500.00   |
| 0028     | 673.0200    | Tracer Wire Marker Posts                                                                                             | EACH  | 3.000         | 500.00000       | 1,500.00   |
| 0030     | 673.0225.S  | Install Pole Mounted Cabinet                                                                                         | EACH  | 1.000         | 1,250.00000     | 1,250.00   |
| 0032     | 677.0150    | Install Camera Pole 50-FT                                                                                            | EACH  | 1.000         | 3,000.00000     | 3,000.00   |
| 0034     | 677.0200    | Install Camera Assembly                                                                                              | EACH  | 1.000         | 3,250.00000     | 3,250.00   |
| 0036     | 678.0012    | Install Fiber Optic Cable Outdoor Plant 12-CT                                                                        | LF    | 935.000       | 1.50000         | 1,402.50   |
| 0038     | 678.0300    | Fiber Optic Splice                                                                                                   | EACH  | 16.000        | 125.00000       | 2,000.00   |
| 0040     | 678.0400    | Fiber Optic Termination                                                                                              | EACH  | 12.000        | 125.00000       | 1,500.00   |
| 0042     | 678.0500    | Communication System Testing                                                                                         | LS    | 1.000         | 2,500.00000     | 2,500.00   |
| 0044     | 678.0600    | Install Ethernet Switches                                                                                            | EACH  | 1.000         | 500.00000       | 500.00     |
| 0046     | SPV.0060    | Special 20. Cable Splice                                                                                             | EACH  | 10.000        | 2,350.00000     | 23,500.00  |
| 0048     | SPV.0060    | Special 21. Handhole                                                                                                 | EACH  | 44.000        | 2,575.00000     | 113,300.00 |



## Detail Cost Estimate

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Project ID: 9200-10-72

Federal Project No.: WISC

Project Description: Shawano - Green Bay, CTH VV Interchange Broadband

Category: 0010

Roadway Items

| Line No. | Item Number | Item Description                                                | Units | Estimated Qty | Unit Price   | Amount     |
|----------|-------------|-----------------------------------------------------------------|-------|---------------|--------------|------------|
| 0050     | SPV.0060    | Special 22. Ground Rod                                          | EACH  | 1.000         | 125.00000    | 125.00     |
| 0052     | SPV.0090    | Special 20. HDPE Conduit 1.25-Inch and 2-Inch Directional Bored | LF    | 53,063.000    | 16.00000     | 849,008.00 |
| 0054     | SPV.0090    | Special 21. HDPE Conduit 1.25-Inch and 2-Inch Vibratory Plowed  | LF    | 11,676.000    | 9.25000      | 108,003.00 |
| 0056     | SPV.0090    | Special 22. 432 Strand Fiber Optic Cable                        | LF    | 47,964.000    | 4.25000      | 203,847.00 |
| 0058     | SPV.0090    | Special 23. 216 Strand Fiber Optic Cable                        | LF    | 24,275.000    | 2.95000      | 71,611.25  |
| 0060     | SPV.0105    | Special 20. Traffic Control Project 9200-10-72                  | LS    | 1.000         | 10,000.00000 | 10,000.00  |

Category 0010 Total: \$1,591,364.25

Eng &amp; Contg: \$187,144.44

Total: \$1,778,508.69

Project 9200-10-72 Total: \$1,591,364.25

Estimate Total: \$1,591,364.25

| Category | Cost          | E&C Percent | E&C Amount | Total        | Funding Package    |      | Fund            | Funding Amount            |
|----------|---------------|-------------|------------|--------------|--------------------|------|-----------------|---------------------------|
| 0010     | Roadway Items |             |            |              |                    |      |                 |                           |
|          | 1,591,364.25  | 11.76 %     | 187,144.44 | 1,778,508.69 | 0010               | FED  | Federal Funding | 1,262,741.17              |
|          |               |             |            |              | 0010               | CNTY | Brown County    | 515,767.52                |
|          |               |             |            |              | Total For Category |      |                 | \$1,778,508.69            |
|          |               |             |            |              | Project Total      |      |                 | 9200-10-72 \$1,778,508.69 |