

**State of New Hampshire  
Department of Transportation**

29335.03

**Project:** TILTON X-A004(023) 29335  
**County and Code:** BELKNAP COUNTY 001  
**Date Bids Open:** March 17, 2016  
**Scope of Work:** RECONSTRUCTING RAILWAY-HIGHWAY AT-GRADE  
CROSSING AND APPROACHES  
**Location:** ON US 3 NEAR CUMBERLAND FARMS AND THE  
WINNIPESAUKEE RIVER  
**Completion Date:** September 30, 2016

|   |              |
|---|--------------|
| A RAILWORKS TRAIL SERVICES INC<br>170 LOCKHOUSE ROAD WESTFIELD MA 01085 | \$443,298.00 |
| B MAINE TRACK MAINTENANCE INC<br>259 MAIN ST FAIRFIELD ME 04937         | \$559,155.00 |
| C J.P. SICARD, INC.<br>PO BOX 508 BARTON, VT 05822                      | \$628,969.00 |

| Item No: | Description  | Unit | Quantity  | A           |             | B           |             | C           |             |
|----------|--|------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|
|          |  |      |           | Unit Price  | Total       | Unit Price  | Total       | Unit Price  | Total       |
| 203.1    | COMMON EXCAVATION                                      | CY   | 230.00    | \$14.00     | \$3,220.00  | \$23.00     | \$5,290.00  | \$19.00     | \$4,370.00  |
| 203.72   | REHANDLING AND TRANSPORTATION OF EXCAVATED MATERIAL    | CY   | 230.00    | \$19.00     | \$4,370.00  | \$28.00     | \$6,440.00  | \$19.00     | \$4,370.00  |
| 206.19   | COMMON STRUCTURE EXCAVATION EXPLORATORY                | CY   | 5.00      | \$215.00    | \$1,075.00  | \$143.00    | \$715.00    | \$100.00    | \$500.00    |
| 209.4    | GRANULAR BACKFILL (GRAV)                               | CY   | 5.00      | \$348.00    | \$1,740.00  | \$77.00     | \$385.00    | \$62.00     | \$310.00    |
| 214      | FINE GRADING   | U    | 1.00      | \$2,580.00  | \$2,580.00  | \$3,000.00  | \$3,000.00  | \$3,000.00  | \$3,000.00  |
| 304.46   | RAILROAD BALLAST                                       | CY   | 230.00    | \$56.00     | \$12,880.00 | \$80.00     | \$18,400.00 | \$73.00     | \$16,790.00 |
| 403.1109 | HOT BITUMINOUS PAVEMENT, MACHINE METHOD, HIGH STRENGTH | TON  | 10.00     | \$352.00    | \$3,520.00  | \$330.00    | \$3,300.00  | \$345.00    | \$3,450.00  |
| 403.12   | HOT BITUMINOUS PAVEMENT, HAND METHOD                   | TON  | 15.00     | \$352.00    | \$5,280.00  | \$330.00    | \$4,950.00  | \$288.00    | \$4,320.00  |
| 403.6    | PAVEMENT JOINT ADHESIVE                                | LF   | 230.00    | \$9.00      | \$2,070.00  | \$9.00      | \$2,070.00  | \$3.00      | \$690.00    |
| 410.22   | ASPHALT EMULSION FOR TACK COAT                         | GAL  | 10.00     | \$6.00      | \$60.00     | \$6.00      | \$60.00     | \$100.00    | \$1,000.00  |
| 417      | COLD PLANING BITUMINOUS SURFACES                       | SY   | 120.00    | \$38.00     | \$4,560.00  | \$36.00     | \$4,320.00  | \$20.00     | \$2,400.00  |
| 593.213  | GEOTEXTILE; SEPARATION CL.1, SLIT FIL.,WOVEN           | SY   | 430.00    | \$5.00      | \$2,150.00  | \$5.00      | \$2,150.00  | \$2.00      | \$860.00    |
| 608.1201 | 2" BITUMINOUS SIDEWALK                                 | SY   | 30.00     | \$47.00     | \$1,410.00  | \$44.00     | \$1,320.00  | \$39.00     | \$1,170.00  |
| 608.26   | 6" CONCRETE SIDEWALK (F)                               | SY   | 12.00     | \$106.00    | \$1,272.00  | \$193.00    | \$2,316.00  | \$150.00    | \$1,800.00  |
| 608.54   | DETECTABLE WARNING DEVICES, CAST IRON                  | SY   | 3.00      | \$314.00    | \$942.00    | \$627.00    | \$1,881.00  | \$456.00    | \$1,368.00  |
| 609.811  | BITUMINOUS CURB, TYPE B (4" REVEAL)                    | LF   | 35.00     | \$14.00     | \$490.00    | \$14.00     | \$490.00    | \$81.00     | \$2,835.00  |
| 615.0301 | TRAFFIC SIGN TYPE C                                    | SF   | 42.00     | \$70.00     | \$2,940.00  | \$30.00     | \$1,260.00  | \$84.00     | \$3,528.00  |
| 618.61   | UNIFORMED OFFICERS WITH VEHICLE                        | \$   | 25,000.00 | \$1.00      | \$25,000.00 | \$1.00      | \$25,000.00 | \$1.00      | \$25,000.00 |
| 618.7    | FLAGGERS   | HR   | 200.00    | \$30.00     | \$6,000.00  | \$28.00     | \$5,600.00  | \$35.00     | \$7,000.00  |
| 619.1    | MAINTENANCE OF TRAFFIC                                 | U    | 1.00      | \$10,515.00 | \$10,515.00 | \$28,610.00 | \$28,610.00 | \$50,000.00 | \$50,000.00 |

| Item No: | Description  | Unit | Quantity | A            |              | B            |              | C            |              |
|----------|--|------|----------|--------------|--------------|--------------|--------------|--------------|--------------|
|          |  |      |          | Unit Price   | Total        | Unit Price   | Total        | Unit Price   | Total        |
| 619.25   | PORTABLE CHANGEABLE MESSAGE SIGN                             | U    | 2.00     | \$528.00     | \$1,056.00   | \$1,500.00   | \$3,000.00   | \$3,000.00   | \$6,000.00   |
| 628.2    | SAWED BITUMINOUS PAVEMENT                                    | LF   | 200.00   | \$4.00       | \$800.00     | \$14.00      | \$2,800.00   | \$1.00       | \$200.00     |
| 632.0104 | RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE                 | LF   | 400.00   | \$3.00       | \$1,200.00   | \$2.00       | \$800.00     | \$1.00       | \$400.00     |
| 632.0108 | RETROREFLECTIVE PAINT PAVE. MARKING, 8" LINE                 | LF   | 60.00    | \$4.00       | \$240.00     | \$3.00       | \$180.00     | \$2.00       | \$120.00     |
| 632.3124 | RETROREFLECT. THERMOPLAS. PAVE. MARKING, 24" LINE            | LF   | 75.00    | \$14.00      | \$1,050.00   | \$7.00       | \$525.00     | \$6.00       | \$450.00     |
| 632.32   | RETROREFLECT. THERMOPLAS. PAVEMENT MARKING, SYMBOL OR WORD   | SF   | 130.00   | \$11.00      | \$1,430.00   | \$11.00      | \$1,430.00   | \$8.00       | \$1,040.00   |
| 645.512  | COMPOST SOCK FOR PERIMETER BERM                              | LF   | 100.00   | \$30.00      | \$3,000.00   | \$4.00       | \$400.00     | \$5.00       | \$500.00     |
| 690.101  | RAILROAD SIGNAL SYSTEM                                       | U    | 1.00     | \$147,710.00 | \$147,710.00 | \$148,197.00 | \$148,197.00 | \$220,000.00 | \$220,000.00 |
| 690.21   | REMOVAL OF RAILROAD TRACK AND APPURTENANCES                  | TF   | 234.00   | \$34.00      | \$7,956.00   | \$298.00     | \$69,732.00  | \$130.00     | \$30,420.00  |
| 690.311  | 7" X 9" X 8'-6" CROSSTIES WITH APPURTENANCES                 | EA   | 106.00   | \$142.00     | \$15,052.00  | \$131.00     | \$13,886.00  | \$200.00     | \$21,200.00  |
| 690.312  | 7" X 9" X 9' CROSSTIES WITH APPURTENANCES                    | EA   | 20.00    | \$226.00     | \$4,520.00   | \$193.00     | \$3,860.00   | \$210.00     | \$4,200.00   |
| 690.322  | 7' -6" X 8' X 14" PRE-CAST CONCRETE PANEL WITH APPURTENANCES | U    | 6.00     | \$6,990.00   | \$41,940.00  | \$10,843.00  | \$65,058.00  | \$9,100.00   | \$54,600.00  |
| 690.411  | 115# RAIL, WELDED  | TF   | 156.00   | \$276.00     | \$43,056.00  | \$310.00     | \$48,360.00  | \$132.00     | \$20,592.00  |
| 690.412  | 115# RAIL, BOLTED  | TF   | 78.00    | \$75.00      | \$5,850.00   | \$137.00     | \$10,686.00  | \$124.00     | \$9,672.00   |
| 690.422  | 100# RAIL, BOLTED  | TF   | 78.00    | \$82.00      | \$6,396.00   | \$117.00     | \$9,126.00   | \$101.00     | \$7,878.00   |
| 690.5111 | COMPROMISE JOINT, 115# TO 100#                               | U    | 4.00     | \$862.00     | \$3,448.00   | \$743.00     | \$2,972.00   | \$1,000.00   | \$4,000.00   |
| 690.5112 | COMPROMISE JOINT, 100# TO 85#                                | U    | 4.00     | \$862.00     | \$3,448.00   | \$743.00     | \$2,972.00   | \$1,000.00   | \$4,000.00   |
| 690.5123 | INSULATED BOLTED JOINT, 115#                                 | U    | 4.00     | \$637.00     | \$2,548.00   | \$150.00     | \$600.00     | \$1,050.00   | \$4,200.00   |

| Item No: | Description  | Unit | Quantity | A           |              | B           |              | C           |              |
|----------|--|------|----------|-------------|--------------|-------------|--------------|-------------|--------------|
|          |  |      |          | Unit Price  | Total        | Unit Price  | Total        | Unit Price  | Total        |
| 690.52   | RAIL ANCHORS   | EA   | 504.00   | \$6.00      | \$3,024.00   | \$4.00      | \$2,016.00   | \$4.00      | \$2,016.00   |
| 690.5401 | REMOVE AND RESET<br>GUARDRAIL                              | TF   | 40.00    | \$65.00     | \$2,600.00   | \$60.00     | \$2,400.00   | \$58.00     | \$2,320.00   |
| 690.71   | TRACK ALIGNMENT  | TF   | 250.00   | \$16.00     | \$4,000.00   | \$97.00     | \$24,250.00  | \$64.00     | \$16,000.00  |
| 692      | MOBILIZATION   | U    | 1.00     | \$39,500.00 | \$39,500.00  | \$16,948.00 | \$16,948.00  | \$73,000.00 | \$73,000.00  |
| 699      | MISCELLANEOUS<br>TEMPORARY EROSION AND<br>SEDIMENT CONTROL | \$   | 7,000.00 | \$1.00      | \$7,000.00   | \$1.00      | \$7,000.00   | \$1.00      | \$7,000.00   |
| 1010.15  | FUEL ADJUSTMENT  | \$   | 4,400.00 | \$1.00      | \$4,400.00   | \$1.00      | \$4,400.00   | \$1.00      | \$4,400.00   |
|          |  |      |          |             | \$443,298.00 |             | \$559,155.00 |             | \$628,969.00 |

## A - PS&E Comparison

PS&E = NHDOT Cost Estimate

| Item No: | Description  | Unit | Quantity  | A-Bidder   |             | PS&E       |             | A-PS&E Difference |
|----------|--|------|-----------|------------|-------------|------------|-------------|-------------------|
|          |  |      |           | Unit Price | Total       | Unit Price | Total       |                   |
| 203.1    | COMMON EXCAVATION                                      | CY   | 230.00    | \$14.00    | \$3,220.00  | \$15.00    | \$3,450.00  | (\$230.00)        |
| 203.72   | REHANDLING AND TRANSPORTATION OF EXCAVATED MATERIAL    | CY   | 230.00    | \$19.00    | \$4,370.00  | \$25.00    | \$5,750.00  | (\$1,380.00)      |
| 206.19   | COMMON STRUCTURE EXCAVATION EXPLORATORY                | CY   | 5.00      | \$215.00   | \$1,075.00  | \$100.00   | \$500.00    | \$575.00          |
| 209.4    | GRANULAR BACKFILL (GRAV)                               | CY   | 5.00      | \$348.00   | \$1,740.00  | \$35.00    | \$175.00    | \$1,565.00        |
| 214      | FINE GRADING   | U    | 1.00      | \$2,580.00 | \$2,580.00  | \$5,000.00 | \$5,000.00  | (\$2,420.00)      |
| 304.46   | RAILROAD BALLAST                                       | CY   | 230.00    | \$56.00    | \$12,880.00 | \$35.00    | \$8,050.00  | \$4,830.00        |
| 403.1109 | HOT BITUMINOUS PAVEMENT, MACHINE METHOD, HIGH STRENGTH | TON  | 10.00     | \$352.00   | \$3,520.00  | \$200.00   | \$2,000.00  | \$1,520.00        |
| 403.12   | HOT BITUMINOUS PAVEMENT, HAND METHOD                   | TON  | 15.00     | \$352.00   | \$5,280.00  | \$300.00   | \$4,500.00  | \$780.00          |
| 403.6    | PAVEMENT JOINT ADHESIVE                                | LF   | 230.00    | \$9.00     | \$2,070.00  | \$2.00     | \$460.00    | \$1,610.00        |
| 410.22   | ASPHALT EMULSION FOR TACK COAT                         | GAL  | 10.00     | \$6.00     | \$60.00     | \$5.00     | \$50.00     | \$10.00           |
| 417      | COLD PLANING BITUMINOUS SURFACES                       | SY   | 120.00    | \$38.00    | \$4,560.00  | \$25.00    | \$3,000.00  | \$1,560.00        |
| 593.213  | GEOTEXTILE; SEPARATION CL.1, SLIT FIL.,WOVEN           | SY   | 430.00    | \$5.00     | \$2,150.00  | \$5.00     | \$2,150.00  | \$0.00            |
| 608.1201 | 2" BITUMINOUS SIDEWALK                                 | SY   | 30.00     | \$47.00    | \$1,410.00  | \$50.00    | \$1,500.00  | (\$90.00)         |
| 608.26   | 6" CONCRETE SIDEWALK (F)                               | SY   | 12.00     | \$106.00   | \$1,272.00  | \$125.00   | \$1,500.00  | (\$228.00)        |
| 608.54   | DETECTABLE WARNING DEVICES, CAST IRON                  | SY   | 3.00      | \$314.00   | \$942.00    | \$650.00   | \$1,950.00  | (\$1,008.00)      |
| 609.811  | BITUMINOUS CURB, TYPE B (4" REVEAL)                    | LF   | 35.00     | \$14.00    | \$490.00    | \$50.00    | \$1,750.00  | (\$1,260.00)      |
| 615.0301 | TRAFFIC SIGN TYPE C                                    | SF   | 42.00     | \$70.00    | \$2,940.00  | \$75.00    | \$3,150.00  | (\$210.00)        |
| 618.61   | UNIFORMED OFFICERS WITH VEHICLE                        | \$   | 25,000.00 | \$1.00     | \$25,000.00 | \$1.00     | \$25,000.00 | \$0.00            |
| 618.7    | FLAGGERS   | HR   | 200.00    | \$30.00    | \$6,000.00  | \$35.00    | \$7,000.00  | (\$1,000.00)      |

## A - PS&E Comparison

PS&E = NHDOT Cost Estimate

| Item No: | Description  | Unit | Quantity | A-Bidder     |              | PS&E         |              | A-PS&E Difference |
|----------|--|------|----------|--------------|--------------|--------------|--------------|-------------------|
|          |  |      |          | Unit Price   | Total        | Unit Price   | Total        |                   |
| 619.1    | MAINTENANCE OF TRAFFIC                                       | U    | 1.00     | \$10,515.00  | \$10,515.00  | \$30,000.00  | \$30,000.00  | (\$19,485.00)     |
| 619.25   | PORTABLE CHANGEABLE MESSAGE SIGN                             | U    | 2.00     | \$528.00     | \$1,056.00   | \$3,500.00   | \$7,000.00   | (\$5,944.00)      |
| 628.2    | SAWED BITUMINOUS PAVEMENT                                    | LF   | 200.00   | \$4.00       | \$800.00     | \$3.00       | \$600.00     | \$200.00          |
| 632.0104 | RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE                 | LF   | 400.00   | \$3.00       | \$1,200.00   | \$1.25       | \$500.00     | \$700.00          |
| 632.0108 | RETROREFLECTIVE PAINT PAVE. MARKING, 8" LINE                 | LF   | 60.00    | \$4.00       | \$240.00     | \$2.50       | \$150.00     | \$90.00           |
| 632.3124 | RETROREFLECT. THERMOPLAS. PAVE. MARKING, 24" LINE            | LF   | 75.00    | \$14.00      | \$1,050.00   | \$6.00       | \$450.00     | \$600.00          |
| 632.32   | RETROREFLECT. THERMOPLAS. PAVEMENT MARKING, SYMBOL OR WORD   | SF   | 130.00   | \$11.00      | \$1,430.00   | \$9.00       | \$1,170.00   | \$260.00          |
| 645.512  | COMPOST SOCK FOR PERIMETER BERM                              | LF   | 100.00   | \$30.00      | \$3,000.00   | \$5.00       | \$500.00     | \$2,500.00        |
| 690.101  | RAILROAD SIGNAL SYSTEM                                       | U    | 1.00     | \$147,710.00 | \$147,710.00 | \$150,000.00 | \$150,000.00 | (\$2,290.00)      |
| 690.21   | REMOVAL OF RAILROAD TRACK AND APPURTENANCES                  | TF   | 234.00   | \$34.00      | \$7,956.00   | \$39.00      | \$9,126.00   | (\$1,170.00)      |
| 690.311  | 7" X 9" X 8'-6" CROSSTIES WITH APPURTENANCES                 | EA   | 106.00   | \$142.00     | \$15,052.00  | \$140.00     | \$14,840.00  | \$212.00          |
| 690.312  | 7" X 9" X 9' CROSSTIES WITH APPURTENANCES                    | EA   | 20.00    | \$226.00     | \$4,520.00   | \$175.00     | \$3,500.00   | \$1,020.00        |
| 690.322  | 7' -6" X 8' X 14" PRE-CAST CONCRETE PANEL WITH APPURTENANCES | U    | 6.00     | \$6,990.00   | \$41,940.00  | \$11,000.00  | \$66,000.00  | (\$24,060.00)     |
| 690.411  | 115# RAIL, WELDED  | TF   | 156.00   | \$276.00     | \$43,056.00  | \$150.00     | \$23,400.00  | \$19,656.00       |
| 690.412  | 115# RAIL, BOLTED  | TF   | 78.00    | \$75.00      | \$5,850.00   | \$75.00      | \$5,850.00   | \$0.00            |
| 690.422  | 100# RAIL, BOLTED  | TF   | 78.00    | \$82.00      | \$6,396.00   | \$75.00      | \$5,850.00   | \$546.00          |
| 690.5111 | COMPROMISE JOINT, 115# TO 100#                               | U    | 4.00     | \$862.00     | \$3,448.00   | \$650.00     | \$2,600.00   | \$848.00          |
| 690.5112 | COMPROMISE JOINT, 100# TO 85#                                | U    | 4.00     | \$862.00     | \$3,448.00   | \$650.00     | \$2,600.00   | \$848.00          |

## A - PS&E Comparison

PS&E = NHDOT Cost Estimate

| Item No: | Description  | Unit | Quantity | A-Bidder    |              | PS&E        |              | A-PS&E Difference |
|----------|--|------|----------|-------------|--------------|-------------|--------------|-------------------|
|          |  |      |          | Unit Price  | Total        | Unit Price  | Total        |                   |
| 690.5123 | INSULATED BOLTED JOINT, 115#                         | U    | 4.00     | \$637.00    | \$2,548.00   | \$1,000.00  | \$4,000.00   | (\$1,452.00)      |
| 690.52   | RAIL ANCHORS   | EA   | 504.00   | \$6.00      | \$3,024.00   | \$4.00      | \$2,016.00   | \$1,008.00        |
| 690.5401 | REMOVE AND RESET GUARDRAIL                           | TF   | 40.00    | \$65.00     | \$2,600.00   | \$40.00     | \$1,600.00   | \$1,000.00        |
| 690.71   | TRACK ALIGNMENT                                      | TF   | 250.00   | \$16.00     | \$4,000.00   | \$35.00     | \$8,750.00   | (\$4,750.00)      |
| 692      | MOBILIZATION   | U    | 1.00     | \$39,500.00 | \$39,500.00  | \$25,000.00 | \$25,000.00  | \$14,500.00       |
| 699      | MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL | \$   | 7,000.00 | \$1.00      | \$7,000.00   | \$1.00      | \$7,000.00   | \$0.00            |
| 1010.15  | FUEL ADJUSTMENT                                      | \$   | 4,400.00 | \$1.00      | \$4,400.00   | \$1.00      | \$4,400.00   | \$0.00            |
|          |  |      |          |             | \$443,298.00 |             | \$453,837.00 | (\$10,539.00)     |