



# Appendix C

## Cost Estimate

**Ulster & Delaware Railroad Corridor Revitalization Study**

Preliminary Trail Construction Cost Estimate

June 2021

|   | HIGHMOUNT<br>TO<br>BIG INDIAN | HIGHMOUNT<br>TO<br>GIGGLE HOLLOW | GIGGLE HOLLOW<br>TO<br>LASHER ROAD | LASHER ROAD<br>TO<br>ROUTE 28 |
|---|-------------------------------|----------------------------------|------------------------------------|-------------------------------|
| <b>MAJOR CONSTRUCTION (ITEMS):</b>                      | <b>COST</b>                   | <b>COST</b>                      | <b>COST</b>                        | <b>COST</b>                   |
| CLEARING & GRUBBING:                                    | \$377,000                     | \$52,000                         | \$294,000                          | \$35,000                      |
| RAIL, HARDWARE & TIE REMOVAL                            | \$721,000                     | \$369,000                        | \$291,000                          | \$63,000                      |
| EARTHWORK:  | \$173,000                     | \$88,000                         | \$70,000                           | \$15,000                      |
| TRAIL STONE:  | \$979,000                     | \$501,000                        | \$395,000                          | \$85,000                      |
| RAILING & FENCE   | \$411,000                     | \$182,000                        | \$152,000                          | \$57,000                      |
| DRAINAGE  | \$760,000                     | \$478,000                        | \$258,000                          | \$17,000                      |
| ACCESS ROAD IMPROVEMENTS                                | \$280,000                     | \$190,000                        | \$190,000                          | \$0                           |
| EROSION CONTROL:  | \$90,000                      | \$46,000                         | \$37,000                           | \$8,000                       |
| LANDSCAPING, BENCHES, SIGNS/PANELS:                     | \$172,000                     | \$88,000                         | \$70,000                           | \$15,000                      |
| WOODCHUCK HOLLOW BRIDGE                                 | \$430,000                     | \$430,000                        | \$0                                | \$0                           |
| GIGGLE HOLLOW BRIDGE                                    | \$510,000                     | \$510,000                        | \$0                                | \$0                           |
| SHORT SPAN STRUCTURE #1                                 | \$50,000                      | \$0                              | \$50,000                           | \$0                           |
| LASHER ROAD CROSSING                                    | \$200,000                     | \$0                              | \$200,000                          | \$0                           |
| ESOPUS CREEK CROSSING                                   | \$1,800,000                   | \$0                              | \$0                                | \$1,800,000                   |
| SHORT SPAN STRUCTURE #2                                 | \$50,000                      | \$0                              | \$0                                | \$50,000                      |
| HIGHMOUNT TRAILHEAD CONCEPT                             | \$107,000                     | \$107,000                        | \$0                                | \$0                           |
| BELLLEAYRE CONCEPT C                                    | \$143,000                     | \$143,000                        | \$0                                | \$0                           |
| BIG INDIAN PARK MODIFICATIONS                           | \$49,000                      | \$0                              | \$0                                | \$49,000                      |
| <b>SUBTOTAL CONSTRUCTION ITEMS</b>                      | <b>\$7,302,000</b>            | <b>\$3,184,000</b>               | <b>\$2,007,000</b>                 | <b>\$2,194,000</b>            |
| FIELD CHANGE ORDER (USE 5% of total)                    | \$365,100                     | \$159,200                        | \$100,350                          | \$109,700                     |
| SURVEY  | \$73,020                      | \$31,840                         | \$20,070                           | \$21,940                      |
| MOBILIZATION (4%)                                       | \$292,080                     | \$127,360                        | \$80,280                           | \$87,760                      |
| <b>CONSTRUCTION (2021 DOLLARS)</b>                      | <b>\$8,032,200</b>            | <b>\$3,502,400</b>               | <b>\$2,207,700</b>                 | <b>\$2,413,400</b>            |
| INFLATION (3%/yr)                                       | <b>\$481,932</b>              | <b>\$210,144</b>                 | <b>\$132,462</b>                   | <b>\$144,804</b>              |
| <b>TOTAL PROJECT CONSTRUCTION COSTS (2023 DOLLARS):</b> | <b>\$8,520,000</b>            | <b>\$3,720,000</b>               | <b>\$2,350,000</b>                 | <b>\$2,560,000</b>            |
| ENGINEERING   | \$600,000                     | \$270,000                        | \$170,000                          | \$180,000                     |
| CONSTRUCTION INSPECTION & ADMIN                         | \$1,030,000                   | \$450,000                        | \$290,000                          | \$310,000                     |
| ROW INCIDENTALS AND ACQUISITIONS                        | \$0                           | \$0                              | \$0                                | \$0                           |
| <b>TOTAL COSTS:</b>                                     | <b>\$10,150,000</b>           | <b>\$4,440,000</b>               | <b>\$2,810,000</b>                 | <b>\$3,050,000</b>            |

**Ulster & Delaware Railroad Corridor Revitalization Study**

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June 2021

|   | HIGHMOUNT<br>CONCEPT | BELLEAYRE<br>CONCEPT A | BELLEAYRE<br>CONCEPT B | BELLEAYRE<br>CONCEPT C | BIG INDIAN      |
|---|----------------------|------------------------|------------------------|------------------------|-----------------|
| MAJOR CONSTRUCTION ITEMS:                       | COST                 | COST                   | COST                   | COST                   | COST            |
| CLEARING & GRUBBING:                            | \$0                  | \$0                    | \$0                    | \$0                    | \$5,000         |
| EARTHWORK:                                      | \$21,000             | \$122,000              | \$32,000               | \$47,000               | \$12,000        |
| SUBBASE:  | \$56,000             | \$55,000               | \$32,000               | \$47,000               | \$16,000        |
| DRAINAGE IMPROVEMENTS:                          | \$5,000              | \$25,000               | \$25,000               | \$25,000               | \$8,000         |
| EROSION CONTROL:                                | \$8,000              | \$9,000                | \$10,000               | \$9,000                | \$0             |
| LANDSCAPE IMPROVEMENTS                          | \$17,000             | \$19,000               | \$19,000               | \$15,000               | \$8,000         |
| FOUNTAIN REMOVAL:                               | \$0                  | \$100,000              | \$0                    | \$0                    | \$0             |
| <b>SUBTOTAL CONSTRUCTION ITEMS</b>              | <b>\$107,000</b>     | <b>\$330,000</b>       | <b>\$118,000</b>       | <b>\$143,000</b>       | <b>\$49,000</b> |
| FIELD CHANGE ORDER (USE 5% of total)            | \$5,350              | \$16,500               | \$5,900                | \$7,150                | \$2,450         |
| SURVEY  | \$1,070              | \$3,300                | \$1,180                | \$1,430                | \$490           |
| MOBILIZATION (4%)                               | \$4,280              | \$13,200               | \$4,720                | \$5,720                | \$1,960         |
| <b>CONSTRUCTION (2021 DOLLARS)</b>              | <b>\$117,700</b>     | <b>\$363,000</b>       | <b>\$129,800</b>       | <b>\$157,300</b>       | <b>\$53,900</b> |
| INFLATION (3%/yr)                               | <b>\$7,062</b>       | <b>\$21,780</b>        | <b>\$7,788</b>         | <b>\$9,438</b>         | <b>\$3,234</b>  |
| <b>TOTAL CONSTRUCTION COSTS (2023 DOLLARS):</b> | <b>\$124,762</b>     | <b>\$384,780</b>       | <b>\$137,588</b>       | <b>\$166,738</b>       | <b>\$57,134</b> |
| ENGINEERING                                     | \$10,000             | \$30,000               | \$10,000               | \$20,000               | \$10,000        |
| CONSTRUCTION INSPECTION & ADMIN                 | \$20,000             | \$50,000               | \$20,000               | \$30,000               | \$10,000        |
| ROW INCIDENTALS AND ACQUISITIONS                | \$0                  | \$0                    | \$0                    | \$0                    | \$0             |
| <b>TOTAL COSTS:</b>                             | <b>\$155,000</b>     | <b>\$465,000</b>       | <b>\$168,000</b>       | <b>\$217,000</b>       | <b>\$78,000</b> |