



PID 115502, AUG-274-4.31: QUANTITY CALCULATIONS

Calculated by: *Dan Grilliot, P.E., Date: 10/11/23*

Checked by: *Lawton Gerlinger, P.E., Date: 11/20/23*

Revised by: *Dan Grilliot, P.E., Date: 4/11/24*

Plan Split #1 = 01/BRO/06 = ODOT Field Pave Section; 02/BRO/06 = New Bremen Field Pave Section

Roadway

1. *Item 201-Clearing and Grubbing (LS)*
 - a. *Plan Split #1 = LUMP SUM*
 - b. *Plan Split #2 = LUMP SUM*
 - c. *Total = LUMP SUM*

Erosion Control

2. *Item 659-Seeding and Mulching (SY)*
 - a. *Estimated area north side of road = 2215 sq. ft. (measured around work limits)*
 - b. *Estimated area south side of road = 13919 sq. ft. (measured around work limits)*
 - c. *Total = 16134 sq. ft. = 1794 sq. yd.*
 - d. *Plan Split #1 = 897 sq. yd.*
 - e. *Plan Split #2 = 897 sq. yd.*
3. *Item 659-Commerical Fertilizer (TON)*
 - a. *1 ton per 7410 sq. yd. of permanent seeded area*
 - b. *1794 sq. yd x (1 ton/7410 sq. yd.) = 0.24 ton = Total*
 - c. *Plan Split #1 = 0.12 ton*
 - d. *Plan Split #2 = 0.12 ton*
4. *Item 659-Water (MGAL)*
 - a. *1794 sq. yd x 2 applications x 0.0027 MGAL/sq. yd. = 9.7 MGAL = 10 MGAL = Total*
 - b. *Plan Split #1 = 5 MGAL*
 - c. *Plan Split #2 = 5 MGAL*
5. *Item 832- Erosion Control*
 - a. *Work considered maintenance with \$1,000 provided for one location.*
 - b. *Plan Split #1 = \$500*
 - c. *Plan Split #2 = \$500*
 - d. *Total = \$1,000*

Drainage

6. Item 202-Pipe Cleanout Over 48" (FT)
 - a. Plan Split #1 = 192 ft.
 - b. Plan Split #2 = 458 ft.
 - c. Total = 650 ft.
7. Item 503-Cofferdams and Excavation Bracing (LS)
 - a. Plan Split #1 = LUMP SUM
 - b. Plan Split #2 = LUMP SUM
 - c. Total = LUMP SUM (LS)
8. Item 611-Field Paving of Existing Pipe, 6'-1" x 4'-7" Pipe Arch (FT)
 - a. Plan Split #1 = 96 ft. x 2 pipes = 192 ft.
 - b. Plan Split #2 = 229 ft. x 2 pipes = 458 ft.
 - c. Total = 650 ft.

Maintenance of Traffic

9. Item 614-Detour Signing (LS)
 - a. Plan Split #1 = Lump Sum
 - b. Plan Split #2 = Lump Sum
 - c. Total = LUMP SUM (LS)

Incidentals

10. Item 614-Maintaining Traffic (LS)
 - a. Plan Split #1 = Lump Sum
 - b. Plan Split #2 = Lump Sum
 - c. Total = LUMP SUM (LS)
11. Item 623-Construction Layout Stakes and Surveying (LS)
 - a. Plan Split #1 = Lump Sum
 - b. Plan Split #2 = Lump Sum
 - c. Total = LUMP SUM (LS)
12. Item 624-Mobilization (LS)
 - a. Plan Split #1 = Lump Sum
 - b. Plan Split #2 = Lump Sum
 - c. Total = LUMP SUM (LS)

END OF CALCULATIONS