

DR 4540 PROJECT SPECS FOR BID PROPOSALS

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BRAY'S CHAPEL ROAD

Start GPS: 36.83574, -84.23730; End GPS: 36.83549, -84.23832

Road Damage:

- Surface, 41.67 CY of asphalt, 321.5 FT long x 14 FT wide x 0.25 FT deep, wash out due to heavy rain, 0% work completed.
- Embankment, 444.44 CY of earth soil, 300 FT long x 4 FT wide x 10 FT deep, heavy rain led to surface water flooding causing erosion damage to embankment.
- Replace 41.67 CY of asphalt, 321.5 FT long x 14 FT wide x 0.25 FT deep (51.34 IN) to Surface
- Embankment will be replaced using rail and cribbing.
 - Install 101 EA of 40 LF Railroad Rail Piling (4,040 TLF)
 - Install 3,000 SF of Cribbing
 - Install 800 SY of Geotextile Fabric
 - Install 444 CY of Excavate and Backfill

CAMPBELL HILL ROAD

StartGPS: 36.74091/-84.14667; End: 36.74130/-84.14653:

Road Damage:

- Embankment, 261.33 CY of earthen fill, 147 FT long x 4 FT wide x 12 FT deep, heavy rain led to flooding causing embankment to erode, 0% work completed.
- Surface, 5.43 CY of gravel, 147 FT long x 3 FT wide x 0.333 FT deep, wash out due to heavy rain(s), 0% work completed.
- Replace 5.43 CY of gravel road surface
- Embankment will be replace using rail and Cribbing
 - Install 50 each of 40ft Railroad Rails (2000 TLF)
 - Install 1764 SF of Cribbing
 - Excavate and backfill 261 CY
 - Install 457 SY of Geotextile Fabric

RYAN'S CREEK ROAD A

Start GPS: 36.64647, -84.25433. End GPS: 36.64654, -84.25435

Road Damage:

- Surface, 6.59 CY of asphalt, 47.5 FT long x 15 FT wide x 0.25 FT deep, wash out due to heavy rain(s).
- Replace 6.59 CY of asphalt road surface
- Embankment will be replace using rail and Cribbing
 - Install 15 each of 40ft Railroad Rails (600 TLF)
 - Install 26.64 SF of Cribbing
 - Excavate and backfill 4 CY
 - Install 6.6 CY of Aggregate Base (DGA)
 - Install 24 SY of Geotextile Fabric

RYAN'S CREEK ROAD B

Start GPS: 36.64510, -84.25570. End GPS: 36.64519, -84.25558.

Road Damage:

- Surface, 12.16 CY of asphalt, 52.5 FT long x 15 FT wide x 0.417 FT deep, wash out due to heavy rain(s), 0% work completed.
- Embankment, 4.93 CY of earthen fill, 50 FT long x 4 FT wide x 0.666 FT deep, heavy rain led to surface water flooding causing erosion damage to embankment, 0% work completed.
- Replace 12.16 CY of asphalt road surface
- Embankment will be replace using rail and Cribbing
 - Install 18 each of 40ft Railroad Rails (720 TLF)
 - Install 33.3 SF of Cribbing
 - Excavate and backfill 5 CY
 - Install 12.2 CY of Aggregate Base (DGA)
 - Install 30 SY of Geotextile Fabric

TACKETT CREEK ROAD B

Start GPS: 36.68010, -84.11230

Road Damage:

Tackett Creek Road B, 2.6 miles from Mt. Ash:

- Surface, 5.5556 CY of Asphalt, 120 FT long x 5 FT wide x 3 IN deep, Heavy rains over a short period of time led to fast moving, large quantities of water pooling into the drainage ditches, which eventually became more water than the ditches could properly drain. This large amount of water eventually saturated and eroded the road shoulder embankment, which led to fracture and sipping of both the road shoulder embankment and the roadway itself, 0% work completed.
- Base, 5.5556 CY of Asphalt, 120 FT long x 5 FT wide x 3 IN deep, Heavy rains over a short period of time led to fast moving, large quantities of water pooling into the drainage ditches, which eventually became more water than the ditches could properly drain. This large amount of water eventually saturated and eroded the road shoulder embankment, which led to fracture and sipping of both the road shoulder embankment and the roadway itself, 0% work completed.
- Embankment, 88.8889 CY of Road shoulder embankment - earthen fill, 120 FT long x 5 FT wide x 4 FT deep, Heavy rains over a short period of time led to fast moving, large quantities of water pooling into the drainage ditches, which eventually became more water than the ditches could properly drain. This large amount of water eventually saturated and eroded the road shoulder embankment, which led to fracture and sipping of both the road shoulder embankment and the roadway itself, 0% work completed.
- Replace surface, 5.5556 CY (10.875 TN) of Asphalt, 120 FT long x 5 FT wide x 3 IN deep.
- Replace base, 5.5556 CY (7.777 TN) of DGA, 120 FT long x 5 FT wide x 3 IN deep.
- Replace embankment (shoulder) using best construction practices.
- Railroad Rail Piling, 120 FT / 3 FT + 1 end = 41 pieces x 40 FT = 1640 LF
- Cribbing, 480 SF
- Excavation and backfill, 89 CY
- Filter fabric, 160 SY

TACKETT CREEK ROAD C

Start GPS: 36.68150, -84.10990

Road Damage:

Tackett Creek Road C, 2.5 Miles from Mt. Ash:

- Surface, 7.037 CY of Asphalt, 190 FT long x 4 FT wide x 3 IN deep, Heavy rains over a short period of time led to high, swift moving water. This saturated and eroded the road shoulder embankment causing slipping and fracturing of both the shoulder of the roadway and the roadway itself, 0% work completed.
- Base, 7.037 CY of Asphalt, 190 FT long x 4 FT wide x 3 IN deep, Heavy rains over a short period of time led to high, swift moving water. This saturated and eroded the road shoulder embankment causing slipping and fracturing of both the shoulder of the roadway and the roadway itself, 0% work completed.
- Embankment, 56.2963 CY of Road shoulder embankment - Earthen Fill, 190 FT long x 4 FT wide x 2 FT deep, Heavy rains over a short period of time led to high, swift moving water. This saturated and eroded the road shoulder embankment causing slipping and fracturing of both the shoulder of the roadway and the roadway itself,
- Replace surface, 7.037 CY (13.775 TN) of Asphalt, 190 FT long x 4 FT wide x 3 IN deep.
- Replace base, 7.037 CY (10.133 TN) of DGA, 190 FT long x 4 FT wide x 3 IN deep.
- Replace embankment (shoulder) using best construction practices.
 - Railroad Rail Piling, 190 FT / 3 FT + 1 end = 65 pieces x 40 FT = 2600 LF
 - Cribbing, 380 SF
 - Excavation and backfill, 56 CY
 - Filter fabric, 169 SY

MAPLE CREEK ROAD A

Start GPS: 36.76200, -84.06410

Road Damage:

- Embankment, 17.11 CY of earthen fill, 77 FT long x 3 FT wide x 2 FT deep, surface water flooding fractured the embankment/shoulder of the roadway, 0% work completed.
- Surface, 2.13 CY of asphalt, 77 FT long x 3 FT wide x 0.25 FT deep, washout due to surface water flooding, 0% work completed.
- Base, 2.13 CY of DGA, 77 FT long x 3 FT wide x 0.25 FT deep, washout due to surface water flooding,
- Replace Surface, 2.13 CY of asphalt, 77 FT long x 3 FT wide x 0.25 FT deep
- Replace Base, 2.13 CY of DGA, 77 FT long x 3 FT wide x 0.25 FT deep
- Shoulder/embankment will be replaced using rail and cribbing
 - Install 27 each of 40 ft Railroad Rails (1,080 TLF)
 - Install 154 SF of Cribbing
 - Excavate and backfill 17.11 CY of Unclassified Fill
 - Install 68.44 SY of Geotextile Fabric

MAPLE CREEK ROAD B

Start GPS: 36.75870, -84.05690

Road Damage:

- Embankment, 17.77 CY of earthen fill, 80 FT long x 3 FT wide x 2 FT deep, surface water flooding eroded portions of the embankment, 0% work completed.
- Surface, 2.22 CY of asphalt, 80 FT long x 3 FT wide x 0.25 FT deep, washout due to surface water flooding, 0% work completed.
- Base, 2.22 CY of DGA, 80 FT long x 3 FT wide x 0.25 FT deep, washout due to surface water flooding
- Replace Surface, 2.22 CY of asphalt, 80 FT long x 3 FT wide x 0.25 FT deep
- Replace Base, 2.22 CY of asphalt, 80 FT long x 3 FT wide x 0.25 FT deep
- Shoulder/embankment will be replaced using rail and cribbing
 - Install 28 each of 40 ft Railroad Rails (1,120 TLF)
 - Install 160 SF of Cribbing
 - Excavate and backfill 17.77 CY of Unclassified Fill
 - Install 71.11 SY of Geotextile Fabric