

| Materials Use and Cost | | Charge Units | Quantity |
|---------------------------------|---|-----------------|--------------------------|
| Category | Material Description | | |
| Aggregate/Earthwork | Select Granular Borrow | Ton | |
| Aggregate/Earthwork | Aggregate, All classes | Ton | |
| Aggregate/Earthwork | Millings, Bituminous | Ton | |
| Aggregate/Earthwork | Topsoil Borrow | Cubic Yard | |
| Aggregate/Earthwork | Common Borrow – Loose Volume | Cubic Yard | |
| Apron – Aluminized Safety | 4:1 6:1 Diameter/Span: _____” Safety Apron includes grate and coupling band | Each | |
| Apron – Aluminized Steel Flared | Flared Apron includes coupling band Diameter/Span: _____” | Each | |
| Apron – Concrete | Flared Apron Safety Apron 4:1 6:1 Diameter/Span: _____” | Each | |
| Apron – Poly | Polyethylene (HDPE) Apron Diameter: _____” | Each | |
| Apron – Steel Flared | Flared Apron includes coupling band Diameter/Span: _____” | Each | |
| Apron – Steel Safety | 4:1 6:1 Diameter/Span: _____” Safety Apron includes grate and coupling band | Each | |
| Cement and Grout | Concrete, Ready Mix \$150 CY Use for Concrete Pavement | Cubic Yard | |
| Cement and Grout | Foam, 2 Part Expanding, Tot Gals Part A and Part B | Gallon | |
| Cement and Grout | Cement Grout | Cubic Yard | |
| Cement and Grout | Cement, Portland, 94 lb Bag | Bag | |
| Cement and Grout | Cement, Mortar Spec Mix, 50 lb Bag | Bag | |
| Erosion Control | Seed Mix | Pound | |
| Erosion Control | Fiber Blanket: | Sq Yard | |
| Erosion Control | Bioroll Diameter: 6” 9” 12” | Linear Foot | |
| Erosion Control | Silt Fence | Linear Foot | |
| Erosion Control | Floating Silt Curtain | Linear Foot | |
| Erosion Control | Rip Rap (all classes) | Ton | |
| Erosion Control | Geotextile Fabric | Sq Foot | |
| Grate | Apron Safety/Trash Grates Diameter/Span: _____” Cost: \$ _____ | \$100 Lot | |
| Internal Band | Internal Pipe Joint Sealing Band Diameter: _____” | Each | |
| Pavement | Bituminous Pavement – All Classes | Ton | |
| Pipe – Aluminized Steel | Round Arch Inside Diameter/Span: _____” | Linear Foot | |
| Pipe - Concrete | Round Arch Gasketed Inside Diameter/Span: _____” | Linear Foot | |
| Pipe - Concrete | Pipe Ties | Each | |
| Pipe – Corrugated Steel | Round Arch Inside Diameter/Span: _____” | Linear Foot | |
| Pipe – HDPE Liner | Press-On Joint Threaded Joint Outside Diameter: _____” | Linear Foot | |
| Pipe – Poly Dual Wall | Polyethylene Dual Wall Pipe (HDPE) Inside | Linear Foot | |
| Pipe – Polymeric Coated Steel | Round Arch Inside Diameter/Span: _____” | Linear Foot | |
| Pipe - Polypropylene | Inside Diameter: _____” | Linear Foot | |
| Pipe – Tapered Sleeve | Smooth Tapered Metal Pipe Sleeve Diameter: _____” Steel Aluminum | Each | |
| Pipe Coupling Band | External Coupling Band 12” Wide 24” Wide Dia./Span: _____” Steel Aluminized Steel Polymeric Coated | Each | |
| Category | Material Description and Units | Quantity | Total Direct Cost |
| Additional Material | Fill in description and units and describe in comments | | |
| Additional Material | | | |
| Additional Material | | | |

Culvert Cost – Maintenance Data Collection Form – January 2018

Repair ID: _____
 HydInfra ID: _____
 Full Name: _____
 Date Started: _____
 Date Completed: _____
 Repair Status: *Pending Complete*

Comment: _____

District: _____

Repair Made: *Trench New Pipe Slipline Replace Aprons Reset Extension Joint Repair Hole Repair
 Paved Invert Fill Voids Cleaning Ditch Cleaning Ice Removal Beavers Abandon Only
 Remove Only Other: _____ None*

RCA Work Order #: _____

Culvert Type: *Centerline Median Ramp/Loop Collector/Distribut
 Crossover County Road City Road Township Road Frontage
 Entrance Farm Entrance Field Entrance
 Storm Drain Flume Drain Tile Other: _____*

Inside Width (inches): _____ (after repair)

Inside Height (inches): _____ (after repair)

Pre-repair Condition: *1-Like New 2-Fair 3-Poor 4-Very Poor 0-Unknown*

Fill over Pipe (feet): _____

Repaired Shape: *Round Arch Box Elliptical Other Unknown*

Repaired Material (Inside of Pipe after Repair):

*Concrete Corg. Steel (CSP) Aluminized Steel Corg. Plastic (HDPE) PVC Polypropylene
 SRPE Other Pipe Liner PVC Liner HDPE Liner Metal Liner Cured-in-Place Liner Other*

Repaired Length (ft.): _____

Total Length (ft.): _____

Repaired Condition: *1-Like New 2-Fair 3-Poor 4-Very Poor 0-Unknown*

Route System & Number: _____

Route Reference Point: _____

Left or Right (Side Culvert Location): *L R*

Clean Done: *Major (more than 4 hours Labor) Minor (4 hours or less Labor) None*

Resource and Cost Data

| Labor Hours by Classification | | Sum hours for Class |
|--|-----------------|--------------------------|
| Labor Classification | Traffic Control | |
| Laborer TA TG TGS TOS1 TOS2 TOS3 TOS4 | Yes No | |
| Laborer TA TG TGS TOS1 TOS2 TOS3 TOS4 | Yes No | |
| Laborer TA TG TGS TOS1 TOS2 TOS3 TOS4 | Yes No | |
| Laborer TA TG TGS TOS1 TOS2 TOS3 TOS4 | Yes No | |
| Laborer TA TG TGS TOS1 TOS2 TOS3 TOS4 | Yes No | |
| Laborer TA TG TGS TOS1 TOS2 TOS3 TOS4 | Yes No | |
| Laborer TA TG TGS TOS1 TOS2 TOS3 TOS4 | Yes No | |
| Laborer TA TG TGS TOS1 TOS2 TOS3 TOS4 | Yes No | |
| Laborer TA TG TGS TOS1 TOS2 TOS3 TOS4 | Yes No | |
| Laborer TA TG TGS TOS1 TOS2 TOS3 TOS4 | Yes No | |
| Laborer TA TG TGS TOS1 TOS2 TOS3 TOS4 | Yes No | |
| Laborer TA TG TGS TOS1 TOS2 TOS3 TOS4 | Yes No | |
| Laborer TA TG TGS TOS1 TOS2 TOS3 TOS4 | Yes No | |
| Laborer TA TG TGS TOS1 TOS2 TOS3 TOS4 | Yes No | |
| Additional Labor Description | Quantity | Total Direct Cost |
| Fill in description below and describe in comments | If applicable | |
| | | |
| | | |
| | | |
| | | |

| Equipment Use | | Charge Units | Quantity |
|---------------------------|---|--------------|----------|
| Category | Equipment Charge Class & Description | | |
| Air Compressors | 436 Air Comp <50 CFM MTD | Hour | |
| Air Compressors | 437 Air Comp 50-150 CFM MTD | Hour | |
| Brooms | 970 Self-Propelled Lull | Hour | |
| Brooms | 980 Pickup Sweeper | Hour | |
| Brooms | 982 Pickup Sweeper-Truck Mounted | Hour | |
| Loaders-Shovels | 760 4 Wheel Drive Loader-Hough, Pettibone | Hour | |
| Loaders-Shovels | 770 Shovels 1/2 C.Y.. or 3/4 C.Y. | Hour | |
| Miscellaneous | 646 Mudjack | Hour | |
| Road Side Planting & Care | 618 Hydro Seeder | Hour | |
| Road Side Planting & Care | 619 Brush Chipper | Hour | |
| Road Side Planting & Care | 620 Motor Grader Over 70 HP All | Hour | |
| Rollers | 465 Self- Propelled Pneumatic | Hour | |
| Rollers | 466 Self-Propelled 5-8 Ton Roller | Hour | |
| Rollers | 467 Self-Propelled 3-6Ton | Hour | |
| Rollers | 468 Roller, Articulated, 3-6 ton | Hour | |
| Steam Boilers & Heaters | 438 Steam Boilers | Hour | |
| Steam Boilers & Heaters | 439 Portable Steam Thawer | Hour | |
| Steam Boilers & Heaters | 441 Booster,Cleaver-Brooks, Bros | Hour | |
| Tractor-Loaders | 710 Cat. RD7 and D7 With Angle Dozer | Hour | |
| Tractor-Loaders | 721 Tractor-Loader-Backhoe 4WD | Hour | |
| Tractor-Loaders | 723 Loader-Mower-Tractor 70HP or Less | Hour | |

| Equipment Use | | Charge Units | Quantity |
|------------------------|---|--------------|-------------------|
| Category | Equipment Charge Class & Description | | |
| Tractor-Loaders | 725 Bi-Directional Tractor W/Attach Over 100HP Versatile | Hour | |
| Tractor-Loaders | 726 Tractor -Loader-Backhoe 2 WD | Hour | |
| Tractor-Loaders | 727 Skid Steer Loader 30HP | Hour | |
| Tractor-Loaders | 750 Crawler Tractor Loaders | Hour | |
| Trailer-Trailer Houses | 480 Semi Type TRLR 20-50T LowBoy ET | Hour | |
| Trailer-Trailer Houses | 481 Belly Dump End or Live Floor | Hour | |
| Trailer-Trailer Houses | 482 Pull type Trailer 10-25 ton | Hour | |
| Trailer-Trailer Houses | 483 Trailer 6-9Ton | Hour | |
| Trucks | 160 Truck, SUV, Full-Size, 2 Wheel Drive | Mile | |
| Trucks | 161 Truck, SUV, Full-Size, 4 Wheel Drive | Mile | |
| Trucks | 171 Truck, SUV, Mid-Size, 4 Wheel Drive | Mile | |
| Trucks | 180 Pickup ½ Ton | Mile | |
| Trucks | 182 Pickup ½ Ton 4 Wheel drive | Mile | |
| Trucks | 183 Pickup ½ Ton Extended Cab | Mile | |
| Trucks | 184 Pickup ½ Ton Extended Cab W/4 WD | Mile | |
| Trucks | 190 Pickup ¾ Ton | Mile | |
| Trucks | 191 Pickup ¾ Ton 4 Wheel Drive | Mile | |
| Trucks | 200 Pickup Compact | Mile | |
| Trucks | 250 Truck 1 Ton Dump | Mile | |
| Trucks | 254 Truck 1 Ton Utility | Mile | |
| Trucks | 255 Truck 1 Ton 4 Wheel Drive | Mile | |
| Trucks | 280 1-1/2 Ton Truck With Aerial Ladder | Mile | |
| Trucks | 300 1-1/2 Ton-2 Ton Truck | Mile | |
| Trucks | 310 1-1/2 Ton 2 Ton Dump Truck | Mile | |
| Trucks | 320 1-1/2 Ton 3 Ton with Special Equipment (Sign Truck etc) | Mile | |
| Trucks | 330 2-1/2 Ton- 3 Ton Dump | Mile | |
| Trucks | 332 2-1/2 Ton -3 Ton Stake | Mile | |
| Trucks | 350 57M LB Chassis Cab Tandem Axle Truck | Mile | |
| Trucks | 352 Tandem Axle Truck T | Mile | |
| Trucks | 354 Tandem Diesel Truck With Log Loader | Mile | |
| Trucks | 391 Large Culvert & Sewer Cleaner | Mile | |
| Category | Equipment Description and Units* | Quantity | Total Direct Cost |
| Additional Equipment | Fill in description and units and describe in comments | | |
| Additional Equipment | | | |
| Additional Equipment | | | |
| Additional Equipment | | | |
| Additional Equipment | | | |
| Additional Equipment | | | |
| Additional Equipment | | | |

* If MnDOT Equipment is not listed, enter Unit ID and look up Equipment Charge Class to match.

Find this form **“Culvert Cost Paper Collection Form.pdf”** on the Culvert Cost webpage – search IHUB for **“Culvert”**