

Drainage Annual Repair Contract, 2022

Project # O2207

Category	Item#	Item Description	Quantity	Unit	JC Dillon 2022		Hoerr Const. 2022	
					Unit Cost	Total	Unit Cost	Total
Labor & Administration	1	Laborer	2250	Hour	\$ 85.00	\$ 191,250.00	\$ 100.00	\$ 225,000.00
	2	Operator	1890	Hour	\$ 105.00	\$ 198,450.00	\$ 120.00	\$ 226,800.00
	3	Foreman	1350	Hour	\$ 95.00	\$ 128,250.00	\$ 120.00	\$ 162,000.00
	4	Cement Mason	55	Hour	\$ 80.00	\$ 4,400.00	\$ 158.13	\$ 8,697.15
	5	Plumber	10	Hour	\$ 85.00	\$ 850.00	\$ 120.00	\$ 1,200.00
	6	Laborer OT	20	Hour	\$ 104.00	\$ 2,080.00	\$ 136.00	\$ 2,720.00
	7	Operator OT	95	Hour	\$ 127.00	\$ 12,065.00	\$ 163.00	\$ 15,485.00
	8	Foreman OT	80	Hour	\$ 117.00	\$ 9,360.00	\$ 164.00	\$ 13,120.00
	9	Cement Mason OT	1	Hour	\$ 100.00	\$ 100.00	\$ 221.38	\$ 221.38
	10	Work Order Administration Completed	25	Each	\$ 100.00	\$ 2,500.00	\$ 300.00	\$ 7,500.00
	11	Additional Charge for Disposal of Waste at a Landfill	14	Each	\$ 50.00	\$ 700.00	\$ 189.75	\$ 2,656.50
	12	Additional Charge for Disposal of Recyclable Construction Materials	5	Each	\$ 0.01	\$ 0.05	\$ 63.25	\$ 316.25
	13	Performance Bond	1000	per \$1000	\$ 15.00	\$ 15,000.00	\$ 0.91	\$ 910.00
Subtotals						\$ 565,005.05		\$ 666,626.28
Equipment	100	Lowboy Including Both Permits and Paid Driver	45	Hour	\$ 120.00	\$ 5,400.00	\$ 151.80	\$ 6,831.00
	101	Trailer	115	Hour	\$ 0.01	\$ 1.15	\$ 13.00	\$ 1,495.00
	102	One ton Dump truck with Driver	10	Hour	\$ 27.60	\$ 276.00	\$ 121.00	\$ 1,210.00
	103	Single Axle Dump Truck with Driver	25	Hour	\$ 100.00	\$ 2,500.00	\$ 133.00	\$ 3,325.00
	104	Tandem Axle Dump Truck with Driver	900	Hour	\$ 100.00	\$ 90,000.00	\$ 116.38	\$ 104,742.00
	105	Semi & Dump Trailer with Driver	65	Hour	\$ 120.00	\$ 7,800.00	\$ 132.83	\$ 8,633.95
	107	Jetting and Vacuuming Truck with Driver/Operator	45	Hour	\$ 200.00	\$ 9,000.00	\$ 250.00	\$ 11,250.00
	109	Skid Steer Loader (CAT 216B, 226B, 236B, 242B, 246C, 252B, 262C, 272D, 272D XHP, 289 or Equivalent; 47Hp to 106Hp)	630	Hour	\$ 25.00	\$ 15,750.00	\$ 40.00	\$ 25,200.00
	117	Small Mini Hydraulic Excavator (CAT 300.9D,301.4C,301.7D,301.7D CR,302.2D,302.4D,302.7D CR,303.5E CR or Equivalent; 13Hp to 39Hp)	70	Hour	\$ 10.00	\$ 700.00	\$ 35.00	\$ 2,450.00
	118	Large Mini Hydraulic Excavator (CAT 304E CR, 305E CR, 305.5E CR, 308E2 CR SB, or Equivalent; 40Hp to 65 Hp)	60	Hour	\$ 25.00	\$ 1,500.00	\$ 85.00	\$ 5,100.00
	119	Small Hydraulic Excavator (CAT 312E, 314E CR, 316E, 318E or Equivalent; 91Hp to 113Hp)	415	Hour	\$ 55.00	\$ 22,825.00	\$ 85.00	\$ 35,275.00
	120	Medium Hydraulic Excavator (CAT 321D LCR or Equivalent)	450	Hour	\$ 65.00	\$ 29,250.00	\$ 125.00	\$ 56,250.00

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Vehicles and	123	Large Hydraulic Excavator (CAT 336E H Hybrid, 336E, 349E, 374D L, 390 D L or Equivalent; 286Hp to 523Hp)	200	Hour	\$ 75.00	\$ 15,000.00	\$ 135.00	\$ 27,000.00
	126	Mini Skid Steer with attachments (Vermeer s800 or equivalent)	300	Hour	\$ 12.00	\$ 3,600.00	\$ 33.00	\$ 9,900.00
	129	Tiller and Power Rack	20	Hour	\$ 3.00	\$ 60.00	\$ 31.63	\$ 632.60
	132	Rammax Compactor	45	Hour	\$ 10.00	\$ 450.00	\$ 63.25	\$ 2,846.25
	133	Tandem vibratory roller (CAT CB-24, Bomag BW100AD-4)	80	Hour	\$ 10.00	\$ 800.00	\$ 94.88	\$ 7,590.40
	134	Power Broom	20	Hour	\$ 3.00	\$ 60.00	\$ 31.63	\$ 632.60
	136	Wacker Reversible Compactor or Equivalent	160	Hour	\$ 5.00	\$ 800.00	\$ 15.00	\$ 2,400.00
	137	Rotating Hammer	8	Hour	\$ 3.00	\$ 24.00	\$ 15.00	\$ 120.00
	139	Chain Saw	120	Hour	\$ 3.00	\$ 360.00	\$ 15.00	\$ 1,800.00
	140	Brush Chipper	90	Hour	\$ 35.00	\$ 3,150.00	\$ 63.25	\$ 5,692.50
	141	Cut Off Saw	54	Hour	\$ 3.00	\$ 162.00	\$ 12.00	\$ 648.00
	144	Walk behind concrete saw and blade, large	20	Hour	\$ 15.00	\$ 300.00	\$ 94.88	\$ 1,897.60
	145	Submersible pump with hoses	10	Hour	\$ 10.00	\$ 100.00	\$ 13.00	\$ 130.00
	146	Electric Generator	24	Hour	\$ 3.00	\$ 72.00	\$ 14.00	\$ 336.00
	148	Pipe Laser	8	Daily	\$ 1.00	\$ 8.00	\$ 18.00	\$ 144.00
	149	Trench Box and Sheets	8	Daily	\$ 25.00	\$ 200.00	\$ 154.00	\$ 1,232.00
150	Material Box	8	Daily	\$ 0.01	\$ 0.08	\$ 96.00	\$ 768.00	
Subtotals						\$ 210,148.23		\$ 325,531.90
Traffic Control	200	Steel Road Plate	12	Daily	\$ 5.00	\$ 60.00	\$ 17.00	\$ 204.00
	201	Barricade, Type One	120	Daily	\$ 1.00	\$ 120.00	\$ 0.85	\$ 102.00
	203	Road Construction Ahead Sign	180	Daily	\$ 1.00	\$ 180.00	\$ 2.75	\$ 495.00
	205	Worker Ahead Sign	120	Daily	\$ 1.00	\$ 120.00	\$ 2.75	\$ 330.00
	207	Traffic Barrels with Lights	180	Daily	\$ 1.00	\$ 180.00	\$ 2.25	\$ 405.00
	208	Traffic Cones	180	Daily	\$ 0.01	\$ 1.80	\$ 0.60	\$ 108.00
	209	Safety fence with posts	9000	LF	\$ 0.01	\$ 90.00	\$ 0.19	\$ 1,710.00
	210	Arrow Board	15	Daily	\$ 80.00	\$ 1,200.00	\$ 48.00	\$ 720.00
Subtotals						\$ 1,951.80		\$ 4,074.00
	300	Storm Sewer, RCP, Type 1, 12" Dia	450	LF	\$ 17.00	\$ 7,650.00	\$ 20.24	\$ 9,108.00
	301	Storm Sewer, RCP, Type 1, 15" Dia	90	LF	\$ 19.75	\$ 1,777.50	\$ 26.57	\$ 2,391.30
	302	Storm Sewer, RCP, Type 1, 18" Dia	45	LF	\$ 24.00	\$ 1,080.00	\$ 32.89	\$ 1,480.05
	304	Storm Sewer, RCP, Type 1, 24" Dia	45	LF	\$ 33.50	\$ 1,507.50	\$ 39.53	\$ 1,778.85
	306	Storm Sewer, RCP, Type 1, 36" Dia	24	LF	\$ 55.00	\$ 1,320.00	\$ 75.77	\$ 1,818.48
	308	Storm Sewer, RCP, Type 1, 48" Dia	24	LF	\$ 98.50	\$ 2,364.00	\$ 124.41	\$ 2,985.84

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Pipe Materials	309	Storm Sewer, RCP, Type 2, 12" Dia	450	LF	\$ 17.00	\$ 7,650.00	\$ 20.24	\$ 9,108.00	
	310	Storm Sewer, RCP, Type 2, 15" Dia	90	LF	\$ 19.75	\$ 1,777.50	\$ 26.57	\$ 2,391.30	
	311	Storm Sewer, RCP, Type 2, 18" Dia	45	LF	\$ 24.00	\$ 1,080.00	\$ 32.89	\$ 1,480.05	
	313	Storm Sewer, RCP, Type 2, 24" Dia	45	LF	\$ 33.50	\$ 1,507.50	\$ 39.53	\$ 1,778.85	
	315	Storm Sewer, RCP, Type 2, 36" Dia	24	LF	\$ 55.00	\$ 1,320.00	\$ 75.77	\$ 1,818.48	
	317	Storm Sewer, RCP, Type 2, 48" Dia	24	LF	\$ 98.50	\$ 2,364.00	\$ 124.41	\$ 2,985.84	
	318	Storm Sewer, Class B, Type 1, 12" Dia	450	LF	\$ 13.00	\$ 5,850.00	\$ 14.83	\$ 6,673.50	
	319	Storm Sewer, Class B, Type 1, 15" Dia	90	LF	\$ 17.00	\$ 1,530.00	\$ 19.78	\$ 1,780.20	
	320	Storm Sewer, Class B, Type 1, 18" Dia	45	LF	\$ 24.00	\$ 1,080.00	\$ 26.94	\$ 1,212.30	
	322	Storm Sewer, Class B, Type 1, 24" Dia	45	LF	\$ 40.00	\$ 1,800.00	\$ 46.15	\$ 2,076.75	
	324	Storm Sewer, Class B, Type 1, 36" Dia	24	LF	\$ 65.00	\$ 1,560.00	\$ 82.82	\$ 1,987.68	
	326	Storm Sewer, Class B, Type 1, 48" Dia	24	LF	\$ 115.00	\$ 2,760.00	\$ 145.91	\$ 3,501.84	
	327	Storm Sewer, Class B, Type 2, 12" Dia	450	LF	\$ 13.00	\$ 5,850.00	\$ 14.45	\$ 6,502.50	
	328	Storm Sewer, Class B, Type 2, 15" Dia	90	LF	\$ 17.00	\$ 1,530.00	\$ 19.78	\$ 1,780.20	
	329	Storm Sewer, Class B, Type 2, 18" Dia	45	LF	\$ 24.00	\$ 1,080.00	\$ 26.94	\$ 1,212.30	
	331	Storm Sewer, Class B, Type 2, 24" Dia	45	LF	\$ 40.00	\$ 1,800.00	\$ 46.15	\$ 2,076.75	
	333	Storm Sewer, Class B, Type 2, 36" Dia	24	LF	\$ 65.00	\$ 1,560.00	\$ 82.82	\$ 1,987.68	
	335	Storm Sewer, Class B, Type 2, 48" Dia	24	LF	\$ 115.00	\$ 2,760.00	\$ 145.91	\$ 3,501.84	
	340	Pipe Underdrain (Special) 4" Dia, Solid	75	LF	\$ 1.00	\$ 75.00	\$ 1.06	\$ 79.50	
	341	Pipe Underdrain (Special) 6" Dia, Solid	25	LF	\$ 2.00	\$ 50.00	\$ 2.47	\$ 61.75	
	342	Pipe Underdrain (Special) 8" Dia, Solid	25	LF	\$ 3.75	\$ 93.75	\$ 4.36	\$ 109.00	
	343	Pipe Underdrain (Special) 10" Dia, Solid	25	LF	\$ 6.00	\$ 150.00	\$ 7.50	\$ 187.50	
	344	RCP Flared End Section, 12"	4	Each	\$ 440.00	\$ 1,760.00	\$ 569.25	\$ 2,277.00	
	345	RCP Flared End Section, 15"	4	Each	\$ 550.00	\$ 2,200.00	\$ 632.50	\$ 2,530.00	
	346	RCP Flared End Section, 18"	4	Each	\$ 660.00	\$ 2,640.00	\$ 727.38	\$ 2,909.52	
	349	Fernco Connection, 4"	4	Each	\$ 9.50	\$ 38.00	\$ 10.40	\$ 41.60	
	350	Fernco Connection, 6"	4	Each	\$ 18.00	\$ 72.00	\$ 20.27	\$ 81.08	
	351	Fernco Connection, 8"	4	Each	\$ 28.00	\$ 112.00	\$ 31.17	\$ 124.68	
	354	CIPP Lining, 12"	900	LF	\$ 50.00	\$ 45,000.00	\$ 150.00	\$ 135,000.00	
	355	CIPP Lining, 15"	720	LF	\$ 55.00	\$ 39,600.00	\$ 165.00	\$ 118,800.00	
	356	CIPP Lining, 18"	360	LF	\$ 57.00	\$ 20,520.00	\$ 175.00	\$ 63,000.00	
	357	CIPP Lining, 24"	180	LF	\$ 85.00	\$ 15,300.00	\$ 205.00	\$ 36,900.00	
	359	CIPP Lining, 36"	90	LF	\$ 120.00	\$ 10,800.00	\$ 365.00	\$ 32,850.00	
	361	CIPP Lining, 48"	90	LF	\$ 250.00	\$ 22,500.00	\$ 530.00	\$ 47,700.00	
			Subtotals				\$ 221,468.75		\$ 516,070.21
		400	Inlet, Type A, 4' Max. Depth	4	Each	\$ 270.00	\$ 1,080.00	\$ 303.60	\$ 1,214.40

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					Unit Cost	Total	Unit Cost	Total
Drainage Structures	401	Inlet, Type B with Flat Slab Top, 5' Max. Depth	4	Each	\$ 500.00	\$ 2,000.00	\$ 847.55	\$ 3,390.20
	402	Inlet, Type G1 with Frame & Grate, 5' Max. Depth	4	Each	\$ 1,500.00	\$ 6,000.00	\$ 1,781.12	\$ 7,124.48
	403	Inlet MH, 4' Dia, Type G1 with Flat Slab & F&G, 5' Max. Depth	4	Each	\$ 850.00	\$ 3,400.00	\$ 2,125.20	\$ 8,500.80
	404	Inlet MH, 5' Dia, Type G1 with Flat Slab & F&G, 5' Max Depth	4	Each	\$ 850.00	\$ 3,400.00	\$ 2,994.26	\$ 11,977.04
	405	Manhole, 4' Dia with Flat Slab Top, 5' Max. Depth	4	Each	\$ 1,200.00	\$ 4,800.00	\$ 1,345.96	\$ 5,383.84
	406	Manhole, 5' Dia with Flat Slab Top, 5' Max Depth	4	Each	\$ 1,900.00	\$ 7,600.00	\$ 2,215.02	\$ 8,860.08
	407	Additional Structure Depth, Ty B Inlet	5	VF	\$ 140.00	\$ 700.00	\$ 160.66	\$ 803.30
	408	Additional Structure Depth, G1 Inlet	5	VF	\$ 215.00	\$ 1,075.00	\$ 242.88	\$ 1,214.40
	409	Additional Structure Depth, 4' Dia MH	5	VF	\$ 175.00	\$ 875.00	\$ 196.08	\$ 980.40
	410	Additional Structure Depth, 5' Dia MH	5	VF	\$ 250.00	\$ 1,250.00	\$ 282.10	\$ 1,410.50
	411	Type 1 Frame and Lid (Open or Closed)	9	Each	\$ 360.00	\$ 3,240.00	\$ 404.80	\$ 3,643.20
	412	Type 3 Frame & Grate	4	Each	\$ 360.00	\$ 1,440.00	\$ 676.78	\$ 2,707.12
	413	Type 8 Grate	3	Each	\$ 235.00	\$ 705.00	\$ 265.65	\$ 796.95
	414	Type 11 Frame & Grate	3	Each	\$ 500.00	\$ 1,500.00	\$ 664.13	\$ 1,992.39
	415	Type G1 Frame & Grate	7	Each	\$ 550.00	\$ 3,850.00	\$ 784.30	\$ 5,490.10
	416	Drainage Structure to be Adjusted	23	Each	\$ 375.00	\$ 8,625.00	\$ 880.44	\$ 20,250.12
	417	Drainage Structure to be Reconstructed	14	Each	\$ 1,500.00	\$ 21,000.00	\$ 1,444.63	\$ 20,224.82
Subtotals						\$ 72,540.00		\$ 105,964.14
Backfill Materials	500	Borrow Excavation	1440	CY	\$ 6.00	\$ 8,640.00	\$ 6.33	\$ 9,115.20
	501	Flowable Backfill (CLSM)	320	CY	\$ 53.00	\$ 16,960.00	\$ 64.54	\$ 20,652.80
	502	Trench Backfill, FA-1	80	Ton	\$ 10.00	\$ 800.00	\$ 8.22	\$ 657.60
	504	Trench Backfill, CA-6	270	Ton	\$ 10.00	\$ 2,700.00	\$ 15.18	\$ 4,098.60
	506	Porous Backfill, CA-7 or CA-11	100	Ton	\$ 23.00	\$ 2,300.00	\$ 32.13	\$ 3,213.00
Subtotals						\$ 31,400.00		\$ 37,737.20
Aggregate & Asphalt	600	CA-6 Granular Backfill, White Rock	50	Ton	\$ 20.00	\$ 1,000.00	\$ 28.15	\$ 1,407.50
	601	Millings	108	Ton	\$ 15.00	\$ 1,620.00	\$ 12.65	\$ 1,366.20
	602	Hot Mix Asphalt Pavement	167	Ton	\$ 87.00	\$ 14,529.00	\$ 99.94	\$ 16,689.98
Subtotals						\$ 17,149.00		\$ 19,463.68
Concrete & Reinforcing	650	IDOT Class PP Concrete (High Early)	8	CY	\$ 120.00	\$ 960.00	\$ 134.24	\$ 1,073.92
	651	IDOT Class PV Concrete (Hot Patch)	45	CY	\$ 145.00	\$ 6,525.00	\$ 137.47	\$ 6,186.15
	652	IDOT Class SI Portland Cement Concrete (Standard)	18	CY	\$ 115.00	\$ 2,070.00	\$ 127.12	\$ 2,288.16
	653	Concrete Fibers	8	CY	\$ 6.25	\$ 50.00	\$ 11.39	\$ 91.12
	654	Quikrete Hydraulic Water-Stop Cement, Five Gallons	3	Each	\$ 75.00	\$ 225.00	\$ 51.59	\$ 154.77
	657	Sak Krete 80 lb bag	2	Each	\$ 11.00	\$ 22.00	\$ 7.81	\$ 15.62

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Concrete & Gutter	658	Mortor Mix, 80 lbs	2	Each	11.00	\$ 22.00	9.32	\$ 18.64	
	661	1/2" Dia. X 18" Long Epoxy-Coated Dowel Bars	8	Each	\$ 0.50	\$ 4.00	\$ 1.59	\$ 12.72	
	662	3/4" Dia. X 18" Long Epoxy-Coated Dowel Bars	8	Each	\$ 6.00	\$ 48.00	\$ 3.57	\$ 28.56	
	668	Concrete Curb & Gutter	45	LF	\$ 50.00	\$ 2,250.00	\$ 126.50	\$ 5,692.50	
	Subtotals						\$ 12,176.00		\$ 15,562.16
Rip Rap & Gabions	702	Rip Rap, RR 1	54	Ton	\$ 16.00	\$ 864.00	\$ 18.60	\$ 1,004.40	
	703	Rip Rap, RR 2	30	Ton	\$ 16.00	\$ 480.00	\$ 18.60	\$ 558.00	
	704	Rip Rap, RR 3	80	Ton	\$ 26.00	\$ 2,080.00	\$ 29.10	\$ 2,328.00	
	705	Rip Rap, RR 4	200	Ton	\$ 31.00	\$ 6,200.00	\$ 29.10	\$ 5,820.00	
	706	Rip Rap, RR 5	1440	Ton	\$ 31.00	\$ 44,640.00	\$ 29.10	\$ 41,904.00	
	708	Geotechnical fabric for Rip Rap	1080	SY	\$ 1.00	\$ 1,080.00	\$ 1.96	\$ 2,116.80	
	Subtotals						\$ 55,344.00		\$ 53,731.20
Landscape Protection & Restoration	800	Duradeck Mat or Equivalent ground protection mat (4' x 8' panel)	135	Daily	\$ 1.00	\$ 135.00	\$ 10.00	\$ 1,350.00	
	801	Tree Removal (Over 15" Unit Diameter)	500	Unit	\$ 0.01	\$ 5.00	\$ 37.95	\$ 18,975.00	
	802	Fence Removal & Reinstallation	500	Foot	\$ 4.00	\$ 2,000.00	\$ 63.25	\$ 31,625.00	
	803	Silt Fence	200	LF	\$ 0.40	\$ 80.00	\$ 0.37	\$ 74.00	
	804	Inlet and Pipe Protection	40	Each	\$ 0.40	\$ 16.00	\$ 31.63	\$ 1,265.20	
	808	Straw Mulch	3600	SY	\$ 0.25	\$ 900.00	\$ 1.27	\$ 4,572.00	
	809	Top Soil	225	Ton	\$ 18.00	\$ 4,050.00	\$ 29.10	\$ 6,547.50	
	810	Sodding & Sod Staples as needed	900	SY	\$ 1.25	\$ 1,125.00	\$ 31.63	\$ 28,467.00	
	811	Seeding, Waterway Seed	135	LB	\$ 1.25	\$ 168.75	\$ 4.43	\$ 598.05	
	812	Seeding, Lawn Seed	315	LB	\$ 1.25	\$ 393.75	\$ 5.73	\$ 1,804.95	
	813	Seeding, Slope mixture	135	LB	\$ 1.25	\$ 168.75	\$ 7.97	\$ 1,075.95	
	814	Fertilizer	180	LB	\$ 1.00	\$ 180.00	\$ 37.95	\$ 6,831.00	
	Subtotals						\$ 9,222.25		\$ 103,185.65
	As-Read Bid Total						\$ 1,196,405.08		\$ 1,847,899.55
Verified Bid Total						\$ 1,196,405.08		\$ 1,847,946.42	