

Project No.: 2019-323-100-1				Kokosing Industrial, Inc.	
Project Name: Herron Hill Reservoir Improvements: Sodium Hypochlorite Building - General				\$2,233,057.00	
Items	Description	UOM	Est Qty	Unit Price	Extended Cost
U-1	Mobilization / Demobilization, Permits, Bonds and Insurance, Maintenance and Protection of Traffic, Special Inspections	LS	1	\$111,000.00	\$111,000.00
U-2	Manufacturer Services	TR	20	\$200	\$4,000.00
U-3	Rock and Obstruction Excavation, All Depths	CY	20	\$60	\$1,200.00
U-4	Additional Bedding Material, As Directed	CY	50	\$120	\$6,000.00
U-5	Concrete Encasements	LS	1	\$65,000.00	\$65,000.00
U-6	Concrete Anchors and Thrust Blocks	LS	1	\$1,000.00	\$1,000.00
U-7	Flag Person	MHR	24	\$50	\$1,200.00
U-8	Off Duty Uniformed Officer	MHR	24	\$150	\$3,600.00
U-9	Directional Drilling	LS	1	\$2,000.00	\$2,000.00
U-10	Concrete Pipe Supports	LS	1	\$2,500.00	\$2,500.00
U-11	Retaining Wall Leveling Pad	SF	380	\$4	\$1,520.00
U-12	Cellular Antenna	EA	1	\$1,750.00	\$1,750.00
U-13	Bollard Plastic Sleeves	EA	9	\$400	\$3,600.00
U-14	Concrete Bollards	EA	5	\$2,000.00	\$10,000.00
U-15	Observation Wells - Includes Installation and Monitoring	EA	2	\$30,000.00	\$60,000.00
U-16	Inclinometer - Includes Installation and Monitoring	EA	1	\$30,000.00	\$30,000.00
U-17	Surface Monitoring Points - Includes Installation and Monitoring	EA	3	\$2,500.00	\$7,500.00
U-18	Deformation Monitoring Points - Includes Installation and Monitoring	EA	3	\$2,500.00	\$7,500.00
U-19	Excavation and Disposal of Material	CY	1600	\$45	\$72,000.00
U-20	Field Survey and Engineering	LS	1	\$25,000.00	\$25,000.00
U-21	Demolition	LS	1	\$75,000.00	\$75,000.00
W-1	Ductile Iron Pipe Class 52 and Fittings - 4-inch Diameter	LF	45	\$188	\$8,460.00
W-2	Ductile Iron Pipe Class 52 and Fittings - 6-inch Diameter	LF	105	\$170	\$17,850.00
W-3	Ductile Iron Pipe Class 52 and Fittings - 12-inch Diameter	LF	25	\$285	\$7,125.00
W-4	Ductile Iron Pipe Class 52 and Fittings - 16-inch Diameter	LF	25	\$1,340.00	\$33,500.00
W-5	Ductile Iron Pipe Class 52 and Fittings - 20-inch Diameter	LF	20	\$1,010.00	\$20,200.00
W-6	Ductile Iron Pipe Class 52 and fittings - 30-inch Diameter	LF	5	\$840	\$4,200.00
W-7	Building Service Connection	LF	30	\$85	\$2,550.00
W-8	Medium Extension Gate Box - Cast Iron, Round Lid	EA	13	\$1,320.00	\$17,160.00
W-9	Cleaning of Sediment from Curb Box	EA	5	\$125	\$625
W-10	GPS Survey of Curb Box - Mapping Grade	EA	5	\$1,500.00	\$7,500.00
W-11	GPS Survey of Curb Box - Survey Grade	EA	5	\$1,500.00	\$7,500.00
W-12	48" Doghouse Manhole (0' to 15' Depth)	EA	2	\$8,500.00	\$17,000.00
W-13	48" Manhole (0' to 15' Depth)	EA	1	\$4,000.00	\$4,000.00
W-14	Connections Into Existing Water Brick/Concrete Structure (Manhole/Vault)	EA	10	\$325	\$3,250.00
W-15	Inspection of Curb Box	LS	1	\$3,300.00	\$3,300.00
W-16	Domestic Water Service Connection	LS	1	\$1,450.00	\$1,450.00
W-17	12" Gate Valve Installed as Part of New Water Line	EA	1	\$9,300.00	\$9,300.00

W-18	20" Gate Valve with 2" Bypass Installed as Part of New Water Line	EA	1	\$33,000.00	\$33,000.00
W-19	30" Gate Valve With 3" Bypass Installed to Replace Existing Valve	EA	2	\$72,000.00	\$144,000.00
S-1	4-inch Solid PVC Pipe - Including Bedding and Fittings	LF	267	\$28	\$7,476.00
S-2	6-inch Solid PVC Pipe - Including Bedding and Fittings	LF	230	\$54	\$12,420.00
S-3	4-inch Corrugated Polyethylene Pipe (CPEP) - Including Bedding and Fittings	LF	35	\$50	\$1,750.00
S-4	6-inch Corrugated polyethylene pipe (CPEP) Pipe - Including Bedding and Fittings	LF	100	\$26	\$2,600.00
S-5	15-inch Solid PVC Pipe - Including Bedding and Fittings	LF	60	\$36	\$2,160.00
S-6	Trench Excavation 0' - 15' Depth	CY	180	\$125	\$22,500.00
S-7	Aggregate Trench Backfill Above Pipe Zone	CY	37	\$185	\$6,845.00
S-8	Earthen Backfill Above Pipe Zone	CY	61	\$56	\$3,416.00
S-9	Additional PVC Fittings - All Sizes	EA	3	\$2,000.00	\$6,000.00
S-10	48" Pre-Cast Concrete Manhole (0' to 15' Depth)	EA	2	\$5,000.00	\$10,000.00
S-11	Manhole Tie-in/Connection	EA	4	\$100	\$400
S-12	Light Sewer Cleaning	HR	8	\$300	\$2,400.00
S-13	CCTV Inspection - 15" PVC	HR	4	\$340	\$1,360.00
S-14	4-inch/6-inch Pavement Base Drain	LF	100	\$2.50	\$250.00
S-15	Infiltration Trench	LS	1	\$20,000.00	\$20,000.00
R-1	Concrete Driveway Pavement	SY	225	\$105	\$23,625.00
R-2	Concrete Sidewalk	SY	25	\$195	\$4,875.00
R-3	Milling - Wearing Course	SY	50	\$20	\$1,000.00
R-4	Milling - Binder Course	SY	10	\$20	\$200
R-5	Bituminous Pavement Replacement - Wearing Course - Vehicular and Pedestrian Pavement	SY	600	\$20	\$12,000.00
R-6	Bituminous Pavement Replacement - Binding Course - Vehicular and Pedestrian Pavement	SY	550	\$35	\$19,250.00
R-7	Bituminous Pavement Replacement - Binder Course - Pedestrian Pavement	SY	60	\$21.50	\$1,290.00
R-8	Landscape Restoration	SY	1600	\$8	\$12,800.00
R-9	Crushed Stone Sub-Base	CY	225	\$95	\$21,375.00
R-10	R6 Rip-Rap	SY	90	\$170	\$15,300.00
R-11	Existing Block Wall Entrance Repair	LS	1	\$8,000.00	\$8,000.00
R-12	Tree and Stump Removal	EA	3	\$1,500.00	\$4,500.00
R-13	Tree Installation	EA	6	\$3,200.00	\$19,200.00
R-14	Flexible Paving - Joint and Crack Repairs	LF	550	\$5	\$2,750.00
R-15	Flexible Paving - Cutting and Patching Repairs	SY	100	\$95	\$9,500.00
G-1	AASHTO #57 Aggregate Landscaping	SY	35	\$50	\$1,750.00
G-2	AASHTO #3 Aggregate Stone	CY	50	\$230	\$11,500.00
G-3	Vertical Cleanouts	EA	3	\$250	\$750
G-4	Maintenance and Watering of Landscaping (1st year)	LS	1	\$4,000.00	\$4,000.00
G-5	Maintenance and Watering of Landscaping (2nd year)	LS	1	\$4,000.00	\$4,000.00
ESC-1	Compost Filter Sock, 12-inch Diameter	LS	1	\$5,000.00	\$5,000.00
ESC-2	Rock Construction Entrance	EA	1	\$10,000.00	\$10,000.00
ESC-3	Concrete Washout Facility	EA	1	\$7,500.00	\$7,500.00
ESC-4	Filter Bag Inlet Protection	EA	4	\$200	\$800
ESC-5	Pumped Water Filter Bag	EA	2	\$500	\$1,000.00
ESC-6	Tree Protection Fence	LS	1	\$2,500.00	\$2,500.00
ESC-7	Temporary Soil Stockpile	LS	1	\$5,550.00	\$5,550.00

M-1	Thermoplastic Process Pipe, Fittings, and Valves - 1/4-inch	LS	1	\$5,000.00	\$5,000.00
M-2	Thermoplastic Process Pipe, Tubing, Fittings, and Valves - 1/2-inch	LS	1	\$20,000.00	\$20,000.00
M-3	Thermoplastic Process Pipe, Fittings, and Valves - 1-inch	LS	1	\$5,000.00	\$5,000.00
M-4	Thermoplastic Process Pipe, Fittings, and Valves - 2-inch	LS	1	\$6,000.00	\$6,000.00
M-5	Thermoplastic Process Pipe, fittings, and valves - 3-inch	LS	1	\$4,000.00	\$4,000.00
M-6	Thermoplastic Process Pipe, Fittings, and Valves - 4-inch	LS	1	\$27,000.00	\$27,000.00
M-7	Thermoplastic Process Pipe, Fittings, and Valves - 6-inch	LS	1	\$15,000.00	\$15,000.00
M-8	Magnetic Flow Meters - 1/4-inch	EA	2	\$4,450.00	\$8,900.00
M-9	Magnetic Flow Meters - 16-inch	EA	2	\$13,225.00	\$26,450.00
M-10	Concrete Housekeeping Pad	CY	1	\$2,700.00	\$2,700.00
M-11	Concrete Containment Curb	CY	2	\$2,500.00	\$5,000.00
M-12	Pipe Hangars and Supports (Interior Piping)	LS	1	\$5,000.00	\$5,000.00
M-13	Sodium Hypochlorite Bulk Tank (TK-3351)	EA	1	\$17,000.00	\$17,000.00
M-14	Sodium Hypochlorite Transfer Pumps -Magnetic Drive Centrifugal Pumps	EA	2	\$1,500.00	\$3,000.00
M-15	Sodium Hypochlorite Day Tank (TK-3353)	EA	1	\$8,360.00	\$8,360.00
M-16	Sodium Hypochlorite Peristaltic Metering Pump Skid Package	EA	2	\$90,500.00	\$181,000.00
M-17	PLC Panel (CFCP)	EA	1	\$42,000.00	\$42,000.00
M-18	Process Controls Configuration and Programming	LS	1	\$124,000.00	\$124,000.00
M-19	UPS & Maintenance Bypass Switch (CF-UPS)	EA	1	\$10,275.00	\$10,275.00
M-20	Flow Switch High (FSH)	EA	1	\$1,730.00	\$1,730.00
M-21	Level Switch High (LSH)	EA	4	\$1,320.00	\$5,280.00
M-22	Pressure Indicator/Gauge (PI)	EA	2	\$1,215.00	\$2,430.00
M-23	Radar Level Sensor Element and Transmitter (LE/LIT)	EA	2	\$3,200.00	\$6,400.00
M-24	Back Pressure Regulating Valve (BPV)	EA	3	\$410	\$1,230.00
M-25	Fill Station Control Panel	EA	1	\$13,500.00	\$13,500.00
M-26	Sodium Hypochlorite Transfer Pump Control Panel	EA	1	\$18,600.00	\$18,600.00
M-27	Chlorine Analyzer Air Indicating Transmitter	EA	2	\$5,000.00	\$10,000.00
M-28	Chlorine Analyzers (CL-17)	EA	2	\$5,200.00	\$10,400.00
M-29	Level Indicating Element and Transmitter	EA	2	\$2,450.00	\$4,900.00
M-30	Flow Indicating Element and Transmitter (FE/FIT)	EA	4	\$2,330.00	\$9,320.00
M-31	16-inch In-line Wafer Style Static Mixer	EA	2	\$8,300.00	\$16,600.00
M-32	Pressure Switch and Gauge with Diaphragm Seal	EA	2	\$1,275.00	\$2,550.00
A-1	Roofing	LS	1	\$20,000.00	\$20,000.00
A-2	Gutters and Downspouts	LS	1	\$5,000.00	\$5,000.00
A-3	Roof Framing and Access Ladder	LS	1	\$45,000.00	\$45,000.00
A-4	Masonry Walls	LS	1	\$60,000.00	\$60,000.00
A-5	Concrete Slab and Foundation	LS	1	\$96,500.00	\$96,500.00
A-6	Interior Painting, Concrete Hardeners and Sealers, and Finishes	LS	1	\$55,000.00	\$55,000.00
A-7	Security	LS	1	\$40,000.00	\$40,000.00
A-8	Site Retaining Wall	LS	1	\$150,000.00	\$150,000.00