

**ENGINEER'S CONCEPTUAL OPINION OF PROBABLE COST
WASTEWATER SYSTEM UPGRADES
(OPTION 1 DIRECTIONAL DRILLING AND CONSTRUCTING NEW WASTEWATER FIELDS AT DRESDEN ATHLETIC FIELDS)
5,000 GALLONS PER DAY
FOR
SAU # 70 DRESDEN SCHOOL DISTRICT - MARION CROSS SCHOOL
PREPARED BY PATHWAYS CONSULTING, LLC (Project No. 11647)
December 7, 2021**

Item Number	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
1.01	Pump Station (Marion Cross School, with 2" Effluent Pump, 5,000 Gallon/Day)	1	AL	\$125,000.00	\$125,000.00
1.02	Backup Generator with Buried Propane Tank (Marion Cross Pump Station)	1	AL	\$30,000.00	\$30,000.00
1.03	Pump Station Controls and Telemetry Allowance	1	AL	\$25,000.00	\$25,000.00
1.04	Septic Tanks (Marion Cross School)	1	AL	\$20,000.00	\$20,000.00
1.05	2" DR11 HDPE Sewer Force main (Open Excavation Allowance, Borings will be Needed to Determine Extent, Assume 10% of Overall Force main Length)	1,000	LF	\$70.00	\$70,000.00
1.06	2" DR11 HDPE Sewer Force main (Directional Drill Method Allowance, Borings will be Needed to Determine Extent, Assume Drilling and Receiving Pits Every 500 LF, Assume 90% of Overall Force main Length)	7,240	LF	\$70.00	\$506,800.00
1.07	Off-site Wastewater System Component (Receiving Manhole)	1	EA	\$5,000.00	\$5,000.00
1.08	Off-site Wastewater System Component (Pump Station with Pump Chamber, and Backup Emergency Storage)	1	AL	\$100,000.00	\$100,000.00
1.09	Off-site Wastewater System Component (Flow Control Structures Each Field with Valves)	1	EA	\$7,500.00	\$7,500.00
1.10	Off-site Wastewater System Component (1 Wastewater Fields, Various Sizes)	10,560	SF	\$25.00	\$264,000.00
1.11	Off-site Wastewater System (Clearing and Grubbing)	1	AL	\$7,500.00	\$7,500.00
1.12	Off-site Wastewater System (Construction/Permanent Stabilized Access Allowance)	1	AL	\$7,500.00	\$7,500.00
1.13	Off-site Wastewater System (Grading Allowance)	1	AL	\$7,500.00	\$7,500.00
1.14	Off-site Wastewater System (Restoration of Vegetation)	1	AL	\$7,500.00	\$7,500.00
1.15	Remove and Dispose of Existing Pavement, Full Depth (Saw-cutting is incidental, Assume 10% of Force main Length in Road)	1,150	SY	\$10.00	\$11,500.00
1.16	Rock Excavation (Allowance, Borings will be Needed to Determine Extent)	500	CY	\$150.00	\$75,000.00
1.17	Exploratory Excavation	1	AL	\$10,000.00	\$10,000.00
1.18	Sewer Force main Valve Manhole with Air Release (Allowance)	4	EA	\$11,500.00	\$46,000.00
1.19	Sewer Force main Two-way Cleanout Manhole (Allowance)	4	EA	\$12,000.00	\$48,000.00
1.20	4' Diameter Sewer Manhole with Frame and Cover to Receive Service from School Prior to Pump Station	1	EA	\$5,500.00	\$5,500.00
1.21	Crushed Existing Tanks and Pump System in Place and Abandon Leach Field in Place	1	AL	\$15,000.00	\$15,000.00
1.22	6" SDR35 PVC Gravity Sewer Main, Allowance	100	LF	\$60.00	\$6,000.00
1.23	Roadway Gravel Replacement (24" Thickness, Assume 10% of Force main Length in Roadway)	775	CY	\$40.00	\$31,000.00
1.24	Bituminous Concrete Pavement Patch, (Assume 5" Thickness in Roadway, Assume 10% of Force main Length in Roadway)	1,150	SY	\$38.00	\$43,700.00

1.25	Temporary Bituminous Concrete Pavement Allowance	1	AL	\$25,000.00	\$25,000.00
1.26	Restoration of Growth of Lawns and Grasses	1	LS	\$8,000.00	\$8,000.00
1.27	Maintenance of Traffic	1	LS	\$25,000.00	\$25,000.00
1.28	Flaggers Hour	1,000	HOURS	\$40.00	\$40,000.00
1.29	Dewatering (Inclusive of Silt Sack Dewatering Bags, Pumps, Controls)	1	AL	\$15,000.00	\$15,000.00
1.30	Miscellaneous Erosion Control Allowance (EPSC Plan, Implementation and Maintenance)	1	AL	\$35,000.00	\$35,000.00
1.31	Mobilization/Demobilization (Assume 7.5% of Construction Cost)	1	LS	\$121,725.00	\$121,725.00
1.32	Miscellaneous Work and Cleanup (Assume 2.5% of Construction Cost)	1	LS	\$40,575.00	\$40,575.00
Subtotal				\$1,785,300.00	

Note: This Engineer's Conceptual Opinion of Probable Cost (EOPC) was established from the Conceptual Site Plans prepared by Pathways Consulting, LLC, dated December, 2021. In providing this EOPC, the Client understands that Pathways Consulting, LLC (Pathways) has no control over the unit costs or availability of labor, equipment or materials, market conditions, or the Contractor's method of pricing. This EOPC was developed on the basis of experience with similar projects, including current unit prices that have been received by Pathways for similar projects. Pathways makes no warranty, express or implied, that the bid, or the negotiated cost of the work for this project will not vary from this EOPC. Upon completion of a geotechnical investigation, formal design drawings, permitting, determination of funding source, and prior to construction of the project, Pathways may revise this EOPC to reflect actual design parameters and updated construction costs.

**ENGINEER'S CONCEPTUAL OPINION OF PROBABLE COST
WASTEWATER SYSTEM UPGRADES
(OPTION 4 DIRECTIONAL DRILLING AND CONSTRUCTING NEW WASTEWATER FIELDS AT DRESDEN ATHLETIC FIELDS)
15,000 GPD WITH PRE-TREATMENT
FOR
SAU # 70 DRESDEN SCHOOL DISTRICT - MARION CROSS SCHOOL
PREPARED BY PATHWAYS CONSULTING, LLC (Project No. 11647)
December 7, 2021**

Item Number	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
1.01	Pump Station (Marion Cross School, with 2" Effluent Pump, 5,000 Gallon/Day)	1	AL	\$125,000.00	\$125,000.00
1.02	Backup Generator with Buried Propane Tank (Marion Cross Pump Station)	1	AL	\$30,000.00	\$30,000.00
1.03	Pump Station Controls and Telemetry Allowance	1	AL	\$25,000.00	\$25,000.00
1.04	Septic Tanks (Marion Cross School)	1	AL	\$20,000.00	\$20,000.00
1.05	2" DR11 HDPE Sewer Force main (Open Excavation Allowance, Borings will be Needed to Determine Extent, Assume 10% of Overall Force main Length)	1,000	LF	\$70.00	\$70,000.00
1.06	2" DR11 HDPE Sewer Force main (Directional Drill Method Allowance, Borings will be Needed to Determine Extent, Assume Drilling and Receiving Pits Every 500 LF, Assume 90% of Overall Force main Length)	9,140	LF	\$70.00	\$639,800.00
1.07	Off-site Wastewater System Component (Receiving Manhole)	1	EA	\$5,000.00	\$5,000.00
1.08	Off-site Wastewater System Component (Pre-Treatment Allowance)	1	AL	\$40,000.00	\$40,000.00
1.08	Off-site Wastewater System Component (Weir Structure)	1	EA	\$12,000.00	\$12,000.00
1.09	Off-site Wastewater System Component (Pump Station with 3 Pump Chambers, and Backup Emergency Storage)	1	AL	\$125,000.00	\$125,000.00
1.10	Off-site Wastewater System Component (Flow Control Structures Each Field with Valves)	3	EA	\$7,500.00	\$22,500.00
1.11	Off-site Wastewater System Component (3 Wastewater Fields, Various Sizes)	15,360	SF	\$25.00	\$384,000.00
1.12	Off-site Wastewater System (Clearing and Grubbing)	1	AL	\$10,000.00	\$10,000.00
1.13	Off-site Wastewater System (Construction/Permanent Stabilized Access Allowance)	1	AL	\$7,500.00	\$7,500.00
1.14	Off-site Wastewater System (Grading Allowance)	1	AL	\$7,500.00	\$7,500.00
1.15	Off-site Wastewater System (Restoration of Vegetation)	1	AL	\$7,500.00	\$7,500.00
1.16	Remove and Dispose of Existing Pavement, Full Depth (Saw-cutting is incidental, Assume 10% of Force main Length in Road)	1,150	SY	\$10.00	\$11,500.00
1.17	Rock Excavation (Allowance, Borings will be Needed to Determine Extent)	500	CY	\$150.00	\$75,000.00
1.18	Exploratory Excavation	1	AL	\$10,000.00	\$10,000.00
1.19	Sewer Force main Valve Manhole with Air Release (Allowance)	4	EA	\$11,500.00	\$46,000.00
1.20	Sewer Force main Two-way Cleanout Manhole (Allowance)	4	EA	\$12,000.00	\$48,000.00
1.21	4' Diameter Sewer Manhole with Frame and Cover to Receive Service from School Prior to Pump Station	1	EA	\$5,500.00	\$5,500.00
1.22	Crushed Existing Tanks and Pump System in Place and Abandon Leach Field in Place	1	AL	\$15,000.00	\$15,000.00
1.23	6" SDR35 PVC Gravity Sewer Main, Allowance	100	LF	\$60.00	\$6,000.00
1.24	Roadway Gravel Replacement (24" Thickness, Assume 10% of Force main Length in Roadway)	775	CY	\$40.00	\$31,000.00
1.25	Bituminous Concrete Pavement Patch, (Assume 5" Thickness in Roadway, Assume 10% of Force main Length in Roadway)	1,150	SY	\$38.00	\$43,700.00

1.26	Temporary Bituminous Concrete Pavement Allowance	1	AL	\$25,000.00	\$25,000.00
1.27	Restoration of Growth of Lawns and Grasses	1	LS	\$8,000.00	\$8,000.00
1.28	Maintenance of Traffic	1	LS	\$25,000.00	\$25,000.00
1.29	Flaggers Hour	1,000	HOURS	\$40.00	\$40,000.00
1.30	Dewatering (Inclusive of Silt Sack Dewatering Bags, Pumps, Controls)	1	AL	\$15,000.00	\$15,000.00
1.31	Miscellaneous Erosion Control Allowance (EPSC Plan, Implementation and Maintenance)	1	AL	\$35,000.00	\$35,000.00
1.32	Mobilization/Demobilization (Assume 7.5% of Construction Cost)	1	LS	\$147,787.50	\$147,787.50
1.33	Miscellaneous Work and Cleanup (Assume 2.5% of Construction Cost)	1	LS	\$49,262.50	\$49,262.50
Subtotal				\$2,167,550.00	

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