30% Concept Design — *10/28/2019*
Opinion of Probable Construction Cost
Town of Erie
Lynn R. Morgan Water Treatment Facility Hydroelectric Facility

Description	Unit	Quantity	Unit Cost	Total Cost
DIVISION 01				
General Requirements				**$ 3,000**
Materials Testing Allowance	EA	1	$ 3,000	$ 3,000
DIVISION 02				
Existing Conditions				**$ 15,000**
Miscellaneous Site Demolition	LOT	1	$ 5,000	$ 5,000
Relocate existing pump house (by Town)	LOT	-	$ 6,000	$ -
Clearing and Grubbing	SF	8,000	$ 1.25	$ 10,000
DIVISION 03				
Concrete				**$ 71,343**
Base Slab (18" Thick)	CY	29	$ 600	$ 17,518
Foundation beams	CY	7	$ 800	$ 5,570
Turbine Equipment Pad	EA	1	$ 5,000	$ 5,000
Electrical Equipment Pads	EA	3	$ 500	$ 1,500
EPDM Roof, OWSJ	SF	526	$ 20	$ 10,510
Double T Roof Topping	CY	6	$ 500	$ 3,244
Drilled Piers	EA	8	$ 3,500	$ 28,000
DIVISION 04				
Masonry				**$ 34,348**
8" CMU	SF	1,717	$ 20	$ 34,348
DIVISION 05				
Metals				**$ 7,500**
Pipe Supports	EA	5	$ 1,500	$ 7,500
DIVISION 06				
Wood, Plastics and Composites				**$ 15,000**
Rough Carpentry	LS	1	$ 10,000	$ 10,000
Anchors and Fasteners	LS	1	$ 5,000	$ 5,000
DIVISION 07				
Thermal and Moisture Protection				**$ 26,768**
Downspouts	LS	1	$ 5,000	$ 5,000
Caulking/Sealant	LS	1	$ 8,000	$ 8,000
EPDM Roofing	SF	544	$ 12	$ 6,533
Building Insulation	SF	1,504	$ 3	$ 4,512
Roof Insulation	SF	544	$ 5	$ 2,722
DIVISION 08				
Openings				**$ 24,500**
Double Man door	EA	-	$ 6,000	$ -
Glass Block Windows	LS	-	$ 5,000	$ -
Single Man Door	EA	3	$ 3,500	$ 10,500
Overhead Door	EA	1	$ 14,000	$ 14,000

30% Concept Design ***10/28/2019***

Opinion of Probable Construction Cost

Town of Erie

Lynn R. Morgan Water Treatment Facility Hydroelectric Facility

Description	Unit	Quantity	Unit Cost	Total Cost
DIVISION 09				
Finishes				**$ 18,475**
Painting-Walls	SF	2,119	$ 4.00	$ 8,475
Painting-Pipe	LS	1	$ 10,000	$ 10,000
DIVISION 10				
Specialties				**$ 500**
Fire Extinguishers	EA	1	$ 500	$ 500
DIVISION 22				
Plumbing				**$ 8,000**
Raw water tap, BFP, PRV	EA	1	$ 1,000	$ 1,000
Raw water hose bib & support rack	EA	1	$ 1,500	$ 1,500
Floor drain with p-trap	EA	1	$ 1,000	$ 1,000
Sanitary drain, 2 inch material?	LF	35	$ 100	$ 3,500
Sanitary drain connection	EA	1	$ 1,000	$ 1,000
DIVISION 23				
HVAC				**$ 29,000**
Mini-split wall mounted heat pump	EA	1	$ 8,000	$ 8,000
Exhaust Fan - Turbine Room	EA	1	$ 5,000	$ 5,000
Unit Heater	EA	2	$ 2,000	$ 4,000
Ductwork and Fittings	LS	1	$ 2,000	$ 2,000
Grilles, Diffusers & louvers	EA	4	$ 500	$ 2,000
Controls	LS	1	$ 8,000	$ 8,000
DIVISION 26				
Electrical				**$ 184,000**
Switchgear modification	LS	1	$ 45,000	$ 45,000
Panelboards	EA	1	$ 6,000	$ 6,000
Duct Bank	LF	80	$ 125	$ 10,000
Conduit, Conductors, and Grounding	LS	1	$ 40,000	$ 40,000
Lighting	EA	8	$ 1,000	$ 8,000
30KVA transformer	EA	1	$ 8,000	$ 8,000
Enclosed Controller	EA	2	$ 2,000	$ 4,000
PF Capacitors (opt)	KVAR	150	$ 20	$ 3,000
Automation and Integration	LS	1	$ 60,000	$ 60,000
DIVISION 31				
Earthwork				**$ 12,343**
Erosion Control	LS	1	$ 5,000	$ 5,000
Excavation	CY	94	$ 15	$ 1,406
Backfill	CY	47	$ 20	$ 937
Finished Grading	LS	1	$ 5,000	$ 5,000

30% Concept Design *10/28/2019*
Opinion of Probable Construction Cost
Town of Erie
Lynn R. Morgan Water Treatment Facility Hydroelectric Facility

Description	Unit	Quantity	Unit Cost	Total Cost
DIVISION 32				
Exterior Improvements				**$ 5,755**
4" Sidewalk	SF	80	$ 18	$ 1,440
Aggregate Surfacing	CY	26	$ 40	$ 1,037
Subgrade Preparation	SY	156	$ 5	$ 778
Reseeding	SF	2,500	$ 1	$ 2,500
DIVISION 33				
Utilities				**$ 56,300**
12" Steel Pipe + 10% Allowance for Fittings	LF	212	$ 150	$ 31,800
12 inch connection	EA	2	$ 4,000	$ 8,000
8" drain pipe	LF	-	$ 100	$ -
12" Butterfly Valve	EA	3	$ 3,500	$ 10,500
8 foot manhole (flowmeter)	EA	1	$ 6,000	$ 6,000
DIVISION 46				
Equipment				**$ 377,838**
Turbine and included accessories	EA	1	$ 295,838	$ 295,838
12" Mag Meter	EA	1	$ 12,000	$ 12,000
Mag Meter Vault	EA	-	$ 5,000	$ -
Installation	EA	1	$ 70,000	$ 70,000
Construction Sub Total				**$ 890,000**
General Requirements	12.0%			$ 106,800
Bonds & Insurance	1.5%			$ 13,350
Sub Total				**$ 1,010,150**
Contractor Overhead & Profit	10.0%			$ 101,015
Construction Cost				**$ 1,111,165**
Design Development Contingency	10.0%			$ 111,117
Construction Contingency	10.0%			$ 111,117
Total				**$ 1,333,398**
Engineering	15.0%			$ 200,010
Total Project Cost				**$ 1,533,408**