ENGINEER'S OPINION OF PROBABLE PROJECT COST PROJECT: Lathrup Village SRT		DATE: PROJECT NO.		12/18/2023	
BASIS FOR ESTIMATE: [] CONCEPTUAL [X] PRELIMINARY [] FINAL Includes all items that need to be repaired or replaced in			ESTIMATOR:		
addition to work required for proposed operational			CHECKED BY:		
DESCRIPTION	QUANT.	UNIT	ENR CCI	TOTAL	Notes
		-	AMOUNT	AMOUNT	
Mobilization, 5% Max	1	LS	\$50,000	\$50,000	
Mechanical			+,	+,	
Demo existing pumps, pedestals, valves, mechanical, electrical	1	LS	\$40,000	\$40,000	
16" Influent suction isolation plug valves - P-1 thru P-3)	3	EA	\$12,000	\$36,000	V-1, V-2, V-3
P-4 & P-5 suction piping - core new openings, sleeve & link-seal	2	EA	\$5,000	\$10,000	
16" Influent suction piping	20	LF	\$125	\$2,500	P-4 & P-5
16" Influent suction isolation plug valves - P-4 & P-5 New centrifugal pumps P-4 & P-5 (Installed)	2	EA EA	\$12,000 \$55,000	\$24,000 \$110,000	V-4, V-5
12" discharge piping - P-4 & P-5	30	LF	\$55,000 \$100	\$110,000 \$3,000	
12" discharge isolation plug valves	5	EA	\$8,000	\$40,000	V-9, V-10, V-11, V-12,
12" discharge isolation plug valve actuators	3	EA	\$8,000	\$24,000	V-11, V-12, V-12
Rebuild Pump & Motor, Perform maintenance for P1, P2, P3	1	LS	\$47,000	\$47,000	AC-Pumps (Kenned
12" Influent pump check valves (P1, P2, P3)	3	EA	\$5,000	\$15,000	V-13, V-14, V-15
12" bypass pump check valves (P4, P5) 12" combined dewatering/bypass piping	2 40	EA LF	\$5,000	\$10,000	V-16, V-17
12" isolation plug valves - effluent chamber	40	EA	\$100 \$8,000	\$4,000 \$32,000	Combined pipe to sewe V-36, V-39, V-40, V-
12" plug valve actuators - effluent chamber	3	EA	\$8,000	\$32,000	V-36, V-39, V-88
12" P4/P5 discharge piping - Core new hole and seal	2	EA	\$5,000	\$10,000	Through wet wel
12" Wall Pipe with Structural Concrete & Water Stop	1	LS	\$15,000	\$15,000	36" to 12" gravity wall pe
8" Dewatering Pump Suction Isolation Plug Valves - 8" Rebuild Pump & Motor, Perform maintenance for P7, P9	4	EA LS	\$6,000	\$24,000	V-19, V-20, V-21, V-
8" Dewatering pump check valves P-7 & P-8	2	EA	\$10,000 \$3,500	\$10,000 \$7,000	Kennedy V-29, V-30
Dry well duplex sump pump, valves, piping	1	LS	\$15,000	\$15,000	v 25, v 50
New 4'x4' Sump Pit Grating	1	LS	\$3,500	\$3,500	
Flushing system hose bibbs & piping	6	EA	\$3,000	\$18,000	
4" Air Relief Valves	5	EA	\$2,000	\$10,000	V-13A, V-14A, V-15A, V-16
4" Gate Valves - ARV Isolation	5	EA	\$1,000	\$5,000	V-13B, V-14B, V-15B, V-16
HVAC					
Unit heaters Replacement Allowance (13 Heaters)	1	LS	\$15,000	\$15,000	
Supply & Exhaust Fans Maintenance Allowance	1	LS	\$10,000	\$10,000	
Building/Ancillary					
Dry well & wet well lighting - LED	1	LS	\$25,000	\$25,000	
Tank crack injection repair - Type 1A (Non-weeping cracks) Tank crack injection repair - Type 1B (Weeping Cracks)	500 500	LF LF	\$15 \$25	\$7,500 \$12,500	
Ceiling repair - Tank stairwells	1	LF	\$10,000	\$10,000	
Electrical					
Electrical Repair emergency lights throughout entire building	1	LS	\$5,000	\$5,000	
Wire and Conduit	1	LS	\$60,000	\$60,000	
Revisions to MCC/New Buckets	1	LS	\$10,000	\$10,000	
Junction Boxes/Racks/Supports	1	LS	\$40,000	\$40,000	
Disconnect Switches	1	LS	\$25,000	\$25,000	
Arc flash study & labeling	1	LS	\$10,000	\$10,000	
Instrumentation					
New area-velocity gravity flow meter - 18"	1	LS	\$20,000	\$20,000	
New PLC Panel & SCADA integration	1	LS	\$189,600	\$189,600	
Floats & Level transducers	1	LS	\$20,000	\$20,000	
			Subtotal	\$1,048,600	
General	Conditions, Ov	erhead ar	nd Profit (15%)	\$157,000	
	tingency (15%)	\$157,000			
	struction Cost	\$1,362,600			
	Total F	Project Co	ost Percentage	100%	

Notes			1		2	
	Cost Allocation	Lathrup Village		EFSDS		
	2	\$	-	\$	50,000	
	2	\$	-	\$	40,000	
V-1, V-2, V-3	1	\$	36,000	\$	-	
P-4 & P-5	2 2	Ş	-	\$ \$	10,000	
V-4, V-5	2	ې د	-	ې \$	2,500 24,000	
V 4, V 3	2	ś	-	\$	110,000	
	2	Ś	-	\$	3,000	
V-9, V-10, V-11, V-12, V-12A	2	\$	-	\$	40,000	
V-11, V-12, V-12A	2	\$ \$ \$ \$ \$ \$ \$ \$ \$	-	\$	24,000	
AC-Pumps (Kennedy)	1	\$	47,000	\$	-	
V-13, V-14, V-15	2		-	\$	15,000	
V-16, V-17	2	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-	\$	10,000	
Combined pipe to sewer (40')	2	\$	-	\$	4,000	
V-36, V-39, V-40, V-88	2	\$	-	\$	32,000	
V-36, V-39, V-88	2	\$	-	\$	24,000	
Through wet well	2	\$	-	\$ \$ \$	10,000	
" to 12" gravity wall penetration	2	\$	-	\$	15,000	
V-19, V-20, V-21, V-22	1	Ş	24,000	Ş	-	
Kennedy	1	\$	10,000	\$ \$	-	
V-29, V-30	1	\$ \$	7,000	\$ \$	-	
	1 1	\$ \$	15,000 3,500	\$ \$	-	
	1	ې \$	18,000	ې \$	-	
.3A, V-14A, V-15A, V-16A, V-17A	1	\$	10,000	\$	_	
L3B, V-14B, V-15B, V-16B, V-17B	1	\$	5,000	\$	-	
	1	\$	15,000	\$	-	
	1	\$	10,000	\$	-	
	1	\$	25,000	\$	-	
	1	\$	7,500	\$	-	
	1	\$	12,500	\$	-	
	1	\$	10,000	\$	-	
	1	\$	5,000	\$	-	
	2		-	\$	60,000	
	2	\$ \$ \$	-	\$	10,000	
	2	\$	-	\$	40,000	
	2	\$	-	\$	25,000	
	2	\$	-	\$	10,000	
	2	\$ \$	-	\$	20,000	
	2	\$	-	\$	189,600	
	2	\$	-	\$	20,000	
	Subtotal	\$ \$	260,500 39,000	\$ \$	788,100 118,000	
		\$	39,000	\$	118,000	
		\$	338,500	\$	1,024,100	
		LATHRUP 25%			EFSDS	
		25%			75%	