March Marc		Newton Gravel Pit Watermain, Phases 2 and 3 Potential 4 Bid Packages City of Manitowoc Hourly Rate	Quality 15 Assurance/Abrisor Nazanac, P.E.	Ollent and Serior Project Manager - Hartjes, P.E.	vous gard peal 3 d	Lead Design Refrer,	Lad Design Barbesu, P.E.	Project Enginee	broject Englueer	January States	\$urvey Lead-Sturm, P.L.S.	\$130	Survey Oriet, Filteroft	Nanch Orem	sandy crew/brane	50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Wetland Delineation and Permitting: Pergands, SPWS	tsigoposit Ecologist S130	Constructability, Schafer, PE	%iller Seinhart Steinhart Steinhart	TOTAL
Column	Pi	nase 2 Watermain on Viebahn, Hecker and Silver Creek									8					8					16
March Marc	Co Ar	onfirm No Wetlands-Desktop Analysis (Previously Designed so no wetland delineation) rcheological/Historical	2															8			12 10
Control Cont	P€	ermitting Updates/Submittals with DNR/DOT		8		12		8											4		128 28 12
Mathematical parameter Mathematical parame	Fi	nal Bid Documents (separate water out of overall plans)		2		4															22
Mathematical John Mathematical John Mathematical Mathem	SI	JBTOTAL HOURS	2													8					240 \$36,352
Controlled Control C			\$376	\$4,136		\$10,432		\$16,016			\$1,280						\$1,896	\$1,040			\$36,352
Mathematical Content	Su Di	ırvey QC/Coordination ggers/Survey Drafting									8	6	32								8 38
Mathematical part of the par	Co	orridor Survey/Drone		2										16	120	•					16 120
March Marc	w	etland Delineation, Field Delineation/Survey (up to 12,000')		2						8							27	27			22 56 26
Manufacin Manu	Ar	cheological/Historical	2							4								20			36 22
Property 1988	М	aster Plan Layout/Sections		4	16	4										8					16 54 192
Mathematic Mathemati	Fi	nal Design to 90%		4	16			32											4	8	64 36
Common proper Common prope	Su	bmittals/Reviews with City/MPU	2		8			8													26 28
March Control Contro	Co	onstruction Staging/Phasing		8	4															4	30 28
Company content of the company content of t	Fi	nal Bid Sets and Documents			8			16			4								2		16 30 10
March Marc	Di PS	OT permitting (43 crossing) GC and Construction Authorization		4	32			8													12 44
March Marc	w	DNR NOI			2																34 10 16
Section Sect	RF	R Permit	4		16			16													32 64
Mathematical parameter) (1 Mathematical parameter) (1 Mathematical parameter) (1 Mathematical parameter) (2 Mathematical parameter) (3 Mathematical parame								4													16
Second Control Contr																					1110 \$175,030
Control protection	Da	ata Gathering/GIS Information									8					8					8
Member Secretary Property 19.150 1.0 1.	Di	ggers/Survey Drafting										6	32	16							38 16
Marcia from Engene Marcia Promissing Connect Promis	w	etland Review-Desktop Analysis							4						112	8					112 26
Controlled Supplementary 2 2 1 1 1 1 1 1 1 1	w	etland Exemption		4												4	4	6			56 26 32
Manufacture	Aı	rcheological/Historical								-								10			12
Manuface Services	M Pr	aster Plan Layout/Sections elim Design up to 30%		12		60															4 172
Continue Single-phone Part	W	ater Services	2	4		12			16										4	8	64 32 26
Control of Control o	Co	ost Estimates 30/60/90	-	4		8													2		28 18
SMITCON APPROACH (Communication)	Ea	isements		4		4			4		4									4	28 16
Mate	Ut	tility Coordination (Gas, electric, Communications)				2			8										2		30 10 12
Conversion Control C	PS	C and Construction Authorization		4		16			8												28
Ching Committee and MATUM Methods (1 to this per section) 4	Co	ounty and Township Coordinations		8		8															10 16
Surrout Notes	Ci	ty, Committee and MPU Meetings (1 extra per section)	4																		32 8 16
Pass Watersamis Section Spanned Spanne			10							12	12	6	32	16	112	20	55	55	16	12	922
Supply Conformation	Pi	nase 3 Watermain Section 3 (approximately 2.3 miles)										\$780				\$2,940					\$144,356
Control/Rendmarks	St	rvey QC/Coordination									8	6	37			8					8 8 38
Wethand Delininations (Selected Perimenting (%) por 12,0007)	Co	ontrol/Benchmarks											<i></i>	16	112						16 112
Wetland Permitting, Goleral PermittyNitigation	w	etland Delineation, Field Delineation/Survey (up to 12,000')		2													27	27			28 56
Sevice Past Models Confirm Sing	W	etland Permitting, General Permitting No Individual Permit/Mitigation	2							_						4	8				26 32 6
Prelim Design up to 30% Final Design to 90% Final Design to	Re	eview Past Models/Confirm Sizing		2												2					4
Submittals/Reviews with City/MPU 2 8 8 8 8 8 8 16 8 8 8 16 6 16 16 1 1 1 1	Pr Fi	elim Design up to 30% nal Design to 90%		4			16			32									4	8	172 64
Specifications	Sı	bmittals/Reviews with City/MPU	2	8			8			8											28 26 28
Easements	Sp	pecifications		4			8													4	14 14
DOT permitting (43 crossing) (assume only needed on 2 sections) PSC and Construction Authorization MONR Watermain Permit/Fie Flows 1 2 1 16 1 16 1 16 1 16 1 17 16 1 17 17 17 18 1 18 1	Ea Fi	sements nal Bid Sets and Documents					8			16	4					_			2		16 30
WONR Watermain Permit/Fire Flows 2 16 16 16 17 17 18 17 18 18 18 18	Di	OT permitting (43 crossing) (assume only needed on 2 sections)		4																	10
County and Township Coordinations	W	DNR Watermain Permit/Fire Flows					16			16											34 10
Bidding (provide Bid Documents and Calls with Contractors) 4 8 8 4 4 8 8 6 8 12 6 32 16 112 22 49 55 10 12 2	Co RE	ounty and Township Coordinations R Permit (none in this section)					8														16
S1,128 S16,168 S28,362 S38,464 S1,920 S38,464 S1,920 S4,160 S3,648 S1,696 S3,244 S7,142 S7,150 S1,896										4											8 16
Total Hours 30 334 270 272 182 416 268 272 44 18 96 48 344 78 181 177 42 36	St	JBTOTAL HOURS	6 \$1,128																		840 \$131,228
Total Fee \$5,640 \$62,792 \$44,010 \$44,336 \$29,666 \$59,488 \$38,241 \$38,896 \$7,040 \$2,340 \$10,944 \$54,352 \$11,466 \$28,598 \$23,010 \$7,896 \$5,688 Total Expenses \$300 \$100 \$100 \$100 \$100 \$100 \$200 \$200 \$200 \$100 \$800 \$508	To	otal Fee		\$62,792	\$44,010	\$44,336	\$29,666			-		\$2,340	\$12,480	\$10,944	\$54,352		\$28,598	\$23,010			3,108 \$473,382 \$2,600
Total Expenses \$3.00 \$1.			\$5,640			+		\$59,488	\$38,324	\$38,896	\$7,040					\$11,466	_		\$7,896	\$5,688	\$489,566

Total Estimated Fee \$489,566

ASSUMPTIONS

Total project limits is 9 miles, or about 47,000' (phase 2 already under designed and surveyed)

Site Survey assumed 10' past right of way to 10' past right of way over 7 miles (most of phase 2 picked up already)

Wetland Delineation assumes 1 side over the 7 miles (nothing needed on phase 2); however, we will confirm exact limits with the desktop analysis and eliminate areas not needed.

No Geotech included, but depending on initital analysis could do 3 days worth of geotech (about 15 borings) for about \$15,000

As of now we assume no Phase I will be needed and we will just complete an endangered resourse review, along with a screening for historical and archeological building and arftifacts.

However, if a Phase I is needed we can complete this task for approximately \$15,000, depending on what the screening or review agencies ask for.

We assume that an environmental assessment is not needed; and the aforementioned screening will cover the Archeological/Historical needs, but if required we will work with the City on this item. Fees include mileage for meetings, surveyors and wetland delineations, plus DNR NOI fee; no other fees anticipated but if required they will be pass through fees. Final Bid Docs and Bidding assumes City/ MPU will bid thru Quest and we will provide PDF of final bid sets and answer bidders questions and prepare addendum's as necessary Phase 2 design (Viebahn, Hecker and Silver Creek) is 50% done; we will finish the remaining design with this and remove the previous design and include with these bid docs.

No Stormwater design/permitting required.

No Construction Services are needed at this time

Fees are based upon 2023 rates and will be held for all 2024 hours Assume all bids will be completed in early 2024 (spring of 2024)