TO BOARD OF PUBLIC WORKS City Engineer's Estimates Fo	wu-16-7 2016 RE-L	VU-16-7 2016 RE-LINING SANITARY SEWER				September 7,	2016 1 & final	
Terra Engineering & Construction Co	February 15, 2016	THE OF WORK PER ORDER	16-08		August 31, 2016		\$319,017.00 amount of Contract	
Re-lining Sanitary Sewers		Various Locations	CONS				CO#1 \$589.69 CO#2 (\$10,055.00) TOTAL \$309,551.69	
DESCRIPTION	NO. 1 PREVIOUSLY COMPLETED	NO. 2 COST WORK PREVIOUSLY COMPLETED	NO. 3 COMPLETED TO DATE	NO. 4 COST WORK COMPLETED TO DATE	NO. 5 DIFFERENCE COLUMNS 1 & 3	NO. 6 DIFFERENCE COLUMNS 2 & 4	. SEP - 7 2016	
	COMPLETED	GOIN LETES	TODATE	DATE	COLOMINO TO	OCCOMING 204	Date approved by Board	
							AMOUNT RECOMMENDED	
		SEE	COMPUTER PRINT	OUT			s 309,551.69	
			FOR DETAILS				BOARD	
							SIGNATURES	
							I'm fany	
							Flum	
							Servife Undon	
							Date Paid	
							Check No. Voucher No.	
TOTALS		\$0.00		\$309,551.69		\$309,551.69	_{Chg.} 6300-71100-582600	
PAYMENT		\$0.00		\$309,551.69		\$309,551.69		
AMOUNT DUE, FINAL PAYMENT 100%	_					\$309,551.69	Copy For	
Signature 9-6-11 CITY ENGINEE	<u>R</u>						Council Board Voucher	

PAY ESTIMATE WORKSHEET

FOR 2016 RE-LINING SEWERS

CITY OF MANITOWOC

CONTRACT NO. WU-16-7

Contractor: Terra Engineering & Construction Co.

PAY ESTIMATE NO.: 1 & FINAL

DATE: September 7, 2016

CONTRACT AMOUNT: \$319,017.00

CO #1: \$589.69

CO #2-FINAL: -\$10,055.00

\$309,551.69

CONTRACT DATE: February 15, 2016

COMPLETION DATE: August 31,2016

item No.	ITEM DESCRIPTION	UNITS	BID QUANTITY	UNIT PRICE	QUANTITY PREVIOUS COMPLETED	COST WORK PREVIOUS COMPLETED	QUANTITY COMPLETED TO DATE	% OF WORK COMPLETED TO DATE	COMPLETED TO DATE	QUANTITY DIFFERENCE	COST WORK
	NING SANITARY SEWERS										
AT VA	RIOUS LOCATIONS										
1.	Mobilization	LS	1	\$8,000.00	0.0	\$0.00	1.0	100%	\$8,000.00	1.0	\$8,000.00
2.	Traffic Control	LS	1	\$750.00	0.0	\$0.00	1.0	100%	\$750.00	1.0	\$750.00
3.	Furnish & Install 8" Sanitary Sewer Re- line with CIPP	LF	7,211	\$20.00	0.0	\$0.00	7,788.0	108%	\$155,760.00	7,788.0	\$155,760.00
4.	Furnish & Install 10" Sanitary Sewer Re-line with CIPP	LF	3,667	\$24.00	0.0	\$0.00	2,783.0	76%	\$66,792.00	2,783.0	\$66,792.00
5.	Furnish & Install 12" Sanitary Sewer Re-line with CIPP	LF	1,051	\$28.00	0.0	\$0.00	1,055.0	100%	\$29,540.00	1,055.0	\$29,540.00
6.	Furnish & Install 20" Sanitary Sewer Re-line with CIPP	LF	466	\$57.00	0.0	\$0.00	470.0	101%	\$26,790.00	470.0	\$26,790.00
7.	Lateral Reinstatement	EA	285	\$25.00	0.0	\$0.00	254.0 *	89%	\$6,350.00	254.0	\$6,350.00
8.	Furnish & Install 12" Storm Sewer Re- line with CIPP	LF	533	\$28.00	0.0	\$0.00	535.0 *	100%	\$14,980.00	535.0	\$14,980.00
CO #1	Install 10" to 8" Transition Liner	LS	1	\$589.69	0.0	\$0.00	1.0 *	100%	\$589.69	1.0	\$589.69
	TOTAL FOR CONTRACT WU-16-7					\$0.00			\$309,551.69		\$309,551.69
	PAYMENTS					\$0.00		100.0%	\$309,551.69	100.0%	\$309,551.6

NOTE: ASTERIK (*) DENOTES FINAL QUANTITY OR MEASUREMENT.

PREPARED BY: JME & GJM

O.K. to Pay S.J.M. 8/31/16

FINAL PAYMENT LIEN WAIVER

KNOW ALL MEN BY THESE PRESENTS that
WHEREAS, the undersigned Terra Engineering : Construction Carp.
as General Contractor, entered into a Contract with the City of Manitowoc for the complete construction of
Manitowoc 2016 Lining ,and
WHEREAS, the undersigned has completed 100% of construction under the terms of the construction
agreement,
NOW THEREFORE in consideration of final payment by the City of Manitowoc to the undersigned
Terra Engineering Const Corp. the undersigned hereby waives and releases any and all
liens, claims or rights to file any lien or liens to the extent of the payment above referred to against the City of
Manitowoc, and
The undersigned further states that all wages, materials, social security taxes, withholding taxes, sales
and use taxes, permits, sub-contractors and materialmen have been fully paid and discharged for all work
performed; workmen's compensation and other insurance premiums and all taxes have been fully paid and
discharged.
The undersigned further agrees to save harmless the City of Manitowoc from any matter or thing arising
from the filing of claims or liens by any workman, sub-contractor or materialmen in connection with the work
performed.
IN WITNESS WHEREOF, the General Contractor by its' authorized representative has caused this
waiver to be signed.
This 12th day of August, 2016.
Long Asto Contractor
Witness: Kana a. Brokwle

Form #530