

# LQB PLAZA RECONSTRUCTION



Project Name: Lewiston Queenston Bridge Plaza Reconstruction  
Duty Free Facility - Lewiston Queenston Bridge  
Project Location: Lewiston, NY 14092  
Bid Due Date: 7/18/2014 1:00:00 PM - ET  
Engineer: Parsons Engineering Owner: Niagara Falls Bridge Commission  
Project Manager: Turner Construction  
GC: Mark Cerrone Inc., Niagara Falls, NY  
Precaster: Kistner Concrete Products Inc. - Lockport, NY - NPCA Cert. Plant.



**Project Scope Includes:**

Construct of 18,000 Sq. Ft. for Retaining Wall..(i.e.) 200 Precast

"Kast Block - Max" Retaining Wall Elements Dimensions: 5' H x 20' Lg. x 4' to 10' Depth. (Avg. 10 ton ea.)

Exposed aggregate form liner - Architectural face was supplied.

Crash Wall. 1632 LF or Apx. 103 Elements: 9' Tall x 16' long x 18" thick wall & Rear return, with Exposed aggregate form liner - Architectural face.

Sound Wall - 153 Panels: 3' x 16' x 8" Tk. Architectural face Two sided alternating smooth wall Panel Pattern panels. (Galv. Steel Reinf.)

Sleeper Slab Footers: 200 + Precast footers - 4' x 4' x 12" tk.

Precast was the choice of construction to accelerate the construction time in limited access high Volume,

high security, high profile & highly sensitive, US / Canada Border Crossing.

Kast Block units are Stacked up to 4 high = 20' + 10' Crash Wall & sound wall above for Max. structure of up to 39'-0" Tall structure.

A great application of Precast Concrete... All Precast is currently complete & installation of Structure is currently occurring.

Project timeline: Bid. 7-18-2014

Purpose for project: Expand & Re-Build obsolete US-Canada International Border Crossing.

What made this project a creative use of precast: Large Retaining Wall - Oversize.

Crash Wall for Truck Traffic & Sound wall. Max. total height reached 40'

What's special about "Kast-Block Max" for this specific project? Shear size & scope of Project.

Project size? \$ 130 Million Overall Project Size Precast: Apx. 1,000,000.00

What were the special details included for the precast RW / CW & Sound Wall?

Specific Plan layout boundary's Multiple Turns in wall Pipe Penetrations (Stormwater Issues)

Accommodates for significant Electrical & Communication (international Border)

**TAKE A  
NEW LOOK AT  
PRECAST**

**KISTNER  
CONCRETE  
PRODUCTS  
INC.**

**NPCA**  
Precast ... The Concrete Solution

**Project: LEWISTON-QUEENSTON RETAINING WALL**

**Location: TOWN OF LEWISTON, NEW YORK**

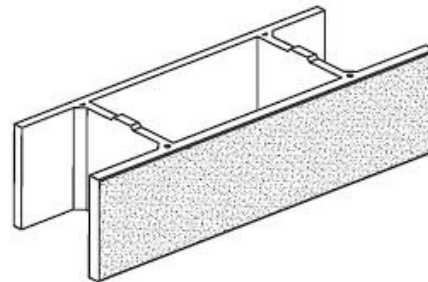
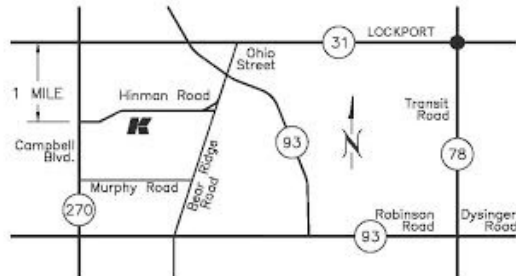
**Product: KAST-BLOCK MAX RETAINING WALL**

**Contractor: MARK CERRONE INC.**

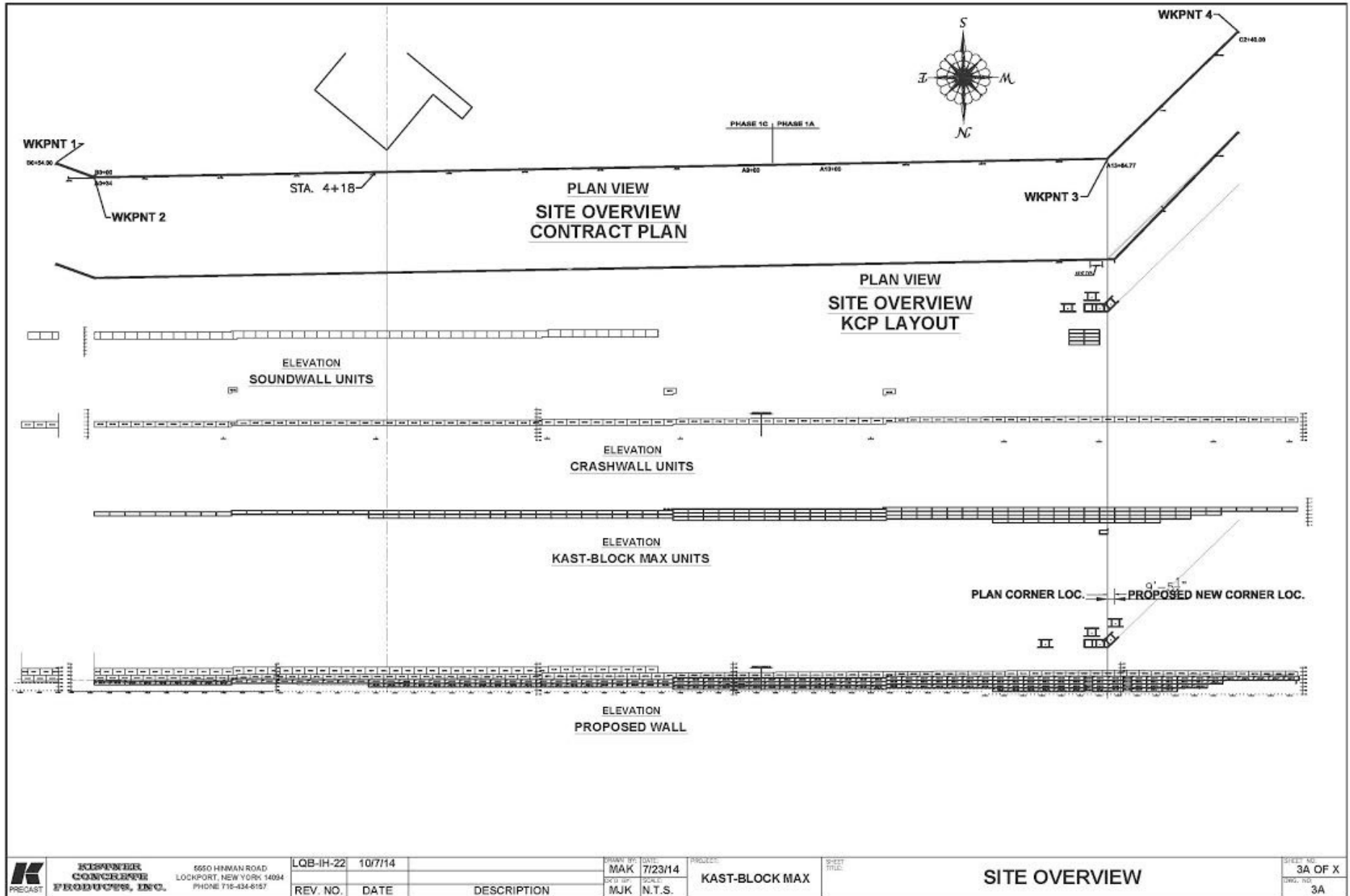
**Job I.D. : LQB-KBMAX-RETWALL-CERRONE**

**SHT. NO**

01	TITLE SHEET & INDEX
02	ELEVATIONS - 1
03	ELEVATIONS - 2
03A	SITE OVERVIEW
03B	WORK POINT 1 & 2 EAST DETAIL
03C	WORK POINT 3 & 4 WEST DETAIL
04	ELEVATION AND SECTION
05A	KB MAX RETAINING WALL NOTES
05B	KB MAX - 4 FT. DETAILS
05C	KB MAX - 6 FT. DETAILS
05D	KB MAX - 8 FT. DETAILS
05E	KB MAX - 10 FT. DETAILS
05F	SLEEPER SLAB DETAILS
05G	KB MAX - BRG. PAD LOCATIONS
06	CRASHWALL DETAILS 1
06A	CRASHWALL NOTES
06B	CRASHWALL DETAIL WITH MOMENT SLAB
07	SOUNDWALL DETAIL
07A	SOUNDWALL NOTES
07B	SOUNDWALL BEARING PAD & BACKER ROD DETAILS
08A	FORMLINER DETAILS - KB MAX UNITS
08B	FORMLINER DETAILS - CRASHWALL
22	TOTAL NUMBER OF SHEETS



REV. NO.		DATE	DESCRIPTION
PREPARED FOR:		ACCT # 31446	
MARK CERRONE INC. 5600 NIAGARA FALLS BLVD. NIAGARA FALLS, NY 14304			
JOB ID: LQB-KBMAX-RETWALL-CERRONE			
DATE: 6/4/14	TITLE: TITLE & INDEX	DRAWN BY: MAK	
SCALE: N.T.S.		CHECKED BY: MJK	
PROJECT: LEWISTON-QUEENSTON RETAINING WALL LEWISTON, NEW YORK 14092			
ORDER NO: 14KCP038-0	ORDER DATE: 01 OF 22	ORDER NO: SS300-SS503	
<b>KISTNER CONCRETE PRODUCTS, INC.</b> 5550 HINMAN ROAD LOCKPORT, NEW YORK 14034 PHONE 716-434-6157 <small>PROPRIETARY INFORMATION ALL RIGHTS OF INVENTION RESERVED. PATENTS, U.S.A.</small>			
By: _____		DATE _____	
<input type="checkbox"/> Approved		<input type="checkbox"/> Approved As Noted	



**KESPERER CONCRETE PRODUCTS, INC.**  
 5550 HENMAN ROAD  
 LOCKPORT, NEW YORK 14094  
 PHONE 716-434-8157

QOB-IH-22	10/7/14	
REV. NO.	DATE	DESCRIPTION

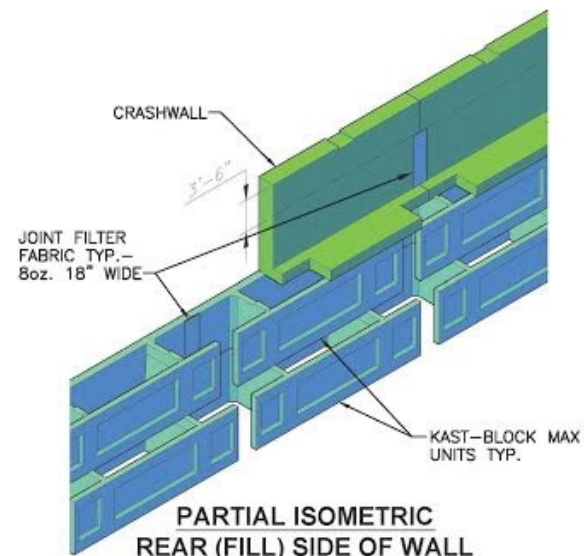
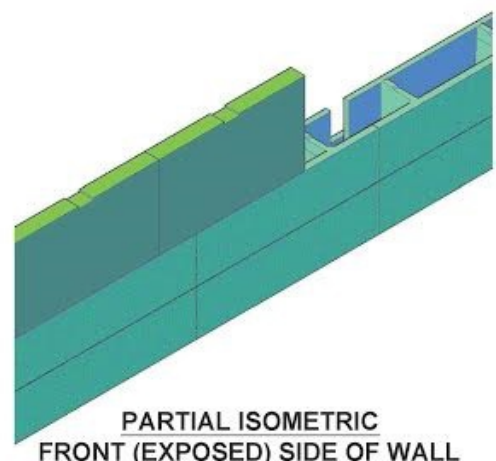
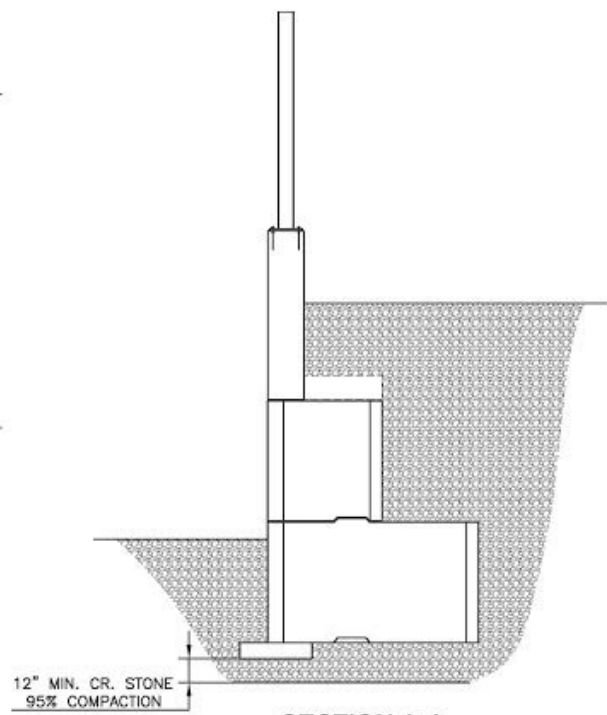
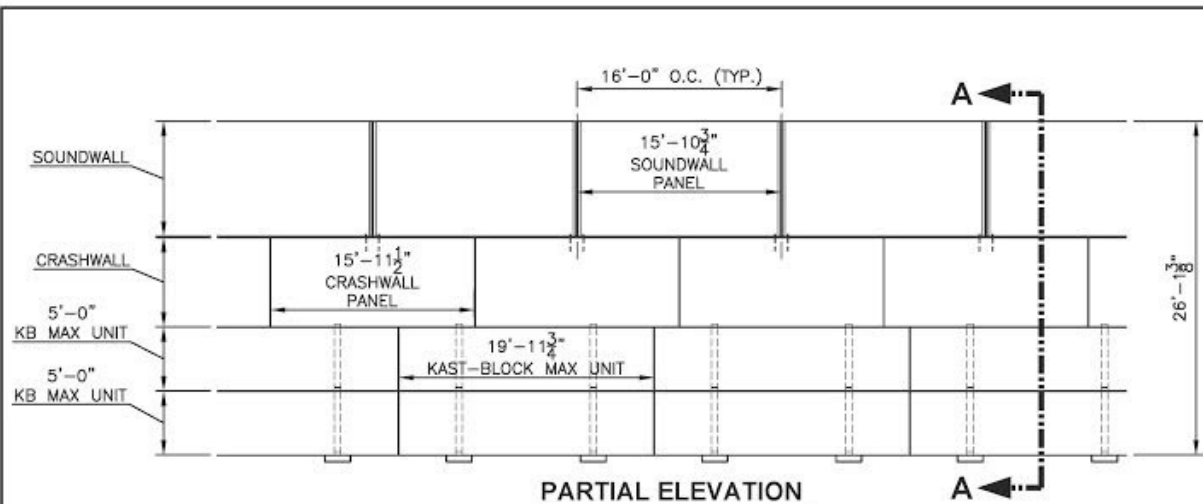
DRAWN BY: MAK	DATE: 7/23/14
CHECKED BY: MJK	SCALE: N.T.S.

PROJECT: **KAST-BLOCK MAX**

SHEET TITLE:

**SITE OVERVIEW**

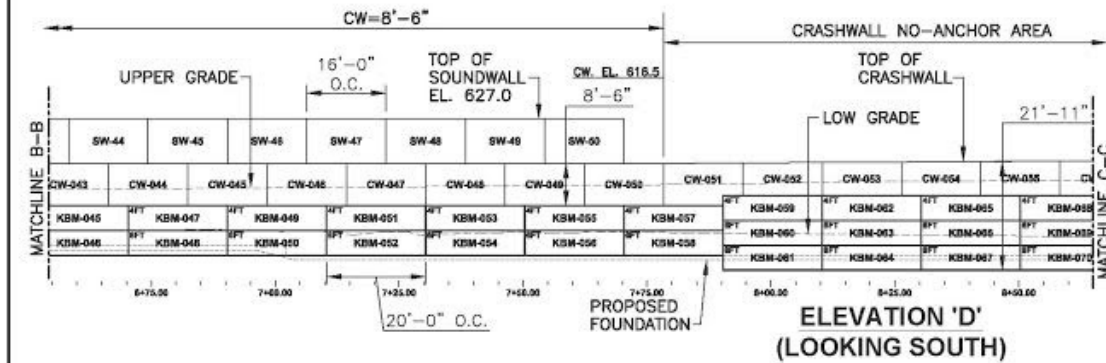
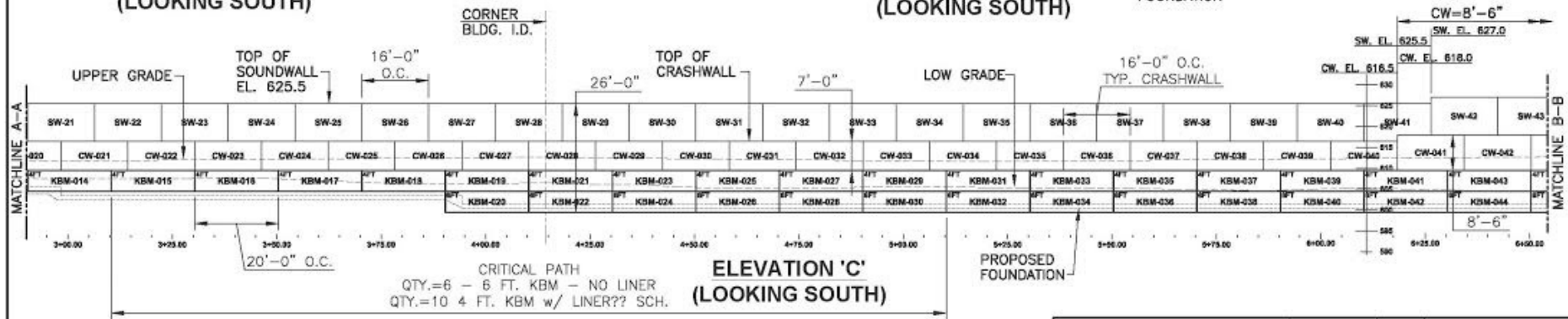
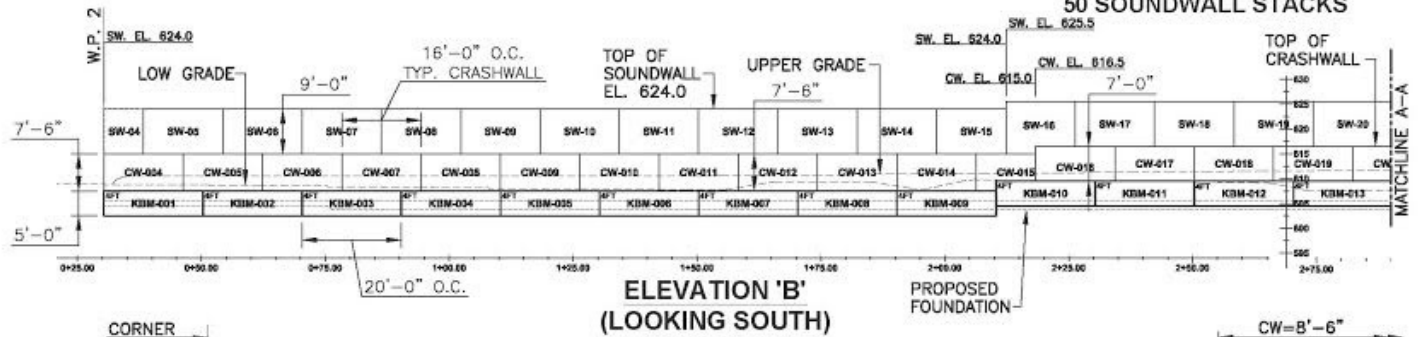
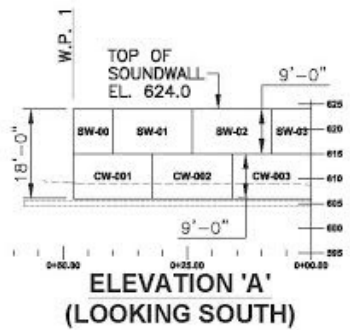
SHEET NO. **3A OF X**  
 DRAW. NO. **3A**



**SECTION A-A**

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PRELIMINARY TOTALS:  
 190 KAST-BLOCK MAX PCS.  
 102 CRASHWALL PCS.  
 50 SOUNDWALL STACKS



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REV. NO. _____ DATE _____ DESCRIPTION _____ PREPARED FOR: AUCT # 31440 <b>MARK CERRONE INC.</b> 5600 NIAGARA FALLS BLVD. NIAGARA FALLS, NY 14304 JOB ID: LQA-KBMAX-RETWALL-CERRONE		DATE: 6/19/14 SCALE: N.T.S. PROJECT: LEWISTON-QUEENSTON RETAINING WALL LEWISTON, NEW YORK 14092	
14KCP038-0 02 OF 22		SS300-SS503 <b>KISTNER CONCRETE PRODUCTS, INC.</b> 5550 HENRIAN ROAD LOCHPORT, NEW YORK 14094 PHONE 716-434-6157 <small>FACILITY: 14094-020          ALL RIGHTS OF INVENTION RESERVED © 2003, 2005, 2007, 2009, 2010, 2011, 2012, 2013, 2014</small>	