



PO Box 508
Barton, VT 05822
Phone: (802) 525-9506
Fax: (802) 525-4616
www.jpsicard.com

Submittal Data Sheet

Submittal #: 7

Submission #: 1

Date: 5/29/2015

Project Name: Barton BRO (1449) Bridge Replacement

Owner: Town of Barton, VT

Engineer: VTrans

Contractor: J.P. Sicard, Inc.

Item Number: 900.640 Special Provision (Prestressed Concrete NEXT D Beams), 540.10 Precast Concrete Structure (Abutments)

Supplier: Miller Construction, Inc.

Description of Item: Erection plan

Substitution: NO

Engineers Review Comments: _____

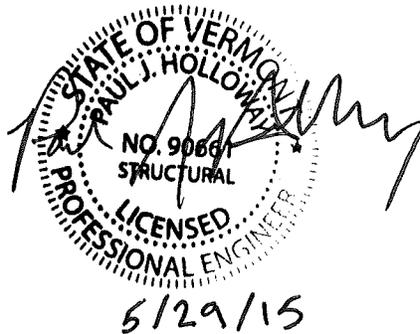
Submitted By: Brad Drake

Title: Project Manager

Company: JP Sicard, Inc.

***ERECTION PLAN
PRECAST ABUTMENTS
for
State of Vermont Project: Barton BRO 1449 (31)***

***Town of: Barton, Vermont
County of: Orleans***



Prepared For:

J.P. Sicard, Inc.
1369 Glover Road
Barton, VT 05822
Tel. (802) 525-9506

May 29, 2015

***ERECTION PLAN
FOR
State of Vermont Project: Barton BRO 1449 (31)***

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Erection Plan
Barton BRO 1449 (31)

General Project Description and Timetable

The Barton BRO 1449 (31) Project involves the replacement of the existing bridge on Roaring Brook Road in the Town of Barton approximately 0.767 Miles Easterly of the Glover/Barton Town Line and extending approximately 500 feet to the end.

The new structure comprises of a precast concrete integral abutment substructure.

Erection of precast units is anticipated to occur in July/August 2015.

Abstract

Miller Construction, Inc. shall supply crane service for the erection of the precast integral abutments. Units shall be picked from locations as shown on J.P. Carrara & Sons, Inc. approved shop drawings. The crane used shall be a Grove GMK 5120B.

It is anticipated that erection of the abutments will not require encroachment on minimum clearance distances from overhead utilities. All lines have been determined to be under 50kv.

All utilities should be shown on the plan and the minimum clearance(s) should be clearly noted.

Rigging

Rigging used shall include Endless Round Slings with rated vertical lifting capacities from 40,000 lbs. to 66,000 lbs. (see Attachment 5). 20 Ton Crosby Screw Pin Shackles shall be utilized at precast connection points.

Detail and arrangement of rigging should be shown (sizes, capacities, orientation including sling angles, and location of center of gravity for each pick)

Calculations for crane mats including soil bearing capacity should be provided



MILLER CONSTRUCTION, INC.

PO BOX 86
WINDSOR, VT 05089

(802) 674-5525
Fax (802) 674-5245

Crane lift worksheet

Crane # 5 - Full CWT.

Define boom length
and outrigger
extension

GMK 5120B

CUSTOMER J.P. Sicard, Inc.

JOB Barton BRO 1449 (31) - East Side

List member
shipping/piece mark

Amount of equipment weight 79,560 #

Weight of Ball _____

Weight of Block 1,800 #

Weight of Spreader _____

Weight of Rigging 500 #

Weight of Jib Erected _____

Weight of Jib Stowed 1,320 #

Weight of Aux Head _____

Weight of Misc _____

TOTAL WEIGHT 83,180 #

CHART 95,000 # @ 30 FT.

WORK SITE RADIUS 30 FT.



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Define boom length
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GMK 5120B

CUSTOMER J.P. Sicard, Inc.

JOB Barton BRO 1449 (31) - East Side

List member
shipping/piece mark

Amount of equipment weight 67,260 #

Weight of Ball _____

Weight of Block 1,800 #

Weight of Spreader _____

Weight of Rigging 500 #

Weight of Jib Erected _____

Weight of Jib Stowed 1,320 #

Weight of Aux Head _____

Weight of Misc _____

TOTAL WEIGHT 70,880 #

CHART 80,000 # @ 35 FT.

WORK SITE RADIUS 35 FT.



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Crane lift worksheet

Crane # 5 - Full CWT.

GMK 5120B

Define boom length
and outrigger
extension

CUSTOMER J.P. Sicard, Inc.

JOB Barton BRO 1449 (31) - West Side

List member
shipping/piece mark

Amount of equipment weight 74,660 #

Weight of Ball _____

Weight of Block 1,800 #

Weight of Spreader _____

Weight of Rigging 500 #

Weight of Jib Erected _____

Weight of Jib Stowed 1,320 #

Weight of Aux Head _____

Weight of Misc _____

TOTAL WEIGHT 78,280 #

CHART 95,000 # @ 30 FT.

WORK SITE RADIUS 30 FT.



MILLER CONSTRUCTION, INC.

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Crane lift worksheet

Crane # 5 - Full CWT.

Define boom length
and outrigger
extension

GMK 5120B

CUSTOMER J.P. Sicard, Inc.

JOB Barton BRO 1449 (31) - West Side

List member
shipping/piece mark

Amount of equipment weight 70,260 #

Weight of Ball _____

Weight of Block 1,800 #

Weight of Spreader _____

Weight of Rigging 500 #

Weight of Jib Erected _____

Weight of Jib Stowed 1,320 #

Weight of Aux Head _____

Weight of Misc _____

TOTAL WEIGHT 73,880 #

CHART 80,000 # @ 35 FT.

WORK SITE RADIUS 35 FT.

Identify which chart(s) are applicable

42 - 167 ft. (12.8 - 51.0 m) 68,300 lbs. (31,000 kg) 100% 24'7" Spread 360°

Feet	42'	42	58	73	89	105	120	136	152	167
8	240.0									
9	228.0									
10	211.0	220.0	192.0	139.0						
15	168.0	168.0	161.0	139.0	121.0	90.0				
20	138.0	138.0	134.0	129.0	121.0	90.0	63.0	47.0		
25	114.0	114.0	114.0	110.0	108.0	88.0	63.0	47.0	35.8	
30	88.0	88.0	98.0	95.0	94.0	80.0	60.0	47.0	35.8	29.6
35			81.0	80.0	82.0	73.0	55.0	46.0	35.8	29.6
40			67.0	67.0	66.0	66.0	49.0	43.6	35.2	29.6
45			57.0	56.0	55.0	57.0	44.0	40.6	35.2	29.6
50				47.0	49.0	48.0	40.4	36.6	33.0	29.0
55				40.8	42.6	41.8	36.8	33.4	30.6	28.4
60					37.2	37.2	34.0	30.8	28.6	26.8
65					32.8	32.0	31.0	28.2	26.4	25.0
70					29.2	28.4	29.0	25.8	24.2	23.4
75					26.0	25.2	26.6	23.8	22.4	21.8
80						23.0	23.8	21.6	21.0	20.4
85						21.8	21.4	20.2	19.6	18.8
90						20.2	19.4	18.8	17.8	17.4
95							17.4	17.8	16.0	15.8
100							15.8	16.4	14.6	14.6
105								15.0	14.0	13.8
110								13.6	13.4	12.6
115								12.4	12.4	11.4
120								11.2	11.2	10.4
125									10.2	9.4
130									9.4	8.4
135									8.6	7.6
140										6.8
145										6.0
150										5.4

* Over rear only.
Lifting capacities greater than 210,000 lbs require additional equipment.
Note: Above chart is available with reduced outriggers.

42 - 167 ft. (12.8 - 51.0 m) 24,200 lbs. (11,000 kg) 100% 24'7" Spread 360°

Feet	42'	42	58	73	89	105	120	136	152	167
8	240.0									
9	228.0									
10	211.0	220.0	192.0	139.0						
15	168.0	168.0	161.0	139.0	121.0	90.0				
20	138.0	132.0	126.0	114.0	107.0	90.0	63.0	47.0		
25	93.0	93.0	93.0	87.0	83.0	77.0	63.0	47.0	35.8	
30	65.0	65.0	69.0	67.0	66.0	61.0	56.0	47.0	35.8	29.6
35			53.0	55.0	53.0	49.0	49.0	44.0	35.8	29.6
40			42.2	43.6	43.6	41.0	41.2	38.8	35.6	29.6
45			34.4	35.8	35.8	37.4	34.8	33.4	30.0	29.6
50				30.2	30.0	31.4	29.6	29.4	28.2	25.8
55				25.4	27.2	26.8	26.0	25.3	24.4	22.2
60					23.2	22.8	23.4	22.4	21.2	19.2
65					20.0	20.0	20.2	19.6	18.6	16.6
70					17.2	17.4	17.6	16.8	16.2	14.4
75					15.0	15.0	15.2	14.6	14.2	12.6
80						13.0	13.4	12.6	12.4	11.0
85						11.4	11.6	11.0	10.6	9.4
90						10.0	10.2	9.6	9.2	8.2
95							8.8	8.2	8.0	7.0
100							7.8	7.2	6.8	5.8
105								6.2	5.8	4.8
110								5.2	5.0	4.0
115								4.4	4.2	3.2
120								3.6	3.4	2.4
125									2.8	
130									2.0	

* Over rear only.
Lifting capacities greater than 210,000 lbs require additional equipment.
Note: Above chart is available with reduced outriggers.

42 - 167 ft. (12.8 - 51.0 m) 15,400 lbs. (7,000 kg) 100% 24'7" Spread 360°

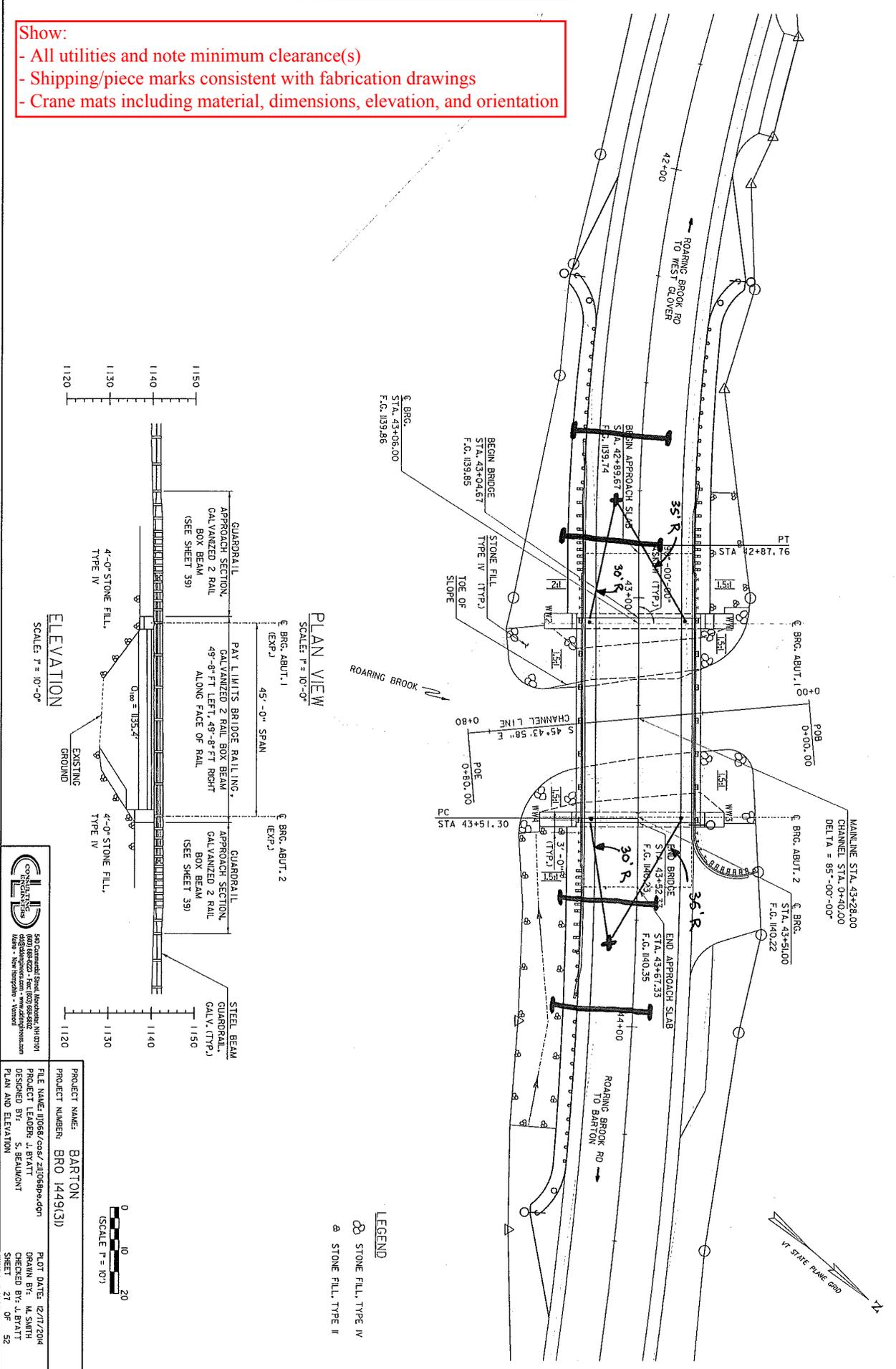
Feet	42'	42	58	73	89	105	120	136	152	167
8	240.0									
9	228.0									
10	211.0	219.0	192.0	139.0						
15	168.0	167.0	161.0	139.0	121.0	90.0				
20	123.0	123.0	114.0	104.0	94.0	90.0	63.0	47.0		
25	81.0	81.0	81.0	76.0	74.0	68.0	62.0	47.0	35.8	
30	57.0	57.0	61.0	61.0	57.0	53.0	52.0	46.0	35.8	29.6
35			46.0	48.0	46.0	45.0	42.2	39.8	35.8	29.6
40			36.4	38.2	37.4	37.8	34.6	34.2	29.4	29.6
45			29.0	31.0	32.6	31.6	30.8	28.8	27.2	24.8
50				25.4	27.0	26.6	26.4	24.6	23.0	21.0
55				20.8	22.6	22.8	22.6	21.0	19.8	17.8
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65					16.2	16.2	16.4	15.6	14.6	12.8
70					13.8	14.0	14.2	13.4	12.6	11.0
75					11.8	11.8	12.0	11.4	10.8	9.2
80						10.2	10.4	9.8	9.4	7.8
85						8.6	9.0	8.4	8.0	6.4
90						7.4	7.6	7.0	6.8	5.4
95							6.4	6.0	5.6	4.4
100							5.4	5.0	4.6	3.4
105								4.0	3.8	2.6
110								3.2	3.0	
115								2.4	2.2	

* Over rear only.
Lifting capacities greater than 210,000 lbs require additional equipment.
Note: Above chart is available with reduced outriggers.

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.
The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

Show:

- All utilities and note minimum clearance(s)
- Shipping/piece marks consistent with fabrication drawings
- Crane mats including material, dimensions, elevation, and orientation



PLAN VIEW
SCALE: 1" = 10'-0"

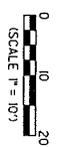
ELEVATION
SCALE: 1" = 10'-0"



PROJECT NAME: **BARTON**
PROJECT NUMBER: **BR0 149(3)**

FILE NAME: j10668/cas/z110668a.dgn
PROJECT LEADER: J. BYATT
DESIGNED BY: S. BEAUMONT

PLOT DATE: 12/17/2014
DRAWN BY: M. SMITH
CHECKED BY: J. BYATT
SHEET 27 OF 52



LEGEND

☉ STONE FILL, TYPE IV

⊗ STONE FILL, TYPE II

Miller Construction, Inc.
3103 US Route 5 South
P.O. Box 86
Windsor, Vermont 05089
802-674-5525 Fax: 802-674-5245

JOB BARTON BRO 1449 (31)

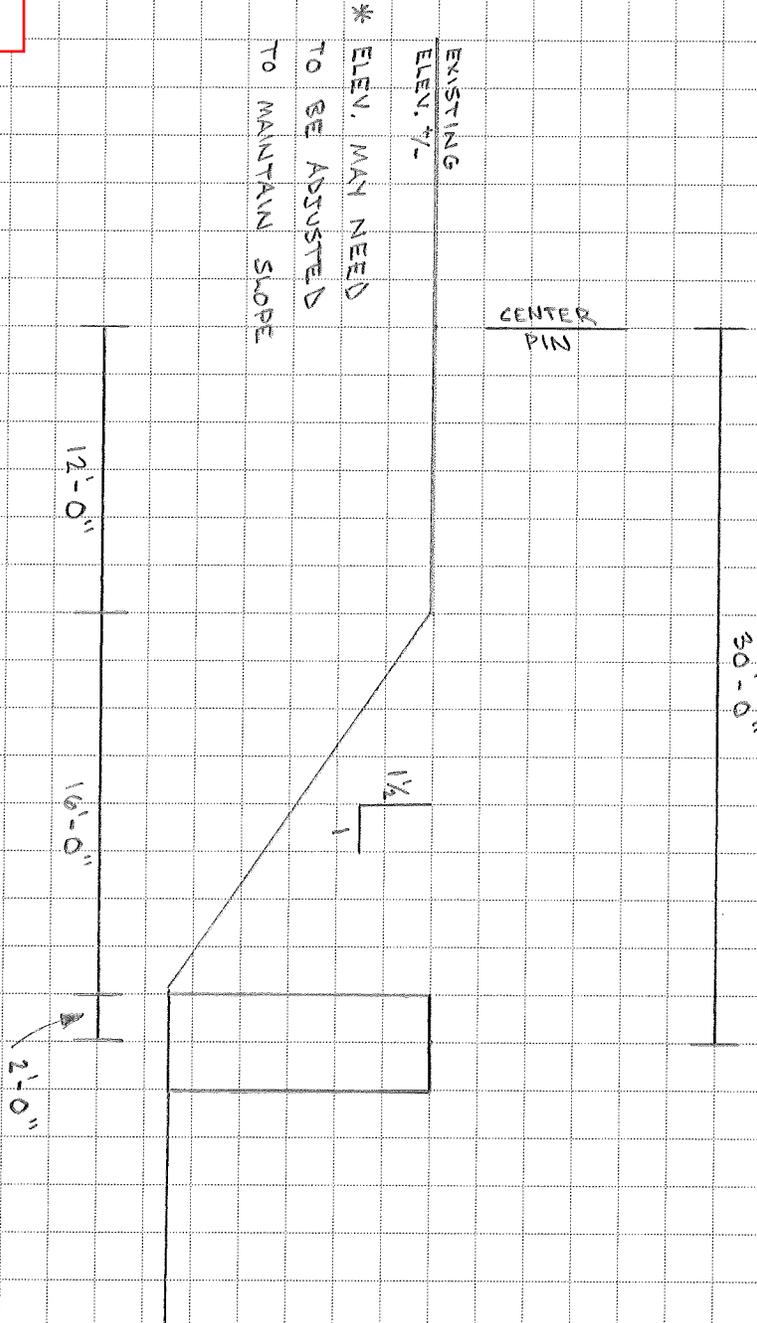
SHEET NO. _____ OF _____

CALCULATED BY _____ DATE _____

CHECKED BY _____ DATE _____

SCALE N.T.S.

Show:
- Dimensions to outriggers





www.liftex.com
(800) 299-0900

ENDLESS ROUND SLING CAPACITY CHART

	Part Number	Vertical	Choker	Basket	Minimum Length	Approx. Diameter	Approx. WT / FT
	PURPLE ENR1	2600	2100	5200	3'	.625"	0.3 LB
	GREEN ENR2	5300	4200	10600	3'	.875"	0.4 LB
	ENR3	8400	6700	16800	3'	1.125"	0.5 LB
	ENR4	10600	8500	21200	3'	1.125"	0.6 LB
	RED ENR5	13200	10600	26400	3'	1.375"	0.8 LB
	WHITE ENR6	16800	13400	33600	6'	1.375"	0.9 LB
	BLUE ENR7	21200	17000	42400	6'	1.625"	1.3 LB
	ORANGE ENR8	25000	20000	50000	6'	1.750"	1.6 LB
	ORANGE ENR9	31000	24800	62000	6'	2.125"	2.0 LB
**	ORANGE ENR10	40000	32000	80000	6'	2.350"	2.6 LB
	ORANGE ENR11	53000	42400	106000	8'	3.150"	3.4 LB
**	ORANGE ENR12	66000	52800	132000	8'	3.950"	4.3 LB
	ORANGE ENR13	90000	72000	180000	8'	4.800"	5.9 LB

**Before ordering slings that are going to be used in a chemically active environment, contact Liftex Customer Service, to recommend the right sling for the right usage.*

Chemically Active Environments can affect the strength of webbing slings in varying degrees, ranging from little to total degradation.



WARNING

SLING FAILURE CAN CAUSE
DEATH OR INJURY

SLING FAILURE RESULTS FROM
MISUSE, DAMAGE, AND
EXCESSIVE WEAR

ADHERE TO INDUSTRY
STANDARDS & REGULATIONS