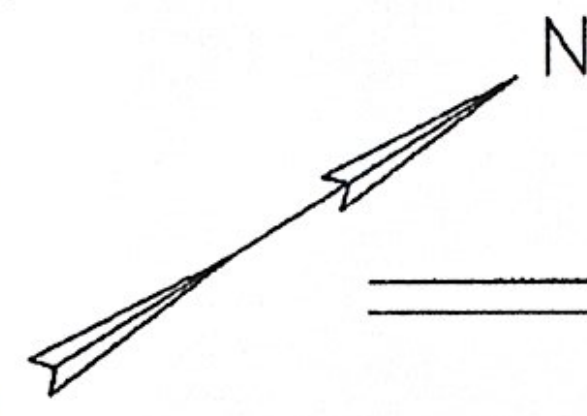


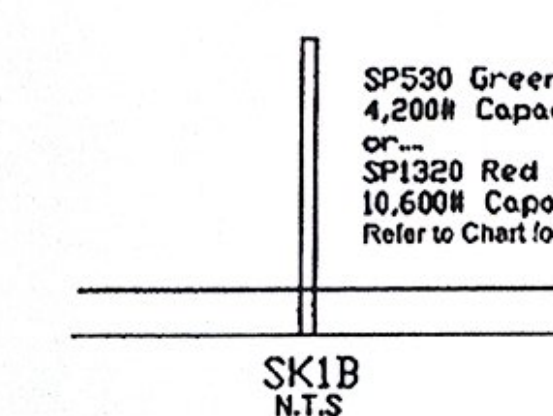
Crane 9  
175 ton Krupp Model 5175  
Hydraulic All Terrain Crane  
fitted with 45 MTon counterweight,  
boom length set at 161 feet  
360 degrees F.S. = 1.17

Radius Meters	Capacity Kilograms	Radius Feet	Capacity Pounds
6.1	20,880	20	46,000
7.6	20,880	25	46,000
9.1	20,880	30	46,000
10.7	20,880	35	46,000
12.2	20,880	40	46,000
13.7	20,880	45	46,000
15.2	20,880	50	46,000
16.8	19,590	55	43,200
18.3	18,320	60	40,400
19.8	17,140	65	37,800
21.3	16,240	70	35,800
22.9	15,320	75	33,800
24.4	14,350	80	31,800
25.9	13,610	85	30,000
27.4	12,880	90	28,400
29.0	11,970	95	26,400
30.5	10,880	100	24,000
32.0	9,900	105	21,900
33.5	8,880	110	19,600
35.1	8,070	115	17,800
36.6	7,260	120	16,000
38.1	6,620	125	14,600
39.6	6,090	130	13,500
41.1	5,350	135	11,800
42.7	4,810	140	10,600
44.2	4,350	145	9,600

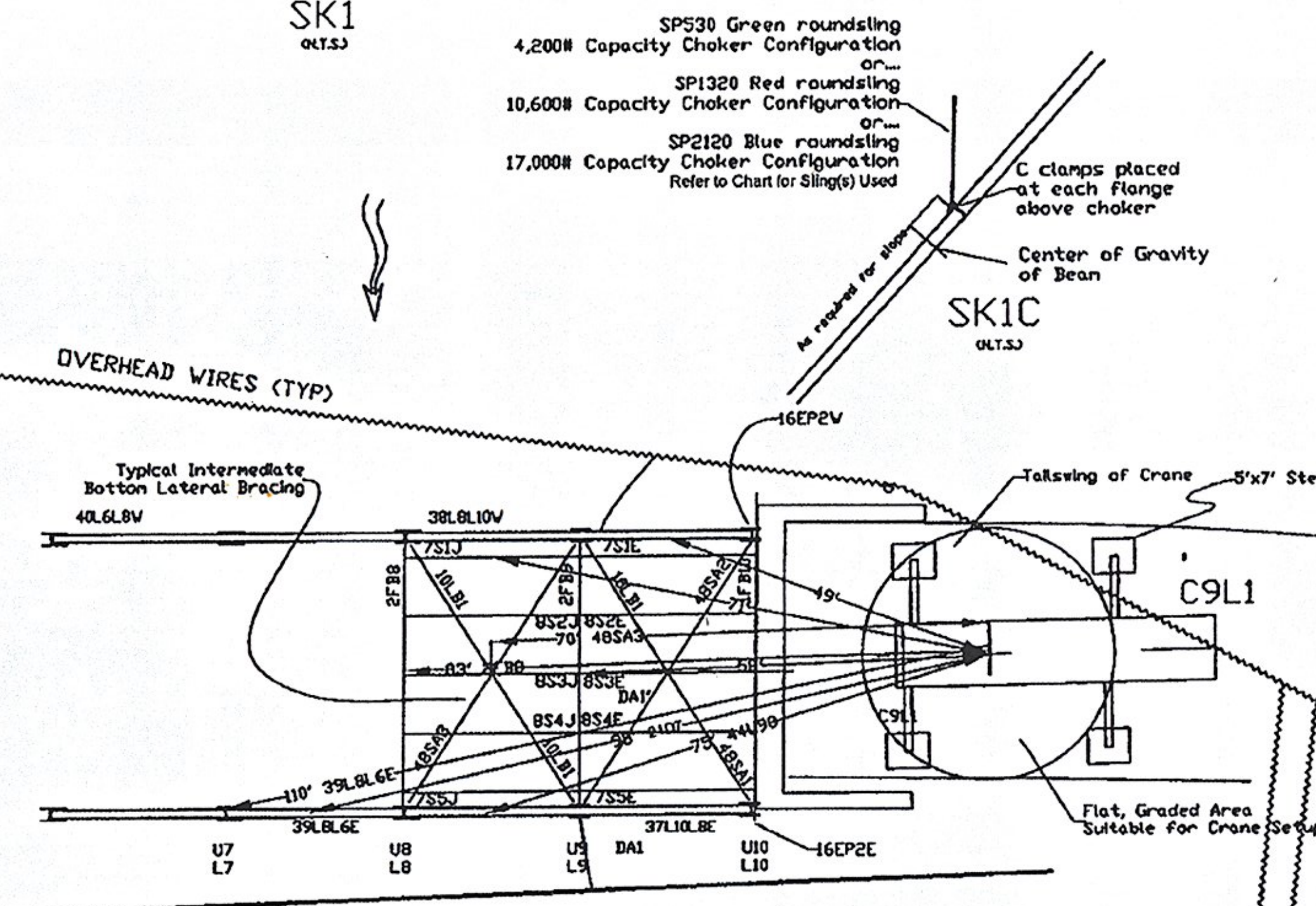
10945UR161



SP530 Green roundsling  
4,200# Capacity Choker Configuration  
or  
SP1320 Red roundsling  
10,600# Capacity Choker Configuration  
Refer to Chart for Sling(s) Used



SP530 Green roundsling  
4,200# Capacity Choker Configuration  
or  
SP1320 Red roundsling  
10,600# Capacity Choker Configuration  
Refer to Chart for Sling(s) Used



INFORMATION (Referred to as IN# in Procedure)  
4. Between pieces erected, each connection will be made with a minimum of two approved high strength bolts at each connection unless a greater number is required for alignment and stability. The bolts shall be tightened until there is no gap between the connected parts (snug tight).  
7. Splices and all field connections of main stress carrying members shall be made with a minimum of 25% of the holes filled with approved high strength bolts and full size erection pins before the external support systems are released. At least one-half of this percentage shall be bolts tightened snug tight to facilitate adding members to the connection. Bolts will be installed uniformly throughout the connection unless they will interfere with connecting future members to that location and except that erection pins shall be used at the extreme corner of all main connections. Before tensioning bolts to specification requirements, all bolts are to be snug tight

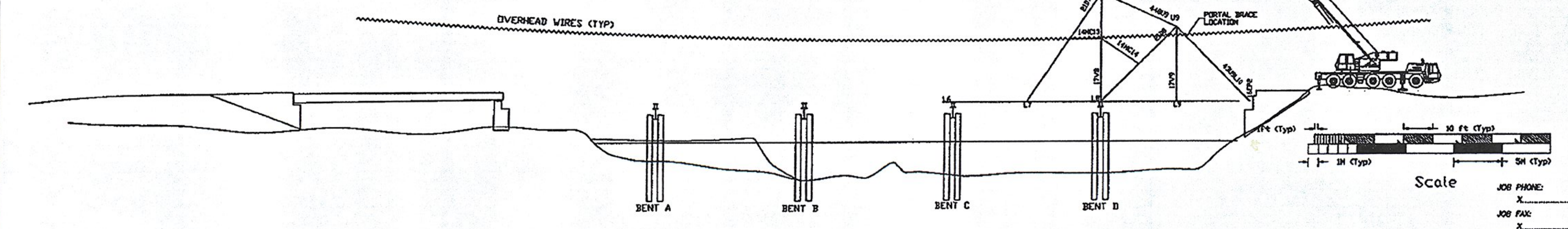
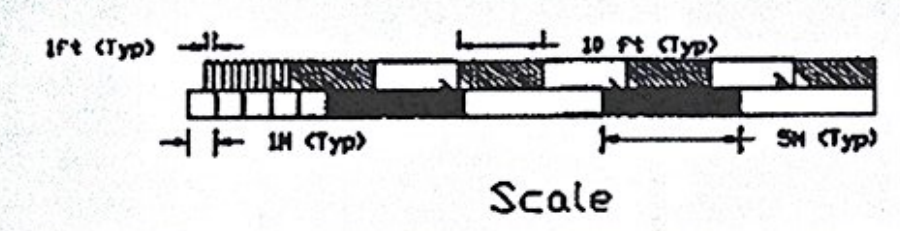
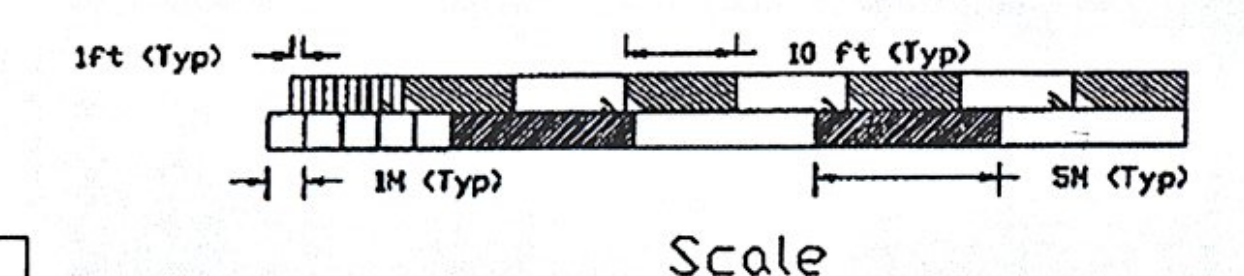
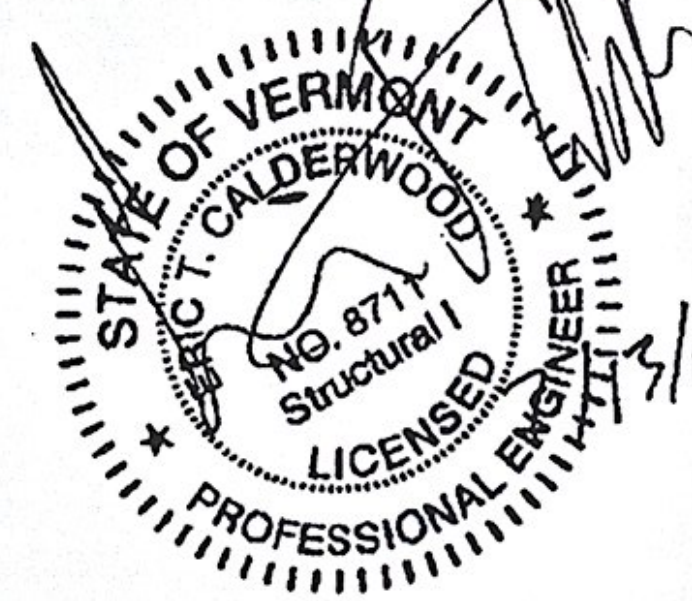
Table SA1

Panel Point	Top of Web Elevation	Top of Shoring	Bottom of Chord Flange	Top of Chord Flange
L1	541.824			
L2	541.839			
L3	541.743	Bent A	539.98	541.16
L4	541.638	Bent B	539.78	540.96
L5	541.507	Bent C	539.48	540.66
L6	541.339	Bent D	539.08	540.26
L7	541.146			
L8	540.942			
L8	540.727			

- ERECTOR PROCEDURE
- Shoring to be set by others in location shown with top of elevation per table SA1.
  - Crane 9 to be a Krupp Model KMK 5175 Hydraulic All Terrain Crane set up on fully extended outriggers of C9L1 fitted with 45 metric ton counterweight, boom length set at 161 ft, all sections extended 100 ft.
  - East end portal bracing 23TS1, 28PS1, 33OG1, (2) 33OG2, (3) 33OG3, 33OG4, 33OG5 and (2) 33LS1 to be delivered to DA1. End portal bracing to be assembled on wood blocking, dimensions to be confirmed and all interior connections to be fully bolted, ends to have bolts installed and left loose. Crane to be connected to top and bottom member per SK2. Bracing to be set aside on wood blocking set so that the assembly will not twist.
  - 16EP2E and 37L10L8E to be delivered to DA1 or DA1'. 16EP2E to be connected to 37L10L8E per IN7. Crane to be connected to beam and as stability is observed, crane to lift 37L10L8E to bearing and shim on forebeam. Elevation to be set per Table SA1 beam to be aligned with Abutment and Pier Bearings. Post 16EP2W and beam 38L8L10W to be delivered and set using the same procedure as that used to set 37L10L8E.
  - Floor Beam 1FB10 to be delivered to DA1, connected to crane per SK1 and set in place between bottom chords. 1FB10 to be bolted per IN7, stability observed and crane disconnected.
  - 39L8L6E to be delivered and set using the same procedure as that used to set 37L10L8E with the exception that 39L8L6E is to be bolted to 37L10L8E per IN7 in lieu of the bearing post leaving out the bolts for the floorbeam. 40L6L8W to be delivered and set using the same procedure as that used to set 39L8L6E. Floorbeam 2FB8 to be delivered and set using the same procedure as that used to set 1FB10.
  - Plumb post 17V9E to be delivered to DA1', crane to be connected to post and post lifted into position. 17V9E to be bolted per IN7, stability observed and crane disconnected.
  - Diagonal 21DBE to be delivered and set using the same procedure as that used to set 17V9E.
  - 43L10L9E to be delivered and set using the same procedure as that used to set 21DBE. 43L10L9E to be bolted to 17V9E. 21DBE and 37L8L10E per IN7. Stability to be observed and crane disconnected.
  - The corresponding west truss members to be delivered and set in the same sequence using the same procedure as that used to set the east truss members.
  - Floor beam 2FB9 to be delivered and set using the same procedure as that used to set 1FB10.
  - 17V9E to be delivered and set using the same procedure as that used to set 17V9E. 14MC14E to be delivered, set in place and bolted per IN4, stability observed and crane disconnected. 21DBE to be delivered and set using the same procedure as that used to set 21DBE. 14MC13E to be delivered, set in place using the same procedure as that used to set 14MC14E. 44USUBE to be delivered and set using the same procedure as that used to set 43L10L9E.
  - The corresponding west truss members to be delivered and set in the same sequence using the same procedure as that used to set the east truss members.
  - Crane to be connected to portal bracing per SK2, bracing raised and set in place and bolted per IN7. Stability to be observed and crane disconnected.
  - Bracing 46SA2 and then 46SA1 and 10LB1 to be delivered and set, connected to the crane per Table, bolted per IN4 and stability to be observed before disconnecting crane. Bottom Lateral Bracing to be set in Bay L8-L9 setting 46SA8 first, delivered and set using the same procedure as that used to set bay L8-L9.
  - Stringers in Bays L8-L10 and L8-L9 to be delivered and set, in that order, using the same procedure as that used to set 10LB1's and bolted per IN4, stability to be observed before disconnecting crane.
  - Diaphragms (not shown for clarity) to be installed between stringers in bays between L8 and L10, bolted per IN4.
  - Prior to installing the work platform in a bay, all bottom chord, lateral bracing and stringer F and bolts in those bays to be installed and tensioned to specification requirements section 506.19(c). The S end of the stringers are to be fully bolted snug tight.
  - Work platform as shown in SK3/E3 to be set on floor system, between L10 and L8 as follows:
  - Wood blocking to be installed in stringers number 2 and 4 per SK3/E3. Mats to be placed on top of the blocking on the stringers as shown in SK3/E3. A 1" thick steel plate will be used to bridge over the higher studs at the floorbeams. The work platform is to be installed from north to south as the steel erection progresses.

CHART OF WEIGHTS AND RIGGING

Piece Mark	Weight on Crane (Pounds)	Weight on Crane (Pounds)	Maximum Crane Radius (Feet)	Crane 9 45 Tonn Counterweight 161 ft Boom Chart Capacity at Next Increment at Next (Pounds)	Crane 9 Actual Factor of Safety	Rigging Detail when Piece is Limited	Minimum Sling(s) Used denoted by Code Number and Color
39L2L4 39L4L6	12,987	17,600	100	19,600	1.3	SK1	SP1320 (Red)
39L2L6 39L4L8	14,997	19,200	70	35,800	2.2	SK1	SP1320 (Red)
Heaviest Floorbeam	11,237	15,300	132	11,800	NG	SK1	SP1320 (Red)
Heaviest Stringer	1,726	10,200	71	33,800	3.9	SK1B	SP530 (Green)
Portal Bracing	10,983	15,300	56	40,400	3.1	SK2	See Sketch
Heaviest Bottom Lateral Bracing	3,728	6,700	70	35,800	4.8	SK1	SP530 (Green)
Short Lateral Bracing	1,689	6,700	105	21,600	3.8	SK1B	SP530 (Green)
21DBE	2,496	7,500	88	34,000	3.8	SK1C	SP530 (Green)
17V9E	2,203	7,300	83	30,000	4.8	SK1C	SP530 (Green)
44USUB	7,238	12,200	75	33,800	3.3	SK1C	SP1320 (Red)
43USUB	13,560	18,600	49	46,000	2.9	SK1C	SP1320 (Blue)



Bents shown for location only. The design by others may vary

	Sym.	Date	Drawn	Checked
X	△	X	X	X
X	△	X	X	X
As noted	△	6/1/2012	WCS	YS
Change Table SA1	△	5/1/2012	WCS	X

ERECTOR:  
BURT CRANE & RIGGING  
3 Veterans Memorial Dr  
Green Island, NY 12118  
(518) 271-6858 800-282-2878  
FAX (518) 271-6839  
EMAIL: INFO@BURTCRANE.COM  
HTTP://WWW.BURTCRANE.COM

CONTRACTOR: BECK & BELLUCCI, INCORPORATED  
CONTRACT #/LOCATION: BRF 022-1 (14); WINDSOR COUNTY  
VT ROUTE 107 OVER WHITE RIVER  
SCALE: Per Scale Bar BCR #: B108526  
DATE: 3/02/2012 FABRICATORS #: 498  
TITLE OF DRAWING: STRUCTURAL STEEL ERECTION PLAN  
Bridge 15

JOB PHONE: X  
JOB FAX: X  
DC PHONE: X  
FAB PHONE: X

DRAWN BY: WCS  
CHECKED BY: YS  
DRAWING NO.: E2