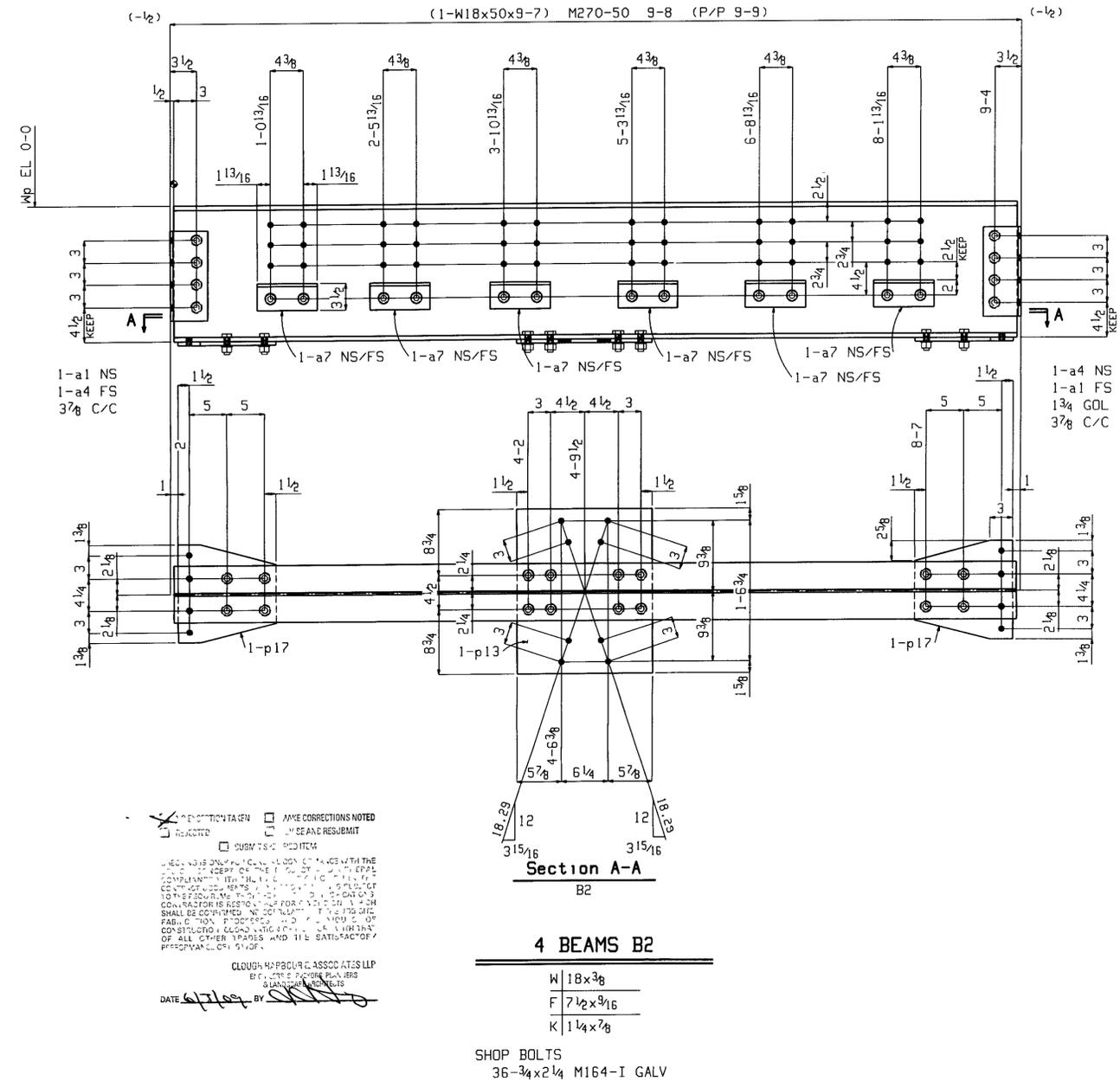


SHOP BOLTS (Unless Noted):  
16-3/4x2 1/4 M164-I GALV



DATE 5/1/09 BY [Signature]

NO REVISIONS  
 MAKE CORRECTIONS NOTED  
 RE-DESIGN RESUBMIT  
 SUBMIT FOR REVISION

I HEREBY CERTIFY THAT THE DESIGN AND CALCULATIONS FOR THIS PROJECT HAVE BEEN REVIEWED AND FOUND TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS AND THE AISC STEEL EDITION 1989. I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF VERMONT.

CLOUDHAPRODUCTIONS ASSOCIATES LLP  
 814-225-7383  
 3 LANGDON STREET  
 VERNON, VT 05354

**4 BEAMS B2**

W 18x38  
 F 7 1/2 x 9 1/16  
 K 1 1/4 x 7/8

SHOP BOLTS  
36-3/4x2 1/4 M164-I GALV

Total weight 3595

BILL OF MATERIAL										BILL OF MATERIAL										BILL OF MATERIAL									
Qty	Piece									Qty	Piece									Qty	Piece								
Tot.	Mark	Description	Length	Seq. NO.	Seq. Qty	Adv. ABM #	Steel Grade	Remarks		Tot.	Mark	Description	Length	Seq. NO.	Seq. Qty	Adv. ABM #	Steel Grade	Remarks		Tot.	Mark	Description	Length	Seq. NO.	Seq. Qty	Adv. ABM #	Steel Grade	Remarks	
1	B1	W18x50	9 7	1	1		M270-50			4	B2	W18x50	9 7	1	4		M270-50			48	a7	L5x3 1/2 x 3/8	0 8				M270-50		
2	a1	L5x3 1/2 x 3/8	1 0				M270-50			4	p13	PL 1/2 x 18	1 10				M270-50			8	p17	PL 1/2 x 13	1 1				M270-50		
2	a4	L5x3 1/2 x 3/8	1 0				M270-50			144		3/4 Dia M164-I	0 2 1/4					IHD WASH, GALV											
6	a7	L5x3 1/2 x 3/8	0 8				M270-50																						
1	p8	PL 1/2 x 13	2 7				M270-50																						
1	p9	PL 1/2 x 13	2 7				M270-50																						
16		3/4 Dia M164-I	0 2 1/4					IHD WASH, GALV																					
12		3/4 Dia M164-I	0 1 3/4					IHD WASH, GALV																					

RECEIVED  
 OCTO BY \_\_\_\_\_  
 MAY 26 2009  
 RESUBMIT \_\_\_\_\_  
 APPROVED \_\_\_\_\_  
 BY \_\_\_\_\_ DATE \_\_\_\_\_

**Renaud Bros. Inc.**  
 283 Fort Bridgeman Rd. #2  
 Vernon, VT. 05354  
 Phone 1-802 257-7383

Rev. No. \_\_\_\_\_ Date \_\_\_\_\_ Surface Prep \_\_\_\_\_  
 Project: **WALLINGFORD BRIDGE** Date: 4-28-09 Job No. \_\_\_\_\_  
 WALLINGFORD, VT  
 DWN. BY: EG Checked \_\_\_\_\_ Sheet No. **B1, 2**

MAY 15 2009 03:05:45 PM