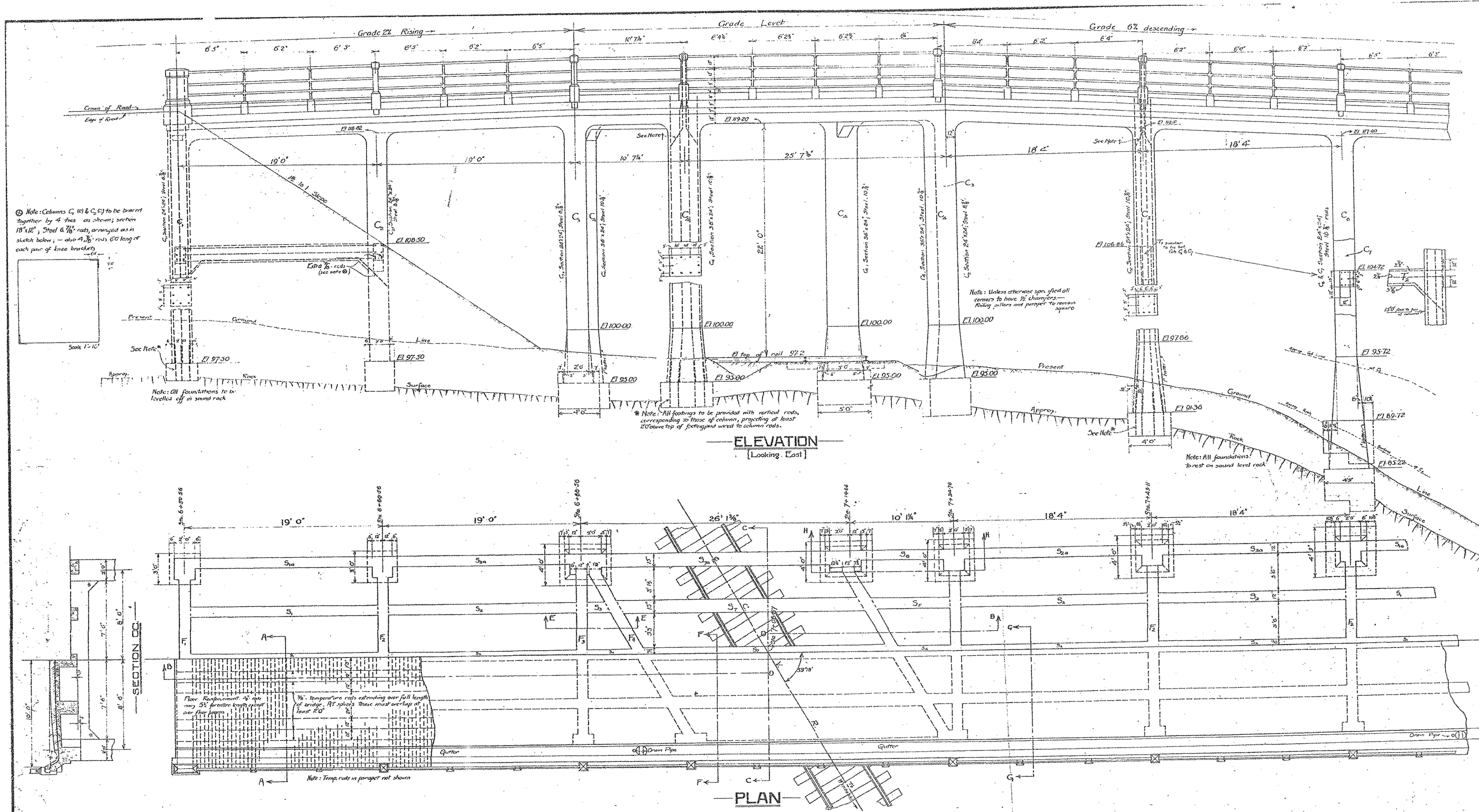

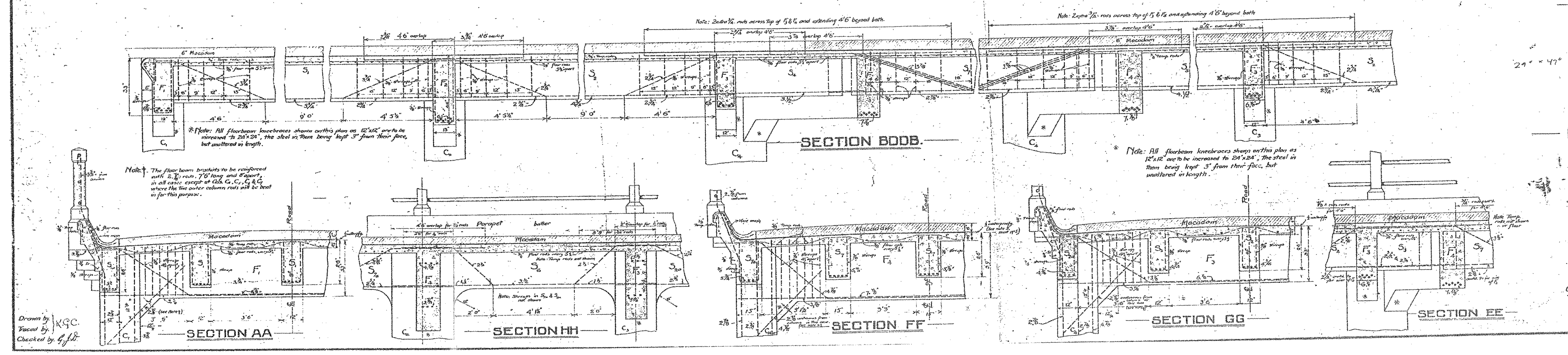

№ 4.

NORTH TRESTLE

Member	No.	Concrete (dimensions)	Reinforcement: Tension No.	Tension Size	Tension Length	Shear No.	Shear Size	Shear Length
Floor		4½" thick 4" crown	35½ 18	½" ■ ⅜" ■ Temp. rods	273 @ 23'6" = 6439' 34 - 46'0", 4 - 47'0", 16 - 44'0" } 2456' (see note 1, below)			
Stringer S_1	6	26"x12"	3	¾" ■	18 - 25'0" 450' 12 - 39'0" 468'	10	⅜" ■	60 @ 5'0" = 300'
" S_{1a}	4	26"x12"	5	¾" ■	12 - 25'0" 300' 8 - 39'0" 312'	10	⅜" ■	40 - 5'0" - 200'
" S_2	9	26"x12"	4	¾" ■	18 - 27'6" 495' 12 common to S_1 – see note 2 below	10	⅜" ■	90 - 5'0" - 450'
" S_{2a}	6	26"x12"	4	¾" ■	12 - 27'6" 330' 8 common to S_{1a} – see note 2 below	10	⅜" ■	60 - 5'0" - 300'
" S_3	2	26"x12"	No extra steel — see S_2 & S_7					
" S_4	2	26"x12"	3	½" ■	6 - 7'0" 42'			
" S_5	2	26"x12"	4	½" ■	8 - 10'0" 80' 4 - 14'6" 58'			
" S_6	2	26"x12"	3	½" ■	2 - 13'0" 26'			
" S_7	3	26"x15"	5	⅞" ■	9 - 32'0" 288' 6 - 26'0" 156'	12	⅜" ■	36 - 5'0" - 180'
" S_{7a}	2	26"x15"	5	¾" ■	6 - 32'0" 192' 4 - 26'0" 104'	12	⅜" ■	24 - 5'0" - 120'
Floor Beam F_1	2	33"x12"	6	⅞" ■	6 - 22'6" 135' 6 - 18'6" 111'	12	⅜" ■	24 - 6'0" - 144'
" F_2	3	40"x13"	6	1" ■	9 - 22'6" 202'6" 9 - 18'6" 166'6"	12	⅜" ■	36 - 7'3" 261'
" F_3	2	33"x12"	6	⅞" ■	6 - 22'6" 135' 6 - 18'6" 111'	12	⅜" ■	24 - 6'0" - 144'
" F_4	2	39"x12"	7	⅞" ■	8 - 24'0" 192' 6 - 20'0" 120'	12	⅜" ■	24 - 7'0" - 168'
Bracket at F_1	2	12"x12"	2	⅞" ■	4 - 7'6" 30'			
" F_2	2	12"x12"	2	⅞" ■	4 - 7'6" 30'			
" F_3	2	12"x12"	2	⅞" ■	4 - 7'6" 30'			
Column C_1	2	24"x24"	8	⅞" ■	10 - 23'0" 230' 6 - 28'6" 171'			
Footing C_1	2		8	⅞"	16 - 3'6" 56'			
Column C_2	2	24"x24"	6	⅞" ■	12 - 23'3" 279' 4 - 28'9" 115'			
Footing C_2	2		8	⅞" ■	16 - 4'9" 76'			
Column C_3	2	24"x24"	8	⅞" ■	12 - 26'0" 312' 4 - 29'0" 116' 8 - 4'6" 36'			
Footing C_3	2		8	⅞" ■	8 - 5'6" 44'			
Column C_4	4	36"x24"	10	⅞" ■	8 - 32'0" 256' 8 - 27'6" 220' 24 - 27'0" 648'			
Footing C_4	4		10	⅞" ■	40 - 4'3" 170'			
Column C_5	2	24"x24"	10	⅞" ■	4 - 30'0" 120' 4 - 34'6" 138' 12 - 29'6" 354'			
Footing C_5	2		10	⅞" ■	20 - 4'0" 80'			
Column C_6	1	24"x24"	10	⅞" ■	2 - 35'0" 70' 2 - 39'0" 78' 6 - 34'0" 204'			
Footing C_6	1		10	⅞" ■	10 - 5'0" 50'			
Column C_7	1	24"x24"	10	⅞" ■	2 - 30'6" 61' 2 - 34'6" 69' 6 - 29'6" 177'			
Footing C_7	1		10	⅞" ■	10 - 5'0" 50'			
Ties T_1	4	18"x12"	6	⅞" ■	6 - 44'4" 266' 6 - 38'8" 232' (see note 4)			
Brackets at T_1	8	12"x12"	2	⅞" ■	16 - 6'0" 96'			
Tie T_2	2	18"x12"	8	⅞" ■	16 - 21'0" 336' (see detail)			
2 extra rods over S_5 (see sect. BDDB)				¾" ■	4 - 19' 76'			
2 " " " S_4 (" " ")				¾" ■	4 - 16'6" 66'			

Note: All steel to be square, cold-twisted rods, having an elastic limit after twisting of at least 55,000 lbs per sq in

Section	Total Length	Total Weight
⅜"	11162 feet	5336 lbs
½"	206 "	175 "
¾"	2793 "	5349 "
⅞"	6448 "	16785 "
1"	369 "	1255 "

Note 1. Temperature Rods: total length to expansion joint — 131'0". Each length to be made up of three rods, 2 @ 46'0" & 1 at 44'0". Allowance to be made in tie of parapet rods for deviation round railing standards, — approx. 2" and 1" respectively per standard.

Note 2. The 2, ¾" ■ ... rods which remain down in S_1 & S_2 or S_{1a} & S_{2a} respectively can be made up of two continuous rods, 39'0" long, stretching from F_1 to F_3.

Note 3. Sizes of beams and stringers given above include floor slab and depth of beams is at centre of span.

Note 4. All steel to be laid with centres 2" from face of forms; except in the floor slab where it shall be 1", and stirrups where it shall be not less than 1½"; unless otherwise indicated on plan.

Note 5: The road metal or Macadam is not part of this contract. It will be provided laid and rolled by the Municipality; the lower 1" in thickness consisting of a mat of pea stone and coal tar pitch for the protection of the waterproofing.

Examined R. Armour [signature]

Approved [signature]

29" × 47"

CENTRAL VERMONT RAILWAY
WINOOSKI VIADUCT
NORTH TRESTLE

SCALES: 1" = 4', 1" = 2'

Office of Chief Engineer, G.T.R. Montreal, April 1913

Drawn by K.G.C.
Traced by
Checked by

THIS SHEET HAS BEEN REPRODUCED FROM ORIGINAL PLANS DATED JUNE 1913, ALL DETAILS HAVE BEEN SCALED DOWN FROM THE ORIGINAL SHEET SIZE AND ARE NO LONGER TO SCALE. THESE PLANS DO NOT INCLUDE THE STEEL SHORING COMPONENTS THAT HAVE BEEN ADDED TO THE STRUCTURE SINCE THE ORGINAL CONSTRUCTION.

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: COLCHESTER-SOUTH BURLINGTON
PROJECT NO.: BRM 5600 (6) S C/2
TITLE: EXISTING BRIDGE PLANS
BRIDGE SHEET No. ZDI39-EXI

VHB NO. 50735 plot date: 12/3/2003