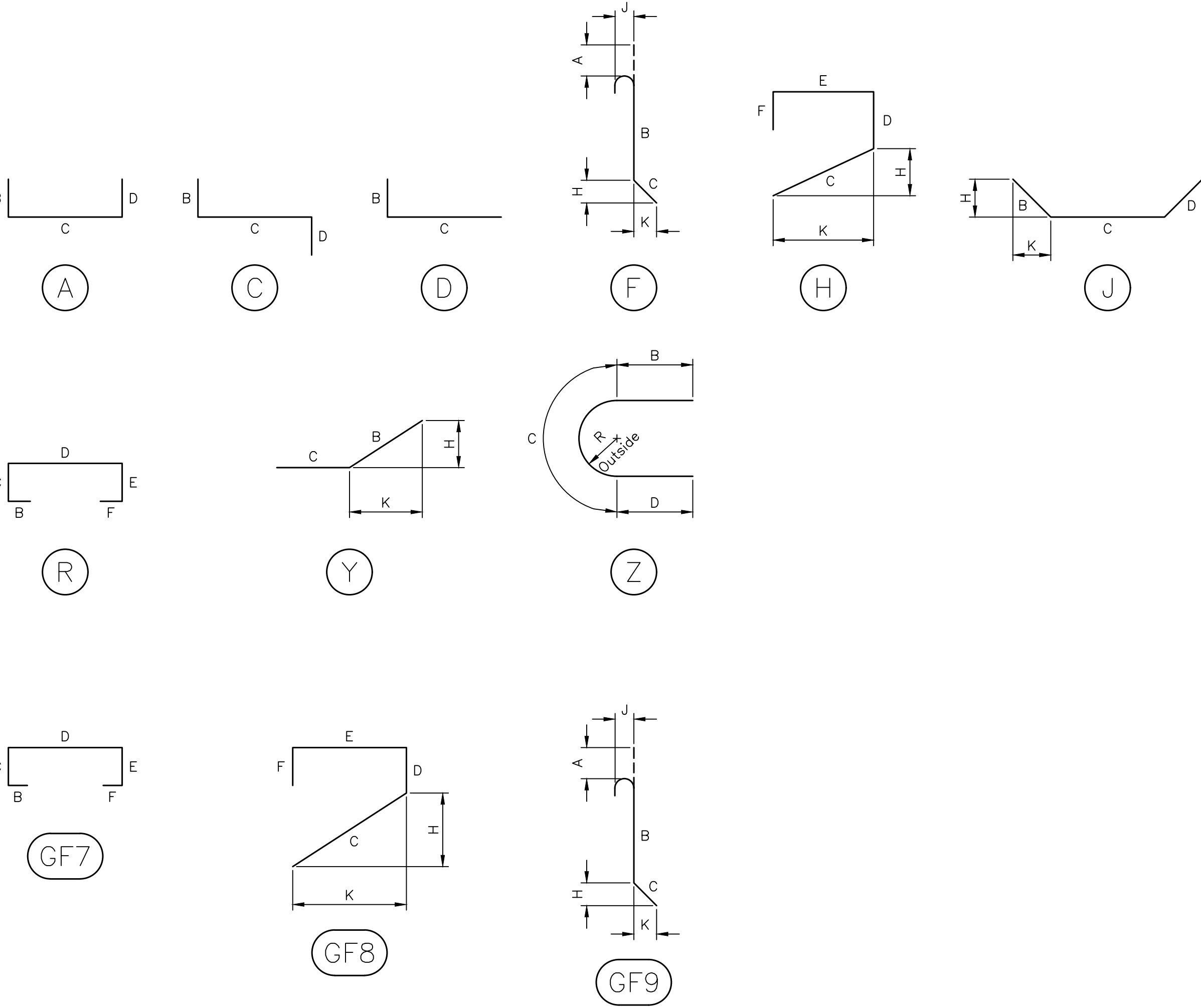


ABUTMENTS – BLACK STEEL REINFORCING SCHEDULE																			
MARK	No. BARS	BAR SIZE	LENGTH	TYPE	A	B	C	D	E	F	G	H	J	K	O	R	SHAPE	LOCATION & REMARKS	MASS (kg)
A-1	32	10M	1380	R		140	250	600	250	140								LONGITUDINAL IN BEARING BLOCK	35
A-2	48	10M	1160	R		140	250	380	250	140								TRANSVERSE IN BEARING BLOCK	44
A-3	60	15M	580	D		300	280											DOWELS FOR APPROACH SLAB, THREADED TO FIT COUPLER	55
A-4	28	15M	4810	STR.														HORIZONTAL IN FRONT FACE OF BALLAST WALL	211
A-5	24	20M	4810	STR.														HORIZONTAL IN BACK FACE OF BALLAST WALL	272
A-6	60	15M	1500	STR.														VERTICAL IN FRONT FACE OF BALLAST WALL	141
A-7	92	20M	1500	STR.														VERTICAL IN BACK FACE OF BALLAST WALL	325
A-8	60	15M	1350	STR.														VERTICAL DOWEL IN FRONT FACE OF BALLAST WALL	127
A-9	88	20M	1680	STR.														VERTICAL DOWEL IN BACK FACE OF BALLAST WALL	348
A-10	8	15M	4810	STR.														HORIZONTAL IN CORBEL	60
A-11	60	15M	1260	H			500	200	360	200		354				354		STIRRUP IN CORBEL	119
A-12	60	15M	1795	C		700	795	300										HORIZONTAL IN TOP OF BREASTWALL	169
A-13	20	15M	4660	D		300	4360											HORIZONTAL IN TOP OF BREASTWALL	146
A-14	24	15M	1200	D		600	600											HORIZONTAL IN CORNER OF WINGWALL	45
A-15	16	20M	1550	J		300	950	300				212				212		HORIZONTAL IN FILLET OF WINGWALL	58
A-16	4	15M	1350	STR.														VERTICAL IN FILLET OF WINGWALL	8
A-17	56	15M	650	STR.														DOWELS FOR HORIZONTAL BARS IN BALLAST WALL AND BREASTWALL, THREADED TO FIT COUPLER	57
A-18	24	20M	850	STR.														DOWELS FOR HORIZONTAL BARS IN BALLAST WALL, THREADED TO FIT COUPLER	48
A-19	8	15M	1180	A		450	280	450										STIRRUPS IN WINGWALL	15
A-20	8	15M	1380	A		550	280	550										STIRRUPS IN WINGWALL	17
A-21	16	15M	1680	A		700	280	700										STIRRUPS IN WINGWALL	42
A-22	32	15M	2280	A		1000	280	1000										STIRRUPS IN WINGWALL	115
A-23	32	15M	2680	A		1200	280	1200										STIRRUPS IN WINGWALL	135
A-24	24	15M	3160	STR.														HORIZONTAL IN WINGWALL AND CURB	119
A-25	4	15M	3015	STR.														HORIZONTAL IN WINGWALL	19
A-26	4	15M	2415	STR.														HORIZONTAL IN WINGWALL	15
A-27	4	15M	1815	STR.														HORIZONTAL IN WINGWALL	11
A-28	4	15M	1215	STR.														HORIZONTAL IN WINGWALL	8
A-29	4	15M	615	STR.														HORIZONTAL IN WINGWALL	4
A-30	4	15M	3445	D		300	3145											HORIZONTAL IN WINGWALL	22
A-31	4	15M	3315	D		300	3015											HORIZONTAL IN WINGWALL	21
A-32	4	15M	2715	D		300	2415											HORIZONTAL IN WINGWALL	17
A-33	4	15M	2115	D		300	1815											HORIZONTAL IN WINGWALL	13
A-34	4	15M	1515	D		300	1215											HORIZONTAL IN WINGWALL	10
A-35	4	15M	915	D		300	615											HORIZONTAL IN WINGWALL	6
A-36	8	15M	3475	Y		3265	210					1460				2920		HORIZONTAL IN WINGWALL	44
A-37	4	15M	2685	A		1275	135	1275										VERTICAL IN END POST	17
A-38	36	15M	2800	A		1275	250	1275										VERTICAL IN END POST	158
A-39	8	15M	2725	A		1275	175	1275										VERTICAL IN END POST	34
A-40	36	15M	1150	A		450	250	450										VERTICAL IN END POST	65
A-41	24	15M	2610	STR.														HORIZONTAL IN END POST	98
A-42	8	15M	2110	STR.														HORIZONTAL IN END POST	27
A-43	32	15M	1420	A		600	220	600										HORIZONTAL IN END POST	71
A-44	4	15M	2345	A		1100	145	1100										HORIZONTAL IN END POST	15
A-45	16	15M	1905	A		900	105	900										HORIZONTAL IN END POST	48
A-46	4	15M	2470	Z		1000	470	1000								150		STIRRUP AT BEAM GUIDE RAIL INSERTS	16
A-47	48	15M	1065	A		370	325	370										STIRRUP IN CURB	80
A-48	20	15M	1450	STR.														VERTICAL IN BREASTWALL	46
A-49	16	15M	1280	D		500	780											HORIZONTAL IN BREASTWALL	32
A-50	8	15M	540	D		100	440											DOWELS IN SIDES OF BREASTWALL	7
A-51	28	15M	415	D		100	315											DOWELS IN FRONT OF BREASTWALL	18
A-52	4	15M	810	STR.														VERTICAL IN END POST	5
A-53	4	15M	1035	A		450	135	450										VERTICAL IN END POST	6
A-54	8	15M	1075	A		450	175	450										VERTICAL IN END POST	14
TOTAL MASS FOR ABUTMENTS (kg) =																		3,658	

DECK – GFRP REINFORCING SCHEDULE																				
MARK	No. BARS	BAR SIZE	LENGTH	TYPE	A	B	C	D	E	F	G	H	J	K	O	R	SHAPE	LOCATION & REMARKS	LENGTH (mm) OF	
																			#5 BAR	
B-1	164	#5	12192	STR.														——	LONGITUDINAL IN TOP AND BOTTOM OF DECK	1,999,488
B-2	82	#5	5700	STR.														——	LONGITUDINAL IN TOP AND BOTTOM OF DECK	467,400
B-3	182	#5	5130	STR.														——	TRANSVERSE IN TOP OF DECK	933,660
B-4	348	#5	5130	STR.														——	TRANSVERSE IN BOTTOM OF DECK	1,785,240
B-5	368	#5	3600	STR.														——	TRANSVERSE IN TOP OF DECK OVERHANG	1,324,800
B-6	278	#5	1445	GF7		180	325	435	325	180								⌈	STIRRUPS IN CURB	401,710
B-7	12	#5	12192	STR.														——	LONGITUDINAL IN TOP OF CURBS	146,304
B-8	6	#5	5700	STR.														——	LONGITUDINAL IN TOP OF CURBS	34,200
B-9	4	#5	4150	STR.														——	TRANSVERSE IN TOP OF DECK AT DRAIN	16,600
B-10	68	#5	1330	GF8			400	350	280	300		283			283			⌋	STIRRUP IN END OF DECK	90,440
B-11	12	#5	1300	STR.														——	TRANSVERSE IN BOTTOM OF OVERHANG IN THICKENED EDGE	15,600
B-12	12	#5	2350	STR.														——	TRANSVERSE IN BOTTOM OF THICKENED EDGE BETWEEN GIRDERS	28,200
B-13	12	#5	1300	STR.														——	TRANSVERSE IN BOTTOM OF THICKENED EDGE BETWEEN GIRDERS	15,600
B-14	348	#5	1580	GF9	180	1400								130				——	TRANSVERSE IN BOTTOM OF DECK	549,840
																			TOTAL LENGTH OF BARS FOR DECK =	7,809,082
																			TOTAL LENGTH OF BARS FOR DECK IN METERS (m) =	7,809

APPROACH SLABS – BLACK STEEL REINFORCING SCHEDULE																				
MARK	No. BARS	BAR SIZE	LENGTH	TYPE	A	B	C	D	E	F	G	H	J	K	O	R	SHAPE	LOCATION & REMARKS	MASS (kg)	
D-1	80	15M	8835	STR.													—	TRANSVERSE IN TOP AND BOTTOM OF APPROACH SLABS	1,110	
D-2	60	15M	5860	STR.													—	LONGITUDINAL IN TOP OF APPROACH SLABS	552	
D-3	90	25M	5860	STR.													—	LONGITUDINAL IN BOTTOM OF APPROACH SLABS	2,070	
D-4	90	20M	1010	F	210	800							160				—	HOOBS IN APPROACH SLABS	214	
D-5	60	15M	800	STR.													—	APPROACH SLAB DOWELS, THREADED TO FIT COUPLER	75	
																		TOTAL MASS FOR APPROACH SLABS (kg) =		4,021

* THREADED ONE END TO FIT BAR COUPLER. BAR COUPLER TO HAVE PROTECTIVE PLUG.



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PERMIT HOLDER
This Permit Allows
Valron Engineers Inc.

To practice Professional Engineering in Newfoundland and Labrador, Permit No. as issued by APECN, 20205, which is valid for this year 2016.



0	ISSUED FOR TENDER	03/22 2016
revisions		date

project BROAD COVE BRIDGE REHABILITATION project

drawing dessin

REINFORCING SCHEDULES

designed RF conçu
date DEC. 2015
drawn RK dessiné
date DEC. 2015
approved RBV/JMC approuvé
date DEC. 2015
Tender Submission

PWSC Project Manager Administrateur de projets TPSC
project number no. du projet

675

drawing no. no. du dessin

S18