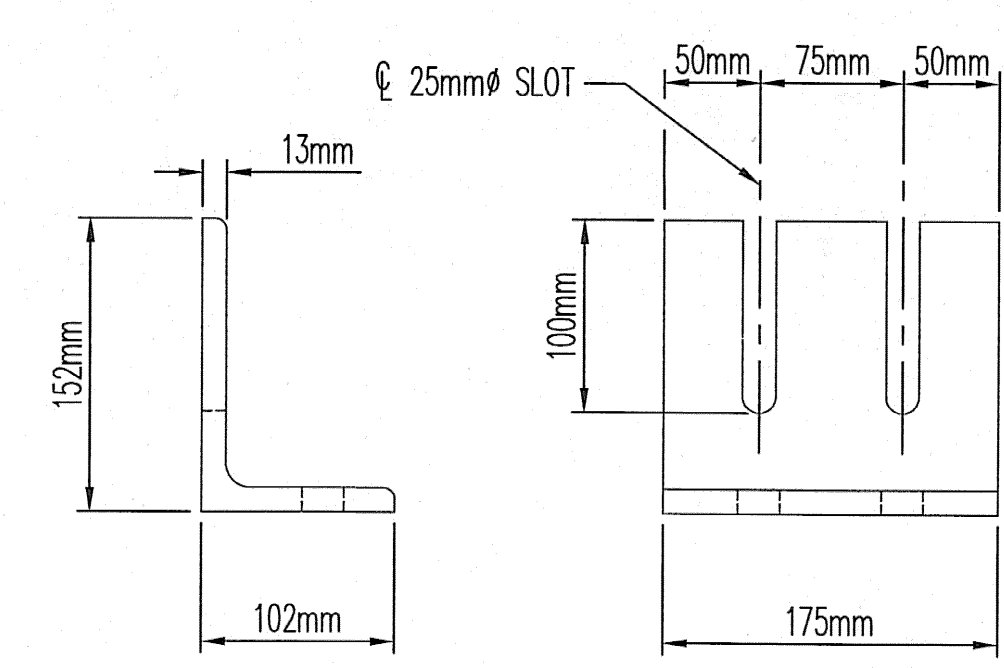
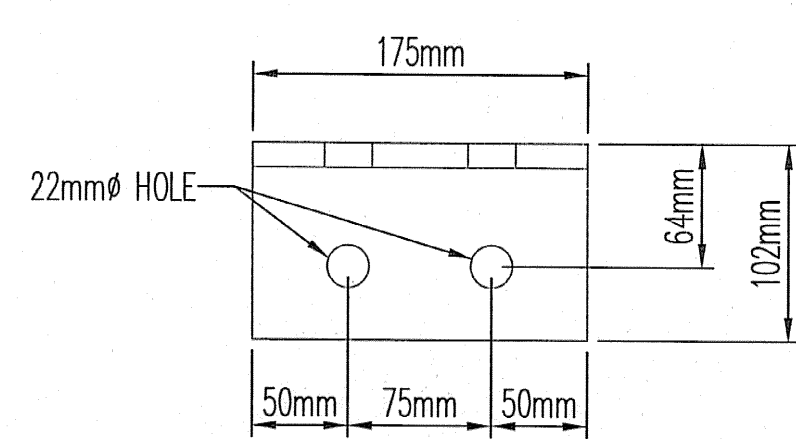


ITEM NO. 1G
(16) REQ'D.

JOINT SUPPORT BENT PLATE DETAIL



ITEM NO. 2G
(16) REQ'D.

JOINT SUPPORT ANGLE DETAIL

MK	QTY.	DESCRIPTION	MATERIAL	LENGTH	REMARKS	PART NO.
1A	2	"D-240" MODULAR EXPANSION JOINT		13426	HDG	
r1	4	EB 32 X 127 SS	A572	223	UPTURN PIECE	50-65
r2	4	EB 32 X 127 SS	A572	223	UPTURN PIECE	50-65
r3	4	EB 32 X 127 SS	A572	13112	UPTURN CUT BOTH ENDS	50-65
r4	8	CB 64 X 127 SS	A572	223	CVN; UPTURN PIECE	50-72
r5	4	CB 64 X 127 SS	A572	13112	CVN; UPTURN CUT BOTH ENDS	50-72
a11	148	WS 16 X 167	A108		EDGE BEAM ANCHORAGE	29-10
a12	88	WS 16 X 167	A108		EDGE BEAM ANCHORAGE (BEND 45° @ 50mm)	29-10
a13	48	WS 16 X 167	A108		EDGE BEAM ANCHORAGE (BEND 15° @ 50mm)	29-10
b13	64	WS 16 X 106	A108		SUPPORT BOX ANCHORAGE	29-9
g14	48	RB 16-11UNC CONT THRD	A36	50	JOINT SUPPORT ITEM	18-24
b15	48	TS 229 X 178 X 10	A500 GR. B	200	SUPPORT BOX	22-98
b16	48	TS 229 X 178 X 10	A500 GR. B	280	SUPPORT BOX	22-98
b17	96	TS 25 X 25 X 3	A513	38	SUPPORT BOX ITEM	56-35
b18	96	MI SUPPORT BOX END CAP			A606 TYPE 4 OR HDPE	
s19g	48	PL 44 X 157	A572	620	CVN; SUPPORT BAR	19-251
s20	96	PL 16 GA. X 60	SS A240	165	2b, TYPE 304	56-71
s21	96	PL 16 GA. X 60	SS A240	244	2b, TYPE 304	56-32
s22	96	FB 16 X 64	A36	73	SPRING STOP	16-106
p24	48	PL 16 X 83	A36	140	REMOVABLE PLATE	19-18
p25	96	MB 16 X 89 SQHD	A307 MG		REMOVABLE PLATE ITEM	24-5
p26	96	HN 16	A563A MG		REMOVABLE PLATE ITEM	25-56
p27	96	FW 16	F844 HDG		REMOVABLE PLATE ITEM	27-60
p28	96	MW 16 LOCK	F844 HDG		REMOVABLE PLATE ITEM	28-10
m29	72	MOD 80mm CONTROL SPRING			MA-91	56-3
m30	72	MOD 80mm NYLON PIN			MA-91	56-34
m31	144	MOD 80mm HITCH PIN			MA-91	56-7
k32	96	PRECOMPRESSED SPRING				
k33	96	SLIDE BEARING				
t34	28	L 152 X 102 X 19	A36	76	TEMP. ADJUST. ITEM	56-47
t35	48	L 178 X 102 X 19	A36	76	TEMP. ADJUST. ITEM	56-46
t36	38	RB 32 CONT THRD	A36 ZP	650	TEMP. ADJUST. ITEM	18-34
t37	152	HN 32	A563A ZP		TEMP. ADJUST. ITEM	25-117
t38	152	FW 32	F844 ZP		TEMP. ADJUST. ITEM	27-100
w39	3	MI GAL LUB ADHSV			D4070	1520
w40	6	DSB NEO GLAND L2 102mm		13.4 M	80.4 M TOTAL	L2-SEAL
JOINT SUPPORT ITEMS:						
1G	16	FB 13 X 102	A36 HDG	302	JOINT SUPPORT ITEM	16-96
2G	16	L 152 X 102 X 13	A36 HDG	175	JOINT SUPPORT ITEM	15-86
3G	18	CI 16 X 108			(16) RAMSET/REDHEAD HN-5842 OR EQ.	
4G	50	HN 16	A563A MG		(48) JOINT SUPPORT ITEM	25-56
5G	50	FW 16	F844 HDG		(48) JOINT SUPPORT ITEM	27-60
6G	34	RB 3/4 CONT THRD	A193-B7 HDG	229	(32) JOINT SUPPORT ITEM	18-126
7G	68	HN 19	A563A MG		(64) JOINT SUPPORT ITEM	25-59
8G	68	FW 19	F844 MG		(64) JOINT SUPPORT ITEM	27-62

NOTE: ALL MATERIALS SPECIFICATION DESCRIPTIONS ARE ASTM, UNLESS OTHERWISE NOTED.

MK	QTY.	DESCRIPTION	MATERIAL	LENGTH	REMARKS	PART NO.
ENGLISH B.O.M. (REF. ONLY)						
1A	2	"D-240" MODULAR EXPANSION JOINT		44'-0 9/16	HDG	
r1	4	EB 1 1/4 X 5 SS	A572	0'-8 3/4	UPTURN PIECE	50-65
r2	4	EB 1 1/4 X 5 SS	A572	0'-8 3/4	UPTURN PIECE	50-65
r3	4	EB 1 1/4 X 5 SS	A572	43'-0 1/4	UPTURN CUT BOTH ENDS	50-65
r4	8	CB 2 1/2 X 5 SS	A572	0'-8 3/4	CVN; UPTURN PIECE	50-72
r5	4	CB 2 1/2 X 5 SS	A572	43'-0 1/4	CVN; UPTURN CUT BOTH ENDS	50-72
a11	148	WS 5/8 X 6 9/16	A108		EDGE BEAM ANCHORAGE	29-10
a12	88	WS 5/8 X 6 9/16	A108		EDGE BEAM ANCHORAGE (BEND 45° @ 2')	29-10
a13	48	WS 5/8 X 6 9/16	A108		EDGE BEAM ANCHORAGE (BEND 15° @ 2')	29-10
b13	64	WS 5/8 X 4 3/16	A108		SUPPORT BOX ANCHORAGE	29-9
g14	48	RB 5/8-11UNC CONT THRD	A36	0'-1 15/16	JOINT SUPPORT ITEM	18-24
b15	48	TS 9 X 7 X 3/8	A500 GR. B	0'-7 7/8	SUPPORT BOX	22-98
b16	48	TS 9 X 7 X 3/8	A500 GR. B	0'-11	SUPPORT BOX	22-98
b17	96	TS 1 X 1 X 1/8	A513	0'-1 1/2	SUPPORT BOX ITEM	56-35
b18	96	MI SUPPORT BOX END CAP			A606 TYPE 4 OR HDPE	
s19g	48	PL 1 3/4 X 6 3/16	A572	2'-0 7/16	CVN; SUPPORT BAR	19-251
s20	96	PL 16 GA. X 2 3/8	SS A240	0'-6 1/2	2b, TYPE 304	56-71
s21	96	PL 16 GA. X 2 3/8	SS A240	0'-9 5/8	2b, TYPE 304	56-32
s22	96	FB 5/8 X 2 1/2	A36	0'-2 7/8	SPRING STOP	16-106
p24	48	PL 5/8 X 3 1/4	A36	0'-5 1/2	REMOVABLE PLATE	19-18
p25	96	MB 5/8 X 3 1/2 SQHD	A307 MG		REMOVABLE PLATE ITEM	24-5
p26	96	HN 5/8	A563A MG		REMOVABLE PLATE ITEM	25-56
p27	96	FW 5/8	F844 HDG		REMOVABLE PLATE ITEM	27-60
p28	96	MW 5/8 LOCK	F844 HDG		REMOVABLE PLATE ITEM	28-10
m29	72	MOD 80mm CONTROL SPRING			MA-91	56-3
m30	72	MOD 80mm NYLON PIN			MA-91	56-34
m31	144	MOD 80mm HITCH PIN			MA-91	56-7
k32	96	PRECOMPRESSED SPRING				
k33	96	SLIDE BEARING				
t34	28	L 6 X 4 X 3/4	A36	0'-3	TEMP. ADJUST. ITEM	56-47
t35	48	L 7 X 4 X 3/4	A36	0'-3	TEMP. ADJUST. ITEM	56-46
t36	38	RB 1 1/4 CONT THRD	A36 ZP	2'-1 5/8	TEMP. ADJUST. ITEM	18-34
t37	152	HN 1 1/4	A563A ZP		TEMP. ADJUST. ITEM	25-117
t38	152	FW 1 1/4	F844 ZP		TEMP. ADJUST. ITEM	27-100
w39	3	MI GAL LUB ADHSV			D4070	1520
w40	6	DSB NEO GLAND L2 4"		43'-11 9/16	263'-9 3/8 TOTAL	L2-SEAL
JOINT SUPPORT ITEMS:						
1G	16	FB 1 1/2 X 4	A36 HDG	0'-11 7/8	JOINT SUPPORT ITEM	16-96
2G	16	L 6 X 4 X 1/2	A36 HDG	0'-6 7/8	JOINT SUPPORT ITEM	15-86
3G	18	CI 5/8 X 4 1/4			(16) RAMSET/REDHEAD HN-5842 OR EQ.	
4G	50	HN 5/8	A563A MG		(48) JOINT SUPPORT ITEM	25-56
5G	50	FW 5/8	F844 HDG		(48) JOINT SUPPORT ITEM	27-60
6G	34	RB 3/4 CONT THRD	A193-B7 HDG	0'-9	(32) JOINT SUPPORT ITEM	18-126
7G	68	HN 3/4	A563A MG		(64) JOINT SUPPORT ITEM	25-59
8G	68	FW 3/4	F844 MG		(64) JOINT SUPPORT ITEM	27-62

NOTE: ALL MATERIALS SPECIFICATION DESCRIPTIONS ARE ASTM, UNLESS OTHERWISE NOTED.

SHOP DRAWING REVIEW

REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS.

REJECTED REVISE AND RESUBMIT FURNISH AS CORRECTED

CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR REVIEW OF GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CORRECTING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATING HIS WORK WITH THAT OF ALL OTHER TRADES, AND PERFORMING HIS WORK IN A SAFE AND SATISFACTORY MANNER.

VHB Vanasse Hangen Brustlin, Inc.
Engineers, Planners, and Scientists
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Job Number: 50911
Reviewed By: SAH
Date: 6/1/06

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REMOVED NOTE IN SECTION F1; MODIFIED ITEMS IN BILL OF MATERIALS & TITLE BLOCK	04/02/06	RES	JLW
ADDED BENT STUD ANCHORS OVER SUPPORT BOXES; MODIFIED ITEMS IN BILL OF MATERIALS; REMOVED NOTE	01/19/06	RES	JLW
LOWERED SUPPORT BOXES ON EDGE BEAMS; MODIFIED ITEMS IN BILL OF MATERIALS	10/25/05	RES	JLW
REV. DESCRIPTION	DATE	DET.	CKD.
LOCATION — VT 78 OVER MISSISQUOI BAY	ITEM	QUANTITY	
BRIDGE — 2	—	—	
PROJECT NO. — BRF 036-1 (1)	—	—	
TOWN — ALBURN AND SWANTON	—	—	
P.O. NO. — P078559 MIS	—	—	
SUPERVISOR — MARK KACZINSKI	—	—	
CUSTOMER — CIAMBRO CORPORATION	—	—	
DESCRIPTION	SCALE	DRAWN BY	CHECKED BY
"D-240" JOINT SUPPORT DETAILS	N.T.S.	RES	JLW
COUNTIES OF GRAND ISLE AND FRANKLIN, VERMONT	12244	1021	
DATE	DATE	DATE	DATE
03-16-05	03-16-05	03-16-05	03-16-05
4 OF 15	1	1	4