



ITEM NO. 2G
(24) REQ'D.
JOINT SUPPORT ANGLE DETAIL

MK	QTY.	DESCRIPTION	MATERIAL	LENGTH	REMARKS	PART NO.
2A	2	"D-400" MODULAR EXPANSION JOINT		13426	HGD	
r6	4	EB 32 X 127 SS	A572	223	UPTURN PIECE	50-17
r7	4	EB 32 X 127 SS	A572	223	UPTURN PIECE	50-17
r8	2	EB 32 X 127 SS	A572	13112	UPTURN CUT BOTH ENDS	50-17
r9	2	EB 32 X 127 SS	A572	13112	UPTURN CUT BOTH ENDS	50-17
r4	16	CB 64 X 127 SS	A572	223	CVN; UPTURN PIECE	50-72
r10	8	CB 64 X 127 SS	A572	13112	CVN; UPTURN CUT BOTH ENDS	50-72
a11	96	WS 16 X 167	A108		EDGE BEAM ANCHORAGE	29-10
a12	44	WS 16 X 167	A108		EDGE BEAM ANCHORAGE (BEND 45° @ 50mm)	29-10
a13	240	WS 16 X 167	A108		EDGE BEAM ANCHORAGE (BEND 15° @ 50mm)	29-10
b13	168	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
b19	48	TS 229 X 178 X 10	A500 GR. B	360	SUPPORT BOX	22-98
b20	48	TS 229 X 178 X 10	A500 GR. B	439	SUPPORT BOX	22-98
b17	96	TS 25 X 25 X 3	A513	38	SUPPORT BOX ITEM	56-35
b18	192	MI SUPPORT BOX END CAP	A606 TYPE 4 OR HDPE			
s24a	48	PL 51 X 157	A572	907	CVN; EXTERIOR SUPPORT BAR	19-245
s25a	48	PL 51 X 157	A572	907	CVN; INTERIOR SUPPORT BAR	19-245
s26	96	PL 16 GA. X 67	SS A240	165	2b, TYPE 304	56-72
s27	96	PL 16 GA. X 67	SS A240	244	2b, TYPE 304	56-50
s28	96	PL 16 GA. X 67	SS A240	324	2b, TYPE 304	56-69
s29	96	PL 16 GA. X 67	SS A240	403	2b, TYPE 304	56-72
s30	48	FB 16 X 64	A36	70	EXTERIOR SPRING STOP	16-106
s31	144	FB 16 X 64	A36	87	INTERIOR 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	120	MOD 80mm CONTROL SPRING	MA-91			56-3
m30	120	MOD 80mm NYLON PIN	MA-91			56-34
m31	240	MOD 80mm HITCH PIN	MA-91			56-7
k32	192	PRECOMPRESSED SPRING				
k33	192	SLIDE BEARING				
t34	48	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
t39	48	RB 32 CONT THRD	A36 ZP	900	TEMP. ADJUST. ITEM	18-34
t37	192	HN 32	A563A ZP		TEMP. ADJUST. ITEM	25-117
t38	192	FW 32	F844 ZP		TEMP. ADJUST. ITEM	27-100
w39	5	MI GAL LUB ADHSV	D4070			1520
w40	10	DSB NEO GLAND L2 102mm		13.4 M	134 M TOTAL	L2-SEAL
JOINT SUPPORT ITEMS:						
2G	24	L 152 X 102 X 13	A36 HDG	175	JOINT SUPPORT ITEM	15-86
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	50	RB 19 CONT THRD	A193-B7 HDG	229	(48) JOINT SUPPORT ITEM	18-126
7G	100	HN 3/4	A563A MG	(96)	JOINT SUPPORT ITEM	25-59
8G	100	FW 3/4	F844 MG	(96)	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)						
2A	2	"D-400" MODULAR EXPANSION JOINT		44'-0 9/16	HGD	
r6	4	EB 1 1/4 X 5 SS	A572	0'-8 3/4	UPTURN PIECE	50-17
r7	4	EB 1 1/4 X 5 SS	A572	0'-8 3/4	UPTURN PIECE	50-17
r8	2	EB 1 1/4 X 5 SS	A572	43'-0 1/4	UPTURN CUT BOTH ENDS	50-17
r9	2	EB 1 1/4 X 5 SS	A572	43'-0 1/4	UPTURN CUT BOTH ENDS	50-17
r4	16	CB 2 1/2 X 5 SS	A572	0'-8 3/4	CVN; UPTURN PIECE	50-72
r10	8	CB 2 1/2 X 5 SS	A572	43'-0 1/4	CVN; UPTURN CUT BOTH ENDS	50-72
a11	96	WS 5/8 X 6 9/16	A108		EDGE BEAM ANCHORAGE	29-10
a12	44	WS 5/8 X 6 9/16	A108		EDGE BEAM ANCHORAGE (BEND 45° @ 2')	29-10
a13	240	WS 5/8 X 6 9/16	A108		EDGE BEAM ANCHORAGE (BEND 15° @ 2')	29-10
b13	168	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
b19	48	TS 9 X 7 X 3/8	A500 GR. B	1'-2 3/16	SUPPORT BOX	22-98
b20	48	TS 9 X 7 X 3/8	A500 GR. B	1'-5 5/16	SUPPORT BOX	22-98
b17	96	TS 1 X 1 X 1/8	A513	0'-1 1/2	SUPPORT BOX ITEM	56-35
b18	192	MI SUPPORT BOX END CAP	A606 TYPE 4 OR HDPE			
s24a	48	PL 2 X 6 3/16	A572	2'-11 11/16	CVN; EXTERIOR SUPPORT BAR	19-245
s25a	48	PL 2 X 6 3/16	A572	2'-11 11/16	CVN; INTERIOR SUPPORT BAR	19-245
s26	96	PL 16 GA. X 2 5/8	SS A240	0'-6 1/2	2b, TYPE 304	56-72
s27	96	PL 16 GA. X 2 5/8	SS A240	0'-9 5/8	2b, TYPE 304	56-50
s28	96	PL 16 GA. X 2 5/8	SS A240	1'-0 3/4	2b, TYPE 304	56-69
s29	96	PL 16 GA. X 2 5/8	SS A240	1'-3 7/8	2b, TYPE 304	56-72
s30	48	FB 5/8 X 2 1/2	A36	0'-2 3/4	EXTERIOR SPRING STOP	16-106
s31	144	FB 5/8 X 2 1/2	A36	0'-3 7/16	INTERIOR 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	120	MOD 80mm CONTROL SPRING	MA-91			56-3
m30	120	MOD 80mm NYLON PIN	MA-91			56-34
m31	240	MOD 80mm HITCH PIN	MA-91			56-7
k32	192	PRECOMPRESSED SPRING				
k33	192	SLIDE BEARING				
t34	48	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
t39	48	RB 1 1/4 CONT THRD	A36 ZP	2'-11 7/16	TEMP. ADJUST. ITEM	18-34
t37	192	HN 1 1/4	A563A ZP		TEMP. ADJUST. ITEM	25-117
t38	192	FW 1 1/4	F844 ZP		TEMP. ADJUST. ITEM	27-100
w39	5	MI GAL LUB ADHSV	D4070			1520
w40	10	DSB NEO GLAND L2 4"		43'-11 9/16	439'-7 5/8 TOTAL	L2-SEAL
JOINT SUPPORT ITEMS:						
2G	24	L 6 X 4 X 1/2	A36 HDG	0'-6 7/8	JOINT SUPPORT ITEM	15-86
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	50	RB 3/4 CONT THRD	A193-B7 HDG	0'-9	(48) JOINT SUPPORT ITEM	18-126
7G	100	HN 3/4	A563A MG	(96)	JOINT SUPPORT ITEM	25-59
8G	100	FW 3/4	F844 MG	(96)	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: CONFIRMING AND CORRECTING 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.

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Job Number: 52411
Reviewed By: SMH
Date: 6/1/86

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REMOVED NOTE IN SECTION F2; MODIFIED ITEMS IN BILL OF MATERIALS & TITLE BLOCK	04/02/06	RES	JLW
ADDED STUD ANCHORS ABOVE 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 - ALBURG AND SWANTON	-	-	
P.O. NO. - P078559 MIS	-	-	
SUPERVISOR - MARK KACZINSKI	-	-	
CUSTOMER - CIANBRO CORPORATION	-	-	
DESCRIPTION: "D-400" JOINT SUPPORT DETAILS & BILL OF MATERIALS	SCALE: N.T.S.	DRAWN BY: RES	CHECKED BY: JLW
COUNTIES OF GRAND ISLE AND FRANKLIN, VERMONT	DATE: 03-18-05	BRIDGE SHEET: 7 OF 15	
PROJECT NUMBER: 12244	PRODUCT CODE: 1021	RELEASE: 1	SHEET: 7