DRAINAGE NOTES

1.) MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH STATE OF VERMONT AGENCY OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION," 2001 EDITION, THE SUPPLEMENTAL SPECIFICATION, THE CONTRACT PLANS, AND THE SPECIAL PROVISIONS.

2.) ALL WELDING AND CORRESPONDING WELD INSPECTION SHALL CONFORM TO THE CURRENT EDITION OF THE AASHTO/AWS D-1.5 BRIDGE WELDING CODE.

3.) ALL FLAT BAR AND PLATE SHALL CONFORM TO AASHTO M270 (ASTM A709), GRADE 36. ALL PIPE SHALL BE IN ACCORDANCE WITH ASTM A53, GRADE B.

4.) ALL HARDWARE, EXCEPT WEDGE ANCHORS, SHALL BE HIGH STRENGTH. HIGH STRENGTH BOLTS, NUTS, AND WASHERS SHALL CONFORM TO AASHTO M164, M291, AND M293 (ASTM A325, A563 DH OR A194 2H, AND F436) RESPECTIVELY AND 506.19 AND 714.05 OF THE STANDARD SPECIFICATIONS.

5.) ALL STEEL SHALL HAVE SURFACE PREPARATION PERFORMED IN ACCORDANCE WITH SSPC-SP8 AND SECTION 506.14 OF THE STANDARD SPECIFICATIONS PRIOR TO GALVANIZING. ALL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M111 (ASTM A123). ALL HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 (ASTM A153). REPAIR OF DAMAGED GALVANIZING SHALL BE PERFORMED IN ACCORDANCE WITH ASTM A780.

MK	QTY.	DESCRIPTION	MATERIAL	LENGTH	REMARKS	PART NO.
6A	1	EXPANSION JOINT DOWNSPOUT		2801	HDG	
fa6	2	FB 6 x 38	M270MGR250	38		16-27
pa6	1	PL 10 x 320	M270MGR250	350	SHAPE CUT	19-14
pb6	1	PL 10 x 251	M270MGR250	350		19-14
pc6	1	PL 10 x 201	M270MGR250	350		19-14
pd6	2	PL 10 x 251	M270MGR250	301	SHAPE CUT	19-14
ta6	1	PI ø254 SCH 40	A53MGRB	1836	SKEW CUT	21-14
tb6	1	PI ø254 SCH 40	A53MGRB	1409	SKEW CUT	21-14
6B	1	SUPPORT PLATE			HDG	
6B	1	PL 19 x 379	M270MGR250	460	SHAPE CUT/BEND	19-19
6C	3	HANGER CLAMPS			HDG	
6C	3	FB 10 x 83	M270MGR250	849	BEND	16-74
6D	2	FILL PLATES			HDG	
6D	2	FB 19 x 83	M270MGR250	440		16-124
		FIELD HARDWARE:				
7A	5	HB ø19 x 57	M164M HDG		(2) ROCAP	23-359
7B	5	HN ø19 HVY	M291M HDG		(2) ROCAP	25-24
7C	5	FW ø19	M293M HDG		(2) ROCAP	27-45
7D	10	MI ø19 x 216 WEDGE ANCHOR			(6) HDG/RED HEAD #WS-3484G OR EQUAL	
		ENGLISH B.O.M. (REF. ONLY)				
6A	1	EXPANSION JOINT DOWNSPOUT		9'-2 1/4"	HDG	
fa6	2	FB 1/4 x 1 1/2	M270GR36	0'-1 1/2"		16-27
pa6	1	PL 3/8 x 12 5/8	M270GR36	1'-1 3/4"	SHAPE CUT	19-14
pb6	1	PL 3/8 x 9 7/8	M270GR36	1'-1 3/4"		19-14
pc6	1	PL 3/8 x 7 15/16	M270GR36	1'-1 3/4"		19-14
pd6	2	PL 3/8 x 9 7/8	M270GR36	0'-11 7/8"	SHAPE CUT	19-14
ta6	1	PI ø10 SCH 40	A53GRB	6'-0 5/16"	SKEW CUT	21-14
tb6	1	PI ø10 SCH 40	A53GRB	4'-7 1/2"	SKEW CUT	21-14
6B	1	SUPPORT PLATE			HDG	
6B	1	PL 3/4 x 14 15/16	M270GR36	1'-6 1/8"	SHAPE CUT/BEND	19-19
6C	3	HANGER CLAMPS			HDG	
6C	3	FB 3/8 x 3 1/4	M270GR36	2'-9 7/16"	BEND	16-74
6D	2	FILL PLATES			HDG	
6D	2	FB 3/4 x 3 1/4	M270GR36	1'-5 5/16"		16-124
		FIELD HARDWARE:				
7A	5	HB ø3/4 x 2 1/4	M164 HDG		(2) ROCAP	23-359
7B	5	HN ø3/4 HVY	M291 HDG		(2) ROCAP	25-24
7C	5	FW ø3/4	M293 HDG		(2) ROCAP	27-45
7D	10	MI ø3/4 x 8 1/2 WEDGE ANCHOR			(6) HDG/RED HEAD #WS-3484G OR EQUAL	

SEE SHEET NO. 6 FOR DRAINAGE DETAILS.

REV.	DESCRIPTION	DATE	DET.	CKD.

RECEIVED
OK'D BY _____ OK'D BY _____
JUN 26 2006
RESUBMIT _____ APPROVED ✓
BY _____ DATE 7/7/06

VTrans - FDD
JUN 26 2006
Structures Design Section

D.S. BROWN
300 E. CHERRY STREET
NORTH BALTIMORE, OHIO 45872
419.257.3561
FAX: 419.257.0332

4201 NOREX DRIVE
CHASKA, MINNESOTA 55318
952.368.3000
FAX: 952.448.7000

DSBROWN.COM

	ITEM	QUANTITY
LOCATION — U.S. ROUTE 5 OVER LULLS BROOK	–	–
BRIDGE — NO. 60	–	–
PROJECT — BRS 0113 (22)	–	–
TOWN — HARTLAND	–	–
P.O. NO. — 2004	–	–
DESIGNER — McFARLAND-JOHNSON, INC.	–	–
CUSTOMER — MILLER CONSTRUCTION, INC.	–	–
	–	–

DESCRIPTION:
EXPANSION JOINT DRAINAGE DETAILS
WINDSOR COUNTY, VT

SCALE:	DRAWN BY:	CHECKED BY:	DATE:	
N.T.S.	JMB	JEB	5/30/06	–
PROJECT NUMBER	PRODUCT CODE	RELEASE	SHEET	
14032	1042	2	7	

143 sheets