From:	Green, Frank
То:	Daly, Keith;
cc:	Degenhart, Mark; Nelson, Todd; Peppers, Nicki;
Subject:	FW: C8078 CRC Test Piles - (RAMS 3-7) Bubble Curtain
Date:	Tuesday, March 01, 2011 8:48:48 AM
Attachments:	Scan001.pdf

Keith,

All RAMs are approved.

Mark/Todd,

Can you help me with the question that James has? Let me know.

Thank you.

From: Schufreider, James [mailto:JSchufre@wsdot.wa.gov]
Sent: Monday, February 28, 2011 9:44 AM
To: Green, Frank
Subject: RE: C8078 CRC Test Piles - (RAMS 3-7) Bubble Curtain

These look fine.

Curiosity question – did anyone notice how warm the manifold or valves became when the maximum amount of air was flowing thru them? Nobody noticed? Warm to the touch? Steam was formed when the rain landed on the metal parts?

From: Green, Frank [mailto:greenf@columbiarivercrossing.com]
Sent: Thursday, February 24, 2011 8:52 AM
To: Schufreider, James
Cc: Daly, Keith
Subject: FW: C8078 CRC Test Piles - (RAMS 3-7) Bubble Curtain
Importance: High

James,

You previously assisted me with approval of the valves and hoses/fittings but RAM-0003 is for the gauges and RAM-0006 is for the flowmeters. Can you provide me with your thoughts regarding those materials (do they meet the specification)?

Thank you for all your assistance throughout this process.

From: Beaver, Jesse [mailto:BeaverJ@wsdot.wa.gov]
Sent: Wednesday, February 23, 2011 4:53 PM
To: Green, Frank; Beaver, Jesse
Subject: C8078 CRC Test Piles - (RAMS 3-7) Bubble Curtain
Importance: High

Frank,

Please get feedback from your bubble curtain designer on these submissions.

Jesse L. Beaver, PE State Construction Office 360.705.**7825** 360.791.2855 (cell)

> From: Ablson, Maha Sent: Friday, February 11, 2011 7:22 AM To: Niemi, Mike Cc: Molohon, Rob Subject: 008078 RAMS#3-7 Bubble Curtain Importance: High

Good morning Mike, Submitted for your evaluation. Thank you,

Maha Ablson

RAM Engineer WSDOT, Materials Lab Office: 360.709.5403 Fax: 360.709.5588 mahaab@wsdot.wa.gov

From: Peppers, Nicki [mailto:peppersn@columbiarivercrossing.com]
Sent: Thursday, February 03, 2011 1:37 PM
To: Ablson, Maha
Cc: Daly, Keith
Subject: RAMS 3-7

Please find attached RAM-0003, RAM-0004, RAM-0005, RAM-0006, RAM-0007

High Priority.

Thanks, Nicki 360-816-2167

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*** eSafe scanned this email for malicious content *** *** IMPORTANT: Do not open attachments from unrecognized senders *** *** eSafe2 scanned this email for malicious content ***
*** IMPORTANT: Do not open attachments from unrecognized senders ***

*** eSafe scanned this email for malicious content ***
*** IMPORTANT: Do not open attachments from unrecognized senders ***

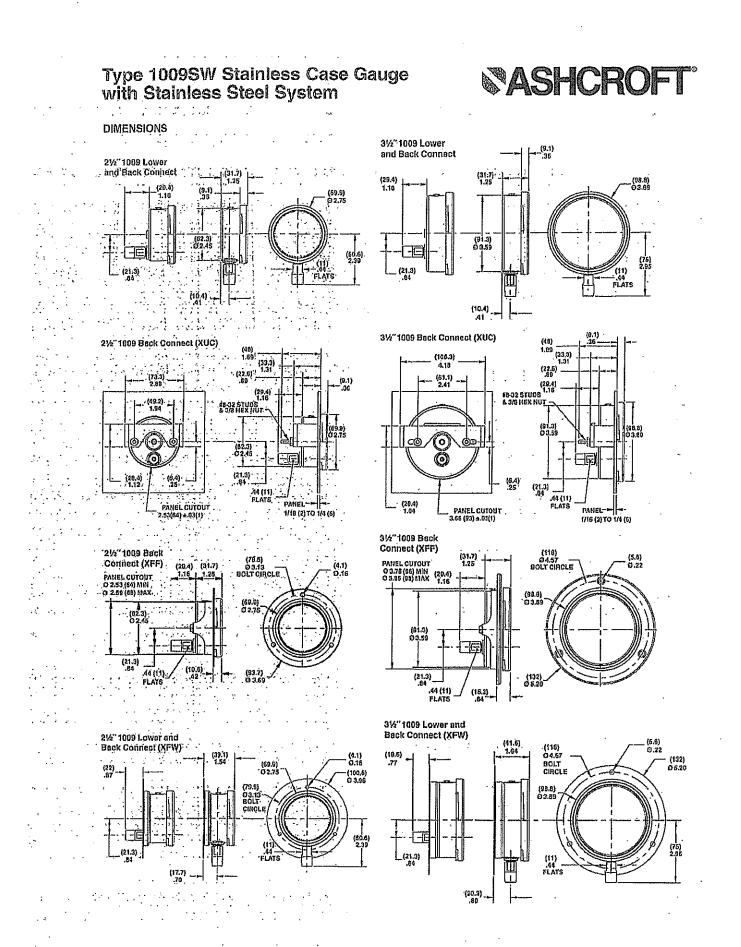
RAM-0003

Washington State Department of Transportation

Request for Approval of Material

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Contract	8078	FA Number	SR	-5 ^{Da}	10 2 3 11	
Section T-5	columbia River Bridge	(WA 0.3 to OR MP 3	08) [Co	WA AND OF	2 states	
Contracto	Contractor AMERICAN CONSTRUCTION COMPANY, INC. Subcontractor					
This form shall be completed prior to submittal. If this form is not complete at time of submittal it may be returned for information that was omitted. For WSDOT Use Only For assistance in completing, see Instructions and Example RAM # 3						
Bid Ilem No.	Material or Product/Type	Name and Location of Fabrica Manufacturer or Pit Number		n PE/QPL Code	Hdqir,/QPL Code	
2&3	Furnish manifold	AshcroFt, Inc.	Steahl plou	91015		
	for both CONFINED	250 East Main Street	page 98			
	AND UNCONFINED BUBBLE CURTAINS	Stratford, CT 06614				
	proper uncinitys		····			
<u>.</u>	PRESSURE GAUGES	www.ashcroft.com	·····		· · ·	
2.12	These de					
3.12	· · · · · · · · · · · · · · · · · · ·	······				
		· · · · · · · · · · · · · · · · · · ·				
Project En	igineer i Peppus Or Frank	Date State M Green 2/3/11	aterials Engineer		Date	
TUUR	Acceptance Action	Creen 43111 on Codes for use by Project Eng	neer and State Mater	lals Laboratory		
	1. Acceptance Criteria: Acceptance based upon 'Satisfactory' Test Report for samples of materials to be incorporated into project. 2. Acceptance Criteria: Mfg. Cert. of Compliance for 'Acceptance' prior to use of material.					
 Acceptance Criteria: Catalog Cuts for 'Acceptance' prior to use of material. Catalog Cut Approved ☐ Yes ☐ No Acceptance Criteria: Submit Shop Drawings for 'Approval' prior to fabrication of material. 						
	ance Criteria: Only 'Approve	d for Shipmani', 'WSDOT Inspecied' or cate of Materials Origin to Project Engin	Fabrication Approved De	ecal' material shall be	used.	
7. Accept		milled to State Materials Laboratory for				
	. <u> </u>			, 		
10. Approv	9. Approval Withheld: Submit samples for preliminary evaluation. 10. Approval Withheld: Approval Withheld:					
11. Miscellaneous Acceptance Criteria. Remarks:						
APPROVED 12-28-2011						
10. Approval Winneld: 11. Miscellaneous Acceptance Criteria. Remarks: CC: American Construction, Peppers						
Project Engineer Distribution State Materials Engineer Distribution Contractor I Region Materials						
Region Operations Engineer State Materials Lab Other				-		
Fabrication Inspection W/S 4/305 IOT Form 350-071 EF Revised 12/2008						



RAM - 0004

Washington State Department of Transportation

Request for Approval of Material

Contract	8078	FA Number	SR I-	5 Date	2311
Section I-5	Columbia River Bridge	(WA 0.3 to OR MP 308		VA AND OR	states
Contractor AMERICAN CONSTRUCTION COMPANY, INC. Subcontractor					
submittal	it may be returned for into	o submittal. If this form is not corr rmation that was omitted. Instructions and Example	plete al time of	For WSDC RAM# 4	T Use Only
Bid Item No.	Material or Product/Type	Name and Location of Febricator, Manufacturer or Pit Number	Specification Reference	PE/QPL Code	Hdqtr./QPL Code
283	Furnish manifold	TA-CHEN Industrial	SPECIAL PROWSID	5 78	
	for both confined	5855 Ispo Avenue	page 98		
	AND UNCONFINED	Long Beach, CA 90805	1 .		
	BUBBLE OUR TAINS				·
	•				
	GATE VALVES				
2.08					
3.08		· · · · · · · · · · · · · · · · · · ·		-	
,				د مىلامىيەن بىر بىر بىر بىر بىر بىر بىر بىر	·
Project En	Homes THANK GL	een 2/3/11	rials Engineer		Date
Acceptance Action Codes for use by Project Engineer and State Materials Laboratory Acceptance Criteria: Acceptance based upon 'Satisfactory' Test Report for samples of materials to be incorporated into project.					
2. Accept	ance Criteria: Mfg. Cert. of C	compliance for 'Acceptance' prior to use of or 'Acceptance' prior to use of material. C	material.	·• ·	
4. Accept	ance Criteria: Submit Shop I	Drawings for 'Approval' prior to fabrication of d for Shipment', 'WSDOT Inspected' or 'Fai	of malerial.	•	sed
6. Accept	ance Criteria: Submit Certific	ate of Materials Origin to Project Engineer mitted to State Materials Laboratory for Ap	Office.	i matemi shuhot u	
	Approved:	UNDED to State Materials Caporatory of Sp	prover reader.	• • •	
9. Approv	val Withheld: Submit sample	s for preliminary evaluation.			······
	val Wilhheld: Ianeous Acceptance Criteria.				
Remarks: Approved per CM Section 9-1.1D APPROVED Jumes Definite CC: American Construction, People 2 2-28-2041					
APPROVED Jumes Schufreide					
Contractor Region Materials General File Signing Inspection					
		5 47365	······································		
DOT Form 350-071 EF Revised 12/2008					

RAM - 0005

Washington State Department of Transportation

Request for Approval of Material

Contract	8078	FA Number		SR I-	5 Dat	° 2/3/11
Section I-5 Co		(WA 0.3 to OR	MP 308)	Coun V	VA AND OR	. states
T-S columbia River Bridge (WA 0.3 to OR MP 308) WA AND OR STATES Contractor AMERICAN CONSTRUCTION COMPANY, INC.						
This form shall be completed prior to submittal. If this form is not complete at time of submittal it may be returned for information that was omitted. For WSDOT Use Only For assistance in completing, see Instructions and Example RAM # 577						
Bid Item No.	Material or Product/Type	Name and Location of I Manufacturer or PII f		Specification Reference	PE/QPL Code	Hdqtr./QPL Code
2&3	Furnish manifold	TA-CHEN Indus	trial f	SPECIAL PROVIDIO	5	
4	for both confined	5855 Ispo Ave	enne	page 98	7	
	HO UNCONFINED	Long Beach, CA c	10805			
В	MBBUE CURTAINS				· · · · · · · · · · · · · · · · · · ·	
						4
B	ALL VALVES	· · ·				
2.09	· · ·					
3.09	•					Ì
-			,			
	· · ·					
Project Engir	Project Engineer Date Date Date Date Date Date Date					Date
TUCKI	Acceptance Actic	n Codes for use by Projec	t Engineer and	State Material	s Laboratory	
1. Acceptant		ised upon 'Satisfactory' Test Re			ncorporated into p	roject.
 Acceptant Acceptant 	•	ompliance for 'Acceptance' prio or 'Acceptance' prior to use of m			Yes 🗌 No	
4. Acceptant		Drawings for 'Approval' prior to fa				
5. Acceptant 6. Acceptant		I for Shipment', 'WSDOT Inspec ate of Materials Origin to Projec		n Approved Decal	' material shall be i	used.
7. Acceptant		milled to State Materials Labora		Action.		
8. Source Ap	pproved:					
9. Approval		s for preliminary evaluation.	 			
10. Approval 11. Miscellan	vvinnelo: sóus Acceptance Criteria.	. · ·				
APPRIVED James Schafterde						
Remarks: APFROVED James Scharfreide CC: American Construction, Peppers 2-28-2011						
Project Engineer Distribution State Materials Engineer Distribution						
Contractor Region Materials Contractor State Materials Contractor				Inspection		
Region Operations Engineer State Materials Lab Other						
DOT Form 350-0 Revised 12/	71 EF					