Sengupta, Abhijit

From: Miller, Craig L [Craig.Miller@pgnmail.com]
Sent: Friday, December 18, 2009 4:44 PM
To: Lake, Louis; Thomas, George; nausdj@ornl.gov; Carrion, Robert
Cc: Williams, Charles R.
Subject: Draft FM 3.2 for Review
Attachments: FM 3.2.pptx; FM 3.2 x 1 - Break Test Summary - core v original table.pdf; FM 3.2 x 2 - SP5618 grout specs.pdf; FM 3.2 x 3 - grout and concrete batching - FPC Procedure W112 .pdf; FM 3.2 x4 - Pour data summary CR3.pdf; FM 3.2 x 5 - joint photos.pdf

1 page
2 pages
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8 pages
6 pages
2 pages

Mr. Lake and Others,

Attached for your review is the draft of FM 3.2 with attachments. If you have any questions, please contact Charles Williams or myself.

Thank you,

Craig Miller

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5:01.2 The CONTRACTOR shall be responsible for the preparation of written procedure(s) to set forth how the work to be performed under the specification will be carried out. The party performing the work shall also prepare a written quality control procedure setting forth what tests will be executed to substantiate compliance with the specification. Such written procedures shall be submitted to the ENGINEER for review and comment. These procedures shall be written prior to the starting of any of the work.

5:01.3 Prior to placing of concrete on compacted fill, the fill shall be checked for the percentage compaction required under Section 2:01.1. The subgrade shall be free of debris and organic material and shall be wetted thoroughly.

5:01.4 Before concrete is placed on a hardened concrete surface, it shall be free of laitance and foreign material. Horizontal and vertical construction joints in the reactor building cylindrical shell and dome shall be prepared for receiving the next pour by either sand-blasting, air water jet, bush hammering, or other means to remove all coatings, stain, debris, or other foreign material.

5:01.5 In conveying of concrete from mixer to concrete in place, only those methods and arrangements of equipment should be used which will reduce to a minimum any separation of coarse aggregate from the concrete. Equipment should be capable of expeditiously handling and placing concrete of such a proper consistency, grading, and maximum size of aggregate, at the rate most favorable to good quality and workmanship. The conveying equipment shall be in accordance with ACI 301-67, Chapter 8 and ASTM C-94-67.

★★★★ 5:01.6 If concrete is deposited on a hardened concrete surface, a 1/2 inch layer of neat grout shall be applied before concrete is deposited. Concrete shall be deposited continuously and in horizontal layers not exceeding 18 inches, avoiding inclined construction joints. It is important that each layer be shallow enough so as to be placed while the previous layer is still soft and that the two layers be vibrated together. No concrete shall be deposited in concrete which has hardened sufficiently to cause the formation of seams or planes of weakness within the section. Concrete shall be placed with the required consistency to assure proper workability. The placing of concrete around reinforcing and embedded items shall be by methods that will not cause movement or damage. The maximum free fall of concrete shall be three feet.

5:01.7 All concrete shall be consolidated by vibration, spading, or rodding so that the concrete is thoroughly worked around the reinforcement, embedded items, and into corners of forms, eliminating all air or rock pockets which may cause honeycombing, pitting, or planes of weakness. If vibrators are used, they shall have adequate power and be of high frequency, rugged, and reliable. When immersed in concrete, the vibrator shall have a minimum frequency of 7000 rpms. Over-vibrating and the use of vibrators to transport concrete within the

★★★★ See add. 5

4:01.2 Horizontal and vertical construction joints in the reactor building cylindrical shell and dome shall be prepared for receiving the next pour by either sandblasting, air water jet, bush hammering, or other means to remove all coatings, stains, debris or other foreign material. The horizontal joints shall be dampened (but not saturated), then thoroughly covered with a coat of neat cement mortar of similar proportions to the mortar in the concrete. The mortar shall be at least 1/2 inch thick and fresh concrete shall be placed before the mortar has attained its initial set. The vertical joints shall be dampened (but not saturated) before concrete is placed.

4:02 Expansion Joints

4:02.1 Premolded expansion joint filler shall conform to "Spec. for Preformed Expansion Joint Fillers for Concrete Paving and Structural Construction (Non-extruding and Resilient Non-bituminous Types)," ASTM D 1752-66.

4:02.2 The location size and detail of fillers shall be as shown on the Drawings.

4:02.3 The expansion joints shall be sealed with a material compatible with the premolded expansion joint filler.

4:03 Water Stops

4:03.1 Water stops shall be polyvinyl chloride water stop of the dumbbell, bulb or serrated type as manufactured by W. R. Grace & Co. or approved equal. The location, size and detail of water stops will be as shown on the Drawings.

4:03.2 Vulcanizing of water stop shall be inspected and approved by the Inspector or OWNER. Nailing of water stop shall be free of oil, grease, grout, or any other material that prevents good seal.

4:04

5:00 QUALITY CONTROL

5:01 Concrete

5:01.1 Each week the CONTRACTOR shall submit to the ENGINEER a concrete pour schedule. (This schedule will give the ENGINEER advance notice so he may check the drawings ahead of time and help eliminate possible problems before pour time.)

The CONTRACTOR shall initiate a concrete pour checkout form to assure that all crafts have completed their work prior to concrete placement. After the form has been signed by each craft, it shall be given to the TESTING LABORATORY and/or ENGINEER prior to concrete placement. This form shall be kept as a record for that pour. Each pour shall have a checkout form.

See add. a
See addendum b.
See add E.

CR3 - concrete pour data

Bay/Panel	Date	Pour	Mix Design	Truck Number	Time Loaded	Actual Weights per Truck (6 yd) Cement	Total water	w/c Ratio	Temperature Ambient	Concrete	Slump	Air %	Cylinder #	Comments	Total Yards Used
RB-0015	7/19/1972	522	DM-5 mod	150	926				79	59	7.00			Rejected due to over slump	0.00
RB-0015	7/19/1972	522	DM-5 mod	149	950	4080	1658	0.41	82	64	3.00	3.4			5.98
RB-0015	7/19/1972	522	DM-5 mod	183	1010	4068	1668	0.41	82	67	2.25				5.96
RB-0015	7/19/1972	522	DM-5 mod	152	1042	4110	1661	0.40	83	67	2.75	3.5	1926		6.03
RB-0015	7/19/1972	522	DM-5 mod	150	1112	4098	1665	0.41	85	63	2.75				6.01
RB-0015	7/19/1972	522	DM-5 mod	147	1132	4092	1652	0.40	86	62	3.00				6.00
RB-0015	7/19/1972	522	DM-5 mod	154	1149	4092	1652	0.40	86	63	3.75			Rejected due to over slump	0.00
RB-0015	7/19/1972	522	DM-5 mod	183	1207	4092	1655	0.40	88	65	2.25				6.00
RB-0015	7/19/1972	522	DM-5 mod	149	1221	4092	1652	0.40	88	62	2.00			added 24# cement manually	6.00
RB-0015	7/19/1972	522	DM-5 mod	152	1240	4086	1658	0.41	88	67	1.75			added 60# cement manually	5.99
RB-0015	7/19/1972	522	DM-5 mod	150	1246	4086	1652	0.40	88	64	2.75				5.99
RB-0015	7/19/1972	522	DM-5 mod	147	1257	4092	1655	0.40	86	65	2.00	3.4	1927		6.00
RB-0015	7/19/1972	522	DM-5 mod	154	1306	4092	1661	0.41	86	65	2.50				6.00
RB-0015															
RB-0015	7/25/1972	528	SCM	149	813	6960	2760	0.40	78	56			G100	Grout	6.00
RB-0015	7/25/1972	528	DM-5 mod	150	803	4092	1664	0.41	78	59	3.75			Rejected due to overslump	0.00
RB-0015	7/25/1972	528	DM-5 mod	154	830	4080	1658	0.41	78	59	1.50			5 yd Rejected as unworkable	1.43
RB-0015	7/25/1972	528	DM-5 mod	183	857	4080	1658	0.41	78	62	1.75				5.98
RB-0015	7/25/1972	528	DM-5 mod	181	922	4098	1658	0.40	82	63	1.00				6.01
RB-0015	7/25/1972	528	DM-5 mod	147	956	4104	1655	0.40	82	61	2.25				6.02
RB-0015	7/25/1972	528	DM-5 mod	152	1021	4086	1660	0.41	84	60	5.00			Rejected due to over slump	0.00
RB-0015	7/25/1972	528	DM-5 mod	156	1046	4086	1658	0.41	88	63	2.50	3.6	1932		5.99
RB-0015	7/25/1972	528	DM-5 mod	149	1052	4092	1655	0.40	88	62	2.50				6.00
RB-0015	7/25/1972	528	DM-5 mod	154	1136	4092	1664	0.41	88	66	2.75				6.00
RB-0015	7/25/1972	528	DM-5 mod	183	1200	4086	1658	0.41	88	64	1.50				5.99
RB-0015	7/25/1972	528	DM-5 mod	158	1247	4098	1658	0.40	88	66	2.50				6.01
RB-0015	7/25/1972	528	DM-5 mod	150	1331	4098	1657	0.40	90	64	2.50	3.7	1934		6.01
RB-0015															
RB-0015														Grout	0.00
RB-0015	12/6/1972	634	727550-2	149	1016	4512	1714	0.38	79	60	2.50				6.02
RB-0015	12/6/1972	634	727550-2	148	1023	4500	1717	0.38	80	60	3.00				6.00
RB-0015	12/6/1972	634	727550-2	151	1026	4512	1714	0.38	80	63	3.25				6.02
RB-0015	12/6/1972	634	727550-2	150	1037	4512	1722	0.38	80	62	3.75				6.02
RB-0015	12/6/1972	634	727550-2	152	1049	4488	1716	0.38	80	60	4.00				5.98
RB-0015	12/6/1972	634	727550-2	182	1103	4488	1716	0.38	80	57	7.00			Rejected due to over slump	0.00
RB-0015	12/6/1972	634	727550-2	147	1125	4548	1716	0.38	80	59	8.00			Rejected due to over slump	0.00
RB-0015	12/6/1972	634	727550-2	181	1134	4512	1716	0.38	82	62	3.75				6.02
RB-0015	12/6/1972	634	727550-2	154	1144	4524	1716	0.38	82	60	4.25			Rejected due to over slump	0.00
RB-0015	12/6/1972	634	727550-2	183	1206	4500	1724	0.38	82	58	4.00	4.3	2064		6.00
RB-0015	12/6/1972	634	727550-2	152	1217	4512	1718	0.38	82	58	4.00				6.02
RB-0015	12/6/1972	634	727550-2	182	1235	4506	1742	0.39	82	58	4.00				6.01
RB-0015	12/6/1972	634	727550-2	149	1231	4530	1718	0.38	82	58	3.25				6.04
RB-0015	12/6/1972	634	727550-2	147	1200	4512	1747	0.39	82	58	3.00				6.02
RB-0015	12/6/1972	634	727550-2	150	1250	4494	1728	0.38	82	58	2.00	3.2	2065	3 yd rejected for overtime	2.99
RB-0015	12/6/1972	634	727550-2	148	1258	4512	1714	0.38	82	59	4.00			2 yd rejected for overtime	4.02
RB-0015	12/6/1972	634	727550-2	181	1304	4500	1717	0.38	80	58	2.75			4 yd rejected for overtime	2.00
RB-0015	12/6/1972	634	727550-2	151	1309	4494	1717	0.38	82	60	2.50			1 yd rejected for overtime	4.99
RB-0015	12/6/1972	634	727550-2	154	1321	4512	1720	0.38	81	65	1.50			Rejected due to under slump	0.00
RB-0015	12/6/1972	634	727550-2	183	1327	4494	1715	0.38	82	59	2.75			3 yd rejected for overtime	2.99
RB-0015	12/6/1972	634	727550-2	182	1429	4506	1715	0.38	82	54	3.50				6.01
RB-0015	12/6/1972	634	727550-2	152	1444	4494	1715	0.38	82	54	3.25				5.99
RB-0015	12/6/1972	634	727550-2	149	1448	4482	1721	0.38	80	54	3.50				5.98
RB-0015	12/6/1972	634	727550-2	147	1455	4550	1715	0.38	75	54	3.75				6.07
RB-0015	12/6/1972	634	727550-2	150	1515	4488	1718	0.38	78	54	3.25	3.0	2066		5.98
RB-0015	12/6/1972	634	727550-2	148	1535	4494	1715	0.38	78	52	3.00				5.99
RB-0015	12/6/1972	634	727550-2	181	1550	4494	1714	0.38	78	53	3.75				5.99
RB-0015	12/6/1972	634	727550-2	151	1355	4506	1717	0.38	78	51	3.75				6.01
RB-0015	12/6/1972	634	727550-2	182	1427	4506	1717	0.38	69	55	3.75				6.01
RB-0015	12/6/1972	634	727550-2	152	1442	4512	1717	0.38	69	52	4.00			3 yd not used- pour complete	3.02
RB-0015															
RB-0015	12/9/1972	641	SCM	183	628	6966	2753	0.40	65					Grout	6.01
RB-0015	12/9/1972	641	727550-2	182	635	4506	1716	0.38	65	56	3.50			3 yd rejected for overtime	3.01
RB-0015	12/9/1972	641	727550-2	150	649	4566	1722	0.38	65	54	3.00			2 yd rejected for overtime	4.09
RB-0015	12/9/1972	641	727550-2	180	654	4500	1719	0.38	65	55	3.25				6.00
RB-0015	12/9/1972	641	727550-2	148	700	4530	1722	0.38	68	57	2.50			1 yd rejected for overtime	5.04
RB-0015	12/9/1972	641	727550-2	151	706	4512	1722	0.38	67	56	3.00	3.5	2071	1 yd rejected for overtime	5.02
RB-0015	12/9/1972	641	727550-2	147	748	4494	1718	0.38	67	57	3.75				5.99
RB-0015	12/9/1972	641	727550-2	149	803	4506	1723	0.38	67	54	4.25				6.01
RB-0015	12/9/1972	641	727550-2	152	817	4500	1717	0.38	68	55	4.50			1 yd rejected for overtime	5.00
RB-0015	12/9/1972	641	727550-2	183	830	4500	1720	0.38	68	57	3.50			1 yd rejected for overtime	5.00
RB-0015	12/9/1972	641	727550-2	182	834	4512	1720	0.38	72	54	4.00	3.2	2072	2 yd rejected for overtime	4.02
RB-0015	12/9/1972	641	727550-2	180	846	4506	1714	0.38	76	56	4.25				6.01
RB-0015	12/9/1972	641	727550-2	150	853	4506	1717	0.38	76	54	3.75			1 yd rejected for overtime	5.01
RB-0015	12/9/1972	641	727550-2	148	900	4524	1717	0.38	78	53	4.00				6.03
RB-0015	12/9/1972	641	727550-2	151	904	4530	1720	0.38	78	54	4.00			1 yd rejected for overtime	5.04
RB-0015	12/9/1972	641	727550-2	147	923	4536	1713	0.38	78	59	3.00			3 yd rejected for overtime	3.05
RB-0015	12/9/1972	641	727550-2	149	1008	4482	1716	0.38	80	59	4.00			4 yd rejected for overtime	1.98
RB-0015	12/9/1972	641	727550-2	180	1011	4500	1719	0.38	80	58	4.50			2 yd rejected for overtime	4.00
RB-0015	12/9/1972	641	727550-2	154	1026	4518	1716	0.38	80	59	3.00			3 yd rejected for overtime	3.02
RB-0015	12/9/1972	641	727550-2	182	1039	4500	1715	0.38	80	52	3.25				6.00
RB-0015	12/9/1972	641	727550-2	183	1052	4516	1730	0.38	80	57	3.50			1 yd rejected for overtime	5.02
RB-0015	12/9/1972	641	727550-2	148	1104	4506	1709	0.38	80	56	3.00			4 yd rejected for overtime	2.01

CR3 - concrete pour data

Bay/Panel	Date	Pour	Mix Design	Truck Number	Time Loaded	Actual Weights per Truck (6 yd) Cement	Total water	w/c Ratio	Temperature Ambient	Concrete	Slump	Air %	Cylinder #	Comments	Total Yards Used
RB-0015	12/9/1972	641	727550-2	151	1111	4512	1715	0.38	82	58	3.25			3 yd rejected for overtime	3.02
RB-0015	12/9/1972	641	727550-2	147	1121	4506	1715	0.38	82	57	3.50	3.0	2073	4 yd rejected for overtime	2.01
RB-0015	12/9/1972	641	727550-2	144	1135	4500	1709	0.38	82	59	4.25			3 yd rejected for overtime	3.00
RB-0015	12/9/1972	641	727550-2	150	1209	4512	1717	0.38	82	58	4.50			4 yd rejected for overtime	2.02
RB-0015	12/9/1972	641	727550-2	182	1226	4500	1720	0.38	82	58	4.50			3 yd rejected for overtime	3.00
RB-0015	12/9/1972	641	727550-2	180	1239	4512	1719	0.38	82	58	4.00			2 yd rejected for overtime	4.02
RB-0015	12/9/1972	641	727550-2	168	1249	4500	1716	0.38	84	58	4.25			5 yd rejected for overtime	1.00
RB-0015	12/9/1972	641	727550-2	174	1309	4510	1722	0.38	84	56	4.25			3 yd rejected for overtime	3.01
RB-0015	12/9/1972	641	727550-2	148	1323	4512	1716	0.38	84	57	4.50			5 yd rejected for overtime	1.02
RB-0015	12/9/1972	641	727550-2	151	1342	4506	1716	0.38	86	57	4.50			2 yd rejected for overtime	4.01
RB-0015	12/9/1972	641	727550-2	149	1358	4500	1716	0.38	84	58	3.75				6.00
RB-0015	12/9/1972	641	727550-2	152	1413	4524	1716	0.38	84	57	3.75				6.03
RB-0015	12/9/1972	641	727550-2	150	1427	4506	1716	0.38	84	58	3.50			1 yd rejected for overtime	5.01
RB-0015	12/9/1972	641	727550-2	147	1434	4506	1721	0.38	83	58	3.75			4 yd rejected for overtime	2.01
RB-0015	12/9/1972	641	727550-2	180	1449	4524	1716	0.38	84	58	3.25				6.03
RB-0015	12/9/1972	641	727550-2	154	1503	4496	1716	0.38	84	58	4.50			3 yd rejected for overtime	2.99
RB-0015	12/9/1972	641	727550-2	182	1524	4494	1757	0.39	84	58	4.00				5.99
RB-0015	12/9/1972	641	727550-2	148	1534	4500	1715	0.38	84	58	4.00			3 yd rejected for overtime	3.00
RB-0015	12/9/1972	641	727550-2	151	1550	4500	1715	0.38	84	58	4.50	3.2	2074	1 yd rejected for overtime	5.00
RB-0015	12/9/1972	641	727550-2	149	1610	4512	1715	0.38		56	4.50				6.02
RB-0015	12/9/1972	641	727550-2	183	1621	4482	1715	0.38	82	57	4.00				5.98
RB-0015	12/9/1972	641	727550-2	152	1636	4488	1715	0.38	82	55	3.50				5.98
RB-0015	12/9/1972	641	727550-2	180	1643	4512	1715	0.38	75	58	7.75				6.02
RB-0015	12/9/1972	641	727550-2	147	1633	4506	1715	0.38	74	57	4.00				6.01
RB-0015	12/9/1972	641	727550-2	150	1716	4512	1718	0.38	75	53	4.50				6.02
RB-0015	12/9/1972	641	727550-2	154	1727	4542	1739	0.38	75	53	3.75				6.06
RB-0015	12/9/1972	641	727550-2	182	1742	4512	1717	0.38	74	58	3.75				6.02
RB-0015	12/9/1972	641	727550-2	149	1757	4536	1714	0.38	72	52	4.00				6.05
RB-0015	12/9/1972	641	727550-2	183	1825	4518	1714	0.38		55	3.75				6.02
RB-0015	12/9/1972	641	727550-2	151	1833	4518	1711	0.38	71	55	3.00	3.0	2074		6.02
RB-0015	12/9/1972	641	727550-2	183	1825	4518	1714	0.38	71	55	3.75				6.02
RB-0015	12/9/1972	641	727550-2	151	1833	4518	1711	0.38	71	55	3.00	3.0	2075		6.02
RB-0015	12/9/1972	641	727550-2	147	1840	4512	1717	0.38	72	55	3.50				6.02
RB-0015	12/9/1972	641	727550-2	152	1850	4524	1717	0.38	71	55	3.00				6.03
RB-0015	12/9/1972	641	727550-2	180	1909	4494	1714	0.38	72	55	3.75			2 yd rejected for overtime	3.99
RB-0015	12/9/1972	641	727550-2	150	1927	4500	1716	0.38	71	53	4.50	3.2	2076		6.00
RB-0015	12/9/1972	641	727550-2	154	1940	4506	1719	0.38	72	56	3.25				6.01
RB-0015	12/9/1972	641	727550-2	149	2015	4506	1719	0.38	72	52	3.00				6.01
RB-0015	12/9/1972	641	727550-2	182	2055	4476	1716	0.38						Rejected	0.00
RB-0015	12/9/1972	641	727550-2	183	2127	4500	1719	0.38	70	56	3.00			3 yd not used- pour complete	3.00
RB-0015	1/7/1973	666	SCM	183	712	3474	1386	0.40	67					Grout	2.99
RB-0015	1/7/1973	666	SCM	180	722	3492	1394	0.40	67					Grout	3.01
RB-0015	1/7/1973	666	727550-2	150	717	4488	1715	0.38	67	60	2.00			Rejected due to under slump	0.00
RB-0015	1/7/1973	666	727550-2	148	735	4470	1728	0.39						Rejected	0.00
RB-0015	1/7/1973	666	727550-2	147	748	4476	1758	0.39	67	56	4.50				5.97
RB-0015	1/7/1973	666	727550-2	149	802	4476	1736	0.39	67	55	4.25				5.97
RB-0015	1/7/1973	666	727550-2	268	806	4482	1727	0.39	67	55					5.98
RB-0015	1/7/1973	666	727550-2	301	810	4470	1715	0.38	67	56	3.75				5.96
RB-0015	1/7/1973	666	727550-2	256	815	4512	1715	0.38	67	56	4.50				6.02
RB-0015	1/7/1973	666	727550-2	181	820	4524	1718	0.38	67	55	4.25	3.4	2117		6.03
RB-0015	1/7/1973	666	727550-2	180	828	4482	1720	0.38	67	55	4.50			4 yd rejected	1.98
RB-0015	1/7/1973	666	727550-2	150	832	4476	1711	0.38	68	55	4.50			6 yd rejected for overtime	0.00
RB-0015	1/7/1973	666	727550-2	147	924	4470	1715	0.38	68	55	3.75				5.96
RB-0015	1/7/1973	666	727550-2	182	940	4506	1718	0.38	68	55	4.00				6.01
RB-0015	1/7/1973	666	727550-2	256	955	4476	1718	0.38	68	54	4.00				5.97
RB-0015	1/7/1973	666	727550-2	301	1000	4476	1715	0.38	68	52	4.00				5.97
RB-0015	1/7/1973	666	727550-2	183	1016	4518	1713	0.38	69	53	4.25	3.5	2118		6.02
RB-0015	1/7/1973	666	727550-2	181	1028	4506	1718	0.38	67	54	4.25				6.01
RB-0015	1/7/1973	666	727550-2	180	1033	4470	1721	0.39	67	55	4.50				5.96
RB-0015	1/7/1973	666	727550-2	150	1039	4470	1715	0.38	67	54	3.75				5.96
RB-0015	1/7/1973	666	727550-2	182	1044	4482	1711	0.38	67	55	3.75				5.98
RB-0015	1/7/1973	666	727550-2	256	1058	4482	1715	0.38	66	54	4.50				5.98
RB-0015	1/7/1973	666	727550-2	147	1116	4506	1712	0.38	66	54	4.00				6.01
RB-0015	1/7/1973	666	727550-2	268	1128	4506	1715	0.38	67	55	4.00			1 yd rejected for overtime	5.01
RB-0015	1/7/1973	666	727550-2	183	1134	4470	1715	0.38	67	54	4.50	3.7	2119		5.96
RB-0015	1/7/1973	666	727550-2	301	1143	4470	1814	0.41	69	55	3.75				5.96
RB-0015	1/7/1973	666	727550-2	153	1148	4482	1715	0.38	69	56	4.25			2 yd rejected for overtime	3.98
RB-0015	1/7/1973	666	727550-2	180	1154	4494	1715	0.38	70	56	4.50				5.99
RB-0015	1/7/1973	666	727550-2	150	1204	4506	1715	0.38	69	53	4.00				6.01
RB-0015	1/7/1973	666	727550-2	181	1214	4454	1712	0.38	69	55	4.00			2 yd rejected for overtime	3.94
RB-0015	1/7/1973	666	727550-2	256	1223	4494	1712	0.38	69	53	4.00				5.99
RB-0015	1/7/1973	666	727550-2	147	1232	4572	1715	0.38	69	54	4.50				6.10
RB-0015	1/7/1973	666	727550-2	182	1242	4512	1715	0.38	70	54	4.00	3.6	2121	1 yd rejected for overtime	5.02
RB-0015	1/7/1973	666	727550-2	183	1250	4500	1718	0.38	70	54	3.50				6.00
RB-0015	1/7/1973	666	727550-2	301	1326	4518	1716	0.38	70	54	3.75				6.02
RB-0015	1/7/1973	666	727550-2	210	1334	4476	1719	0.38	70	57	4.50				5.97
RB-0015	1/7/1973	666	727550-2	268	1350	4506	1722	0.38	70	56	3.50				6.01
RB-0015	1/7/1973	666	727550-2	150	1400	4482	1719	0.38	70	54	3.00				5.98
RB-0015	1/7/1973	666	727550-2	356	1410	4506	1719	0.38	71	56	4.25				6.01
RB-0015	1/7/1973	666	727550-2	153	1436	4500	1719	0.38	71	55	4.00				6.00
RB-0015	1/7/1973	666	727550-2	181	1449	4488	1719	0.38	70	54	4.50				5.98

CR3 - concrete pour data

Bay/Panel	Date	Pour	Mix Design	Truck Number	Time Loaded	Actual Weights per Truck (6 yd) Cement	Total water	w/c Ratio	Temperature Ambient	Concrete	Slump	Air %	Cylinder #	Comments	Total Yards Used
RB-0015	1/7/1973	666	727550-2	147	1500	4500	1716	0.38	70	54	4.00				6.00
RB-0015	1/7/1973	666	727550-2	183	1506	4482	1716	0.38	70	54	4.50	3.4	2121		5.98
RB-0015	1/7/1973	666	727550-2	182	1513	4524	1707	0.38	70	54	4.00				6.03
RB-0015	1/7/1973	666	727550-2	301	1521	4482	1710	0.38	70	57	3.75				5.98
RB-0015	1/7/1973	666	727550-2	180	1533	4506	1716	0.38	70	57	3.75				6.01
RB-0015	1/7/1973	666	727550-2	150	1547	4500	1710	0.38	70	55	3.75				6.00
RB-0015	1/7/1973	666	727550-2	268	1558	4500	1710	0.38	70	56	4.00				6.00
RB-0015	1/7/1973	666	727550-2	256	1610	4500	1716	0.38	70	55	4.50				6.00
RB-0015	1/7/1973	666	727550-2	153	1622	4454	1716	0.39	70	55	4.00				5.94
RB-0015	1/7/1973	666	727550-2	147	1635	4506	1713	0.38	70	55	4.50				6.01
RB-0015	1/7/1973	666	727550-2	181	1648	4482	1710	0.38	70	54	4.25				5.98
RB-0015	1/7/1973	666	727550-2	183	1652	4494	1707	0.38	70	54	4.00				5.99
RB-0015	1/7/1973	666	727550-2	301	1655	4494	1713	0.38	68	55	4.00	3.5	2122		5.99
RB-0015	1/7/1973	666	727550-2	180	1700	4524	1710	0.38	68	54	3.75				6.03
RB-0015	1/7/1973	666	727550-2	268	1708	4506	1716	0.38	68	55	4.25				6.01
RB-0015	1/7/1973	666	727550-2	153	1713	4476	1710	0.38	68	55	4.50				5.97
RB-0015	1/7/1973	666	727550-2	150	1717	4506	1719	0.38	68	55	4.50				6.01
RB-0015	1/7/1973	666	727550-2	182	1727	4500	1707	0.38	68	56	4.50	3.6	2123		6.00
RB-0015	1/7/1973	666	727550-2	256	1735	4470	1713	0.38			6.50			Rejected due to over slump	0.00
RB-0015	1/7/1973	666	727550-2	149	1744	4482	1710	0.38	67	54	4.25				5.98
RB-0015	1/7/1973	666	727550-2	181	1552	4482	1716	0.38	65	52	5.00			Rejected due to over slump	0.00
RB-0015	1/7/1973	666	727550-2	183	1803	4500	1707	0.38	65	52	3.50				6.00
RB-0015	1/7/1973	666	727550-2	268	1807	4506	1713	0.38	65	52	3.25				6.01
RB-0015	1/7/1973	666	727550-2	180	1822	4494	1785	0.40	65	53	3.25				5.99
RB-0015	1/7/1973	666	727550-2	153	1827	4512	1716	0.38	65	54	3.50				6.02
RB-0015	1/7/1973	666	727550-2	150	1842	4494	1719	0.38	64	53	3.75				5.99
RB-0015	1/7/1973	666	727550-2	181	1848	4494	1720	0.38	64	54	3.75				5.99
RB-0015	1/7/1973	666	727550-2	182	1853	4494	1719	0.38	65	54	4.00	3.4	2124	2 yd rejected- pour complete	3.99
RB-0015															
RB-0015	1/19/1973	681	SCM	153	1420	3480	1379	0.40	70	54				Grout	3.00
RB-0015	1/19/1973	681	SCM	147	1425	3504	1380	0.39	70	54				Grout	3.02
RB-0015	1/19/1973	681	DM-5	148	1436	4092	1657	0.40	70	58	3.00				6.00
RB-0015	1/19/1973	681	DM-5	183	1450	4116	1657	0.40	70	61	2.50				6.04
RB-0015	1/25/1973	685	SCM	153	950	3486	1380	0.40	58					Grout	3.01
RB-0015	1/25/1973	685	SCM	150	958	3480	1383	0.40	58				G155	Grout	3.00
RB-0015	1/25/1973	685	DM-5 mod	149	1003	4086	1658	0.41	58	50	3.00				5.99
RB-0015	1/25/1973	685	DM-5 mod	154	1016	4092	1656	0.40						Truck Rejected	0.00
RB-0015	1/25/1973	685	DM-5 mod	182	1023	4086	1658	0.41	58	51	2.75				5.99
RB-0015	1/25/1973	685	DM-5 mod	150	1105	4092	1656	0.40	60	51	2.25				6.00
RB-0015	1/25/1973	685	DM-5 mod	153	1105	4092	1653	0.40	60	50	2.50	3.5	2157	4 yd rejected	2.00
RB-0015	1/25/1973	685	DM-5 mod	149	1120	4086	1653	0.40	60	50	2.50				5.99
RB-0015	1/25/1973	685	DM-5 mod	182	1130	4092	1652	0.40	60	52	2.50				6.00
RB-0015	1/25/1973	685	DM-5 mod	150	1155	4104	1659	0.40	60	52	3.00				6.02
RB-0015	1/25/1973	685	DM-5 mod	152	1230	4110	1656	0.40	64	56	3.00				6.03
RB-0015	1/25/1973	685	DM-5 mod	149	1237	4104	1653	0.40	64	53	3.00				6.02
RB-0015	1/25/1973	685	DM-5 mod	153	1242	4110	1662	0.40	66		2.75				6.03
RB-0015	1/25/1973	685	DM-5 mod	154	1251	4113	1662	0.40	66	54	2.75				6.03
RB-0015	1/25/1973	685	DM-5 mod	182	1303	4086	1656	0.41	68	52	3.00	3.2	2158		5.99
RB-0015	1/25/1973	685	DM-5 mod	150	1320	4092	1653	0.40	68	53	3.00				6.00
RB-0015	1/25/1973	685	DM-5 mod	152	1332	4102	1653	0.40	68	53	3.00				6.01
RB-0015	1/25/1973	685	DM-5 mod	149	1337	4098	1650	0.40	70	53	3.00				6.01
RB-0015	1/25/1973	685	DM-5 mod	153	1356	4104	1656	0.40	70	55	2.75				6.02
RB-0015	1/25/1973	685	DM-5 mod	154	1418	4092	1656	0.40	70	54	3.00			3 yd not used	3.00
RB-0015	1/31/1973	695	SCM	182	1217	6958	2765	0.40	66					Grout	6.00
RB-0015	1/31/1973	695	DM-5 mod	150	1300	4110	1660	0.40	61	58	2.50				6.03
RB-0015	1/31/1973	695	DM-5 mod	154	1310	4086	1654	0.40	67	60	1.25			Rejected- Unworkable	0.00
RB-0015	1/31/1973	695	DM-5 mod	149	1327	4116	1657	0.40	67	60	2.00				6.04
RB-0015	1/31/1973	695	DM-5 mod	147	1333	4074	1660	0.41	67	60	2.00				5.97
RB-0015	1/31/1973	695	DM-5 mod	182	1355	4086	1655	0.41	68	57	1.50				5.99
RB-0015	1/31/1973	695	DM-5 mod	150	1410	4080	1657	0.41	67	57	1.75	3.6	2166		5.98
RB-0015	1/31/1973	695	DM-5 mod	154	1429	4080	1663	0.41	66	56	3.00				5.98
RB-0015	1/31/1973	695	DM-5 mod	149	1440	4080	1660	0.41	66	58	3.00				5.98
RB-0015	1/31/1973	695	DM-5 mod	147	1455	4092	1657	0.40	65	58	2.75				6.00
RB-0015	1/31/1973	695	DM-5 mod	153	1458	4074	1663	0.41	65	58	2.50				5.97
RB-0015	1/31/1973	695	DM-5 mod	182	1503	4116	1663	0.40	65	58	2.50				6.04
RB-0015	1/31/1973	695	DM-5 mod	150	1513	4080	1654	0.41	65	56	2.75				5.98
RB-0015	1/31/1973	695	DM-5 mod	183	1535	4086	1662	0.41	64	57	3.00	3.5	2167		5.99
RB-0015	1/31/1973	695	DM-5 mod	154	1550	4116	1657	0.40	64	56	2.75				6.04
RB-0015	1/31/1973	695	DM-5 mod	147	1609	4110	1654	0.40	63	54	3.00				6.03
RB-0015	1/31/1973	695	DM-5 mod	149	1617	4092	1657	0.40	63	55	3.00				6.00
RB-0015	1/31/1973	695	DM-5 mod	182	1633	4086	1657	0.41	63	54	2.50				5.99
RB-0015	1/31/1973	695	DM-5 mod	153	1725	4092	1660	0.41	67	53	3.00				6.00
RB-0015	2/12/1973	700	SCM	149	1055	6960	2762	0.40	48	57				Grout	6.00
RB-0015	2/12/1973	700	DM-5 mod	148	1104	3474	1381	0.40	48	57			GRB-0015	Grout -????	2.99
RB-0015	2/12/1973	700	DM-5 mod	150	1110	4086	1654	0.40	48	54	3.00				5.99
RB-0015	2/12/1973	700	DM-5 mod	147	1125	4180	1657	0.40	52	54	3.00	3.0	2171		6.13
RB-0015	2/12/1973	700	DM-5 mod	151	1147	4086	1657	0.41	64	56	2.75				5.99
RB-0015	2/12/1973	700	DM-5 mod	154	1225	4092	1657	0.40	65	56	3.00				6.00
RB-0015	2/12/1973	700	DM-5 mod	182	1245	4104	1657	0.40	65	55	3.00				6.02

CR3 - concrete pour data

Bay/Panel	Date	Pour	Mix Design	Truck Number	Time Loaded	Actual Weights per Truck (6 yd) Cement	Total water	w/c Ratio	Temperature Ambient	Concrete	Slump	Air %	Cylinder #	Comments	Total Yards Used
RB-0015	2/12/1973	700	DM-5 mod	152	1250	4110	1657	0.40	66	57	3.00				6.03
RB-0015	2/12/1973	700	DM-5 mod	149	1303	4128	1657	0.40	66	58	3.00				6.05
RB-0015	2/12/1973	700	DM-5 mod	148	1322	4086	1657	0.41	66	60	3.00				5.99
RB-0015	2/12/1973	700	DM-5 mod	150	1332	4086	1662	0.41	66	58	3.25			Rejected- Overslump	0.00
RB-0015	2/12/1973	700	DM-5 mod	151	1345	4086	1654	0.40	65	60	2.50				5.99
RB-0015	2/12/1973	700	DM-5 mod	154	1358	4086	1655	0.41	65	58	3.00	3.0	2172		5.99
RB-0015	2/12/1973	700	DM-5 mod	182	1412	4068	1658	0.41	65	58	3.00				5.96
RB-0015	2/12/1973	700	DM-5 mod	152	1425	4080	1658	0.41	65	58	3.00				5.98
RB-0015	2/12/1973	700	DM-5 mod	148	1440	4080	1655	0.41	64	58	2.75				5.98
RB-0015	2/12/1973	700	DM-5 mod	149	1449	4068	1655	0.41	64	58	2.75				5.96
RB-0015	2/12/1973	700	DM-5 mod	154	1504	4068	1652	0.41	64	58	3.00				5.96
RB-0015	2/12/1973	700	DM-5 mod	151	1520	4092	1652	0.40	63	59	2.50				6.00
RB-0015	2/12/1973	700	DM-5 mod	150	1539	4098	1667	0.41	64	60	2.50				6.01
RB -0012	9/18/1971	263	SCM	154	820	3486	1385	0.40						Grout- Rejected- sent to Unit 2	
RB -0012	9/18/1971	263	SCM	152	1030	3486	1379	0.40	86	70	7.00		401	Grout - 3 yards	3.01
RB -0012	9/18/1971	263	SCM	151	1224	3510	1380	0.39	92	70	3.00			Grout - 3 yards	3.03
RB -0012	9/18/1971	263	DM-5	147	826	5076	2209	0.44						Rejected- sent to Unit 2	
RB -0012	9/18/1971	263	DM-5	150	1028	5080	2208	0.43	87	70	4.00			Rejected- 4" Slump- Overslump	
RB -0012	9/18/1971	263	DM-5	154	1133	5052	2208	0.44	88	70	2.25	4.0			7.96
RB -0012	9/18/1971	263	DM-5	183	1215	5080	2208	0.43	92	70	2.75	4.0	1404		8.00
RB -0012	9/18/1971	263	DM-5	147	1305	5058	2210	0.44	84	68	2.75				7.97
RB -0012	9/18/1971	263	DM-5	151	1345	5080	1208	0.24	84	70	2.50				8.00
RB -0012	9/18/1971	263	DM-5	152	1420	5046	2213	0.44	84	68	3.00				7.95
RB -0012	9/18/1971	263	DM-5	147	1445	5052	2210	0.44	84	68	3.00				7.96
RB -0012	9/18/1971	263	DM-5	183	1524	5076	2204	0.43	88	68	2.75	3.8	1405		7.99
RB -0012	9/18/1971	263	DM-5	151	1554	5070	2203	0.43	88	67	3.00				7.98
RB -0012	9/18/1971	263	DM-5	152	1615	5070	2208	0.44	88	68	3.00			5 yd not used	7.98
RB -0012															
RB -0012	10/29/1971	296	SCM	152	813	2316	921	0.40	78					Grout	2.00
RB -0012	10/29/1971	296	SCM	147	1150	3480	1384	0.40						Grout	3.00
RB -0012	10/29/1971	296	DM-5	151	820	5430	2216	0.41	70	64	3.00				8.55
RB -0012	10/29/1971	296	DM-5	183	920	5070	2210	0.44	70	64	2.25				7.98
RB -0012	10/29/1971	296	DM-5	182	1000	5064	2210	0.44	72	66	2.00	4.2	1485		7.97
RB -0012	10/29/1971	296	DM-5	151	1158	5094	2208	0.43	78	66	3.00				8.02
RB -0012	10/29/1971	296	DM-5	183	1245	5070	2199	0.43	78	66	2.50				7.98
RB -0012	10/29/1971	296	DM-5	147	1320	5082	2218	0.44	78	66	1.50				8.00
RB -0012	10/29/1971	296	DM-5	182	1420	5058	2222	0.44	78	66	1.75				7.97
RB -0012	10/29/1971	296	DM-5	151	1503	5070	2216	0.44	78	66	3.00	4.4	1486	1 1/4 yd used on another pour	7.98
RB -0012	10/29/1971	296	DM-5	183	1543	5094	2212	0.43			5.00			Rejected for overslump	8.02
RB -0012	10/29/1971	296	DM-5	182	1600	5064	2209	0.44	80	64	5.50			Rejected for overslump	7.97
RB -0012	10/29/1971	296	DM-5	149	1640	5064	2213	0.44	80	66	2.25			2 yd rejected for overtime	7.97
RB -0012	11/23/1971	326	SCM	153	1200	4638	1835			68			G.32	Grout	4.00
RB -0012	11/23/1971	326	DM-5	182	1215	5076	2211	0.44	72	60	3.00	5.0			7.99
RB -0012	11/23/1971	326	DM-5	152	1250	5046	2212	0.44	72	62	1.50				7.95
RB -0012	11/23/1971	326	DM-5	154	1315	5076	2219	0.44	72	62	3.00	4.0	1527		7.99
RB -0012	11/23/1971	326	DM-5	149	1345	5088	2201	0.43	72	62	1.75				8.01
RB -0012	11/23/1971	326	DM-5	153	1407	5070	2205	0.43	72	60	2.50				7.98
RB -0012	11/23/1971	326	DM-5	182	1426	5070	2206	0.44	72	64	1.75				7.98
RB -0012	11/23/1971	326	DM-5	150	1448	5052	2210	0.44	72	59	2.25				7.96
RB -0012	11/23/1971	326	DM-5	152	1507	5064	2207	0.44	72	60	2.00	3.6	1528		7.97
RB -0012	11/23/1971	326	DM-5	154	1530	5046	2207	0.44	70	62	1.25			6 yd returned- pour complete	7.95
RB -0012	1/26/1972	362	SCM	182	1300	3486	1381	0.40	80					Grout	
RB -0012	1/26/1972	362	DM-5	181	1310	5070	2211	0.44	80	64	2.75	4.4			7.98
RB -0012	1/26/1972	362	DM-5	148	1333	5052	2200	0.44	80	66	1.00	3.6	1577	2 yd sent to another pour	7.96
RB -0012	1/26/1972	362	DM-5	149	1422	5058	2205	0.44	82	66	2.75				7.97
RB -0012	1/26/1972	362	DM-5	182	1455	5052	2203	0.44	82	65	3.00				7.96
RB -0012	1/26/1972	362	DM-5	181	1525	5070	2207	0.44			5.50			Rejected for overslump	7.98
RB -0012	1/26/1972	362	DM-5	148	1545	5064	2203	0.44	78	68	1.25			2 yds returned- pour complete	7.97
RB -0012	1/26/1972	362	DM-5	149	1620	5046	2220	0.44						Pour sent to outlow canal- pour compl	7.95
RB -0012	8/3/1972	535	SCM	149	648	3474	1374	0.40	70	65				Grout	2.99
RB -0012	8/3/1972	535	SCM	148	625	3473	1383	0.40	70	65			G-102	Grout	2.99
RB -0012	8/3/1972	535	DM-5 ??	180	640	4237	1718	0.41	70	59	3.25	3.2			6.01
RB -0012	8/3/1972	535	DM-5 ??	183	655	4218	1712	0.41	70	60	3.75				5.98
RB -0012	8/3/1972	535	DM-5 ??	152	721	4230	1718	0.41	73	61	4.00			3 yd rejected- ?? Reason	3.00
RB -0012	8/3/1972	535	DM-5 ??	154	735	4224	1715	0.41	74	61	2.50	3.2	1951	4 yd rejected- ?? Reason	1.99
RB -0012	8/3/1972	535	DM-5 ??	148	803	4219	1721	0.41	78	65	3.50			3 yd rejected for overtime	2.98
RB -0012	8/3/1972	535	DM-5 ??	180	817	4218	1718	0.41	78	60	2.50				5.98
RB -0012	8/3/1972	535	DM-5 ??	183	918	4224	1716	0.41	78	66	2.50			2 yd rejected for overtime	3.99
RB -0012	8/3/1972	535	DM-5 ??	148	958	4212	1715	0.41	79	65	3.75			2 yd rejected for overtime	3.97
RB -0012	8/3/1972	535	DM-5 ??	153	1045	4212	1718	0.41	79	64	3.75			2 yd rejected for overtime	3.97
RB -0012	8/3/1972	535	DM-5 ??	152	1133	4218	1765	0.42	80	64	4.00				5.98
RB -0012	8/3/1972	535	DM-5 ??	180	1245	4212	1720	0.41	82	63	2.75				5.97
RB -0012	12/11/1972	642	DM-5 ??	182	1111	4494	1714	0.38	80	56	2.75	3.0			
RB -0012	12/11/1972	642	DM-5 ??	154	1123	4494	1716	0.38	80	58	2.50			Rejected for under slump	0.00
RB -0012	12/11/1972	642	DM-5 ??	183	1155	4494	1715	0.38	80	57	3.25				5.99
RB -0012	12/11/1972	642	DM-5 ??	150	1204	4494	1715	0.38	80	56	3.00			4 yd Rejected as unworkable	1.99
RB -0012	12/11/1972	642	DM-5 ??	147	1220	4518	1714	0.38	80	56	3.75	3.2	2077	4 yd rejected for overtime	2.02

CR3 - concrete pour data

Bay/Panel	Date	Pour	Mix Design	Truck Number	Time Loaded	Actual Weights per Truck (6 yd) Cement	Total water	w/c Ratio	Temperature Ambient	Concrete	Slump	Air %	Cylinder #	Comments	Total Yards Used
RB -0012	12/11/1972	642	DM-5 ??	182	1230	4506	1717	0.38	80	55	4.00			5 yd rejected for overtime	1.01
RB -0012	12/11/1972	642	DM-5 ??	149	1237	4506	1714	0.38	80	56	3.75			1 yd rejected for overtime	5.01
RB -0012	12/11/1972	642	DM-5 ??	154	1244	4500	1720	0.38	80	55	4.50			3 yd rejected for overtime	3.00
RB -0012	12/11/1972	642	DM-5 ??	152	1323	4512	1714	0.38	79	55	4.25			3 yd rejected for overtime	3.02
RB -0012	12/11/1972	642	DM-5 ??	183	1340	4512	1714	0.38	79	59	4.50	3.4	2078	4 yd rejected- ?? Reason	2.02
RB -0012	12/11/1972	642	DM-5 ??	150	1414	4506	1714	0.38	79	60	4.00			3 yd sent elsewhere	3.01
RB -0012	12/11/1972	642	DM-5 ??	147	1423	4500	1714	0.38	79	56	4.25			6 yd sent elsewhere	0.00
RB -0012	12/11/1972	642	DM-5 ??	182	1515	4506	1717	0.38	79	56	4.50			4 yd rejected- ?? Reason	2.01
RB -0012	12/11/1972	642	DM-5 ??	149	1527	4500	1711	0.38	79	59	3.75			3 yd rejected for overtime	3.00
RB -0012	12/11/1972	642	DM-5 ??	154	1602	4512	1717	0.38	78	58	4.00			4 yd rejected for overtime	2.02
RB -0012	12/11/1972	642	DM-5 ??	152	1644	4500	1719	0.38	78	60	4.25				6.00
RB -0012	12/11/1972	642	DM-5 ??	183	1711	4518	1716	0.38	74	56	4.25			3 yd Reject- pour complete	3.02
RB -0012	12/11/1972	642	DM-5 ??	150	1535	4500	1722	0.38	74	56	4.25			not used- pour complete	0.00
RB -0012	12/11/1972	642	DM-5 ??	149	1810	4506	1716	0.38	74					not used- pour complete	0.00
RB -0012	1/3/1973	658	SCM	149	855	2406	925	0.38	69					Grout	2.07
RB -0012	1/3/1973	658	SCM	149	1105	1160	460	0.40	74					Grout	1.00
RB -0012	1/3/1973	658	DM-5 ??	150	904	4530	1719	0.38	69	52	2.50	3.0		2 yd Rejected as unworkable	4.04
RB -0012	1/3/1973	658	DM-5 ??	180	915	4512	1854	0.41	70	52	3.50			3 yd Rejected as unworkable	3.02
RB -0012	1/3/1973	658	DM-5 ??	154	943	4530	1719	0.38	70	54	3.50	3.2	2107	2 yd Rejected as unworkable	4.04
RB -0012	1/3/1973	658	DM-5 ??	183	1005	4512	1721	0.38	70	56	4.25			2 yd rejected for overtime	4.02
RB -0012	1/3/1973	658	DM-5 ??	182	1036	4494	1721	0.38	70	56	4.00			3 yd rejected for overtime	2.99
RB -0012	1/3/1973	658	DM-5 ??	147	1054	4530	1713	0.38	74	54	4.25			1 yd rejected for overtime	5.04
RB -0012	1/3/1973	658	DM-5 ??	150	1110	4530	1713	0.38	78	56	3.75			3 yd rejected for overtime	3.04
RB -0012	1/3/1973	658	DM-5 ??	180	1143	4500	1716	0.38	80	60	4.00			2 yd rejected for overtime	4.00
RB -0012	1/3/1973	658	DM-5 ??	149	1154	4494	1714	0.38	80	58	4.25				5.99
RB -0012	1/3/1973	658	DM-5 ??	154	1215	4518	1714	0.38	80	58	4.25			3 yd rejected for overtime	3.02
RB -0012	1/3/1973	658	DM-5 ??	183	1300	4506	1723	0.38	81	57	4.50				6.01
RB -0012	1/3/1973	658	DM-5 ??	182	1335	4476	1725	0.39	81	58	4.25				5.97
RB -0012	1/3/1973	658	DM-5 ??	150	1350	4506	1716	0.38	81	54	4.00			2 yd rejected for overtime	4.01
RB -0012	1/3/1973	658	DM-5 ??	149	1359	4482	1716	0.38	80	56	4.50	3.5	2108		5.98
RB -0012	1/3/1973	658	DM-5 ??	180	1418	4470	1716	0.38	80	56	4.00			3 yd sent elsewhere	2.96
RB -0012	1/3/1973	658	DM-5 ??	154	1440	4488	1722	0.38	80	56	3.25			4 yd sent elsewhere	1.98
RB -0012	1/3/1973	658	DM-5 ??	183	1512	4482	1722	0.38						all sent elsewhere	0.00
RB -0012	1/16/1973	674	SCM	147	1302	3480	1382	0.40	68					Grout	3.00
RB -0012	1/16/1973	674	SCM	182	1312	3480	1382	0.40	68					Grout	3.00
RB -0012	1/16/1973	674	DM-5 (mod ?)	154	1328	4080	1654	0.41	68	55	2.00			2 yd Rejected as unworkable	3.98
RB -0012	1/16/1973	674	DM-5 (mod ?)	181	1344	4062	1657	0.41	68	55	3.00				5.96
RB -0012	1/16/1973	674	DM-5 (mod ?)	183	1400	4086	1654	0.40	69	56	3.00			1 yd lost to ground	5.99
RB -0012	1/16/1973	674	DM-5 (mod ?)	150	1415	4056	1654	0.41	68	56	2.75				5.95
RB -0012	1/16/1973	674	DM-5 (mod ?)	147	1440	4056	1658	0.41	68	56	3.00				5.95
RB -0012	1/16/1973	674	DM-5 (mod ?)	154	1455	4088	1658	0.41	67	56	2.50				5.99
RB -0012	1/16/1973	674	DM-5 (mod ?)	181	1522	4080	1664	0.41	67	56	2.50				5.98
RB -0012	1/16/1973	674	DM-5 (mod ?)	183	1535	4062	1658	0.41	68	57	2.25	3.3	2139	1 yd lost to ground	4.96
RB -0012	1/16/1973	674	DM-5 (mod ?)	182	1552	4074	1658	0.41	65	57	3.00				5.97
RB -0012	1/16/1973	674	DM-5 (mod ?)	154	1622	4092	1659	0.41	66	55	3.00				6.00
RB -0012	1/16/1973	674	DM-5 (mod ?)	150	1636	4092	1656	0.40	63	54	3.00				6.00
RB -0012	1/16/1973	674	DM-5 (mod ?)	147	1650	4092	1656	0.40	64	53	3.00				6.00
RB -0012	1/16/1973	674	DM-5 (mod ?)	181	1659	4116	1656	0.40	64	56	2.75				6.04
RB -0012	1/16/1973	674	DM-5 (mod ?)	183	1710	4122	1656	0.40	64	53	2.50				6.04
RB -0012	1/16/1973	674	DM-5 (mod ?)	154	1751	4094	1656	0.40	62	53	2.75				6.00
RB -0012	1/16/1973	674	DM-5 (mod ?)	150	1800	4116	1656	0.40	62	53	3.00			2yd rejected- pour over	4.04
RB -0012	1/16/1973	674	DM-5 (mod ?)	147	1809	4116	1656	0.40	62					rejected- pour complete	0.00
RB -0012	1/23/1973	683	SCM	182	834	3474	1385	0.40	53	50			G-152	Grout	2.99
RB -0012	1/23/1973	683	SCM	149	840	3486	1382	0.40	53	50				Grout	3.01
RB -0012	1/23/1973	683	DM-5 (mod ?)	150	847	4086	1659	0.41	50	51	3.00				5.99
RB -0012	1/23/1973	683	DM-5 (mod ?)	153	901	4080	1658	0.41	56	51	2.75				5.98
RB -0012	1/23/1973	683	DM-5 (mod ?)	183	925	4086	1666	0.41	56	52	2.50				5.99
RB -0012	1/23/1973	683	DM-5 (mod ?)	147	941	4086	1660	0.41	56	53	2.75	3.4	2154		5.99
RB -0012	1/23/1973	683	DM-5 (mod ?)	182	950	4080	1663	0.41	56	52	2.75				5.98
RB -0012	1/23/1973	683	DM-5 (mod ?)	149	1000	4080	1665	0.41	56	53	2.75				5.98
RB -0012	1/23/1973	683	DM-5 (mod ?)	150	1012	4080	1659	0.41	56	52	4.50			All Rejected- overslump	0.00
RB -0012	1/23/1973	683	DM-5 (mod ?)	147	1035	4080	1656	0.41	57	52	6.00			All Rejected- overslump	0.00
RB -0012	1/23/1973	683	DM-5 (mod ?)	183	1050	4086	1662	0.41	58	51	3.00				5.99
RB -0012	1/23/1973	683	DM-5 (mod ?)	182	1105	4074	1659	0.41	58	52	2.75				5.97
RB -0012	1/23/1973	683	DM-5 (mod ?)	181	1117	4092	1665	0.41	60	53	2.75				6.00
RB -0012	1/23/1973	683	DM-5 (mod ?)	149	1130	4068	1656	0.41	61	51	3.00	3.4	2155		5.96
RB -0012	1/23/1973	683	DM-5 (mod ?)	150	1143	4068	1653	0.41	63	52	3.00				5.96
RB -0012	1/23/1973	683	DM-5 (mod ?)	147	1204	4104	1656	0.40	68	52	3.00				6.02
RB -0012	1/23/1973	683	DM-5 (mod ?)	183	1225	4104	1653	0.40	64	53	2.50				6.02
RB -0012	1/23/1973	683	DM-5 (mod ?)	182	1228	4098	1656	0.40	64	52	3.00				6.01
RB -0012	1/23/1973	683	DM-5 (mod ?)	181	1244	4092	1653	0.40	66	54	2.75				6.00
RB -0012	1/23/1973	683	DM-5 (mod ?)	149	1300	4080	1656	0.41	66	55	2.75				5.98
RB -0012	1/23/1973	683	DM-5 (mod ?)	183	1410	4074	1656	0.41						not used- sent elsewhere	0.00
RB -0012	1/27/1973	690	SCM	183	657	3474	1381	0.40	62					Grout	2.99
RB -0012	1/27/1973	690	SCM	154	705	3480	1384	0.40	62					Grout	3.00
RB -0012	1/27/1973	690	DM-5- Mod	153	712	4098	1659	0.40	62	53	3.00	4.0		3 yd Rejected for stiff	3.01
RB -0012	1/27/1973	690	DM-5- Mod	150	725	4086	1659	0.41	62	52	3.00				5.99
RB -0012	1/27/1973	690	DM-5- Mod	182	750	4098	1656	0.40	63	53	3.00				6.01

CR3 - concrete pour data

Bay/Panel	Date	Pour	Mix Design	Truck Number	Time Loaded	Actual Weights per Truck (6 yd) Cement	Total water	w/c Ratio	Temperature Ambient	Concrete	Slump	Air %	Cylinder #	Comments	Total Yards Used
RB -0012	1/27/1973	690	DM-5- Mod	183	820	4098	1653	0.40	63	52	3.00				6.01
RB -0012	1/27/1973	690	DM-5- Mod	154	830	4092	1656	0.40	64	52	3.00				6.00
RB -0012	1/27/1973	690	DM-5- Mod	147	842	4092	1656	0.40	64	53	3.00				6.00
RB -0012	1/27/1973	690	DM-5- Mod	150	848	4092	1656	0.40	64	53	3.00	4.2	2065		6.00
RB -0012	1/27/1973	690	DM-5- Mod	182	900	4110	1655	0.40	64	53	4.50			Rejected- overslump	0.00
RB -0012	1/27/1973	690	DM-5- Mod	183	915	4116	1653	0.40	64	53	3.00				6.04
RB -0012	1/27/1973	690	DM-5- Mod	154	927	4092	1650	0.40	64	53	2.75				6.00
RB -0012	1/27/1973	690	DM-5- Mod	150	948	4098	1656	0.40	65	54	3.00				6.01
RB -0012	1/27/1973	690	DM-5- Mod	147	952	4098	1659	0.40	65	54	3.00				6.01
RB -0012	1/27/1973	690	DM-5- Mod	182	958	4110	1659	0.40	66	55	2.50				6.03
RB -0012	1/27/1973	690	DM-5- Mod	149	1002	4092	1656	0.40	66	55	2.25				6.00
RB -0012	1/27/1973	690	DM-5- Mod	183	1042	4092	1653	0.40	66	53	3.00				6.00
RB -0012	1/27/1973	690	DM-5- Mod	150	1053	4104	1653	0.40	67	54	2.50	3.7	2063		6.02
RB -0012	1/27/1973	690	DM-5- Mod	142	1108	4122	1656	0.40	67	55	3.00				6.04
RB -0012	1/27/1973	690	DM-5- Mod	182	1115	4086	1659	0.41	67	55	3.00			Pour Complete	5.99
RB -0012	1/27/1973	690	DM-5- Mod	183	1200	4086	1653	0.40						Not used on this pour- pour complete	0.00
RB -0012	26697	699	SCM	153	733	3480	1382	0.40	70	59				Grout	3.00
RB -0012	26697	699	SCM	183	739	3474	1385	0.40	70	59				Grout	2.99
RB -0012	2/2/1973	699	DM-5- Mod	154	748	4092	1657	0.40	70	82	1.25			Rejected ??	0.00
RB -0012	2/2/1973	699	DM-5- Mod	182	802	4092	1657	0.40	70	61	1.50			Rejected ??	0.00
RB -0012	2/2/1973	699	DM-5- Mod	150	816	4086	1657	0.41	70	61	1.50				5.99
RB -0012	2/2/1973	699	DM-5- Mod	149	830	4092	1655	0.40	70					Rejected- Underslump	0.00
RB -0012	2/2/1973	699	DM-5- Mod	153	850	4086	1652	0.40	70						5.99
RB -0012	2/2/1973	699	DM-5- Mod	183	908	4074	1659	0.41	73	56	3.00				5.97
RB -0012	2/2/1973	699	DM-5- Mod	154	930	4068	1662	0.41	70	60	1.75	3.2	2170		5.96
RB -0012	2/2/1973	699	DM-5- Mod	182	935	4098	1656	0.40	70	58				6 yd not used	0.00
RB -0012	2/2/1973	699	DM-5- Mod	150	950	4098	1656	0.40						Pour not used	0.00
RB -0012	26708	702	SCM	150	842	3480	1382	0.40	50	60				Grout	3.00
RB -0012	26708	702	SCM	148	849	3480	1391	0.40	50	61				Grout	3.00
RB -0012	2/13/1973	702	DM-5- Mod	151	855	4086	1661	0.41	50	57	4.50			Rejected- Overslump	0.00
RB -0012	2/13/1973	702	DM-5- Mod	153	910	4086	1655	0.41	50	59	2.75				5.99
RB -0012	2/13/1973	702	DM-5- Mod	149	921	4098	1658	0.40	50	58	2.75				6.01
RB -0012	2/13/1973	702	DM-5- Mod	154	944	4116	1653	0.40	62	57	3.00				6.04
RB -0012	2/13/1973	702	DM-5- Mod	150	1012	4098	1653	0.40	67	57	2.75	3.8	2174		6.01
RB -0012	2/13/1973	702	DM-5- Mod	148	1030	4092	1653	0.40	68	56	3.00				6.00
RB -0012	2/13/1973	702	DM-5- Mod	153	1035	4092	1653	0.40	69	56	3.00				6.00
RB -0012	2/13/1973	702	DM-5- Mod	151	1044	4062	1651	0.41	69	55	3.00				5.96
RB -0012	2/13/1973	702	DM-5- Mod	149	1113	4086	1720	0.42	69	57	2.75				5.99
RB -0012	2/13/1973	702	DM-5- Mod	150	1133	4104	1654	0.40	69	55	3.00				6.02
RB -0012	2/13/1973	702	DM-5- Mod	153	1140	4092	1657	0.40	69	56	3.00	3.2	2175		6.00
RB -0012	2/13/1973	702	DM-5- Mod	151	1153	4092	1654	0.40	69	59	2.25				6.00
RB -0012	2/13/1973	702	DM-5- Mod	149	1215	4068	1654	0.41	69	60	3.00			5 yd Rejected- Overtime	0.96
RB -0012	2/13/1973	702	DM-5- Mod	150	1232	4074	1655	0.41	70	58	2.50			5 yd Rejected- Overtime	0.97
RB -0012	26711	713	SCM	153	1050	3474	1377	0.40						Grout	2.99
RB -0012	26711	713	SCM	154	1055	3474	1386	0.40						Grout	2.99
RB -0012	2/16/1973	713	DM-5- Mod	150	1058	4074	1655	0.41	50	59	2.75				5.97
RB -0012	2/16/1973	713	DM-5- Mod	152	1112	4068	1688	0.41	50	58	3.00				5.96
RB -0012	2/16/1973	713	DM-5- Mod	182	1205	4074	1653	0.41	52	54	2.75				5.97
RB -0012	2/16/1973	713	DM-5- Mod	148	1220	4086	1653	0.40	52	54	2.50				5.99
RB -0012	2/16/1973	713	DM-5- Mod	181	1239	4086	1656	0.41	52	53	3.00				5.99
RB -0012	2/16/1973	713	DM-5- Mod	149									2183	Missing Truck Ticket S/N02450	0.00
RB -0012	2/16/1973	713	DM-5- Mod	148	1325	4086	1653	0.40	50	56	2.75				5.99
RB -0012	2/16/1973	713	DM-5- Mod	152	1336	4062	1659	0.41	48	58	2.50				5.96
RB -0012	2/16/1973	713	DM-5- Mod	150	1341	4104	1659	0.40	49	58	2.50				6.02
RB -0012	2/16/1973	713	DM-5- Mod	181	1357	4096	1656	0.40	49	57	2.75				6.01
RB -0012	2/16/1973	713	DM-5- Mod	147	1425	4092	1656	0.40						Rejected- truck broke	0.00
RB -0012	2/16/1973	713	DM-5- Mod	149	1432	4092	1653	0.40	49	58	2.75	3.5	2184		6.00
RB -0012	2/16/1973	713	DM-5- Mod	148	1455	4086	1653	0.40	48						5.99
RB -0012	2/16/1973	713	DM-5- Mod	154	1505	4080	1650	0.40	48	56	3.00				5.98
RB -0012	2/16/1973	713	DM-5- Mod	152	1523	4080	1659	0.41	46	56	3.00				5.98
RB -0012	2/16/1973	713	DM-5- Mod	150	1528	4062	1659	0.41	45	56	3.00				5.96
RB -0012	2/16/1973	713	DM-5- Mod	149	1553	4074	1662	0.41	45	55	3.00				5.97
RB -0012	2/16/1973	713	DM-5- Mod	154	1604	4086	1653	0.40	45	54	2.50				5.99
RB -0012	26717	719	SCM	149	840	3480	1385	0.40	48					Grout	3.00
RB -0012	26717	719	SCM	153	847	3468	1385	0.40	48					Grout	2.99
RB -0012	2/22/1973	719	DM-5- Mod	147	851	4086	1658	0.41	48	56	3.00				5.99
RB -0012	2/22/1973	719	DM-5- Mod	148	904	4092	1649	0.40	48		3.00				6.00
RB -0012	2/22/1973	719	DM-5- Mod	154	915	4080	1655	0.41	52	56	2.50				5.98
RB -0012	2/22/1973	719	DM-5- Mod	150	931	4068	1653	0.41	54	56	2.75	3.5	2191		5.96
RB -0012	2/22/1973	719	DM-5- Mod	149	948	4098	1653	0.40	58	54	2.75				6.01
RB -0012	2/22/1973	719	DM-5- Mod	153	1000	4110	1653	0.40	61	56	2.00				6.03
RB -0012	2/22/1973	719	DM-5- Mod	147	1008	4062	1653	0.41	61	55	3.00				5.96
RB -0012	2/22/1973	719	DM-5- Mod	148	1015	4092	1656	0.40	61	58	2.50				6.00
RB -0012	2/22/1973	719	DM-5- Mod	150	1035	4092	1659	0.41	61	58	2.50				6.00
RB -0012	2/22/1973	719	DM-5- Mod	154	1041	4092	1659	0.41	61	58	3.00	3.5	2192		6.00
RB -0012	2/22/1973	719	DM-5- Mod	153	1114	4098	1656	0.40	61	59	3.00				6.01
RB -0012	2/22/1973	719	DM-5- Mod	147	1132	4098	1656	0.40	62	59	2.75				6.01
RB -0012	2/22/1973	719	DM-5- Mod	148	1145	4098	1660	0.41	62	57	3.00				6.01

CR3 - concrete pour data

Bay/Panel	Date	Pour	Mix Design	Truck Number	Time Loaded	Actual Weights per Truck (6 yd) Cement	Total water	w/c Ratio	Temperature Ambient	Concrete	Slump	Air %	Cylinder #	Comments	Total Yards Used
RB -0012	2/22/1973	719	DM-5- Mod	154	1201	4092	1655	0.40	64	56	2.75				6.00
RB -0012	2/22/1973	719	DM-5- Mod	149	1213	4086	1655	0.41	66	53	2.75				5.99
RB -0012	2/22/1973	719	DM-5- Mod	150	1220	4080	1652	0.40	66	54	3.00				5.98
RB -0012	2/22/1973	719	DM-5- Mod	153	1255	4086	1652	0.40	66	54	3.00			3 yd not used	2.99
RB -0012	3/1/1973	729	SCM	147	1203	6966	2763	0.40							6.01
RB -0012	3/1/1973	729	DM-5- Mod	149	1210	4080	1657	0.41	76	55	4.00			Rejected- overslump	0.00
RB -0012	3/1/1973	729	DM-5- Mod	150	1225	4092	1726	0.42	76	55	3.00				6.00
RB -0012	3/1/1973	729	DM-5- Mod	148	1236	4080	1657	0.41	76	55	3.00				5.98
RB -0012	3/1/1973	729	DM-5- Mod	147	1300	4086	1654	0.40	77	55	3.00				5.99
RB -0012	3/1/1973	729	DM-5- Mod	149	1307	4092	1657	0.40	75	54	3.00				6.00
RB -0012	3/1/1973	729	DM-5- Mod	183	1316	4092	1657	0.40	75	58	2.50				6.00
RB -0012	3/1/1973	729	DM-5- Mod	150	1329	4092	1654	0.40	75	59	3.00				6.00
RB -0012	3/1/1973	729	DM-5- Mod	148	1335	4086	1654	0.40	75	57	3.50			Rejected- overslump	0.00
RB -0012	3/1/1973	729	DM-5- Mod	147	1343	4092	1648	0.40	75	56	4.00			Rejected- overslump	0.00
RB -0012	3/1/1973	729	DM-5- Mod	149	1358	4098	1654	0.40	75	54	3.00	3.2	2210		6.01
RB -0012	3/1/1973	729	DM-5- Mod	183	1412	4092	1658	0.41	74	56	2.25				6.00
RB -0012	3/1/1973	729	DM-5- Mod	150	1427	4086	1658	0.41	74	56	2.25				5.99
RB -0012	3/1/1973	729	DM-5- Mod	148	1433	4092	1652	0.40	74	58	1.75			Rejected- unworkable	0.00
RB -0012	3/1/1973	729	DM-5- Mod	149	1441	4086	1655	0.41	74	56	2.50				5.99
RB -0012	3/1/1973	729	DM-5- Mod	147	1505	4092	1655	0.40	74	55	2.50				6.00
RB -0012	3/1/1973	729	DM-5- Mod	183	1506	4092	1658	0.41	73	54	3.50			Rejected- overslump	0.00
RB -0012	3/1/1973	729	DM-5- Mod	150	1520	4086	1655	0.41	73	55	3.00				5.99
RB -0012	3/1/1973	729	DM-5- Mod	149	1527	4092	1655	0.40	73	55	3.00			2 yd sent elsewhere	4.00
RB -0012	3/1/1973	729	DM-5- Mod	147	1546	4086	1655	0.41	73	56	1.75				5.99
RB -0012	3/1/1973	729	DM-5- Mod	148	1559	4092	1658	0.41	72	57	2.75				6.00
RB -0012	3/1/1973	729	DM-5- Mod	150	1606	4080	1655	0.41	73	55	3.00	3.2	2211		5.98
RB -0012	3/1/1973	729	DM-5- Mod	183	1637	4080	1658	0.41	71	55	3.00			2 yd not used- pour over	3.98
RB -0012	3/1/1973	729	DM-5- Mod	147	1655	4086	1658	0.41						Not used- pour over	0.00
RB -0012	26751	745	SCM	153	819	6978	2760	0.40						Grout	6.02
RB -0012	3/28/1973	745	727550-2-Mod	148	831	4500	1716	0.38	70	52	4.00	3.5			6.00
RB -0012	3/28/1973	745	727550-2-Mod	149	843	4500	1719	0.38	70	52	4.00				6.00
RB -0012	3/28/1973	745	727550-2-Mod	183	902	4488	1716	0.38	70	52	3.50				5.98
RB -0012	3/28/1973	745	727550-2-Mod	154	915	4482	1716	0.38	70	52	4.00				5.98
RB -0012	3/28/1973	745	727550-2-Mod	153	935	4482	1719	0.38	71	53	4.00	3.2	2228		5.98
RB -0012	3/28/1973	745	727550-2-Mod	148	952	4506	1721	0.38	72	55	3.50				6.01
RB -0012	3/28/1973	745	727550-2-Mod	181	958	4494	1718	0.38	72	53	4.25				5.99
RB -0012	3/28/1973	745	727550-2-Mod	149	1008	4566	1718	0.38	72	53	4.00				6.09
RB -0012	3/28/1973	745	727550-2-Mod	183	1020	4500	1712	0.38	72	55	3.75				6.00
RB -0012	3/28/1973	745	727550-2-Mod	154	1100	4512	1716	0.38	72	56	4.00				6.02
RB -0012	3/28/1973	745	727550-2-Mod	153	1115	4500	1719	0.38	72	55	4.00	3.6	2229		6.00
RB -0012	3/28/1973	745	727550-2-Mod	181	1135	4488	1719	0.38	72	55	4.00				5.98
RB -0012	3/28/1973	745	727550-2-Mod	151	1150	4494	1722	0.38	72	57					5.99
RB -0012	3/28/1973	745	727550-2-Mod	148	1156	4482	1719	0.38	72	58	4.25				5.98
RB -0012	3/28/1973	745	727550-2-Mod	183	1201	4470	1719	0.38	72	58	4.00				5.96
RB -0012	3/28/1973	745	727550-2-Mod	149	1214	4488	1719	0.38	70	59	3.25				5.98
RB -0012	3/28/1973	745	727550-2-Mod	154	1254	4488	1722	0.38	72	56	3.25	3.2	2230		5.98
RB -0012	3/28/1973	745	727550-2-Mod	153	1300	4470	1716	0.38	72	54	4.50				5.96
RB -0012	3/28/1973	745	727550-2-Mod	151	1340	4500	1722	0.38	72	57	4.00			3 yd not used- pour complete	3.00
RB -0012	26763	749	SCM	149	1015	6960	2761	0.40						Grout	6.00
RB -0012	4/9/1973	749	727550-2-Mod	154	1026	4494	1716	0.38	70	55	4.50				5.99
RB -0012	4/9/1973	749	727550-2-Mod	151	1041	4506	1716	0.38	76	55	3.25				6.01
RB -0012	4/9/1973	749	727550-2-Mod	181	1058	4482	1714	0.38	76	55	3.75				5.98
RB -0012	4/9/1973	749	727550-2-Mod	153	1124	4482	1772	0.40	76	56	4.00				5.98
RB -0012	4/9/1973	749	727550-2-Mod	183	1138	4506	1719	0.38	77	57	3.50	3.4	2235		6.01
RB -0012	4/9/1973	749	727550-2-Mod	149	1145	4500	1713	0.38	77	55	4.00				6.00
RB -0012	4/9/1973	749	727550-2-Mod	154	1152	4476	1716	0.38	77		8.00			Rejected- Overslump	0.00
RB -0012	4/9/1973	749	727550-2-Mod	151	1157	4518	1713	0.38	77	56	4.25				6.02
RB -0012	4/9/1973	749	727550-2-Mod	181	1216	4536	1714	0.38	77	57	3.25				6.05
RB -0012	4/9/1973	749	727550-2-Mod	153	1232	4506	1714	0.38	77	58	4.00				6.01
RB -0012	4/9/1973	749	727550-2-Mod	183	1250	4482	1719	0.38	77	58	3.75				5.98
RB -0012	4/9/1973	749	727550-2-Mod	154	1300	4512	1711	0.38	78	55	3.00				6.02
RB -0012	4/9/1973	749	727550-2-Mod	151	1312	4408	1714	0.39	78	55	4.00				5.88
RB -0012	4/9/1973	749	727550-2-Mod	149	1319	4500	1764	0.39	78	58	3.50	3.4	2236		6.00
RB -0012	4/9/1973	749	727550-2-Mod	181	1323	4484	1719	0.38	78	56	4.25				5.98
RB -0012	4/9/1973	749	727550-2-Mod	153	1330	4488	1716	0.38	78	55	3.75				5.98
RB -0012	4/9/1973	749	727550-2-Mod	183	1336	4500	1721	0.38	78	56	3.50				6.00
RB -0012	4/9/1973	749	727550-2-Mod	154	1419	4488	1717	0.38	77	52	4.50			2 yd rejected- pour complete	3.98
RB -0012	26781	762	SCM	153	1237	6460	2754	0.43	76					Grout	5.57
RB -0012	4/27/1973	762	727550-2-Mod	154	1250	4488	1714	0.38	75	60	0.75			Rejected- Underslump	
RB -0012	4/27/1973	762	727550-2-Mod	150	1305	4482	1720	0.38	75	60	2.75			3 yd Sent elsewhere	2.98
RB -0012	4/27/1973	762	727550-2-Mod	151	1320	4488	1723	0.38	75	59	3.00				5.98
RB -0012	4/27/1973	762	727550-2-Mod	148	1338	4512	1716	0.38	75	59	3.75				6.02
RB -0012	4/27/1973	762	727550-2-Mod	147	1356	4506	1721	0.38	75	56	4.00				6.01
RB -0012	4/27/1973	762	727550-2-Mod	183	1414	4536	1723	0.38	75	58	3.25				6.05
RB -0012	4/27/1973	762	727550-2-Mod	153	1420	4512	1723	0.38	75	56	4.50				6.02
RB -0012	4/27/1973	762	727550-2-Mod	154	1441	4536	1717	0.38	75	54	3.25				6.05
RB -0012	4/27/1973	762	727550-2-Mod	148	1455	4488	1723	0.38	72	56	4.50	3.0	2251		5.98
RB -0012	4/27/1973	762	727550-2-Mod	147	1507	4500	1723	0.38	72	56	3.00				6.00

CR3 - concrete pour data

Bay/Panel	Date	Pour	Mix Design	Truck Number	Time Loaded	Actual Weights per Truck (6 yd) Cement	Total water	w/c Ratio	Temperature Ambient	Concrete	Slump	Air %	Cylinder #	Comments	Total Yards Used
RB -0012	4/27/1973	762	727550-2-Mod	150	1515	4512	1732	0.38	72	55	3.75				6.02
RB -0012	4/27/1973	762	727550-2-Mod	183	1525	4494	1714	0.38	72	56	2.75				5.99
RB -0012	4/27/1973	762	727550-2-Mod	154	1535	4500	1717	0.38	72	54	4.25				6.00
RB -0012	4/27/1973	762	727550-2-Mod	147	1550	4476	1717	0.38	71	54	4.25				5.97
RB -0012	4/27/1973	762	727550-2-Mod	153	1605	4482	1717	0.38	71	54	3.50				5.98
RB -0012	4/27/1973	762	727550-2-Mod	150	1615	4512	1717	0.38	71	52	3.75	3.4	2252		6.02
RB -0012	4/27/1973	762	727550-2-Mod	183	1625	4500	1717	0.38	70	52	3.25				6.00
RB -0012	4/27/1973	762	727550-2-Mod	154	1631	4488	1717	0.38	70	52	3.75				5.98
RB -0012	4/27/1973	762	727550-2-Mod	147	1645	4488	1723	0.38	70	51	3.25	3.4	2253		5.98
RB -0012	4/27/1973	762	727550-2-Mod	153	1655	4524	1717	0.38	70	51	3.75			Pour over- not used	0.00
RB -0012	4/27/1973	762	727550-2-Mod	150	1717	4506	1723	0.38						Pour over- not used	0.00
RB -0012	26787	769	SCM	153	1003	6978	2762	0.40	75					Grout	6.02
RB -0012	5/3/1973	769	727550-2-Mod	150	1010	4500	1713	0.38	75	56	3.25				6.00
RB -0012	5/3/1973	769	727550-2-Mod	149	1025	4482	1713	0.38	75	56	3.75				5.98
RB -0012	5/3/1973	769	727550-2-Mod	148	1045	4500	1724	0.38	76	57	3.00				6.00
RB -0012	5/3/1973	769	727550-2-Mod	154	1058	4488	1717	0.38	76	58	3.50				5.98
RB -0012	5/3/1973	769	727550-2-Mod	150	1113	4500	1720	0.38	76	56	3.50	3.5	2262		6.00
RB -0012	5/3/1973	769	727550-2-Mod	149	1124	4500	1717	0.38	77	56	4.25				6.00
RB -0012	5/3/1973	769	727550-2-Mod	148	1141	4494	1714	0.38	77	58	3.25				5.99
RB -0012	5/3/1973	769	727550-2-Mod	151	1149	4512	1717	0.38	77	58	4.00				6.02
RB -0012	5/3/1973	769	727550-2-Mod	154	1154	4524	1717	0.38	77	55	4.25				6.03
RB -0012	5/3/1973	769	727550-2-Mod	150	1158	4512	1717	0.38	77	56	4.00				6.02
RB -0012	5/3/1973	769	727550-2-Mod	149	1205	4500	1720	0.38	77	58	3.50				6.00
RB -0012	5/3/1973	769	727550-2-Mod	148	1225	4488	1720	0.38	82	58	3.50				5.98
RB -0012	5/3/1973	769	727550-2-Mod	151	1232	4488	1717	0.38	82	58	4.50	3.0	2263		5.98
RB -0012	5/3/1973	769	727550-2-Mod	154	1241	4494	1720	0.38	82	58	4.00				5.99
RB -0012	5/3/1973	769	727550-2-Mod	150	1250	4512	1717	0.38	82	58	4.00				6.02
RB -0012	5/3/1973	769	727550-2-Mod	149	1300	4506	1717	0.38	82	58	4.00				6.01
RB -0012	5/3/1973	769	727550-2-Mod	148	1310	4512	1717	0.38	82	58	3.50			3 yd not used- pour over	3.02
							Average:	0.40	71.06	56.97	3.34	3.48			Total:
							Max	0.44	92.00	82.00	8.00	5.00			
							min	0.24	45.00	50.00	0.75	3.00			

FM 3.2 Exhibit 1

Core No.	Pour No.	Mix		Cylinder ID Number	Compressive Strength [psi] 7 days	ave.	28 days	ave.	90 days	ave	Fc Ratios 7/28 days	90/28 days	Cur./28 days	Cur./90 days	Current Density	Voids	Fc	ave	Ec	Poisson
63	472	DM-5		1799	5080		5840								2.54	14.6%	7530			
				1799	4950		5570										7650			
				1800	4390		5480													
				1800	4630	4763	5200	5523			86%		137%					7590	3.30E+06	0.21
65	425	DM-5		1670	4580		5480		6560						2.57	16.9%	5990			
				1670	4630		5680		6050								6800			
				1671	3540		5310		6180											
				1671	3870	4155	5660	5533	6010	6200	75%	112%	116%	103%				6395	2.70E+06	0.18
66	388	DM-5		1623	3340		5390		7000						2.56	15.8%	6830			
				1623	3540		5200		6830								6370			
				1624	3890		4860		6400											
				1624	4300	3768	4900	5088	5780	6503	74%	128%	130%	101%				6600	3.10E+06	0.22
40	475	DM-5		1809	4160		4510		5750						2.57	15.8%	6100			
				1809	4000		4740		6010								6610			
				1810	3910		5870		6150								6600			
				1810	4160	4058	5650	5193	5520	5858	78%	113%	124%	110%				6437	3.05E+06	0.22
31	487	SCM m*	Bay 0010	1851	4530		5290		5780								8810			
		DM-5	panel K	1851	4600		5020		6100											
				1852	4830		5500		6930											
				1852	4920		5320		6920											
				1853	4670		5340		6770											
				1853	4740	4715	5620	5348	6720	6537	88%	122%	165%	135%				8810		
45	452	SCM m*	Bay 0014	1712	4240		5700		6380								8310			
		DM-5	panel L	1712	4100		5450		6460								8970			
				1713	4990		6210		6740											
				1713	5010	4585	6030	5848	7340	6730	78%	115%	148%	128%				8640		
16	712	DM-5M			4900		6240		6650						2.54	14.4%	8220			
					4810		6190		6650								8030			
					5020		5410		7290								7520			
					5040	4943	5360	5800	7470	7015	85%	121%	137%	113%				7923	3.90E+06	0.24
60	Hatch	727550-2													2.47	14.4%				
59	Hatch	727550-2		3088	4670		6540		6860						2.46	14.5%	7520		3.35E+06	0.25
					4860		6810		6540											
						4765		6675		6700	71%	100%	113%	112%				7520		

Mortar samples - 31 & 45

	Fc Ratios 7/28 days	90/28 days	Cur./28 days	Cur./90 days	Current Density	Voids	Fc	ave	Ec	Poisson
Average:	**80%**	**116%**	**134%**	**115%**	**2.53**	**15%**	**7366**	**7489**	**3.23E+06**	**0.22**
Max:	88%	128%	165%	135%	2.57	17%	8970	8810	3.90E+06	0.25
Min:	71%	100%	113%	101%	2.46	14%	5990	6395	2.70E+06	0.18
Count:	8	7	8	7	7	7	16	8	6	6

* Grout cores with aggregate inclusions

PROCEDURE FOR BATCHING GROUT AND CONCRETE

1.0 PURPOSE

1.1 The purpose of this Procedure is to specify the method of batching Grout or Concrete in small amounts at Crystal River Unit #3.

2.0 RESPONSIBLE

2.1 J. A. Jones Construction Company is responsible for implementation of this Procedure.

3.0 REFERENCE

3.1 (PTL Q-9) Quality Control Procedure for Batching Structural Concrete.

3.2 (PTL Q-3) Quality Control Procedure for Furnishing, Delivery, Mixing, and Testing of Ready-Mixed Grout.

4.0 PROCEDURE

4.1 Batching Grout

A. Grout will be mixed using a paddle wheel cement mixer.

B. SCM Mix (One Cubic Yard)

1.	Type II Cement	- 1,160 pounds
2.	FA (sand)	- 2,276 pounds
3.	Water	- 460 pounds
4.	Daratard	- 24 ounces

NOTE: Mixes less than one cubic yard are permitted as long as the correct cement, FA (sand), water, and daratard ratio is maintained and verified by the Independent Testing Lab.

C. The above material will be obtained from West Coast Concrete and stockpiled in such a manner to prevent contamination of the material.

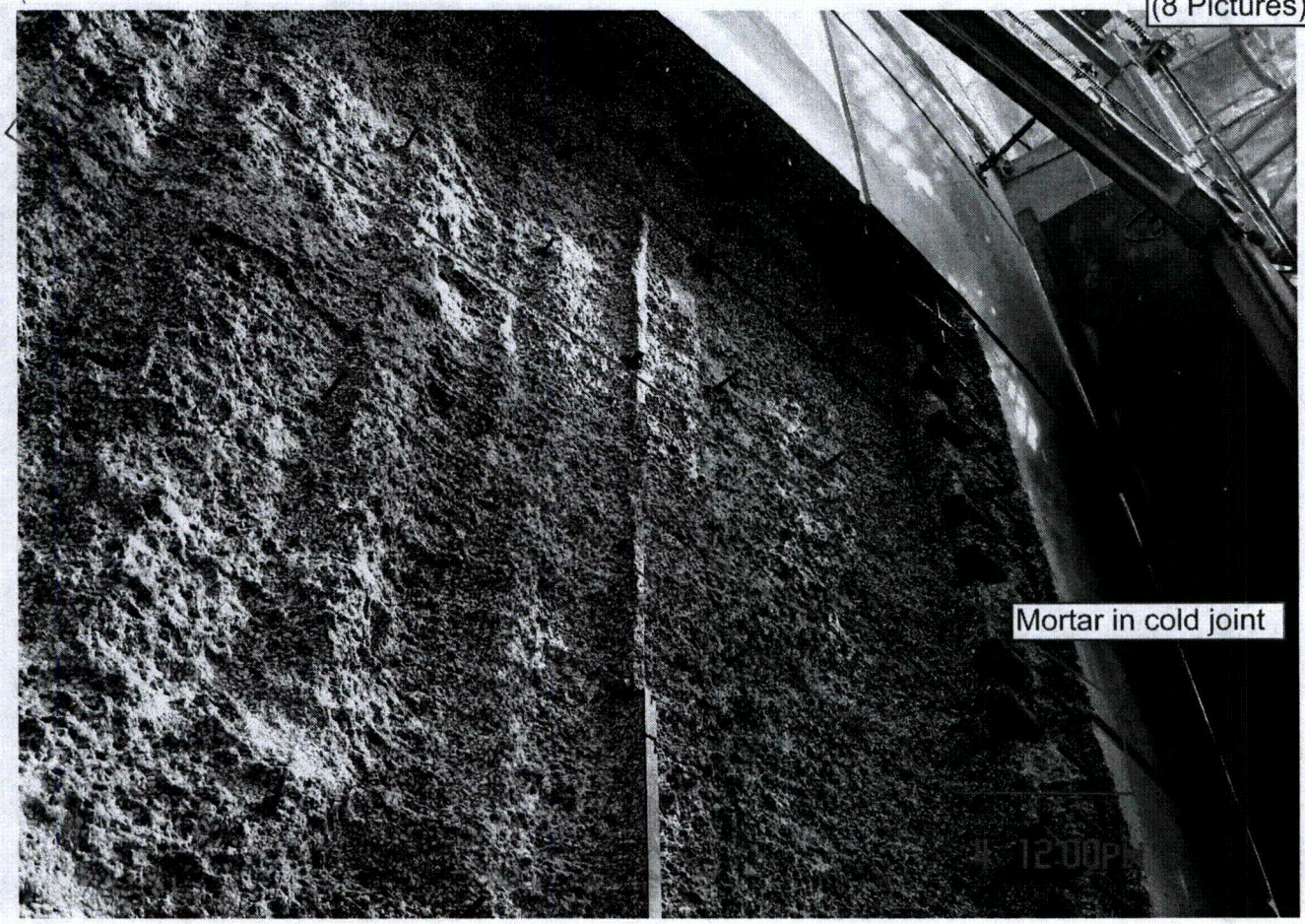
H. Testing:

1. Out of the First Batch we will take a s[illegible] test. Out of the Second Batch, the yield tes[illegible] air test will be taken.

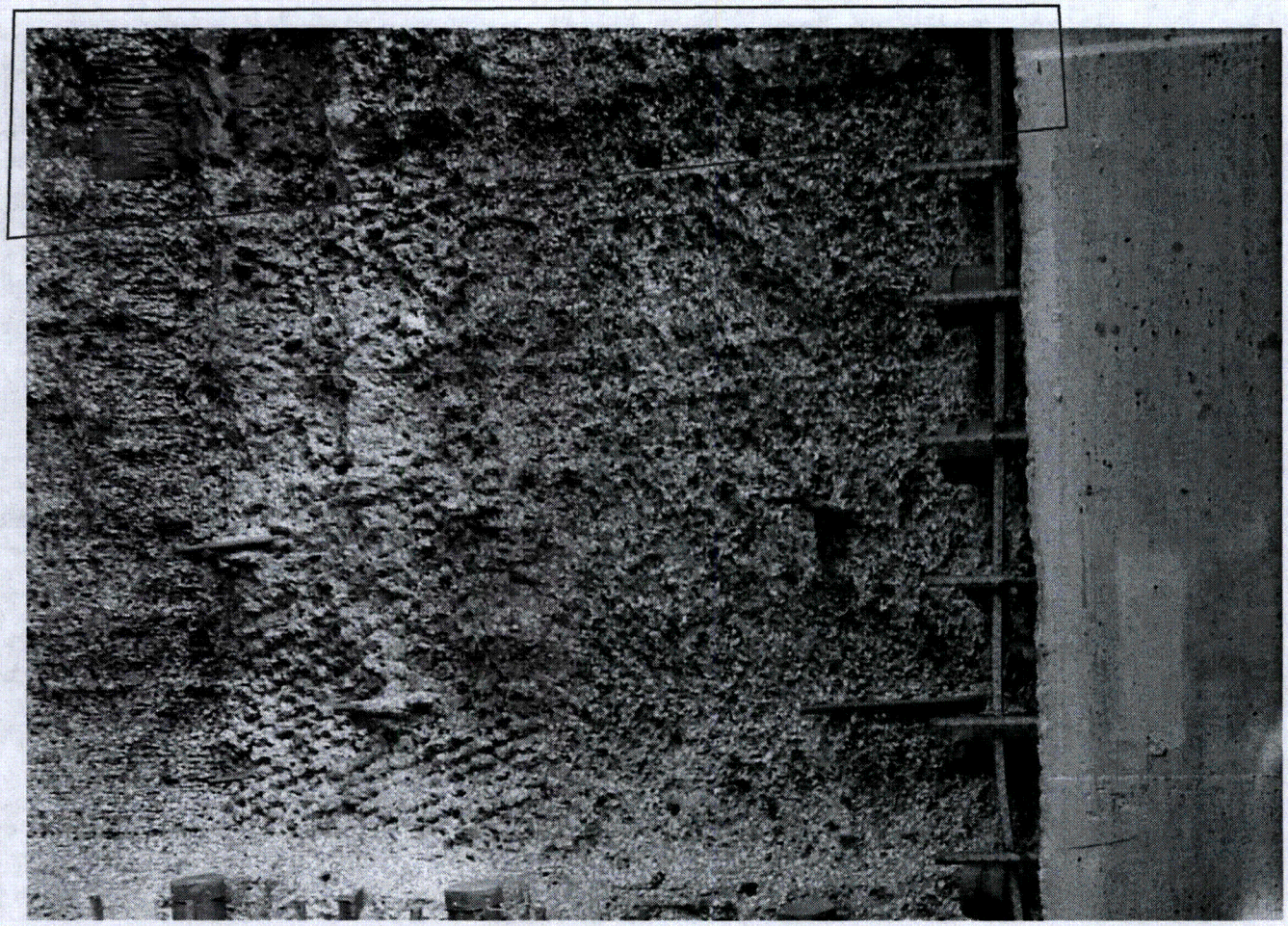
2. The First Batch will not be placed until after mixing and testing of the Second Batch for respective tests.

3. Concrete cylinders will be taken from the First Two Batches as a composite.

FM 3.2 Exhibit 5
(8 Pictures)

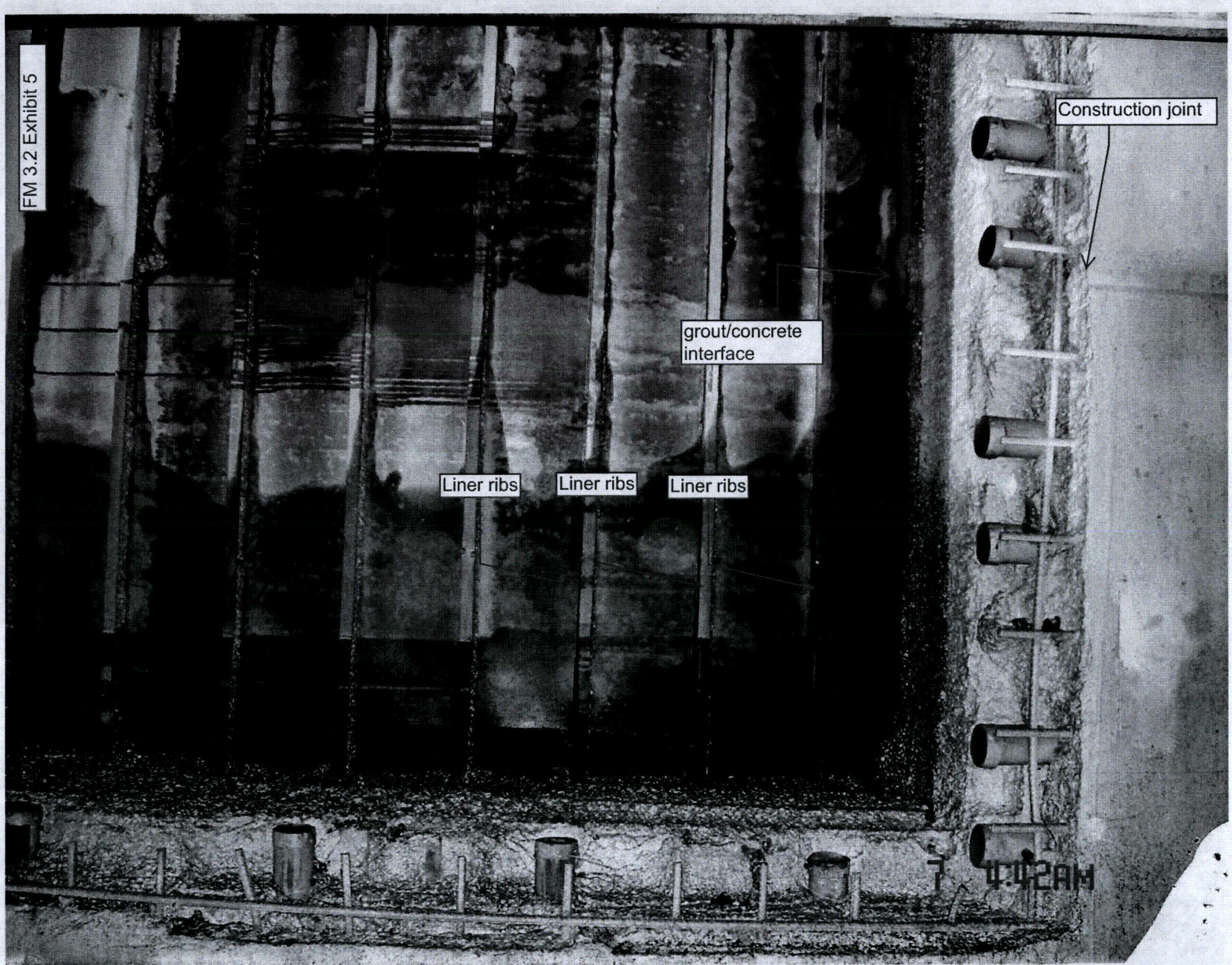


FM 3.2 Exhibit 5



FM 3.2 Exhibit 5

FM 3.2 Exhibit 5
15"
10"
5"
Constructior
Crack follows grout/
concrete interface
Liner ribs
Liner ribs

FM 3.2 Exhibit 5

FM 3.2 Exhibit 5