

Type of Construction	Material	Test	Frequency of Acceptance Samples and Tests for Job Control	Construction Stages for Obtaining Sample or Test	Sample Size	Procedures		Remarks
						Sampling Method	Test Methods	
Portland Cement Concrete Pavement	Quality Control Operation		Study ALDOT-170 before beginning any Quality Control operations.					
		Laboratory and Equipment Check List	See Construction Manual for frequency guides and reports.					
	Aggregate Stockpiles	Visual inspection	Daily on arriving shipments. Aggregate must be from an approved source and accompanied by BMT-10	Prior to use			ALDOT-175	Check approved source list in Materials, Sources, and Devices with Special Acceptance Requirements Manual before beginning stockpiling operations
	Design Mix		The design mix is reviewed & approved by the Concrete Engineer, and approved for use on the project by the Area Materials Engineer prior to beginning operations.	<b>NOTE:</b> See ALDOT-170.	<b>NOTE:</b> See ALDOT-170.	AASHTO T 2 (Representative Sample); ALDOT-210		ALDOT Area or project personnel will sample all components and deliver to the Central Laboratory. Report on BMT-1.

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	Mix Components		Pretested from approved certified source	Prior to use see ALDOT-195 and ALDOT-227				Must be from an approved source. See list I-2, Materials, Sources and Devices With Special Acceptance Requirements. Report on BMT-1.
	Cement							
	Mineral Admixtures		Pretested from approved sources.	Prior to use see ALDOT-195 and ALDOT-227				Must be from an approved source. See List I-3, Materials Sources and Devices With Special Acceptance Requirements. Report on BMT-1.
	Fine Aggregate	Gradation and Fineness Modulus	See ALDOT-249	Before beginning operations and during production. See ALDOT-249		AASHTO T 2	AASHTO T 27, ALDOT-253	Aggregate must be from an approved source. See List I-1, Materials Sources and Devices With Special Acceptance Requirements. See ALDOT-249 and ALDOT-175
		Unit Weight	See ALDOT-249	Before beginning operations and during production		AASHTO T 2	AASHTO T 19	See List I-1, Materials, Sources, and Devices with Special Acceptance Requirements Manual
		Deleterious Materials	Pretested see ALDOT-249	Before beginning operations and during production		AASHTO T 2	AASHTO T 11	

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	Coarse Aggregates	Gradation	Pretested see ALDOT-249	Before beginning operations and during production. See ALDOT-249	AASHTO T 2 (Table 1)	AASHTO T 2	AASHTO T 27, ALDOT-253	Aggregate must be from approved source. See List I-1 in the Materials, Sources & Devices w/ Special Acceptance Requirements Manual. See ALDOT-249 and ALDOT-175
		Unit Weight	No set frequency for testing. Tests will be run when required by the Engineer	Before beginning operations and during production	AASHTO T 2 (Table 1)	AASHTO T 2	AASHTO T 19	
	Water		Approved prior to use	Prior to use. See Section 807		See Section 232		
	Chemical Admixtures		Approved prior to use	Prior to use, see ALDOT-195, ALDOT-170, and Section 808, 809				Must be from approved source, see List II-1, Materials Sources and Devices with Special Acceptance Requirements Manual
	Steel Reinforcement	See Section 502						
	Preformed Joint Filler	Physical	Pretested	Prior to use, see ALDOT-195	1 yd (1 m) by full depth minimum 6 in (150 mm)	AASHTO M 33 AASHTO M 153 AASHTO M 213 AASHTO M 220 ALDOT-210	Visual for damage	Report on BMT-1.

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	Preformed Elastomeric Joints (Compression Seals)	Chemical and Physical	Must be from an approved source for design. Sample at project level one sample per source, per size, per lot, and certified test reports	Prior to use, see ALDOT-195.	For joints up to and including 3 in (75 mm) submit 5 ft (1.5 m). For joints over 3 in (75 mm) submit 3 ft (1 m)	ALDOT-210	Visual for damage	Report on BMT-1.
	Cork	Physical	Sample at project level and submit for testing to Central Laboratory or Certified test reports.	Prior to use, see ALDOT-195	3 ft (1 m)	ALDOT-210 each lot each size each source	Visual for damage	Submit samples to Central Laboratory. Report on BMT-1.
	Hot & Cold Pour	Physical	See ALDOT-195	See List III-4				List III-4 in Materials, Sources, and Devices with Special Acceptance Requirements Manual
	Lubricant Adhesive	Physical	ALDOT-195	See List II-9				List II-9 in Materials, Sources, and Devices with Special Acceptance Requirements Manual
	Water Stop	Physical	Sample at project level and submit for testing to Central Laboratory, or certified test reports	Prior to use, see ALDOT-195	3 ft (1 m)	ALDOT-210		Submit samples to Central Laboratory. Report on BMT-18

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	Liquid Curing Membranes		Approved prior to use.	See List II-30.		AASHTO M 148		Must be from approved sources. See List II-30 in the Materials, Sources & Devices with Special Acceptance Requirements Manual
	Burlap, Polyethylene Sheeting, Waterproof Paper Sheeting, etc.					AASHTO M 171		Shall meet the requirements of Section 830.
	Portland Cement Concrete	Batching Plant, Mixers and Transport Checks	Prior to starting operations				AASHTO M-157	See ALDOT-352
	<u>Quality Control Tests</u>  (*NOTE: For mainline paving, one pavement testing unit (PTU) is defined as 528 linear feet, or fraction thereof, of mainline roadway lane length placed in	Moisture Test for Fine and Coarse Aggregate	Before beginning each days production, then as often as necessary to compensate for moisture changes in the aggregate	See ALDOT-170	AASHTO T 255 AASHTO T 217 AASHTO T 85	AASHTO T 2	AASHTO T 255 AASHTO T 217 AASHTO T 85	Report on Form BMT-122 and Plant Diary.
		Test Cylinders	One set per PTU*. A set of cylinders consists of two 6" x 12" cylinders, to be tested at 28 days of age.	During placement of concrete.		AASHTO T 141	AASHTO T 141 ALDOT-210	AASHTO T 22 AASHTO T 23

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	one paving pass. For non-mainline (ramps, shoulders, & transitional areas) paving, a PTU is defined as 250 cubic yards, or fraction thereof, of non-mainline paving placed in one paving pass.	Air Content	One test per PTU.	Same sample and location as that from which cylinders are made.	AASHTO T 141 ALDOT-328	AASHTO T 141 ALDOT-328	AASHTO T 152	Report on Form BMT-122, BMT-174 & BC-101 (Inspector's Daily Report)
		Slump	One test per PTU.	Same sample and location as that from which cylinders are made.	AASHTO T 141 ALDOT-328	AASHTO T 141 ALDOT-328	AASHTO T 119	Report on Form BMT-122, BMT-174 & BC-101 (Inspector's Daily Report)
		Temperature	One test per PTU.	Same sample and location as that from which cylinders are made.	AASHTO T 141 ALDOT-328	AASHTO T 141 ALDOT-328	ASTM C1064	Report on Form BMT-122, BMT-174 & BC-101 (Inspector's Daily Report)
		Thickness	Two measurements per PTU.	During paving operation		Use ALDOT-210 to determine sample location before paving occurs.	Per Section 450.02(h)9.	Contractor performs this test & reports locations & thicknesses to Engineer.
		Monthly Reports	Monthly	During paving operation				Report monthly to the Bureau of Materials & Tests (Concrete Section) on form BMT-117.
	Ready Mix Concrete for Portland Cement Concrete Pavement		All Provisions of this Section (450) apply					

**Portland Cement Concrete Pavement**

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	Finished Portland Cement Concrete Pavement	Thickness Verification	Two readings per Contractor measurement. (4 total readings per PTU)	After paving operation has been completed		Targets must be placed within 1.0' of the Contractor's thickness measurements.	Per Section 450.02(h)10.	
	Finished Portland Cement Concrete Pavement	Pavement Roughness Profile	See ALDOT-335					Notify Materials and Tests Engineer for Scheduling
	Epoxied Tie Bars	Pull Out	Minimum two per ½ mile (1 km) Kilometer	After epoxy has cured as recommended by producer. ALDOT-366		ALDOT-210	ALDOT-366	