MATERIAL		REF. TESTED BY	PURP.	SAMPLED BY METHOD	MIN. FREQ.	MIN. QUANT. CONTAINER	CERT. DISTR.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
ADDITIVES	Anti-Stripping	1002.02(a) Mat. Lab	Prelim. Source Approval	Dist. Lab S 612	1/batch or storage tank	1 pt Friction top can	-----	-----	10 days	(QPL 57)
		508.02 1002.02(a) Mat. Lab	Accept.	Proj. Engr. S 601	1/ shipment/ plant*	1 pt Friction top can	CD 1 & 7	250 tons per location	10 days	(QPL 57) *Sample when not accompanied by CD or questionable.
	Mineral Filler	508.02 1003.06(a)(6) Dist. Lab	Accept.	Proj. Engr S 102	1/500 tons*	1 gal Friction top can				(QPL 10) *Sampling not required for portland cement or hydrated lime when accompanied by CD.
	Fibers (Mineral or Cellulose)	508.02(3)	Accept.	Proj. Engr. S 601	1/Shipment*	1 qt. friction container	CC	-----	10 days	*Pre-approved by DOTD
AGGREGATES	Combined Aggregates (Moisture Content)	503.09(b) Contractor	Quality Control	Contractor S 101	2/day/plant*	1 gal Suitable container	-----	-----	-----	For drum-mixer plants. *Sample prior to starting plant & during operation. May be reduced to 1/plant/day when weather & stockpile conditions warrant, as allowed by DOTD inspector.
	Fine Aggregate	1003.06(b)(2) Dist. Lab	Accept./ Design	Proj. Engr. S 101	1/source/ plant	1 full sample sack	-----	-----	5 days	(QPL 2) Includes Fine Aggregate Angularity
	Crushed Stone	508.02 1003.06(b)(1) Dist. Lab	Accept./ Design	Proj. Engr. S 101	1/source/ plant/size	1 full sample sack	-----	------	5 days	(QPL 2) Includes Flat and Elongated
ASPHALT MIX RELEASE AGENT		1018.26 503.04 Proj. Engr.	Accept.*	-----	-----	-----	-----	-----	-----	(QPL 25) *Visual inspection for performance by Proj. Engr.

MATERIAL		REF. / TESTED BY	PURP.	SAMPLED BY / METHOD	MIN. FREQ.	MIN. QUANTITY / CONTAINER	CERT. / DISTR.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
ASPHALTIC CONCRETE (PLANT)	Anti-Strip Additive, %	508.07(b) 501.12(e) Proj. Engr.	Accept.	Proj. Engr. S 605	1/sublot	*	-----	-----	-----	*Range given on JMF, % AS from meter. See QA Manual.
	Asphalt Cement, %	508.05 503.09 Proj. Engr.	Quality Control	Contractor S 605	1/sublot	*	-----	----	----	*% AC from meter or scales. See QA Manual.
	Briquettes	508.03 Contractor	Design	Contractor S 203	As required for Design		-----	----	-----	Results submitted with JMF.
			Quality Control	S 203	1 set/10 lots/JMF	-----	-----	-----	-----	AASHTO T 283
				Contractor S 203 & S 605	1/sublot	suitable sampling bucket	-----	-----	-----	*One briquette for volumetric for each sublot.
		508.03 Dist. Lab	Design/ Accept.	Proj. Engr. S 203	1 set/ 20 lots/ JMF*	6 briquettes/set	-----	-----	7 days	(Marshall Method and Modified Lottman) *1 set per JMF for design acceptance and 1 set per 20 lots per JMF for acceptance.
		508.06 Proj. Engr.	Accept.	Proj. Engr. S 203 & S 605	1/sublot*	Suitable sampling bucket	-----	-----	1 day	*One briquette for volumetric for each sublot.
		508.06 Dist. Lab	Verif.	Proj. Engr. S 203 & S 605	1/half lot	Suitably wrapped	-----	-----	5 days	Shall be a companion sample of an acceptance sample representing each half lot of plant operation. (Submit the second briquette.)
		508.06 Dist. Lab	I A	Dist. Lab S 203	-----	-----	-----	-----	7 days	See Independent Assurance Program S 701.

MATERIAL		REF. TESTED BY	PURP.	SAMPLED BY METHOD	MIN. FREQ.	MIN. QUANTITY CONTAINER	CERT. DISTR.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
ASPHALTIC CONCRETE (PLANT) (Cont'd)	Job Mix Formula (JMF)	508.03 Contractor/ Dist Lab	Design/ Accept	-----	1/mix type/ plant	SEE INDEPENDENT ASSURANCE PROGRAM S 901				Contractor shall submit to the Proj. Engr. the proposed job mix formula with supporting design data. Approval by the Dist. Lab Engr. is required prior to starting work. Dist. Lab to evaluate all data submitted with JMF and complete sample testing. After approval of proposal, contractor may start production.
	Loose Mixture (Maximum Specific Gravity)	508.05 Contractor	Quality Control	Contractor S203	1/sublot	Suitable sampling bucket	-----	-----	1 day	Average of two tests will be used to determine volumetric and density.
		508(06(a) Proj. Engr	Accept.	Proj. Engr. S203	1/sublot	Suitable sampling bucket	-----	-----	1 day	Average of two tests will be used to determine volumetric and density.
	Loose Mixture (Asphalt Coating)	503.02(m) Contractor	Mix Design/ Quality Control	Contractor S 203	1/JMF*	1 gal Friction top can	------	-----	-----	*Additional tests shall be taken to control asphalt coating of aggregates in mixture.
		503.02(m) Proj. Engr.	Accept.	Proj. Engr. S 203	1/JMF*	1 gal Friction top can	------	------	1 day	*Additional tests shall be taken if asphalt coating is questionable.
	Loose Mixture (Asphalt Draindown)	503.09 Contractor	Mix Design	Contractor	1/JMF	1 gal Friction top can	-----	-----	-----	____
		503.09 Proj. Engr.	Accept.	Proj. Engr. S 203	1/lot	1 gal Friction top can	-----	-----	1 day	____

MATERIAL		REF. TESTED BY	PURP.	SAMPLED BY METHOD	MIN. FREQ.	MIN. QUANT. CONTAINER	CERT. DISTR.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
ASPHALTIC CONCRETE (Plant) (Cont'd)	Loose Mixture (Gradation)	508.05 Contractor	Quality Control	Contractor S 203 & S 605	1/sublot	Suitable sampling bucket	-----	-------	-------	-----
		508.06 Proj. Engr.	Accept.	Proj. Engr. S 203 & S 605	1/sublot	-----	-----	-----	1 day	-----
		508.06 Dist. Lab	I A	Dist. Lab S 203	-----	-----	-----	-----	7 days	See Independent Assurance Program S 701. Whenever possible, sample at same time acceptance sampling is done.
	Loose Mixture (Recovered Asphalt)	503.02(a) Mat. Lab	Plant Certificatio n	Proj. Engr. S 203	1/plant*	1 gal Friction top can	-----	-----	14 days	*Additional samples will be taken if plant process is questionable.
	Loose Mixture* (Temperature)	503.09 Contractor	Quality Control	Contractor S 605	2/sublot	-----	-----	-----	-----	*Temperature of mixture in truck at plant.
		503.09 Proj. Engr.	Accept.	Proj. Engr. S 605	1/sublot*	-----	-----	-----	1 day	*Temperature of mixture in truck at plant.
	Density	508.06(e) Proj. Engr.	Accept.	Proj. Engr. S 203 & S 605	5/sublot/ mix use/ project*	4 or 6 in. diameter core	-----	-----	1 day	* See QA manual for shipment of cores.
		508.06(e) Dist. Lab	Verif.	Proj. Engr. S 203 & S 605	2/sublot/ project	4 or 6 in. diameter core	-----	-----	5 days	-----
		508.06(e) Dist. Lab	I A	Dist. Lab S 203	SEE INDEPENDENT ASSURANCE PROGRAM S 701.					
ASPHALTIC CONCRETE (In-Place)	Longitudinal Surface Tolerance	508.06(f) Contractor	Quality Control	Contractor TR 641 S 605	Each lot/ project	Entire length*	-----	-----	-----	*Both wheelpaths for interstate & new multilift construction. Inside wheelpath for all other construction. Contractor must furnish an approved 25-ft profilograph or approved alternate.
		508.06(f) Dist. Lab or Proj. Engr.	Accept.	Dist. Lab or Proj. Engr. TR 641 S 605	Each lot/ paving strip	Entire length*	-----	-----	2 days	*Both wheelpaths for interstate & new multilift construction. Inside wheelpath for all other construction.

MATERIAL		REF. / TESTED BY	PURP.	SAMPLED BY / METHOD	MIN. FREQ.	MIN. QUANT. / CONTAINER	CERT. / DISTR.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
ASPHALTIC CONCRETE (In-Place) (Cont'd)	Loose Mixture* (Temperature)	508.09 Proj. Engr.	Accept.	Proj. Engr. S 605	4/sublot	-----	-----	-----	1 day	*Temperature of mixture at placement.
	Transverse Surface Tolerance, Cross Slope and Grade	501.10 Contractor	Quality Control	Contractor S 605	*	-----	-----	-----	-----	*As needed to control project within specification requirements.
		501.10 Proj. Engr.	Accept.	Proj. Engr. S 605	*	-----	-----	------	1 day	*Test at selected locations for conformance to specifications.
ASPHALTIC MATERIAL	Asphalt Cement (PG 76-22m)	1002.01 Mat. Lab	Prelim. Source Approval	Refinery S 201	1/supplier tank	1 qt Friction top can	CA 7	-----	5 days	(QPL 41) Non Self Certified Must have tank approved by mat. Lab prior to shipping whenever asphalt cement is added or modified. DOTD results used for approval.
		1002.01 Refinery	Prelim. Source Approval	Refinery S 201	1/supplier tank	1 qt Friction top can	CA 7	-----	2 hrs during working hours	(QPL 41) Self Certified Supplier, shall sample and test each tank in accordance with quality control plan whenever asphalt cement is added to modified and supply CA to Mat. Lab along with 1 qt sample for verification testing. Supplier results used for approval.
		1002.01 Proj. Engr.l	Accept.	-----	-----	-----	CD 8 & 9	-----	5 days	(QPL 41) 1 CD to accompany each transport.
		1002.01 Dist. Lab	Verif.	Proj. Engr. S 201	1/plant working tank/day of production	1 qt friction top can	-----	-----	5 days	(QPL 41) Test original binder DSR, including Phase Angle. If sample does not meet criteria, the plant will investagated and the Dist. Lab will notify the Proj. Engr., the HMA Producer, and the Mat. Lab. Rotational Viscosity to be tested 1/working tank/week for information. A record of results will be kept on file.
		1002.01 Mat. Lab	Verif.	Proj. Engr. S 201	1/working tank	1 qt Friction top can	-----	-----	10 days	Sample after 72 hour shut down period.
		1002.01 Mat. Lab	Verif.	Proj. Engr.	1 transport/ project/grad e	1 qt Friction top can	-----	-----	10 days	(QPL 41) Send directly to Materials Lab for comparison to refinery sample.
	Tack Coat	SEE SECTION 504 OF THIS MANUAL.								