

<b>OFFICE OF STATE AID ROAD CONSTRUCTION</b>			S.O.P. NO. SA II-3-5
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**PURPOSE:** To Establish a Schedule for Uniform Job Control Acceptance Sampling and Testing. The Frequencies Shown in the Following Table Are Recommended Target Values. It Is Understood That During the Construction Process Conditions and/or Situations May Result in Variations in the Frequencies of Sampling and Testing of Material That Differ From Those Indicated Herein.

1. GENERAL:

The following schedule sets forth the sample size, frequency of sampling and designates the responsibility for sampling and testing. All sampling and/or testing (unless otherwise indicated) will be the responsibility of the County/LSBP Engineer. The County/LSBP Engineer may perform these operations with an approved laboratory or arrange for the assistance of the MDOT District Laboratories or MDOT Central Laboratory.

The frequencies in this schedule will be used by the County/LSBP Engineer to ascertain the quantities of tested materials, unless otherwise stipulated in the Proposal. The responsibility for compliance with this schedule rests with the County/LSBP Engineer; however, additional sampling and testing may be performed as deemed necessary.

At the discretion of the County/LSBP Engineer, a residual portion of a lot completed during a day's operation may be considered as a separate lot or may be included in the previous or subsequent lot.

When samples are designated to be obtained by the Engineer (County/LSBP Engineer), the materials to be sampled are normally located on or near the project site. Pretested materials are normally sampled at the producers plant or at a broker's warehouse. The notation, MDOT APL, means the materials must come from a producer included in the MDOT Approved Sources of Materials Products List.

The quality and quantity of materials entering into construction are checked and verified when checking the final estimate and plans in the State Aid Office. All County/LSBP Engineers and State Aid District Engineers are urged to see that adequate test reports covering the materials used in construction are on file prior to acceptance of the project.

When the list of tests and measurements shown herein are followed, then ample measurements and test reports will be available to check the final quantities and will provide the State Aid Office with sufficient records to certify that the completed work was built according to the plans and specifications using satisfactory materials. Any materials for which no test reports are available should be certified to by letter from the County/LSBP Engineer as being acceptable for use in the project.

References to "Jackson" in the following table refer to the MDOT Central Laboratory or privately owned laboratories approved by the Office of State Aid Road Construction.

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2. SUBGRADE SOIL PROFILE:

- 2.1. This sampling and analysis is to be made after grading operations are complete and before placing subbase or base course material.
- 2.2. Frequency of borings is usually at 200 to 500 foot intervals.
- 2.3. Make all borings to a depth of three (3) feet below finished subgrade.
- 2.4. Classify or group soil samples by visual inspection and limit the number of soil analyses to a minimum.

3. MATERIAL PITS

- 3.1. The Contractor is responsible for furnishing pit reports on pits established in new locations, or from old pits not used and tested in recent construction. The Contractor will arrange for all required exploration for new pit locations and bear all costs incurred.
- 3.2. Contractor-furnished material purchased from a commercial source may be approved if a State Inspector is present at the pit or if reports can be furnished from MDOT or State Aid construction projects currently active.
- 3.3. Before the contractor is allowed to open a materials pit he must assure compliance with the Mississippi Surface Mining and Reclamation Act and furnish the County/LSBP Engineer a letter stating that compliance has been met. A letter of approval must also be obtained from the Executive Director of the Department of Archives and History. (See Subsection S-107.23 of the Standard Specifications)

Copies of approval documents should be submitted to State Aid.

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4. SCHEDULE OF TESTS:

ITEM NO.	ITEM	MATERIAL OR TEST	FREQUENCY	SAMPLED BY	TESTED BY
S-203	Borrow Excavation	Grad., P.I.	Source Approval	Engineer	Engineer
	Excavation & Embankment	Density	See Note (1) and S-203.09.4	Engineer	Engineer
S-206	Structure Excavation (Backfill)	Density	Within the upper one-half of each 4' depth of backfill See Note (7)	Engineer	Engineer
S-211	Topsoiling	Topsoil for Slope Treatment	Source Approval	Engineer	Engineer
S-212	Ground Preparation and Fertilizer	Depth	As required	Engineer	Engineer
		Pulverization	As required	Engineer	Engineer
		Agriculture Limestone	Guaranteed Analysis		Producer
		Commercial Fertilizer	Guaranteed Analysis		Producer
		Water	1½ pint Sample each Source See Note (5)	Engineer	Jackson

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ITEM NO.	ITEM	MATERIAL OR TEST	FREQUENCY	SAMPLED BY	TESTED BY
S-214	Seeding	Seed	Pretested by Mississippi Department of Agriculture and Commerce  If not Pretested ¼ lb. Sample for each Lot	Engineer	State Seed Testing Lab
S-215	Vegetative Materials for Mulch	Mulch  Asphalt	Visual Inspection  Manufacturer's Certification each Shipment	Engineer	Engineer
S-226	Solid Sodding	Sod	Source Approval	Engineer	Engineer
S-227	Excelsior Blanket	Blanket, Fabric & Staples	Manufacturer's Certification each Shipment		
S-229	Paved Ditches	Concrete, Etc.	See Item S-601		
S-230 S-231 S-232	Asphalt Fiberglass Roving, & Erosion Control Fabric, & Geotextile Fabric Stabilization	All Materials	Manufacturer's Certification each shipment		

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ITEM NO.	ITEM	MATERIAL OR TEST	FREQUENCY	SAMPLED BY	TESTED BY
S-233	Temporary Silt Fence	Fabric  Posts, Wire Backing, Staples	Certified Test Report Each Shipment Type  Visual Inspection	Engineer	Engineer
S-235	Temporary Erosion Checks	Baled Hay or Straw, Stakes	Visual Inspection	Engineer	Engineer
S-236	Temporary Silt Basins	See specific requirements for items specified			
S-239	Temporary Slope Drains	See specific requirements for items specified			
S-240	Geogrid	Manufacturer's Certified Test Report and 5 Sq. Yd. Sample	Each Shipment	Engineer	Jackson
S-301	Plant Mix Bituminous Base Course	See S-403			

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ITEM NO.	ITEM	MATERIAL OR TEST	FREQUENCY	SAMPLED BY	TESTED BY
S-304	Granular Material	Abrasion Test (Class 1-6)	75 lb. Source Sample (New Sources Only)	Engineer	Jackson
		Grad., P.I.	1 each 1000 cy at pit or 1 each 0.5 mile from Roadway	Engineer	Engineer
		Depth Checks	1 each 500 l.f..	Engineer	Engineer
		Density <u>Note:</u> Gravel surfaces shall be compacted to subbase density	5 per lot per layer (See Subsection S-304.08)	Engineer	Engineer

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ITEM NO.	ITEM	MATERIAL OR TEST	FREQUENCY	SAMPLED BY	TESTED BY
S-307	Lime Treated Course	Mix Design	150 lb. Sample for each Type Soil	Engineer	Jackson
		Hydrated Lime	1 gal. each 1000 tons	Engineer	Jackson
		Quick Lime	Certified Test Reports		
		Water	1½ pint each Source See Note (5)	Engineer	Jackson
		Hydration (See Subsection S-307.04)	One sample from test section	Contractor	Ind. Lab.
		Density	5 per lot per layer (See Subsection S-307.08)	Engineer	Engineer
		Pulverization	As Required by Observation	Engineer	
		Depth Checks	1 each 500 L.F.	Engineer	
	Prime	See Note (2)	Engineer	Jackson	

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ITEM NO.	ITEM	MATERIAL OR TEST	FREQUENCY	SAMPLED BY	TESTED BY
S-308	Portland Cement Treated Courses        (After Mixing)	Mix Design	150 lb. Sample for each Type Soil	Engineer	Jackson
		Water	1½ pint each Source See Note (5)	Engineer	Jackson
		Cement	Cert, A or B & 1 gal. ea. 1000 bbls.; MDOT APL	Engineer	Jackson
		Prime	See Note (2)	Engineer	Jackson
		Cylinder	1 each 8000 SY or Minimum 1 Per Day	Engineer	Jackson
		Pulverization	As Required by Observation	Engineer	
		Density	5 per lot per layer (See Subsection S-307.08)	Engineer	Engineer
		Depth Checks	1 each 500 LF	Engineer	

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ITEM NO.	ITEM	MATERIAL OR TEST	FREQUENCY	SAMPLED BY	TESTED BY
S-310	Mechanically Stabilized Courses	Aggregates	75 lb. Initial Sample @ Source (New Sources Only)	Engineer	Jackson
		Grad. of Agg.	1 each 300 CY; Source or Project Site	Engineer	Engineer
	After Mixing	Grad. & P.I.	1 each 1000 L.F.	Engineer	Engineer
		Density	5 per lot per layer (See Subsection S-304.08 and S-310.09)	Engineer	Engineer
		Depth Checks	1 each 500 L.F.	Engineer	

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S-311	Lime-Fly Ash Treated Course	Mix Design	300 lb. Sample for each Type Soil, 50 lb. Fly Ash	Engineer	Jackson
		Lime	1 gal. each 1000 tons	Engineer	Jackson
		Fly Ash	Supplier's Cert., & 1 gal. each 400 tons	Engineer	Jackson
		Water	1½ pt. each Source See Note (5)	Engineer	Jackson
		Density	5 per lot per layer (Subsection S-308.11.2)	Engineer	Engineer
		Pulverization	As Required by Observation	Engineer	
		Prime	See Note (2)	Engineer	Jackson
		Cylinder	1 each 8000 S.Y. or Minimum 1 Per Day	Engineer	Jackson
		Depth Checks	1 each 500 L.F.	Engineer	

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S-320	Shoulders	Abrasion Test Class (1-6)	75# Source Sample (New Sources Only)	Engineer	Jackson
		Grad., P.I.	1 each 1000 C.Y. from pit or 1 each 0.5 mile from Roadway	Engineer	Engineer
		Density	See Note (4)	Engineer	Engineer
S-403	Hot Mix Asphalt	Mix Design See S.O.P. No. SA II-3-8	Each mix	Contractor	Contractor; verified by Jackson
		Hydrated Lime	½ gal. Initial Sample (Metal Container) and Shipping Ticket for each Shipment (See S-401.02.3.1)	Engineer	Jackson
		Aggregates (Source)	MDOT APL or Source Approval (75 lb. Sample)	Engineer or Contractor	Jackson
		Crushing Requirements (fractured face count)	One per Day/Production	Engineer (QA) Contractor (QC)	Engineer Contractor

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ITEM NO.	ITEM	MATERIAL OR TEST	FREQUENCY	SAMPLED BY	TESTED BY
S-403 (Continued)	Hot Mix Asphalt (Continued)	Asphalt Cement (temp., viscosity, Brookfield Viscometer)	One per 100,000 gal.; Certificate A or B	Contractor (QC)	Contractor
			See Note (2)	Contractor and Submitted to Engineer (QA)	Jackson
		Asphalt Cement (PG binder project sample tests)	One per 200,000 gal.; Certificate A or B	Contractor (QC)	Contractor
			See Note (2)	Contractor and Submitted to Engineer (QA)	Jackson
		Tack Coat	See Note (2)	Engineer	Jackson
		Gradation of Mineral Aggregate, Stockpiles	See Note (3)	Contractor (QC)	Contractor
			See Note (3)	Engineer (QA)	Jackson
		Gradation of Mixture, extraction	See Note (3)	Contractor (QC)	Contractor
			See Note (3)	Engineer (QA)	Jackson

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ITEM NO.	ITEM	MATERIAL OR TEST	FREQUENCY	SAMPLED BY	TESTED BY
S-403 (Continued)	Hot Mix Asphalt (Continued)	VMA & Total Voids	See Note (3)	Contractor (QC)	Contractor
			See Note (3)	Engineer (QA)	Jackson
		Road Density	Based on Daily Production. (See S-401.02.6.4 and S.O.P. No. SA II-3-18)	Engineer	Engineer
		% Asphalt	See Note (3)	Contractor (QC)	Contractor
			See Note (3)	Engineer (QA)	Jackson
		Stripping Test (MT-59 and MT-63)	Initial, then One per Two Weeks production	Contractor	Contractor
	Surface Checks	As Required	Engineer	Engineer	
S-407	Tack Coat	Asphalt	See Note (2)	Engineer	Jackson
S-408	Prime Coat	Asphalt	See Note (2)	Engineer	Jackson
S-409	Geotextile For Underseal	Geotextile Fabric	Manufacturer's Certification		
		Bituminous Material	See Note (2)	Engineer	Jackson

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ITEM NO.	ITEM	MATERIAL OR TEST	FREQUENCY	SAMPLED BY	TESTED BY
S-410	Bituminous Surface Treatment	Asphalt	See Note (2)	Engineer	Jackson
		Aggregate	MDOT APL or 75 lb. Initial Sample each Aggregate (See S.O.P. II-3-10 Section 8)	Engineer	Jackson
		Gradation	1 each 300 CY	Engineer	Engineer
S-411	Slurry Seal	Asphalt	See Note (2)	Engineer	Jackson
		Aggregate	MDOT APL or 75 lb. Initial Sample each Aggregate (See S.O.P. II-3-10 Section 8)	Engineer	Jackson
		Gradation	1 each 300 CY	Engineer	Engineer
		Mix Design Approval	25 lbs. each aggregate 1 gal. Asphalt	Engineer	Jackson
S-413	Cleaning and Sealing Joints and Cracks	Sealing Material	Manufacturer's Certification		
		Aggregate Gradation	1 each 300 CY	Engineer	Engineer

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ITEM NO.	ITEM	MATERIAL OR TEST	FREQUENCY	SAMPLED BY	TESTED BY
S-601	Structural Concrete	Trial Batch Mix Design	See S-804 this S.O.P.		
		Mix Design	Each Mix	Contractor	Jackson
		Aggregate	75 lb. Initial Sample each Aggregate; MDOT APL	Engineer	Jackson
		Gradation	See Note (6)	Engineer	Jackson
		Cement	Cert. A or B & 1 gal. each 500 Bbls.; MDOT APL	Engineer	Jackson
		Water	1½ pint each Source See Note (5)	Engineer	Jackson
		Joint Filler	Pretested		
		Curing Material	Pretested		
		Fly Ash	Certification & 1 gal each 100 tons; MDOT APL	Engineer	Jackson
		Admixtures	Notarized Certificate from Producer; MDOT APL		
		Steel Wire Fabric (Wire Mesh)	Pretested or 3' x 3' Sample each 10 tons; Domestic Origin	Engineer	Jackson

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ITEM NO.	ITEM	MATERIAL OR TEST	FREQUENCY	SAMPLED BY	TESTED BY
S-601 (Continued)	Structural Concrete (Continued)	Cylinders	Each 30 or 100 CY See Note (9)	Engineer	Jackson
		Slump	Each Cylinder (C-2 Report)	Engineer	Engineer
		% Air	Each Cylinder as applicable	Engineer	Engineer
		Temperature	See Subsection S-804.02.13.1.4		Engineer
S-602	Reinforcement	Reinforcing Steel	Pretested (See Note 8) Domestic Origin	See Note 8.	See Note 8.
S-603	Culverts and Storm Drains	Pipe (Concrete, Metal)	Pretested		
		Extruded Pipe (HDPE, PVC)	Certified Test Report & Manufacturer's Certification		
S-604	Manholes Inlets and Catch Basins	Brick	10 Brick Samples per 50,000 Bricks used, 5 each Additional 50,000	Engineer	Jackson
		Concrete	See Item S-601		
		Reinforcing Steel	See Item S-602		
		Gratings	Pretested		
		Castings	Pretested		

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S-605	Underdrains	Pipe: (Concrete, Metal  PVC, ABS, and HDPE  Filter Material Gradation  Filter Fabric	Pretested  Certified Test Report & Manufacturer's Certification  1 each 300 CY  Certified Test Report each Lot	Engineer	Engineer
S-606	Guard Rail	Metal Rail  Anchorage & Fittings  Hardware  Post, Wood  Post, Metal	Certified Test Reports MDOT APL  Mill Test Reports  Certification  Pretested  Certified Test Reports; Domestic Origin		
S-608	Concrete Sidewalks & Driveways	Concrete, Etc.	See Item S-601		

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S-609	Concrete Curb, Gutter and Combination	Concrete, Etc.	See Item S-601		
		Bituminous Curb	See Item S-403		
		Paint	See Item S-619		
S-611	Brick Masonry	Brick	10 Brick Samples per 50,000 Bricks, 5 Bricks each Additional 50,000	Engineer	Jackson
		Cement	1 gal. each 200 Bags	Engineer	Jackson
		Water	1½ pint Sample each Source See Note (5)	Engineer	Jackson
		Sand	50 lb. Sample	Engineer	Jackson
		Hydrated Lime	1 gal. Sample per 200 Bags	Engineer	Jackson

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S-612	Pressure Grouting	Cement	See Item S-601	Engineer	Jackson
		Calcium Chloride	Manufacturer's Certification		
		Fly Ash	See Item S-601		
		Water	1½ pint Sample each Source See Note (5)	Engineer	Jackson
		Fine Aggregate	50 lb. Sample	Engineer	Jackson
		Limestone Dust	See Subsection S-612.02.1		
S-613	Adjustment of Castings, Gratings & Utility Appurtenances	All Materials	See Item S-604		
S-616	Traffic Island Pavement	Concrete, Etc.	See Item S-601		
		Hot Plant Mix Asphalt	See Item S-403		
		Joint Filler	Pretested		
S-617	ROW Markers	Marker	Pretested		

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S-618	Maintenance of Traffic	All Materials  New Construction Signs  Used Construction Signs	See Specific Item Involved S-619 & S-630  Manufacturer's Certification & Certified Test Report  Visual Inspection & Certification by Engineer		
S-619	Painted Traffic Markings	Paint  Beads  Temporary Pavement Marking Tape  Temporary Raised Pavement Markers  All Other Materials	Pretested  Pretested  Manufacturer's Certification  Manufacturer's Certification MDOT APL  Manufacturer's Certification		
S-620	Cold Plastic Pavement Markings	Cold Plastic	Manufacturer's Certification each Lot; MDOT APL	Engineer	Jackson
S-621	Thermoplastic Traffic Markings	Thermoplastic  Beads	Manufacturer's Certified Test Report; MDOT APL  Pretested		

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ITEM NO.	ITEM	MATERIAL OR TEST	FREQUENCY	SAMPLED BY	TESTED BY
S-627	Raised Pavement Markers	Markers  Bituminous Adhesive	See Note (10); MDOT APL  Pretested or Certified Test Report; MDOT APL	Engineer	Jackson
S-630	Traffic Signs & Delineators	Concrete, Etc.  Wood Posts  All Metals, Etc.  Reflectorized Materials	See Item S-601  Pretested  Manufacturer's Certified Test Report; Domestic Origin  Manufacturer's Certification; MDOT APL		
S-631	Flowable Fill	Fine Aggregate Gradation  Cement  Fly Ash  Admixture(s)  Water  Mix Design	1Each 300 CY  See Item S-601  See Item S-601  Certified Test Report  1½ pint Sample each Source See Note (5)  Each Mix	Engineer  Engineer  Engineer  Engineer  Contractor	Engineer  Jackson  Jackson  Jackson  Jackson

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ITEM NO.	ITEM	MATERIAL OR TEST	FREQUENCY	SAMPLED BY	TESTED BY
S-632	Roadbed Reclamation	Cement	See Item S-601	Engineer	Jackson
		Water	1½ pint Sample each Source See Note (5)	Engineer	Jackson
		Soil Test	As Require By Soil Type	Engineer	Jackson
		Pulverization	Visual	Engineer	
		Density	5 per lot per layer (See Subsection S-308.11.2)	Engineer	Engineer
S-801	Excavation and Fill	Density	See Note (7)	Engineer	Engineer
S-802	Sheet Piling	Concrete	Pretested		
		Steel	Mill Test Report; Domestic Origin		
S-803	Bearing Piles	Concrete - Prestressed	Pretested; Certification from producer With Form TMD-895 (See S.O.P. No. II-3-28)	Producer	Producer

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S-803 (Continued)	Bearing Piles (Continued)	Steel	Mill Test Report Domestic Origin		
S-804	Concrete Bridges and Structures and Structures (See Subsection S-804.02.12 for Contractor's Quality Control Requirements)	Trial Batch Mix Design (Standard) (See S.O.P. SA II-3-20)	250 Lbs. Coarse Aggregate; 150 Lbs. Fine Aggregate; 94 Lbs. Cement, 1 pint each admixture, 50 Lbs. of Fly Ash See Note (12)	Contractor	Contractor
		Mix Design (See S.O.P. SA II-3-20)	Each Mix	Contractor	Jackson
		Field Verification of Concrete Mix Design	See S. O. P. SA II-3-21		
		Cement	Cert. A or B & 1 gal. Sample each 500 Bbl MDOT APL	Engineer	Jackson
		Water	1½ pint Sample each Source See Note (5)	Engineer	Jackson
		Fly Ash	Certification & 1 gal each 100 tons;MDOT APL	Engineer	Jackson
	Aggregates	75 lb. each Aggregate Initial Sample See Note (6)	Engineer	Jackson	

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S-804 (Continued)	Concrete Bridges and Structures (See Subsection S-804.02.12 for Contractor's Quality Control Requirements) (Continued)	Gradation	See Note (6)	Engineer	Engineer or Jackson
		Curing Material	Pretested		
		Wire Rope or Cable	Certificate and 5' Sample each 100,000 L.F.; Domestic Origin	MDOT	Jackson
		Spiral Wire	4' Sample each Shipment; Domestic Origin	MDOT	Jackson
		Admixtures	MDOT APL & Notarized Certificate from Producer for each Batch		
		Prestressed Concrete Beams	Pretested; Certification from Producer With Form TMD-895 (See S.O.P. No. II-3-28) and Visual Inspection by the Engineer	Producer	Producer

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S-804 (Continued)	Concrete Bridges and Structures (See Subsection S-804.02.12 for Contractor's Quality Control Requirements) (Continued)	Cylinders	Each 30 or 100 C.Y. See Note (9)	Engineer	Jackson
		Slump, % Air	Each Cylinder	Engineer	Engineer
		Neoprene Bearing Pads	Certificate & 1 Pad per Lot See Note (11)	Engineer	Jackson
		Grout, Epoxy & Patching Material	MDOT APL, or 1 Bag each Component including Mixing Instructions (Approved prior to use)	Engineer	Jackson
S-805	Reinforcement		Pretested; Domestic Origin See Note (8)		
S-806	Precast (All Units) Concrete Bridge		Pretested or Pretested & Certified by Producer With Form TMD-895 (See S.O.P. No. II-3-28)	Producer or Approved Laboratory	Producer or Approved Laboratory
		Grout	See Subsection S-806.03.5		

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ITEM NO.	ITEM	MATERIAL OR TEST	FREQUENCY	SAMPLED BY	TESTED BY
S-810	Steel Structures	Steel  Paint (Prime, Intermediate & Top Coats)  Bolts, Nuts, Washers & DTI's	Mill Test Reports Domestic Origin  MDOT APL Certification & 1 qt. Sample  See Note (13)	Engineer  Engineer	Jackson  Jackson
S-811	Bronze Copper-Alloy Bearing and Expansion Plates	Metals	Certified Test Reports		
S-812	Steel Grid Flooring	Steel	Mill Test Reports; Domestic Origin		
S-813	Railing	Materials	See Applicable Items in S-804		
S-814	Paint Metal Structures	Paint (Prime, Intermediate & Top Coat)	MDOT APL, Certification & 1 qt. Sample	Engineer	Jackson
S-815	Riprap and Slope Paving	Concrete  Geotextile Fabric  Cloth or Jute Bags	See Item No. S-804  Certified Test Report  Approval by Visual Inspection	Engineer	

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S-815 (Continued)	Riprap and Slope Paving (Continued)	Riprap	Pretested or Visual Inspection; MDOT APL	Engineer	
S-816	Maintenance Painting of Metal Structures	Paint (Prime, Intermediate & Top Coat)	MDOT APL, Certification & 1 qt. Sample	Engineer	Jackson
S-820	Timber Structures	Treated Timber	Manufacturer's Certification	Engineer	
		Untreated Timber	Manufacturer's Certification		
		Untreated Timber Piling	Visual Inspection		
		Treated Timber Piling	Manufacturer's Certification		
S-822	Neoprene Expansion Joints	Materials	Manufacturer's Certification		

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REFERENCED NOTES IN SCHEDULE FOR JOB CONTROL SAMPLING AND TESTING

1. Determination of Lot Sizes

RATE OF CONTRACTOR'S PRODUCTION:

<u>More than</u>	<u>To And Including:</u>
0	250 CY/hr; 1 lot is 6 hrs. production
250	500 CY/hr; 1 lot is 5 hrs. production
500	750 CY/hr; 1 lot is 4 hrs. production
750	1000 CY/hr; 1 lot is 3 hrs. production
1000	More 1 lot is 2 hrs. production

NOTE: A minimum of one density test will be require for each lot.

2. All bituminous materials shall be shipped under Certificate "A" or "B" (Certification by refinery) and job control sampling shall be performed at the following rate:
  - A. Asphalt for Plant Mixes. One sample each 200,000 gallons or fraction thereof. For projects with less than 250 tons of mix, see S.O.P. NO. SA II-3-7.
  - B. Asphalt for Surface Treatment. One sample for each 50,000 gallons or fraction thereof. For projects with less than 1000 gallons, see S.O.P. NO. SA II-3-7.
  - C. Asphalt for prime, tack, underseal, curing, joint sealing and crack filling. One sample for each 30,000 gallons or fraction thereof. For projects with less than 1000 gallons, see S.O.P. NO. SA II-3-7.
3. Sampling Frequency. Contractor is to conduct those quality control (QC) tests as required at the following frequency for each mixture produced based on the estimated plant tonnage at the beginning of the day. The Engineer is to conduct those quality assurance (QA) tests at a minimum frequency of 10% of the QC tests, but no less than one test per days production.

<u>Total Estimated Production (tons)</u>	<u>Number of Tests</u>
50 - 800	1
801 - 1700	2
1701 - 2700	3
2701+	4

The above testing frequencies are for the estimated plant production for the day. If production is discontinued or interrupted, the tests will be conducted at the previously established sample tonnage

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points for the materials that are actually produced. If the production exceeds the estimated tonnage, sampling and testing will continue at the testing increments previously established for the day. A testing increment is defined as the estimated daily tonnage divided by the required number of tests from the table above.

In addition to the above, the following tests shall be conducted on the first day of production and once for every eight production samples thereafter, with a minimum of one test per production week.

Aggregate Stockpile Gradations

(Sample from cold feed bins or stockpile)(AASHTO T-11 and T-27)

Reclaimed Asphalt Pavement (RAP) Gradation

(Sample from cold feed bin or stockpile)(Mississippi Test Method MT-31)

Fine Aggregate Angularity for all 4.75 mm and 9.5 mm mixtures and all MT and HT mixtures designed above the maximum density line.

(ASTM C 1252 Method A)

At least one stripping test (MT-63) will be performed at the beginning of each job-mix production and thereafter, at least once every two weeks of production. If a stripping test fails, a new antistripping rate shall be established or other changes made immediately that will result in a mixture which conforms to the specifications; otherwise, production shall be suspended until corrections are made.

4. Densities shall be taken as required by specifications. Each lot will consist of each day's operation per layer placed, with a maximum lot length of 10,000 linear feet. The lot will be divided into five (5) approximately equal sublots. One density test will be taken at random in each of the sublots. The average of the five (5) tests will be the lot density.
5. No testing is required if water is obtained from a potable source approved by the State Department of Health.
6. Case I

If a ready-mix plant is set up for Mississippi Department of Transportation use only (or a local ready-mix plant that maintains separate stockpiles), the aggregates shall be pretested. Job control acceptance sampling shall be performed at the rate of one sample for each 250 cubic yards of concrete used.

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Case II

If a local ready-mix plant is furnishing concrete locally and for Mississippi Department of Transportation use (and does not maintain separate stockpiles), the following conditions shall apply:

- A. Aggregates shall be purchased from MDOT approved sources.
  - B. Ready-mix plant and contractor must submit certificates.
  - C. Job control samples shall be taken prior to production and as often as necessary, with each sample representing not more than 100 cubic yards of each aggregate used; except when less than 5 cubic yards of concrete are produced, no gradation test is necessary.
7. Structure backfill is to be considered a separate frame of work. The backfill at each structure is to be considered a lot, except that for very long or very large structures, the Engineer may specify that the backfill be divided into more than one lot.
  8. All pretested reinforcing steel should have the following, or similar wording on the County/LSBP Engineer's copy of the shipping invoice: "This material was shipped from MDOT Pretested Stock." If the steel has not been pretested, the following shall apply:
    - A. The Engineer shall submit one (1) 30 inch sample for each bar size for each 10 tons or fraction thereof to the Central Laboratory for testing. If the sample is cut with a torch, the sample length shall be 42 inches.
  9. Four (4) cylinders, one for 7-day test, two (2) for 28-day test, and one (1) for back up shall be cast; (a) during the first pour of concrete on a project; (b) during the first pour under each new mix design; and (c) during the first pour following a cessation of concrete construction of more than a month. Thereafter, two cylinders, 28-day test, shall be cast from each 100 c.y. or fraction thereof, in each pour except as noted below.

Several small pours such as bridge-end slabs, curbs, diaphragm, handrail, small headwalls, inlet, junction boxes, paved ditches, post anchor, sign anchors, slope paving, etc., may be accumulated, with cylinders cast for each 30 c.y. of concrete.
  10. Case 1 Pretested; Case II Untested - Certificate and 10 markers of each type per lot.

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11. The Contractor shall furnish the manufacturer's certified test reports and certification covering each manufacturer's lot in a shipment. Dimensions are to be checked in the field prior to placement.

The Engineer's representative will sample the bearing pads at the rate of one (1) plain pad per manufacturer's lot, and in the case of reinforced bearings, one (1) pad per thickness per project. Samples obtained by the Engineer will be retained in the Engineer's Office until final acceptance of the project. The pads will be submitted to Jackson for testing when deemed necessary by the Engineer.

12. Aggregates shall be submitted in standard size sampling bags in the amount of approximately 75 pounds each.
13. Mill test reports (MTR) required on steel used in manufacture of bolts, nuts, washers and direct tension indicators. Manufacturer's certified test report (MCTR) required for each lot of bolts, nuts, washers, and direct tension indicators. Distributor certified test reports (DCTR) required on each lot of bolts, nuts, washers and direct tension indicators.

Job Control acceptance samples shall be obtained at the rate of one sample per shipment per manufacturer's lot for each size bolts, nuts, washers and direct tension indicators. The size of each sample of these materials shall be as specified in Subsection S-717.02.7 of the Standard Specification.