# 53.11 PRODUCTION OF ASPHALT CONCRETE PAVEMENT MATERIAL

## 53.11.1 GENERAL

The Work consists of producing asphalt concrete pavement material for pavement patching and other work. Asphalt concrete pavement shall consist of crushed aggregate, blend sand material as required and asphalt cement which is combined in a hot mix plant.

#### 53.11.2 MATERIALS

The Contractor shall supply asphalt binder in accordance with Specification 55.5, Supply of Asphalt, for the type and grade specified.

The Contractor shall supply aggregate in accordance with Specification 55.4, Supply of Aggregate.

The Contractor shall produce crushed aggregate in accordance with Specification 55.3, Aggregate Production and Stockpiling, for the designation and class of material specified.

The Contractor shall produce mixes conforming to mix type specified. The Contractor shall assume responsibility for all costs incurred in verifying mix properties.

#### 53.11.3 EQUIPMENT

The Contractor shall supply all equipment necessary to complete the Work.

#### 53.11.4 PROCEDURE

Asphalt concrete pavement (ACP) material of the Mix Type requested in the Work Order shall be produced to comply with the following:

Asphalt Concrete Mix	Class for Des 1 Agg.	% MF, -5000 (Min) (Note 1)	% Fractures +5000 (2 faces)* (Min)	Asphalt Cement Grade	Marshall Stability N (Min)	Blows		VMA % (Min.) by % Air Voids			Voids Filled with	Flow mm	Retained Stability %
Туре								3	4	5	Asphalt %		(Min.)
1	16	80	98 (one face) 90 *	150-200A	12 000	75	3 to 5	12.5	13.5	14.5	65 to 75	2 to 3.5	70
2	16	70	70 *	150-200A	12 000	75	3 to 5	12.5	13.5	14.5	65 to 75	2 to 3.5	70
3	16	40	60 *	150-200A	8 000	75	3 to 5	12.5	13.5	14.5	65 to 75	2 to 3.5	70
4	12.5	50	60 *	150-200A	8 000	75	3 to 5	13	14	15	65 to 75	2 to 3.5	70
5	12.5	Note 2	60 *	200-300A	8 000	75	3 to 5	13	14	15	65 to 75	2 to 3.5	70
6	12.5	Note 2	60 *	200-300A	5 300	50	3 to 5	13	14	15	65 to 78	2 to 4	70
7	12.5	Note 2	60 *	300-400A	5 300	50	Note 5	13	14	15	65 to 78	2 to 4	70
8	10	Note 2	60 *	Note 3	5 300	Note 4	3 to 5	14	15	16	65 to 78	2 to 4	70

ASPHALT CONCRETE MIX TYPES AND CHARACTERISTICS

Note 1 - The Percentage of Manufactured Fines in the -5000 Portion of the Combined Aggregate.

Note 2 - All fines manufactured by the process of crushing shall be incorporated into the mix for Asphalt Mix Types 5, 6, 7 and 8.

Note 3 - Use 150-200A or 200-300A Grade Asphalt Cement.

Note 4 - Use 75 blows.

Note 5 - Air Voids of 3 to 5 % except for 2 to 4 % on community airports, (VMA at 2 % air voids shall be a minimum of 12 %).

# 53.11.5 SAMPLING AND TESTING

The Contractor may be required to provide the Engineer with a copy of the applicable mix design for the material supplied.

The Engineer may perform additional testing to verify that the asphalt concrete mix complies with the specifications.

# 53.11.6 SCHEDULING OF WORK

The Contractor shall provide asphalt concrete mix materials to coincide with pavement patching operations as shown in the Work Order.

# 53.11.7 MEASUREMENT AND PAYMENT

Payment for the production of asphalt concrete pavement including the supply of asphalt binder, producing crushed aggregate and blend sand, and processing the mix will be included in the unit price bid for the work item for which the material is being used.

Payment for the supply of aggregate will be made in accordance with Specification 55.4, Supply of Aggregate.

### 53.11.8 WARRANTY

There warranty period for this Work shall be 1 year.