

SECTION 114

ASPHALT PAVEMENT HOT RECYCLING

114.1 GENERAL

Asphalt pavement hot recycling shall consist of removing an existing asphalt pavement, sizing the removed materials, furnishing additional materials if required by the ENGINEER, mixing the materials with a recycling agent in either a dryer-drum or batch plant and placing the recycled asphalt mixture on the roadway or street.

114.2 REFERENCES

114.2.1 ASTM

D 70	D 1160
D 92	D 2170
D 244	

114.2.2 AASHTO

T 48	T 202
T 201	T 240

114.2.3 This publication:

SECTION 116
SECTION 336

114.3 REMOVAL AND SIZING OF EXISTING PAVEMENT: The asphalt pavement removed for recycling shall be crushed and rescreened so that all the material removed from the roadway is prepared for recycling and a uniform mixture of all material is maintained. If in the opinion of the ENGINEER the material removed from the roadway and placed in the stockpile is not uniform in nature, the CONTRACTOR shall blend the material in such a manner that it is uniform throughout the stockpile.

114.4 MATERIAL

114.4.1 RECYCLING AGENTS: The recycling agent to be mixed with the removed pavement shall conform with Table 114.4.1.1, 114.4.1.2, and 114.4.1.3.

114.4.2 VIRGIN AGGREGATE: If a virgin aggregate is specified for blending with the removed asphalt pavement, it shall meet the requirements of aggregates for an asphalt concrete as described in Section 116. The gradation band to be used shall be as designated by the ENGINEER in the supplemental specifications.

114.5 PROPORTIONING

A job-mix formula for the recycled asphaltic concrete mixture to be supplied under this contract shall be determined by an approved testing laboratory from

representative samples of graded aggregate produced and stockpiled and the reclaimed asphalt pavement stockpiled by the CONTRACTOR. Recycled asphaltic concrete material will not be mixed until the ENGINEER has received and approved the job-mix formula. The job-mix formula shall indicate the definite percentage of the reclaimed pavement and the virgin aggregate, the percentage of recycling agent, and the temperature of the completed mixture as it is to be discharged from the mixer.

114.6 MIXING

The recycled asphalt mixture shall consist of the reclaimed asphalt, the virgin aggregate and a recycling agent. No mixing of these materials shall occur until a job-mix formula has been approved by the ENGINEER. The recycled mixture can be mixed in either an asphalt batch-plant or a dryer-drum. The CONTRACTOR is to follow the recommendations of the manufacturer of the plant as to mixing procedure. The reclaimed asphalt and virgin aggregate are to be proportioned in the plant through the cold feed bins or to be blended in the stockpile. The CONTRACTOR is to submit to the ENGINEER, for his approval, an outline of the procedures to be used in mixing the asphalt concrete.

114.7 PLACEMENT

The placement of the mixture will follow the requirements for the placement of asphalt concrete as described in Section 336.

114.8 MEASUREMENT AND PAYMENT

Removal of the existing asphalt pavement will be paid for at the contract unit price per square yard. Payment will include removing and delivering the bituminous pavement materials to the plant, and crushing and stockpiling as required. The recycled bituminous pavement mixture will be paid for at the unit price per ton or square yard, with a separate item for the recycling agent which will be paid for at the unit price per ton.