

Inspector Quantlist Report 20231115

Diary Number: _____ Inspector Name: _____

TRACS Number: _____ Date: _____

Division IV: Surface Treatments and Pavements Title: Asphalt Drum or Batch Plant

Plant Name:	Plant Number:
Plant Location:	Mix Design Number:
Mix Type: 407, 416, 417:	
(Asphalt-Rubber) Mix Type: 413, 414, 415:	
Misc Mix Type: 409 Misc Structural, 409 Misc Structural Special, 411:	

Attribute Numbers	Yes/No/N/A	Narratives	References
0		A pre-paving meeting with all key stakeholders was held to review all aspects of the paving operation (may be combined with other pre-activity).	Construction Manual Pg. AC-4 Construction Manual (Exhibit Agenda AC-1) Pg. AC-6
1		The mix design was submitted and approved by ADOT's District Regional Materials Engineer or ADOT's Central Lab/Materials Engineer. The approved mix design is in the project files.	Standard Specifications 2021 407-4 Pg. 319, 409-2.04 Pg. 370 413-4 Pg. 395, 414-4 Pg. 409 415-4 Pg. 427, 416-4 Pg. 456 417-4 Pg. 493
2		Mix design aggregate bin percentages, asphalt cement content, mineral admixture % and moisture content are verified daily with the hot plant's computer.	Construction Manual 105.11 Pg.105-7 Standard Specifications 2021 105.11 Pg. 74
3		A certificate of compliance conforming to the requirements of Subsection 106.05 of the specifications has been submitted for the asphalt cement (performance grade [PG] asphalt binder).	Standard Specifications 2021 1005-1 Pg. 1136
4		All required samples are obtained using the most current Arizona test methods, Sampling is performed correctly, sample containers are the correct size and type for each type of material, and are documented in daily diary.	Construction Manual 105.11 Pg.105-7 Materials Testing Manual Series 100 - Sampling ARIZ 103b,104f & 105f
5		ADOT inspector is monitoring the hot plant and witnessing sampling performed by the Contractor.	Construction Manual 105.11 Pg.105-6 Standard Specifications 2021 403-2 Pg. 295, 407 Pg. 316 409 Pg. 366, 411 Pg. 380 413 Pg. 390, 414 Pg. 405 415 Pg. 421, 416 Pg. 446 417 Pg. 481

Inspector Quantlist Report 20231115

6		SECTION 407 ONLY: Prior to the initial startup of asphaltic concrete production, a sample of the combined mineral aggregate is tested and meets the gradation requirements for the three consecutive test limits indicated.	Standard Specifications 2021 07-6.03(A) Pg. 322
7		If mineral admixture was used, the project verified it was on the Approved Materials Source List. Mineral admixture is Portland Cement I or II, Blended Hydraulic Cement Type IP, or Hydrated Lime. The date of verification was recorded in the daily diary.	Construction Manual 105.11 Pg.105-6 Materials Practice and Procedure Directives 13a 2.5
8		Scales of acceptable size are furnished by the contractor and are sealed by an inspector of the Department of Weights and Measures, State of Arizona, or a Licensed Service Agency approved by the State of Arizona Department of Weights and Measures.	Construction Manual 105.11 Pg.105-6 Standard Specifications 2021 109.1 Pg.143
9		The platform truck scales and/or silo load cells are certified every 365 days, or after being moved to a new location. Platform truck and/or silo load cells dates are documented in the project files.	Construction Manual 105.11 Pg.105-6 Standard Specifications 2021 109.1 Pg.143
10		When material will be measured by weight for payment using platform scales, trucks hauling such material must be weighed empty at least once daily and at such other times as the Engineer directs. Each truck must bear a plainly legible identification mark.	Standard Specifications 2021 109.01 Pg. 144
11		The mineral admixture is added and thoroughly mixed with the mineral aggregate prior to the mixture entering the dryer.	Standard Specifications 2021 403.2 Pg. 395
12		FOR BATCH PLANT ONLY: The mechanical mixing device is a pugmill type mixer which is in good working condition and which consists of at least two motorized shafts with mixing paddles. The contractor's plant and equipment will be constructed and operated so that there is not a significant loss of mineral admixture through the dust collection system of the plant.	Standard Specifications 2021 403-2 Pg. 295-296
13		EXCEPT FOR 407, 411 AND 414 MIXES: Moisture content of the combined mineral aggregate is a minimum of 3% by weight of the aggregate during mixing.	Standard Specifications 2021 403-2 Pg. 295
14		FOR ACFC (407) AND AR-ACFC (411): Mineral aggregate is wet with free moisture on the surface just prior to mixing. The Engineer may require moisture content up to 1 1/2 percent above the combined water absorption.	Standard Specifications 2021 403-2 Pg. 295
15		The mineral admixture positive signal system is operating properly (mixing automatically stops if mineral admixture is not introduced into the mixture).	Standard Specifications 2021 403-2 Pg. 296
16		A positive signal system will be provided and utilized during production to indicate the low level of mineral aggregate in the bins. The plant will not be permitted to operate unless the signal system is in good working condition.	Standard Specifications 2021 403-2 Pg. 296

Inspector Quantlist Report 20231115

17		A continuous recording pyrometer sensitive to a rate of temperature change not less than 10 degrees F per minute shall automatically record the temperature of asphaltic concrete or mineral aggregate at the discharge chute of the dryer.	Standard Specifications 2021 403-2 Pg. 297
18		(407) The temperature of the asphalt or mineral aggregate upon discharge from the dryer cannot exceed 275 F for 407 mix (325 F if PG TR+ is used).	Standard Specifications 2021 407-7.03 Pg. 324
19		(411) The temperature of asphaltic concrete or mineral aggregate upon discharge from the dryer shall not exceed 275 degrees F, unless otherwise approved by the Engineer.	Standard Specifications 2021 411-3.01 Pg. 383
20		(413, 414 & 415) The temperature of asphaltic concrete or mineral aggregate upon discharge from the dryer shall not exceed 350 degrees F.	Standard Specifications 2021 413-7.03 Pg. 399 414-7.03 Pg. 414 415-6 Pg. 431
21		(409, 416 & 417) The temperature of asphaltic concrete or mineral aggregate upon discharge from the drier shall not exceed 325 degrees F, unless a higher temperature is recommended in writing by the asphalt binder supplier and approved by the Engineer.	Standard Specifications 2021 409-3.01 Pg. 372 416-6 Pg. 460 417-6 Pg. 497
22		(407, 413 & 414) Mineral aggregate shall be separated and stockpiled so that segregation is minimized. An approved divider of sufficient size to prevent intermingling of stockpiles shall be provided.	Standard Specifications 2021 407-7.02 Pg.324 413-7.02 Pg. 398 414-7.02 Pg. 413
23		(411) Mineral aggregate shall be separated into at least two stockpiles. No individual stockpile or hot bin usage shall be less than 3 percent of the total mineral aggregate.	Standard Specifications 2021 411-2.01 Pg.380
24		(415, 416 & 417) The contractor shall perform the quality control measures described in Subsection 106.04(C) of the specifications: Stockpile management, including stacking methods, separation technique, plant feed technique, stockpile pad thickness, and segregation prevention.	Standard Specifications 2021 106.04(C) Pg. 84 415-5(B) Pg. 429 416-5(C) Pg. 459 417-5(C) Pg. 495
25		Aggregate has been heated in the drier to allow the individual particles to be uniformly coated with asphalt cement or asphalt rubber. It is desirable to hold the temperature of the aggregate in the drier to the minimum that will effectively dry it, and allow for the mix to arrive at the job site at the recommended temperature.	Construction Manual AC-10 Pg.64
26		Quantlist Minimum Frequency is being followed, 1 per week.	Construction Bulletin 07-01