

## Inspector Quantlist Report 20240626

Diary Number: \_\_\_\_\_ Inspector Name: \_\_\_\_\_

TRACS Number: \_\_\_\_\_ Date: \_\_\_\_\_

### Division IV: Surface Treatments and Pavements

Title: AC with RAP

Plant Name:	Plant Number:
Plant Locations:	Mix Design:

Attribute Numbers	Yes, No, N/A	Narrative	Reference
0.		All stakeholders have participated in the pre-activity meeting.	Construction Manual Chapter 4:Asphaltic Concrete pg. AC-4
1.		RAP will not be allowed in the mixture when asphalt cement type <b>PG 76-22 TR+</b> or <b>PG 70-22 TR+</b> is specified in Subsection 416-3.03 (B).	2021 Standard Specifications 416-1 pg. 446, 417-1 pg. 481
2.		Mineral aggregate will consist of virgin aggregate, or a combination of virgin aggregate and aggregate from RAP (RAP aggregate).	2021 Standard Specifications 416-3.01 (A) pg. 448, 417-3.01 (A) pg. 484
3.		Coarse virgin mineral aggregate will consist of crushed gravel, crushed rock, or other approved inert material with similar characteristics, or a combination thereof conforming to the requirements of the 2021 Standard Specifications.	2021 Standard Specifications 416-3.01 (B) pg. 448 417-3.01 (B) pg. 485
4.		For areas or applications where <b>Special Mix is not called</b> for on the plans, fine virgin mineral aggregate will consist of natural sand or of sand prepared from rock, or other approved inert materials, or a combination thereof, conforming to the requirements of the 2021 Standard Specifications.	2021 Standard Specifications 416-3.01 (B) pg. 449
5.		For areas or applications where <b>Special Mix is called for</b> on the project plans, the following will apply: Fine virgin mineral aggregate will be obtained from crushed gravel or crushed rock. All uncrushed material passing the No. 4 sieve will be removed prior to the crushing, screening, and washing operations necessary to produce the specified gradation.	2021 Standard Specifications 416-3.01 (B) pg. 449 417-3.01 (B) pg. 485

6.		<b>For Special Mix:</b> The contractor will notify the Engineer a minimum of 48 hours in advance of crushing the material to be used as virgin mineral aggregate, so all crushing operations can be inspected.	2021 Standard Specifications 416-3.01 (B) pg. 449 417-3.01 (B) pg. 485
7.		<b>For Special Mix:</b> Existing stockpile material which has not been inspected during crushing will not be permitted for use unless the contractor is able to document to the Engineer's satisfaction that the virgin mineral aggregate has been crushed.	2021 Standard Specifications 416-3.01 (B) pg. 449 417-3.01 (B) pg. 485
8.		<b>For Special Mix:</b> Any material inspected by the Department as crushed material for the project shall be separated from the contractor's other stockpiles and reserved for use throughout the project duration.	2021 Standard Specifications 416-3.01 (B) pg. 449 417-3.01 (B) pg. 485
9.		<b>For Special Mix:</b> The contractor may blend uncrushed fine virgin aggregate up to a maximum of 15 percent of the total aggregate for mixes not containing RAP, or up to a maximum of 10 percent of the total aggregate for mixes containing RAP.	2021 Standard Specifications 416-3.01 (B) pg. 449 417-3.01 (B) pg. 485
10.		A maximum of 25 percent RAP aggregate, by weight of total aggregate in the mix, may be used in mixes placed in a lower lift (minimum 2 inches below finished surface).	2021 Standard Specifications 416-3.01 (C) pg. 449 417-3.01 (C) pg. 486
11.		Aggregates will be free of deleterious materials, clay balls, and adhering films or other material that prevent the thorough coating with the asphalt cement.	2021 Standard Specifications 416-3.01 (D) pg. 449 417-3.01 (D) pg. 486
12.		Mineral admixture will be required, The amount used will be 1.0% by weight of the mineral aggregate, unless testing demonstrates that additional admixture is required. A maximum of 2.0% admixture will be permitted. The exact amount of admixture required will be specified in the mix design.	2021 Standard Specifications 416-3.02 pg. 451 417-3.02 pg. 487
13.		The certification and acceptance of Portland cement, blended hydraulic cement, and hydrated lime shall be in accordance with ADOT Materials Practice and Procedure Directive No. 13, "Certification and Acceptance of Hydraulic Cement, Fly Ash, Natural Pozzolan, Silica Fume, and Lime".	2021 Standard Specifications 416-3.02 pg. 451 Practice and Procedure Directive No.13
14.		RAP binder will consist of the asphalt binder portion of the reclaimed asphaltic pavement. A maximum of 25 percent RAP binder, by weight of total binder in the mix, may be used in mixes placed in a lower lift (minimum 2 inches below finished surface).	2021 Standard Specifications 416-3.03 (C) pg. 453 417-3.03 (C) pg. 489
15.		A maximum of 20 percent RAP aggregate, by weight of total aggregate in the mix, may be used at all other locations.	2021 Standard Specifications 416-3.01 (C) pg. 449 417-3.01 (C) pg. 486

16.		A maximum of 20 percent RAP binder, by weight of total aggregate in the mix, may be used at all other locations.	2021 Standard Specifications 416-3.03 (C) pg. 453 417-3.03 (C) pg. 488
17.		For asphaltic concrete containing less than or equal to 15% RAP aggregate, all material passed through the 1.25" sieve.	2021 Standard Specifications 416-3.04, pg. 453 417-3.04, pg. 489
18.		For asphaltic concrete containing 15% or greater RAP aggregate; the RAP material is crushed and processed into two uniform stock piles.	2021 Standard Specifications 416-3.04, pg. 453 417-3.04, pg. 489
19.		A RAP binder correction factor will be determined for each RAP stockpile used in the mixture. Were the first two samples of RAP, split and tested for asphalt binder content in accordance with Arizona Test Method 428 and AASHTO T-164 to calculate the RAP binder content correction factor.	2021 Standard Specifications 416-7.04 (D)(2), pg.469 417-7.04 (D)(2), pg. 505
20.		During asphaltic production, samples of the RAP material taken and tested to determine RAP binder content {minimum of 1 sample per stockpile (if more than one stockpile, the average of the results is used) and per lot}.	2021 Standard Specifications 416-7.04 (D)(1) pg. 469 417-7.04 (D)(1) pg. 505
21.		Was the RAP Stockpile gradation tested in accordance with ARIZ Test Method 240.	2021 Standard Specifications 416-3.04 pg. 453 417-3.04 pg. 489
22.		Was the moisture content of the RAP material from each stockpile determined and provided daily by the contractor.	2021 Standard Specifications 403-2 pg. 296
23.		Was the percent of RAP aggregate maintained within plus 2% and minus 5% of the mix design value(s).	2021 Standard Specifications 416-6 pg. 460 417-6 pg. 497
24.		Is the Contractor performing quality control testing daily.	2021 Standard Specifications 416-5 pg. 458 417-5 pg. 496
25.		RAP is stockpiled so that segregation is minimized. When two RAP stockpiles are used, acceptable methods to prevent intermingling of stockpiles are provided. Is the RAP stockpiled so that segregation is minimized? The use of more than two RAP stockpiles is prohibited.	2021 Special Provisions 416-3.04 pg. 454 417-3.04 pg. 489

26.		The contractor has provided daily documentation of the weight, determined by a calibrated or certified belt scale, and proportion of material from each individual RAP stockpile incorporated into the mix. The percent moisture content of the RAP material from each stockpile shall also be determined and provided daily by the contractor.	2021 Special Provisions 403-2 pg. 296 Arizona Test Method 105f
27.		Quantlist Minimum Frequency is being followed, one per week.	Construction Bulletin 07-01