|  |  |  |  |
| --- | --- | --- | --- |
| ***Sample for Local Agency QAPs*** | | | |
| **Sampling and Testing Frequency Table**  ***for projects OFF the SHS.*** | | | |
| **HOT MIX ASPHALT (HMA) / ASPHALT CONCRETE (AC)** | | | |
| **Quality Characteristic** | **Test Method** | **Minimum Sampling and Testing Frequency** | **Location/Time of Sampling** |
| Aggregate Gradation (Sieve) | CT 202 | 1 Per 1000 Tons or Part Thereof ; Minimum 1 per day during production/placement of at least 300 tons per day. | At Plant Per CT 125 (a) |
| Sand Equivalent | CT 217 |
| Asphalt Binder Content | CT 382 | Loose Mix Behind Paver Per CT 125 |
| In‐Place Density and Relative Compaction (Nuclear ) | Nuclear (b) | 1 Per 1000 Tons or Part Thereof ; Minimum 1 per day during production/placement of at least 300 tons per day. (b) | Random Locations Per CT 375 (c |
| CT 375 or ASTM D2950 (c |
| Theoretical Maximum Specific Gravity and Density (Rice) | CT 309 | 1 Per Day During Production/Placement of At Least 300 Tons Per Day | Loose Mix Behind Paver Per CT 125 |
| HMA Moisture Content | CT 226 or CT 370 |
| Stabilometer Value (d) | CT 366 |
| Asphalt Binder | Sample per Section 92 | Sample 1 min. per day for production over 300 tons per day; See  (f) regarding testing. | At Plant Per CT 125 |
| Smoothness | 12‐foot Straightedge | As necessary to confirm contract compliance. | Final Pavement Surface |

**Exhibit 16-R Sampling and Testing Frequency Table**

for projects OFF the SHS

1. Exact tonnage of sample location to be determined by Random Sampling Plans
2. Compaction determined by Neclear Density Device. Core testing required if compaction fails the neclear test (c) Correlation between core densities and nuclear device required only if compaction fails the nuclear test
3. Report the average of 3 tested briquettes from a single split source
4. Use CT 309 to determine maximum theoretical density in lieu of CT 367 calculated maximum theoretical density
5. No testing required unless warranted by concern ; sample and store until completion of project

|  |  |  |  |
| --- | --- | --- | --- |
| **SUBGRADE (DISTURBED BASEMENT SOIL) OR EMBANKMENT** | | | |
| **Quality Characteristic** | **Test Method** | **Minimum Sampling and Testing Frequency** | **Location/Time of Sampling** |
| Maximum Density and Relative Compaction | CT 216/CT 231 | 1 Min. Test per 5000 sq ft under vehicle traveled way and shoulder 1 Min. Test Per 300 linear foot under sidewalk | Random locations as determined by the Engineer in place after compaction. |

|  |  |  |  |
| --- | --- | --- | --- |
| **AGGREGATE BASES AND SUBBASES, IMPORTED BORROW** | | | |
| **Quality Characteristic** | **Test Method** | **Minimum Sampling and Testing Frequency** | **Location/Time of Sampling** |
| Sieve Analysis | CT 202 | 1 Min. Test Per Material Source | Sample from site stockpile/plant prior to placement. |
| R‐Value | CT 301 |
| Sand Equivalent | CT 217 |
| Maximum Density and Relative Compaction | CT 216/CT 231 | 1 Min. Test per 5000 sq ft | Random locations as determined by the Engineer in place after compaction. |

|  |  |  |  |
| --- | --- | --- | --- |
| **STRUCTURE BACKFILL, SELECT BACKFILL** | | | |
| **Quality Characteristic** | **Test Method** | **Minimum Sampling and Testing Frequency** | **Location/Time of Sampling** |
| Sieve Analysis | CT 202 | 1 Min. Test Per Material Source | Sample from site stockpile/plant prior to placement |
| R‐Value | CT 301 |
| Sand Equivalent | CT 217 |
| Maximum Density and Relative Compaction | CT 216/CT 231 | 1 Min. Test Per 2 Vertical Lifts of Placement | Random locations as determined by the Engineer in place after compaction. |

**PORTLAND CEMENT CONCRETE (PCC) ‐ STRUCTURAL AND SIGNAL/LIGHTING FOUNDATIONS**

|  |  |  |  |
| --- | --- | --- | --- |
| **COARSE AGGREGATE** |  | | |
| **Quality Characteristic** | **Test Method** | **Minimum Sampling and Testing Frequency** | **Location/Time of Sampling** |
| Sieve Analysis | CT 202 | 1 min. test per 500 cu yds and per each material source ; 1 min. test on smaller projects; If bridge, 1 min. set per separate pour per abutment/pier/deck. | Sample from site stockpile/plant prior to placement |
| Cleanness Value | CT 227 |

|  |  |  |  |
| --- | --- | --- | --- |
| **FINE AGGREGATE** |  | | |
| **Quality Characteristic** | **Test Method** | **Minimum Sampling and Testing Frequency** | **Location/Time of Sampling** |
| Sieve Analysis | CT 202 | 1 min. test per 500 cu yds and per each material source ; 1 min. test on smaller projects; If bridge, 1 min. set per separate pour per abutment/pier/deck. | Sample from site stockpile/plant prior to placement |
| Sand Equivalent | CT 217 |

|  |  |  |  |
| --- | --- | --- | --- |
| **WET MIX** |  | | |
| **Quality Characteristic** | **Test Method** | **Minimum Sampling and Testing Frequency** | **Location/Time of Sampling** |
| Slump/Penetration | CT 533 | 2 per day | Sample from truck/work site |
| Cylinders | CT 539/540 | 1 min. set of 3 per day; If bridge, 1 min. set per separate pour of abutment/pier/deck. |