OKLAHOMA DEPARTMENT OF TRANSPORTATION

SITEMANAGER SAMPLING FREQUENCY REPORT

DECEMBER 11, 2020

SiteManager was used to automate ODOT's Contract sampling and testing requirements by allowing the Materials Division to associate materials to the master pay item list items, assign conversion factors, tests and the desired (default) frequencies for those tests.

This high-end set up is frequently referred to as "Global Sampling/Testing Requirements" since it is as determined/programmed by the Materials Division and subsequently made the default on all Contracts by selecting any new Contract in SiteManager and performing the built-in "Materials Generation" process.

There is a safety net for master pay items that may have gotten past the Materials Division. Prior to "Materials Generation", an "Outstanding Item List" process is completed. It indicates all Contract Pay Items that do not have material requirements associated and gives the Materials Division one last chance to address them globally, make them the default, and apply the updated default to that specific Contract and all subsequent Contracts.

Where the old separate Sampling Frequency Guide (Sampling Guide) played a significant role in Materials Division establishing these default automated sampling and testing requirements (with adjustments required by a different system), once the defaults were established and automated, a separate guide document serves little purpose (other than to somewhat confuse the issue).

What is "ODOT's Process" as far as what materials they test, what tests they conduct and at what frequency they conduct those tests? That is most logically and accurately relayed now by a data report of their actual distinct "Global Requirements". This report looks at all materials/tests on all master pay items in the system and lists all distinctly different ways they were set up to default on all Contracts.

One question we've had before about this report is: Why for a given material/test is there sometimes more than one frequency? Typically the higher frequency is the oddity and would be caused by something like a huge drill shaft pay item for which the default frequency just was not practical at all so a higher one was decided. Another example would be for concrete used in structures or pavements. Although it is still concrete and the same tests, we test those 2 applications at 2 different frequencies.

Following is ODOT Materials Division's distinct "Global Requirements" report:

Oklahoma Department of Transportation

SiteManager Sampling Frequency Report

Specification Year: 1999

Material Code	Material Name	Spec. Ref.
acem001	**Asphaltic Cement Type PG 76-28 OK**	**708.03**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	MAT Materials Division	C91018	PG Asphalt Binder_Project Sample	1 per 100,000	GAL

Material Code	Material Name	Spec. Ref.
acem002	**Asphaltic Cement Type PG 70-28 OK**	**708.03**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	MAT Materials Division	C91018	PG Asphalt Binder_Project Sample	1 per 100,000	GAL

Material Code	Material Name	Spec. Ref.
acem003	**Asphaltic Cement Type PG 64-22 OK**	**708.03**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	MAT Materials Division	C91018	PG Asphalt Binder_Project Sample	1 per 100,000	GAL

Material Code	Material Name	Spec. Ref.
acem007	**Asphaltic Cement Type PG 76-28TR OK**	**TEMPORARY**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	MAT Materials Division	C91018	PG Asphalt Binder_Project Sample	1 per 100,000	GAL

Material Code	Material Name	Spec. Ref.
aggr001	**Aggregate Base Aggregate Type A**	**703.01**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	T27	Sieve Analysis of Fine and Coarse Aggregates	1 per 1,500	TON

Material Code	Material Name	Spec. Ref.
aggr011	**Eco Base/CTB Alt2 Aggregate, Combined**	**703.02**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C93004	Aggregate_Sand Equivalent T 176	1 per 50,000	TON
MAT Material	CRES Construction Residency	T27	Sieve Analysis of Fine and Coarse Aggregates	1 per 1,500	TON

Material Code	Material Name	Spec. Ref.
aggr012	**Eco Base/CTB Alt1 Aggregate, Fine**	**703.02**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	T27	Sieve Analysis of Fine and Coarse Aggregates	1 per 1,500	TON

Material Code	Material Name	Spec. Ref.
aggr013	**Eco Base/CTB Alt1 Aggregate, Coarse**	**703.02**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	T27	Sieve Analysis of Fine and Coarse Aggregates	1 per 1,500	TON

Material Code	Material Name	Spec. Ref.
aggr017	**Open Gr PC Conc Base Aggregate**	**703.03**

Sample Type	Acceptance Method	Test Method	Frequency

MAT Material	CRES Construction Residency	T27	Sieve Analysis of Fine and Coarse Aggregates	1 per 1,500	TON

Material Code	Material Name	Spec. Ref.
aggr019	**Cover Aggregate No 2**	**703.04**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	T27	Sieve Analysis of Fine and Coarse Aggregates	1 per 500	TON

Material Code	Material Name	Spec. Ref.
aggr021	**Cover Aggregate No 3C**	**703.04**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	T27	Sieve Analysis of Fine and Coarse Aggregates	1 per 500	TON

Material Code	Material Name	Spec. Ref.
aggr026	**TBSC Aggregate Type A**	**703.05**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	T27	Sieve Analysis of Fine and Coarse Aggregates	1 per 1,500	TON

Material Code	Material Name	Spec. Ref.
aggr028	**TBSC Aggregate Type C**	**703.05**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	T27	Sieve Analysis of Fine and Coarse Aggregates	1 per 1,500	TON

Material Code	Material Name	Spec. Ref.
aggr030	**TBSC Aggregate Type E**	**703.05**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	T27	Sieve Analysis of Fine and Coarse Aggregates	1 per 1,500	TON

Material Code	Material Name	Spec. Ref.
aggr031	**TBSC Aggregate Type F**	**703.05**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	T27	Sieve Analysis of Fine and Coarse Aggregates	1 per 1,500	TON

Material Code	Material Name	Spec. Ref.
aggr033	**Micro Surf Aggregate Type I, Mineral**	**707.02**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C93004	Aggregate_Sand Equivalent T 176	1 per 2,500	TON

Material Code	Material Name	Spec. Ref.
aggr034	**Micro Surf Aggregate Type II, Mineral**	**707.02**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C93004	Aggregate_Sand Equivalent T 176	1 per 2,500	TON

Material Code	Material Name	Spec. Ref.
aggr035	**Micro Surf Aggregate Type III, Mineral**	**707.02**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C93004	Aggregate_Sand Equivalent T 176	1 per 2,500	TON

Material Code	Material Name	Spec. Ref.
aggr042	**Granular Backfill Aggregate**	**703.07**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	T27	Sieve Analysis of Fine and Coarse Aggregates	1 per 500	CY

Material Code	Material Name		Spec. Ref.		
aggr048	**Pipe Underdrain, Filter Sand**		**703.06**		
Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	T27	Sieve Analysis of Fine and Coarse Aggregates	1 per 250	CY

Material Code	Material Name		Spec. Ref.		
aggr049	**Standard Bedding Matl Class C**		**703.08**		
Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C95001	Density and Moisture Content of Soil Agg by Nuke Meth	1 per 50	CY
MAT Material	CRES Construction Residency	T27	Sieve Analysis of Fine and Coarse Aggregates	1 per 500	CY

Material Code	Material Name		Spec. Ref.		
aggr051	**Pipe Underdrain Aggregate, Coarse**		**703.06**		
Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	T27	Sieve Analysis of Fine and Coarse Aggregates	1 per 250	CY

Material Code	Material Name		Spec. Ref.		
aggr054	**HC Conc Aggregate, Fine**		**701.05**		
Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	T27	Sieve Analysis of Fine and Coarse Aggregates	1 per 500	TON

Material Code	Material Name		Spec. Ref.		
aggr056	**HC Conc Aggregate No 67, Coarse**		**701.06**		
Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	T27	Sieve Analysis of Fine and Coarse Aggregates	1 per 500	TON

Material Code	Material Name		Spec. Ref.		
aggr057	**HC Conc Aggregate No 57, Coarse**		**701.06**		
Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	T27	Sieve Analysis of Fine and Coarse Aggregates	1 per 500	TON

Material Code	Material Name		Spec. Ref.		
aggr064	**Latex Mod Conc Aggregate, Combined**		**701.11**		
Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	T27	Sieve Analysis of Fine and Coarse Aggregates	1 per 500	TON

Material Code	Material Name		Spec. Ref.		
aggr078	**Subballast Aggregrate Type B**		**plan notes**		
Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C95001	Density and Moisture Content of Soil Agg by Nuke Meth	1 per 1,000	CY
MAT Material	CRES Construction Residency	T27	Sieve Analysis of Fine and Coarse Aggregates	1 per 1,000	CY

Material Code	Material Name		Spec. Ref.		
asco004	**Asphalt Concrete, Type S2 (PG 76-28 OK)**		**708**		
Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C93004	Aggregate_Sand Equivalent T 176	1 per 20,000	TON
MAT Material	MAT Materials Division	C93005	HMA TSR T 283	1 per 20,000	TON
MAT Material	CRES Construction Residency	C93015	HMA Sample	1 per 1,000	TON
MAT Material	CRES Construction Residency	C93016	HMA Density Test for Pavement Cores	1 per 1,000	TON

Material Code	Material Name	Spec. Ref.
asco005	**Asphalt Concrete, Type S2 (PG 70-28 OK)**	**708**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C93004	Aggregate_Sand Equivalent T 176	1 per 20,000	TON
MAT Material	MAT Materials Division	C93005	HMA TSR T 283	1 per 20,000	TON
MAT Material	CRES Construction Residency	C93015	HMA Sample	1 per 1,000	TON
MAT Material	CRES Construction Residency	C93016	HMA Density Test for Pavement Cores	1 per 1,000	TON

Material Code	Material Name	Spec. Ref.
asco006	**Asphalt Concrete, Type S2 (PG 64-22 OK)**	**708**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C93004	Aggregate_Sand Equivalent T 176	1 per 20,000	TON
MAT Material	MAT Materials Division	C93005	HMA TSR T 283	1 per 20,000	TON
MAT Material	CRES Construction Residency	C93015	HMA Sample	1 per 1,000	TON
MAT Material	CRES Construction Residency	C93016	HMA Density Test for Pavement Cores	1 per 1,000	TON

Material Code	Material Name	Spec. Ref.
asco007	**Asphalt Concrete, Type S3 (PG 76-28 OK)**	**708**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C93004	Aggregate_Sand Equivalent T 176	1 per 20,000	TON
MAT Material	MAT Materials Division	C93005	HMA TSR T 283	1 per 20,000	TON
MAT Material	CRES Construction Residency	C93015	HMA Sample	1 per 1,000	TON
MAT Material	CRES Construction Residency	C93016	HMA Density Test for Pavement Cores	1 per 1,000	TON

Material Code	Material Name	Spec. Ref.
asco008	**Asphalt Concrete, Type S3 (PG 70-28 OK)**	**708**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C93004	Aggregate_Sand Equivalent T 176	1 per 20,000	TON
MAT Material	MAT Materials Division	C93005	HMA TSR T 283	1 per 20,000	TON
MAT Material	CRES Construction Residency	C93015	HMA Sample	1 per 1,000	TON
MAT Material	CRES Construction Residency	C93016	HMA Density Test for Pavement Cores	1 per 1,000	TON

Material Code	Material Name	Spec. Ref.
asco009	**Asphalt Concrete, Type S3 (PG 64-22 OK)**	**708**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C93004	Aggregate_Sand Equivalent T 176	1 per 20,000	TON
MAT Material	MAT Materials Division	C93005	HMA TSR T 283	1 per 20,000	TON
MAT Material	CRES Construction Residency	C93015	HMA Sample	1 per 1,000	TON
MAT Material	CRES Construction Residency	C93016	HMA Density Test for Pavement Cores	1 per 1,000	TON

Material Code	Material Name	Spec. Ref.
asco010	**Asphalt Concrete, Type S4 (PG 76-28 OK)**	**708**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C93004	Aggregate_Sand Equivalent T 176	1 per 20,000	TON
MAT Material	MAT Materials Division	C93005	HMA TSR T 283	1 per 20,000	TON
MAT Material	CRES Construction Residency	C93015	HMA Sample	1 per 1,000	TON
MAT Material	CRES Construction Residency	C93016	HMA Density Test for Pavement Cores	1 per 1,000	TON

Material Code	Material Name	Spec. Ref.
asco011	**Asphalt Concrete, Type S4 (PG 70-28 OK)**	**708**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C93004	Aggregate_Sand Equivalent T 176	1 per 20,000	TON

MAT Material	MAT Materials Division	C93005	HMA TSR T 283	1	per 20,000	TON
MAT Material	CRES Construction Residency	C93015	HMA Sample	1	per 1,000	TON
MAT Material	CRES Construction Residency	C93016	HMA Density Test for Pavement Cores	1	per 1,000	TON

Material Code	Material Name	Spec. Ref.
asco012	**Asphalt Concrete, Type S4 (PG 64-22 OK)**	**708**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C93004	Aggregate_Sand Equivalent T 176	1 per 20,000	TON
MAT Material	MAT Materials Division	C93005	HMA TSR T 283	1 per 20,000	TON
MAT Material	CRES Construction Residency	C93015	HMA Sample	1 per 1,000	TON
MAT Material	CRES Construction Residency	C93016	HMA Density Test for Pavement Cores	1 per 1,000	TON

Material Code	Material Name	Spec. Ref.
asco013	**Asphalt Concrete, Type S5 (PG 76-28 OK)**	**708**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C93004	Aggregate_Sand Equivalent T 176	1 per 20,000	TON
MAT Material	MAT Materials Division	C93005	HMA TSR T 283	1 per 20,000	TON
MAT Material	CRES Construction Residency	C93015	HMA Sample	1 per 1,000	TON
MAT Material	CRES Construction Residency	C93016	HMA Density Test for Pavement Cores	1 per 1,000	TON

Material Code	Material Name	Spec. Ref.
asco014	**Asphalt Concrete, Type S5 (PG 70-28 OK)**	**708**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C93004	Aggregate_Sand Equivalent T 176	1 per 20,000	TON
MAT Material	MAT Materials Division	C93005	HMA TSR T 283	1 per 20,000	TON
MAT Material	CRES Construction Residency	C93015	HMA Sample	1 per 1,000	TON
MAT Material	CRES Construction Residency	C93016	HMA Density Test for Pavement Cores	1 per 1,000	TON

Material Code	Material Name	Spec. Ref.
asco015	**Asphalt Concrete, Type S5 (PG 64-22 OK)**	**708**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C93004	Aggregate_Sand Equivalent T 176	1 per 20,000	TON
MAT Material	MAT Materials Division	C93005	HMA TSR T 283	1 per 20,000	TON
MAT Material	CRES Construction Residency	C93015	HMA Sample	1 per 1,000	TON
MAT Material	CRES Construction Residency	C93016	HMA Density Test for Pavement Cores	1 per 1,000	TON

Material Code	Material Name	Spec. Ref.
asco018	**Asphalt Concrete, Type S6 (PG 64-22 OK)**	**708**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C93004	Aggregate_Sand Equivalent T 176	1 per 20,000	TON
MAT Material	MAT Materials Division	C93005	HMA TSR T 283	1 per 20,000	TON
MAT Material	CRES Construction Residency	C93015	HMA Sample	1 per 1,000	TON
MAT Material	CRES Construction Residency	C93016	HMA Density Test for Pavement Cores	1 per 1,000	TON

Material Code	Material Name	Spec. Ref.
asco023	**Asphalt Concrete, Type OGBB**	**708**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	T30	Mechanical Analysis of Extracted Aggregate	1 per 1,000	TON

Material Code	Material Name	Spec. Ref.
asco024	**Asphalt Concrete, Type OGFSC**	**708**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	T30	Mechanical Analysis of Extracted Aggregate	1 per 1,000	TON

Material Code	Material Name	Spec. Ref.
asco027	**Asphalt Concrete, Type 1/2" SMA**	**708**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	MAT Materials Division	C93005	HMA TSR T 283	1 per 20,000	TON
MAT Material	CRES Construction Residency	C93015	HMA Sample	1 per 1,000	TON
MAT Material	CRES Construction Residency	C93016	HMA Density Test for Pavement Cores	1 per 1,000	TON

Material Code	Material Name	Spec. Ref.
asco029	**Asphalt Concrete, Type 1/2" PFC**	**708**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C93015	HMA Sample	1 per 1,000	TON

Material Code	Material Name	Spec. Ref.
asco030	**Asphalt Concrete, Micro Surf, Type I**	**707**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C93013	Asphalt Binder Content by Ignition	1 per 500	TON
MAT Material	CRES Construction Residency	T30	Mechanical Analysis of Extracted Aggregate	1 per 500	TON

Material Code	Material Name	Spec. Ref.
asco031	**Asphalt Concrete, Micro Surf, Type II**	**707**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C93013	Asphalt Binder Content by Ignition	1 per 500	TON
MAT Material	CRES Construction Residency	T30	Mechanical Analysis of Extracted Aggregate	1 per 500	TON

Material Code	Material Name	Spec. Ref.
asco032	**Asphalt Concrete, Micro Surf, Type III**	**707**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C93013	Asphalt Binder Content by Ignition	1 per 500	TON
MAT Material	CRES Construction Residency	T30	Mechanical Analysis of Extracted Aggregate	1 per 500	TON

Material Code	Material Name	Spec. Ref.
asco038	**Asphalt Concrete, UTBWC, Type C**	**707**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	T30	Mechanical Analysis of Extracted Aggregate	1 per 1,320	TON

Material Code	Material Name	Spec. Ref.
asph009	**Asphalt, Emulsified, Type MS-2**	**708.03**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	MAT Materials Division	C91006	Emulsified Asphalt_Project Sample	1 per 100,000	GAL

Material Code	Material Name	Spec. Ref.
asph021	**Asphalt, Emulsified, Type PMCSS-1H**	**708.03**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	MAT Materials Division	C91006	Emulsified Asphalt_Project Sample	1 per 10,000	GAL

Material Code	Material Name	Spec. Ref.
asph024	**Asphalt, Emulsified, Type PMCRS-1S**	**708.03**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	MAT Materials Division	C91006	Emulsified Asphalt_Project Sample	1 per 100,000	GAL

Material Code	Material Name		Spec. Ref.		
asph029	**Asphalt, Emulsified, Type ARA-1P**		**SP**		
Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	MAT Materials Division	C91005	Emulsified Asphalt_QM Sample	1 per 20,000	GAL

Material Code	Material Name		Spec. Ref.		
base001	**Aggregate Base (98% Compaction)**		**303**		
Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C95001	Density and Moisture Content of Soil Agg by Nuke Meth	1 per 800	CY

Material Code	Material Name		Spec. Ref.		
base008	**Subgrade Method B**		**310.04(B)**		
Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C95001	Density and Moisture Content of Soil Agg by Nuke Meth	1 per 2,500	SY

Material Code	Material Name		Spec. Ref.		
base009	**Existing Base and Surface**		**311**		
Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C95001	Density and Moisture Content of Soil Agg by Nuke Meth	1 per 10	STA

Material Code	Material Name		Spec. Ref.		
base010	**Stabilized Subgrade**		**307**		
Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C95001	Density and Moisture Content of Soil Agg by Nuke Meth	1 per 2,500	SY

Material Code	Material Name		Spec. Ref.		
base011	**Econo Base**		**318**		
Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C94014	Compressive Strength of Concrete Cylinders	1 per 5,000	SY
MAT Material	CRES Construction Residency	C94025	Fresh Concrete Tests	1 per 5,000	SY

Material Code	Material Name		Spec. Ref.		
base013	**Open Gr PC Conc Base**		**319**		
Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C95003	In Place Density of OGPCCB by Nuclear Method	1 per 2,500	SY

Material Code	Material Name		Spec. Ref.		
base016	**Recycled Asphalt Base**		**SP-5/4/06**		
Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C95001	Density and Moisture Content of Soil Agg by Nuke Meth	1 per 2,500	SY

Material Code	Material Name		Spec. Ref.		
base017	**Cement Treated Base (CTB)**		**317**		
Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C95004	CTB Tests on Field Molded Specimens	1 per 10,000	SY
MAT Material	CRES Construction Residency	C95005	In Place Density of Cement Treated Base by Nuclear Methods	1 per 2,500	SY

Material Code	Material Name		Spec. Ref.		
bric003	**Brick, Concrete, Building**		**714.02**		
Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	MAT Materials Division	C94001	Concrete Brick _Physical Test	1 per 100,000	EACH

Material Code	Material Name	Spec. Ref.
ckds001	**Cement Kiln Dust (CKD)**	**702.03**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 1,000	TON

Material Code	Material Name	Spec. Ref.
cure001	**Liquid Membrane Curing Compound**	**701.07(C)**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 2,500	GAL

Material Code	Material Name	Spec. Ref.
drai017	**Corrugated Metal Pipe (CMP)**	**726.02**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 250	LF
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 250	EACH

Material Code	Material Name	Spec. Ref.
drai028	**Corrug. Polyethylene/Polypropylene Pipe**	**726.02**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 1,000	LF

Material Code	Material Name	Spec. Ref.
elec005	**Elect Wire/Cable, Building/Highway Light**	**738.02**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5011	Acceptance Form for Bldg or Hwy Lighting Electric Wire	1 per 5,000	LF

Material Code	Material Name	Spec. Ref.
elec007	**Elect Cable, Communication**	**738.03**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5012	Acceptance of Communication Electric Cable	1 per 5,000	LF

Material Code	Material Name	Spec. Ref.
elec008	**Elect Cable, Traffic Signal**	**738.01**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5008	Acceptance of Traffic Signal Electric Cable	1 per 5,000	LF

Material Code	Material Name	Spec. Ref.
elec009	**Elect Wire, Traffic Signal Wire**	**738.01**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5010	Acceptance of Dectector Loop Wire	1 per 5,000	LF

Material Code	Material Name	Spec. Ref.
elec014	**Elect Cable, Loop Detector Lead-in**	**738.01**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5009	Acceptance of Shielded Loop Detector Lead In Cable	1 per 5,000	LF

Material Code	Material Name	Spec. Ref.
ewrk001	**Earthwork, Select Borrow**	**202**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C95001	Density and Moisture Content of Soil Agg by Nuke Meth	1 per 2,000	CY

Material Code	Material Name	Spec. Ref.
ewrk002	**Earthwork, Excavation/Embankment**	**202**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C95001	Density and Moisture Content of Soil Agg by Nuke Meth	1 per 2,000	CY

Material Code	Material Name	Spec. Ref.
ewrk003	**Earthwork, Trench Backfill**	**613.04**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C95001	Density and Moisture Content of Soil Agg by Nuke Meth	1 per 250	LF

Material Code	Material Name	Spec. Ref.
ewrk004	**Earthwork, Machine Grading**	**209**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C95001	Density and Moisture Content of Soil Agg by Nuke Meth	1 per 25	STA

Material Code	Material Name	Spec. Ref.
ewrk009	**Earthwork, Structure Excav & Backfill**	**501**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C95001	Density and Moisture Content of Soil Agg by Nuke Meth	1 per 2,000	CY

Material Code	Material Name	Spec. Ref.
fabr001	**Fabric Reinf for Asphalt Concrete Pvmt**	**712.01**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 50,000	SY

Material Code	Material Name	Spec. Ref.
fabr002	**Fabric, Permanent Erosion Control**	**712.02**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 5,000	SY

Material Code	Material Name	Spec. Ref.
fabr005	**Fabric, Separator for Bases**	**712.05**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 50,000	SY

Material Code	Material Name	Spec. Ref.
fabr006	**Fabric, Silt Fence Filter**	**712.06**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 5,000	LF

Material Code	Material Name	Spec. Ref.
fabr010	**Geogrid**	**712.07**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 5,000	SY

Material Code	Material Name	Spec. Ref.
fabr013	**Fabric, Separator for Bond Breaker**	**317.02**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 50,000	SY

Material Code	Material Name	Spec. Ref.
fenc002	**Fence Wire, Woven, Zinc Coated**	**732.06**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	MAT Materials Division	C92013	Fence_Woven Wire	1 per 16,500	LF

Material Code	Material Name	Spec. Ref.
fenc004	**Fence Wire, Barbed**	**732.06**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	MAT Materials Division	C92010	Fence_Barbed Wire	1 per 66,000	LF

Material Code	Material Name	Spec. Ref.
fenc007	**Fence Wire, Barbless, Zinc Coated**	**732.06**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	MAT Materials Division	C92011	Fence_Barbless Wire	1 per 66,000	LF

Material Code	Material Name	Spec. Ref.
fenc009	**Fence Posts, Steel**	**732.06**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	MAT Materials Division	C92012	Fence_T Post	1 per 1,000	EACH

Material Code	Material Name	Spec. Ref.
fenc011	**Fence Wire, Tie**	**732.06**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	MAT Materials Division	C92040	Post Ties for SWF and WWF	1 per 1,000,000	EACH

Material Code	Material Name	Spec. Ref.
fenc016	**Fence Wire, Chain Link Fabric**	**732.07**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	MAT Materials Division	C92015	Fence_CLF Fabric	1 per 5,000	LF

Material Code	Material Name	Spec. Ref.
fenc017	**Fence Wire, Chain Link Tension**	**732.07**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	MAT Materials Division	C92014	Fence_Tension Wire	1 per 1,000,000	LF

Material Code	Material Name	Spec. Ref.
fenc018	**Fence Wire, Chain Link Tie**	**732.07**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	MAT Materials Division	C92048	Post Ties for Chain Link Fence (CLF)	1 per 1,000,000	EACH
MAT Material	MAT Materials Division	C92048	Post Ties for Chain Link Fence (CLF)	1 per 100,000	EACH

Material Code	Material Name	Spec. Ref.
fenc019	**Fence Posts, Chain Link Support**	**732.07**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	MAT Materials Division	C92016	Fence_CLF Support Posts	1 per 1,000	EACH

Material Code	Material Name	Spec. Ref.
fenc020	**Fence Posts, Chain Link Line**	**732.07**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	MAT Materials Division	C92017	Fence_CLF Line Post	1 per 1,000	EACH

Material Code	Material Name	Spec. Ref.
fenc021	**Fence Rail, Chain Link, Top or Brace**	**732.07**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	MAT Materials Division	C92018	Fence_CLF Brace and Top Rails	1 per 1,000,000	LF

Material Code	Material Name	Spec. Ref.
fenc033	**Fence Wire, Tension**	**732.06**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	MAT Materials Division	C92014	Fence_Tension Wire	1 per 1,000,000	IUC

Material Code	Material Name	Spec. Ref.
lime002	**Lime, Quick**	**706.02**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	MAT Materials Division	C92001	Quick Lime_Lab Analysis	1 per 250	TON

Material Code	Material Name	Spec. Ref.
pcco001	**HC Conc Class AA(AE)**	**701.01**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C94014	Compressive Strength of Concrete Cylinders	1 per 70	CY
MAT Material	CRES Construction Residency	C94014	Compressive Strength of Concrete Cylinders	1 per 150	CY
MAT Material	CRES Construction Residency	C94025	Fresh Concrete Tests	1 per 35	CY
MAT Material	CRES Construction Residency	C94025	Fresh Concrete Tests	1 per 75	CY

Material Code	Material Name	Spec. Ref.
pcco002	**HC Conc Class A (AE)**	**701.01**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C94014	Compressive Strength of Concrete Cylinders	1 per 2,500	CY
MAT Material	CRES Construction Residency	C94014	Compressive Strength of Concrete Cylinders	1 per 70	CY
MAT Material	CRES Construction Residency	C94025	Fresh Concrete Tests	1 per 35	CY
MAT Material	CRES Construction Residency	C94025	Fresh Concrete Tests	1 per 2,500	CY

Material Code	Material Name	Spec. Ref.
pcco004	**HC Conc Class C(AE)**	**701.01**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C94014	Compressive Strength of Concrete Cylinders	1 per 70	CY
MAT Material	CRES Construction Residency	C94025	Fresh Concrete Tests	1 per 35	CY

Material Code	Material Name	Spec. Ref.
pcco007	**HC Conc, Latex Modified - LMC**	**701.11**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	CRES Construction Residency	C94014	Compressive Strength of Concrete Cylinders	1 per 70	CY
MAT Material	CRES Construction Residency	C94025	Fresh Concrete Tests	1 per 35	CY

Material Code	Material Name	Spec. Ref.
pcco008	**HC Conc, Cont Low Strngth Matl - CLSM**	**701.19**

Sample Type	Acceptance Method	Test Method		Frequency	
MAT Material	MAT Materials Division	C94004	CLSM_Compressive Strength	1 per 50	CY

Material Code	Material Name	Spec. Ref.
pcco017	**Open Gr PC Conc Base - Mix**	**319.04(C)**

Sample Type	Acceptance Method	Test Method	Frequency

MAT Material	CRES Construction Residency	C94045	Density Unit Weight of Concrete	1 per 20,000	SY

Material Code	Material Name	Spec. Ref.
qual001	**HC Conc Admixture, Liquid**	**701.03**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 10,000	IUC

Material Code	Material Name	Spec. Ref.
qual002	**Hydraulic Cement**	**701.02**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 1,000	TON

Material Code	Material Name	Spec. Ref.
qual003	**Fly Ash**	**702.01**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 1,000	TON
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 10,000	IUC
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 10,000	TON

Material Code	Material Name	Spec. Ref.
qual004	**Prestressed Concrete Bridge Item**	**503**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5002	Acceptance of Pre Delivery Inspected	1 per 10,000	LF
DOC Document	CRES Construction Residency	AM5002	Acceptance of Pre Delivery Inspected	1 per 10,000	EACH

Material Code	Material Name	Spec. Ref.
qual005	**Fabricated Structural Steel Item**	**724**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5002	Acceptance of Pre Delivery Inspected	1 per 1,000,000	LB
DOC Document	CRES Construction Residency	AM5002	Acceptance of Pre Delivery Inspected	1 per 10,000	LB

Material Code	Material Name	Spec. Ref.
qual007	**Gray Iron Castings**	**725.03**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5004	Acceptance of Iron Castings	1 per 50	EACH

Material Code	Material Name	Spec. Ref.
qual008	**Reinforced Concrete Pipe**	**726.01**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5002	Acceptance of Pre Delivery Inspected	1 per 250	IUC

Material Code	Material Name	Spec. Ref.
qual010	**Cut-Back Asphalt**	**708.03**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 100,000	GAL

Material Code	Material Name	Spec. Ref.
qual011	**Emulsified Asphalt**	**708.03**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 100,000	GAL

Material Code	Material Name	Spec. Ref.
qual012	**Bar Steel Reinforcement, Billet-Mill**	**723.01**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5005	Acceptance of Reinforcing Steel	1 per 1,000,000	LB

Material Code	Material Name	Spec. Ref.
qual021	**Fabricated Reinforcing Steel Item**	**723**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5005	Acceptance of Reinforcing Steel	1 per 1,000,000	LB
DOC Document	CRES Construction Residency	AM5005	Acceptance of Reinforcing Steel	1 per 10,000	LB

Material Code	Material Name	Spec. Ref.
qual022	**Epoxy Coated Reinforcing Steel**	**723**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5005	Acceptance of Reinforcing Steel	1 per 1,000,000	LB
DOC Document	CRES Construction Residency	AM5005	Acceptance of Reinforcing Steel	1 per 1,000,000	IUC

Material Code	Material Name	Spec. Ref.
qual024	**Precast Concrete Box**	**508**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5002	Acceptance of Pre Delivery Inspected	1 per 250	LF

Material Code	Material Name	Spec. Ref.
qual025	**Precast Concrete Arch Structure**	**508**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5002	Acceptance of Pre Delivery Inspected	1 per 10,000	LF

Material Code	Material Name	Spec. Ref.
qual027	**Precast Concrete Wall**	**510**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5002	Acceptance of Pre Delivery Inspected	1 per 2,500	SY

Material Code	Material Name	Spec. Ref.
seal009	**Jt. Sealant, Silicone, Low Mod (Slf Lvl)**	**701.08(F)**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 100	GAL

Material Code	Material Name	Spec. Ref.
seal010	**Jt. Sealant, Rapid Cure**	**701.08(G)**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 10,000	IUC

Material Code	Material Name	Spec. Ref.
seal011	**Elastomeric Mortar**	**701.08(G)**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 1,000	CF

Material Code	Material Name	Spec. Ref.
seal014	**HC Conc Penetrating Water Repellent**	**701.12**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 2,000	SY

MAT Material	MAT Materials Division	C94005	Penetrating Water Repellent Treatment_Penetration Analysis	1 per 2,000	SY
MAT Material	MAT Materials Division	C94006	Penetrating Water Repellent Treatment_Absorption	1 per 2,000	SY

Material Code: **seal022** Material Name: **Epoxy Bridge Deck Sealer, Types K,L** Spec. Ref.: **70113B1011**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 110	GAL
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 100	GAL

Material Code: **seal024** Material Name: **Epoxy for Injection, Type D** Spec. Ref.: **701.13B4**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 100	GAL

Material Code: **side010** Material Name: **Seeding Materials** Spec. Ref.: **735.03**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5007	Acceptance of Material by Visual Inspection	1 per 1	TON

Material Code: **side019** Material Name: **Fertilizer** Spec. Ref.: **735.06**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5007	Acceptance of Material by Visual Inspection	1 per 30	TON
DOC Document	CRES Construction Residency	AM5007	Acceptance of Material by Visual Inspection	1 per 10,000	TON

Material Code: **side020** Material Name: **Silt Dike - Triangular** Spec. Ref.: **735.07**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 5,000	LF

Material Code: **sstl002** Material Name: **Steel Welding, Field** Spec. Ref.: **724.03**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	C94043	Documenting Field Welding	1 per 1,000,000	IUC
DOC Document	CRES Construction Residency	C94043	Documenting Field Welding	1 per 100,000	IUC

Material Code: **ston001** Material Name: **Riprap Stone** Spec. Ref.: **713.01**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 10,000	TON

Material Code: **ston004** Material Name: **Gabion Fill Stone** Spec. Ref.: **713.03**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5001	Acceptance of Pre Approved Products	1 per 10,000	TON

Material Code: **ston008** Material Name: **Filter Blanket Stone, 1 Course Backing** Spec. Ref.: **713.02**

Sample Type	Acceptance Method	Test Method		Frequency	
DOC Document	CRES Construction Residency	AM5006	Acceptance of Material by Type A Certification	1 per 10,000	TON