

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS REPORT - 2018**

Vendor: J.H. LYNCH Lab No: 20180006
Source: FIRST ST. QUARRY Location: CUMBERLAND, RI

Sieve Analysis of Coarse Aggregate

AASHTO T-27

% Passing

	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	99.2	13.9	3.6	1.8	1.6
CA Size:1/2	100.0	100.0	100.0	100.0	82.3	19.7	1.5	1.2
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	97.1	23.3	4.3
CA Size:								

Unit Weight and Void in Aggregate

AASHTO T-19

Compacted

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)			96.04	97.36	98.65

Loose

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine **AASHTO T-96**

Run # 1	LA Type	LA Result
	B	13.58

Specific Gravity and Absorption of Coarse Aggregate

AASHTO T-85

Nominal Aggregate Size:	#4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.728	2.754	2.786		
Specific Gravity (SSD):		2.746	2.768	2.796		
Apparent Specific Gravity:		2.779	2.793	2.815		
Absorption:		0.677	0.508	0.363		

Soundness of Aggregate by Use of Sodium Sulfate

AASHTO T-104

Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - #4	#4 - #8
% Loss:				0.34	0.36		

Amount of Material Finer than # 200 Sieve in Aggregate **AASHTO T-11**

Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	#4
% Passing # 200 sieve						

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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COARSE AGGREGATE ANALYSIS REPORT - 2018**

Vendor: PJ KEATING Lab No: 20180009
Source: PHENIX AVENUE QUARRY Location: CRANSTON, RI

Sieve Analysis of Coarse Aggregate

AASHTO T-27

% Passing	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	98.0	42.9	13.9	3.3	2.2
CA Size:1/2	100.0	100.0	100.0	100.0	86.2	21.6	1.4	0.9
CA Size:3/8	100.0	100.0	100.0	100.0	99.8	92.4	25.2	7.4
CA Size:								

Unit Weight and Void in Aggregate

AASHTO T-19

Compacted	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)			99.58	96.41	99.75
Loose	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine **AASHTO T-96**

Run #	LA Type	LA Result
1	B	26.39

Specific Gravity and Absorption of Coarse Aggregate

AASHTO T-85

Nominal Aggregate Size:	#4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.814	2.814	2.780		
Specific Gravity (SSD):		2.838	2.834	2.795		
Apparent Specific Gravity:		2.883	2.873	2.822		
Absorption:		0.846	0.740	0.542		

Soundness of Aggregate by Use of Sodium Sulfate

AASHTO T-104

Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - #4	#4 - #8
% Loss:				0.12	0.12		

Amount of Material Finer than # 200 Sieve in Aggregate **AASHTO T-11**

Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	#4
% Passing # 200 sieve						

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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COARSE AGGREGATE ANALYSIS REPORT - 2018**

Vendor: MATERIALS S and S Lab No: 20180012
Source: POUND HILL RD. QUARRY Location: N. SMITHFIELD, RI

Sieve Analysis of Coarse Aggregate

AASHTO T-27

% Passing

	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	77.3	4.4	1.2	0.8	0.8
CA Size:1/2	100.0	100.0	100.0	99.8	95.8	16.7	1.6	1.3
CA Size:3/8	100.0	100.0	100.0	100.0	99.9	92.3	7.3	1.5
CA Size:								

Unit Weight and Void in Aggregate

AASHTO T-19

Compacted

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)			93.35	89.49	91.27

Loose

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine **AASHTO T-96**

Run # 1	LA Type	LA Result
	B	28.38

Specific Gravity and Absorption of Coarse Aggregate

AASHTO T-85

Nominal Aggregate Size:	#4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.612	2.613	2.610		
Specific Gravity (SSD):		2.628	2.630	2.622		
Apparent Specific Gravity:		2.656	2.659	2.643		
Absorption:		0.628	0.667	0.488		

Soundness of Aggregate by Use of Sodium Sulfate

AASHTO T-104

Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - #4	#4 - #8
% Loss:				0.07	0.15		

Amount of Material Finer than # 200 Sieve in Aggregate **AASHTO T-11**

Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	#4
% Passing # 200 sieve						

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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Vendor:	<u>DRY BRIDGE S and S</u>	Lab No:	<u>20180013</u>
Source:	<u>SLOCUM PIT</u>	Location:	<u>NORTH KINGSTOWN, RI</u>

Sieve Analysis of Coarse Aggregate		AASHTO T-27						
% Passing	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	98.8	67.7	4.4	2.2	1.7	1.5
CA Size:1/2	100.0	100.0	50.0	49.8	31.8	6.0	0.9	0.7
CA Size:3/8	100.0	100.0	100.0	100.0	99.9	91.8	33.7	5.9
CA Size:								

Unit Weight and Void in Aggregate		AASHTO T-19				
Compacted	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)			95.39	92.61	98.83
Loose	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine		AASHTO T-96
Run # 1	LA Type	LA Result
1	B	36.33

Specific Gravity and Absorption of Coarse Aggregate		AASHTO T-85				
Nominal Aggregate Size:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.627	2.629	2.630		
Specific Gravity (SSD):		2.652	2.649	2.648		
Apparent Specific Gravity:		2.694	2.683	2.677		
Absorption:		0.950	0.770	0.665		

Soundness of Aggregate by Use of Sodium Sulfate		AASHTO T-104					
Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - # 4	# 4 - # 8
% Loss:				0.07	0.36		

Amount of Material Finer than # 200 Sieve in Aggregate		AASHTO T-11				
Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	# 4
% Passing # 200 sieve						

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Vendor: LYNCH - TIVERTON Lab No: 20180017
Source: FISH ROAD QUARRY Location: TIVERTON, RI

Sieve Analysis of Coarse Aggregate

AASHTO T-27

% Passing	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	98.1	24.1	4.5	1.6	1.4
CA Size:1/2	100.0	100.0	100.0	100.0	84.7	25.3	4.1	2.7
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	97.8	23.0	3.8
CA Size:								

Unit Weight and Void in Aggregate

AASHTO T-19

Compacted	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)			93.77	93.85	94.23
Loose	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine **AASHTO T-96**

Run #	LA Type	LA Result
1	B	36.18

Specific Gravity and Absorption of Coarse Aggregate

AASHTO T-85

Nominal Aggregate Size:	#4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.606	2.619	2.609		
Specific Gravity (SSD):		2.628	2.637	2.626		
Apparent Specific Gravity:		2.664	2.667	2.653		
Absorption:		0.837	0.685	0.640		

Soundness of Aggregate by Use of Sodium Sulfate

AASHTO T-104

Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - #4	#4 - #8
% Loss:				0.07	0.12		

Amount of Material Finer than # 200 Sieve in Aggregate **AASHTO T-11**

Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	#4
% Passing # 200 sieve						

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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COARSE AGGREGATE ANALYSIS REPORT - 2018**

Vendor:	<u>PJ KEATING</u>	Lab No:	<u>20180021</u>
Source:	<u>SOUTH MAIN ST. QUARRY</u>	Location:	<u>ACUSHNET, MA</u>

Sieve Analysis of Coarse Aggregate		AASHTO T-27						
% Passing	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	99.8	34.8	7.8	2.9	2.5
CA Size:1/2	100.0	100.0	100.0	100.0	82.2	22.8	3.9	2.9
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	93.6	29.4	7.2
CA Size:								

Unit Weight and Void in Aggregate		AASHTO T-19				
Compacted	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)			98.45	97.26	99.32
Loose	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine		AASHTO T-96
Run # 1	LA Type	LA Result
1	B	20.01

Specific Gravity and Absorption of Coarse Aggregate		AASHTO T-85				
Nominal Aggregate Size:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.646	2.668	2.696		
Specific Gravity (SSD):		2.666	2.688	2.709		
Apparent Specific Gravity:		2.699	2.722	2.733		
Absorption:		0.743	0.739	0.499		

Soundness of Aggregate by Use of Sodium Sulfate		AASHTO T-104					
Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - # 4	# 4 - # 8
% Loss:				0.27	0.15		

Amount of Material Finer than # 200 Sieve in Aggregate		AASHTO T-11				
Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	# 4
% Passing # 200 sieve						

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Vendor: J.S. LANE & SON - WESTFIELD Lab No: 20180025
Source: WESTFIELD QUARRY Location: WESTFIELD, MA

Sieve Analysis of Coarse Aggregate

AASHTO T-27

% Passing

	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	98.4	43.7	22.6	2.2	0.6
CA Size:1/2	100.0	100.0	100.0	100.0	77.7	19.0	1.3	0.7
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	95.6	24.7	2.4
CA Size:								

Unit Weight and Void in Aggregate

AASHTO T-19

Compacted

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)			102.43	103.17	102.79

Loose

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine **AASHTO T-96**

Run #	LA Type	LA Result
1	B	11.01

Specific Gravity and Absorption of Coarse Aggregate

AASHTO T-85

Nominal Aggregate Size:	#4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.912	2.932	2.904		
Specific Gravity (SSD):		2.945	2.957	2.932		
Apparent Specific Gravity:		3.013	3.006	2.987		
Absorption:		1.154	0.836	0.950		

Soundness of Aggregate by Use of Sodium Sulfate

AASHTO T-104

Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - #4	#4 - #8
% Loss:				0.39	0.45		

Amount of Material Finer than # 200 Sieve in Aggregate **AASHTO T-11**

Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	#4
% Passing # 200 sieve						

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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Vendor: <u>CHERENZIA</u>	Lab No: <u>20180029</u>
Source: <u>OLD HOPKINTON RD.</u>	Location: <u>WESTERLY, RI</u>

Sieve Analysis of Coarse Aggregate		AASHTO T-27						
% Passing	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	97.4	6.2	1.4	0.9	0.7
CA Size:1/2	100.0	100.0	100.0	100.0	80.1	19.9	4.2	2.5
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	90.8	15.6	5.0
CA Size:								

Unit Weight and Void in Aggregate		AASHTO T-19				
Compacted	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)			90.20	92.51	94.52
Loose	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine		AASHTO T-96
Run # 1	LA Type	LA Result
1	B	29.82

Specific Gravity and Absorption of Coarse Aggregate		AASHTO T-85				
Nominal Aggregate Size:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.618	2.612	2.618		
Specific Gravity (SSD):		2.635	2.630	2.629		
Apparent Specific Gravity:		2.664	2.660	2.647		
Absorption:		0.672	0.689	0.424		

Soundness of Aggregate by Use of Sodium Sulfate		AASHTO T-104					
Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - # 4	# 4 - # 8
% Loss:				0.06	0.21		

Amount of Material Finer than # 200 Sieve in Aggregate		AASHTO T-11					
Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	# 4	
% Passing # 200 sieve							

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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COARSE AGGREGATE ANALYSIS REPORT - 2018**

Vendor: SOUTH COUNTY S and G Lab No: 20180031
Source: CHARLESTOWN PIT Location: CHARLESTOWN, RI

Sieve Analysis of Coarse Aggregate

AASHTO T-27

% Passing

	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	82.0	7.7	3.6	2.7	2.6
CA Size:1/2	100.0	100.0	100.0	100.0	70.4	8.4	2.3	2.0
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	95.7	19.1	3.1
CA Size:								

Unit Weight and Void in Aggregate

AASHTO T-19

Compacted

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)	93.37		92.19	91.73	92.48

Loose

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine **AASHTO T-96**

Run # 1	LA Type	LA Result
	B	51.14

Specific Gravity and Absorption of Coarse Aggregate

AASHTO T-85

Nominal Aggregate Size:	#4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.586	2.591	2.593		
Specific Gravity (SSD):		2.611	2.613	2.613		
Apparent Specific Gravity:		2.654	2.651	2.646		
Absorption:		0.995	0.872	0.776		

Soundness of Aggregate by Use of Sodium Sulfate

AASHTO T-104

Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - #4	#4 - #8
% Loss:				0.09	0.18		

Amount of Material Finer than # 200 Sieve in Aggregate **AASHTO T-11**

Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	#4
% Passing # 200 sieve						

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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COARSE AGGREGATE ANALYSIS REPORT - 2018**

Vendor: TILCON - WALLINGFORD Lab No: 20180035
Source: WALLINGFORD QUARRY Location: WALLINGFORD, CT

Sieve Analysis of Coarse Aggregate

AASHTO T-27

% Passing	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	100.0	75.7	23.7	3.2	2.2
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	91.9	11.2	1.6
CA Size:								
CA Size:								

Unit Weight and Void in Aggregate

AASHTO T-19

Compacted	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)			104.00		105.19
Loose	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine **AASHTO T-96**

Run #	LA Type	LA Result
1	B	13.10

Specific Gravity and Absorption of Coarse Aggregate

AASHTO T-85

Nominal Aggregate Size:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.910		2.861		
Specific Gravity (SSD):		2.944		2.901		
Apparent Specific Gravity:		3.012		2.978		
Absorption:		1.166		1.373		

Soundness of Aggregate by Use of Sodium Sulfate

AASHTO T-104

Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - # 4	# 4 - # 8
% Loss:				0.41	0.33		

Amount of Material Finer than # 200 Sieve in Aggregate **AASHTO T-11**

Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	# 4
% Passing # 200 sieve						

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COARSE AGGREGATE ANALYSIS REPORT - 2018**

Vendor:	<u>G. LOPES</u>	Lab No:	<u>20180049</u>
Source:	<u>MIDDLEBORO PIT</u>	Location:	<u>MIDDLEBORO, MA.</u>

Sieve Analysis of Coarse Aggregate		AASHTO T-27						
% Passing	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	95.9	43.7	13.2	3.3	2.2
CA Size:1/2	100.0	100.0	100.0	100.0	98.4	72.1	7.3	1.9
CA Size:3/8	100.0	100.0	100.0	100.0	99.1	86.0	14.9	2.9
CA Size:								

Unit Weight and Void in Aggregate		AASHTO T-19				
Compacted	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)			96.01	95.95	95.36
Loose	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine		AASHTO T-96
Run # 1	LA Type	LA Result
1	B	28.69

Specific Gravity and Absorption of Coarse Aggregate		AASHTO T-85				
Nominal Aggregate Size:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.620	2.617	2.614		
Specific Gravity (SSD):		2.642	2.641	2.632		
Apparent Specific Gravity:		2.679	2.680	2.663		
Absorption:		0.848	0.892	0.702		

Soundness of Aggregate by Use of Sodium Sulfate		AASHTO T-104					
Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - # 4	# 4 - # 8
% Loss:				0.07	0.09		

Amount of Material Finer than # 200 Sieve in Aggregate		AASHTO T-11				
Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	# 4
% Passing # 200 sieve						

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Vendor: CHERENZIA-WHITE ROCK Lab No: 20180058
Source: WHITE ROCK QUARRY Location: WESTERLY, RI

Sieve Analysis of Coarse Aggregate

AASHTO T-27

% Passing	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	91.1	6.5	2.3	1.7	1.6
CA Size:1/2	100.0	100.0	100.0	100.0	83.0	23.7	5.8	4.4
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	97.3	36.7	10.3
CA Size:								

Unit Weight and Void in Aggregate

AASHTO T-19

Compacted	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)			94.23	92.31	95.55
Loose	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine **AASHTO T-96**

Run #	LA Type	LA Result
1	B	47.36

Specific Gravity and Absorption of Coarse Aggregate

AASHTO T-85

Nominal Aggregate Size:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.618	2.572	2.588		
Specific Gravity (SSD):		2.641	2.605	2.613		
Apparent Specific Gravity:		2.681	2.660	2.655		
Absorption:		0.891	1.295	0.989		

Soundness of Aggregate by Use of Sodium Sulfate

AASHTO T-104

Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - # 4	# 4 - # 8
% Loss:				0.12	0.66		

Amount of Material Finer than # 200 Sieve in Aggregate **AASHTO T-11**

Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	# 4
% Passing # 200 sieve						

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Vendor:	<u>KIMBALL SAND AND STONE</u>	Lab No:	<u>20180059</u>
Source:	<u>ELM STREET QUARRY</u>	Location:	<u>BLACKSTONE, MA</u>

Sieve Analysis of Coarse Aggregate		AASHTO T-27						
% Passing	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:								
CA Size:								
CA Size:								
CA Size:								

Unit Weight and Void in Aggregate		AASHTO T-19				
Compacted	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)					
Loose	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine		AASHTO T-96	
Run #	LA Type	LA Result	
1	B		

Specific Gravity and Absorption of Coarse Aggregate		AASHTO T-85				
Nominal Aggregate Size:	#4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:						
Specific Gravity (SSD):						
Apparent Specific Gravity:						
Absorption:						

Soundness of Aggregate by Use of Sodium Sulfate		AASHTO T-104					
Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - #4	#4 - #8
% Loss:							

Amount of Material Finer than # 200 Sieve in Aggregate		AASHTO T-11				
Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	#4
% Passing # 200 sieve						

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Vendor: <u>CARDI CORP.</u>	Lab No: <u>20180066</u>
Source: <u>Hopkins Hill</u>	Location: <u>West Greenwich, RI</u>

Sieve Analysis of Coarse Aggregate		AASHTO T-27						
% Passing	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	98.7	26.6	10.9	4.7	3.5
CA Size:1/2	100.0	100.0	100.0	100.0	69.1	21.9	4.7	2.9
CA Size:3/8	100.0	100.0	100.0	100.0	99.8	88.5	21.4	8.0
CA Size:								

Unit Weight and Void in Aggregate		AASHTO T-19				
Compacted	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)			94.56	96.07	100.50
Loose	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine		AASHTO T-96
Run # 1	LA Type	LA Result
1	B	35.98

Specific Gravity and Absorption of Coarse Aggregate		AASHTO T-85				
Nominal Aggregate Size:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.622	2.619	2.613		
Specific Gravity (SSD):		2.635	2.632	2.625		
Apparent Specific Gravity:		2.656	2.654	2.645		
Absorption:		0.484	0.497	0.462		

Soundness of Aggregate by Use of Sodium Sulfate		AASHTO T-104					
Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - # 4	# 4 - # 8
% Loss:				0.03	0.03		

Amount of Material Finer than # 200 Sieve in Aggregate		AASHTO T-11				
Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	# 4
% Passing # 200 sieve						

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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COARSE AGGREGATE ANALYSIS REPORT - 2018**

Vendor: CUMBERLAND QUARRY . Lab No: 20180068
Source: MANVILLE HILL ROAD Location: CUMBERLAND, RI

Sieve Analysis of Coarse Aggregate

AASHTO T-27

% Passing

	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	94.0	4.7	1.0	0.9	0.8
CA Size:1/2	100.0	100.0	100.0	100.0	84.0	6.9	1.0	0.8
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	94.8	14.9	2.1
CA Size:								

Unit Weight and Void in Aggregate

AASHTO T-19

Compacted

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)			101.69	99.49	97.47

Loose

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine **AASHTO T-96**

Run # 1	LA Type	LA Result
	B	13.05

Specific Gravity and Absorption of Coarse Aggregate

AASHTO T-85

Nominal Aggregate Size:	#4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.737	2.900	2.931		
Specific Gravity (SSD):		2.751	2.914	2.940		
Apparent Specific Gravity:		2.775	2.940	2.957		
Absorption:		0.508	0.469	0.301		

Soundness of Aggregate by Use of Sodium Sulfate

AASHTO T-104

Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - #4	#4 - #8
% Loss:				0.21	0.69		

Amount of Material Finer than # 200 Sieve in Aggregate **AASHTO T-11**

Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	#4
% Passing # 200 sieve						