

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS REPORT - 2019**

Vendor:	<u>J.H. LYNCH</u>	Lab No:	<u>20190006</u>
Source:	<u>FIRST ST. QUARRY</u>	Location:	<u>CUMBERLAND, 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	97.6	14.5	2.9	2.0	1.8
CA Size:1/2	100.0	100.0	100.0	100.0	74.1	13.6	2.2	2.0
CA Size:3/8	100.0	100.0	100.0	100.0	99.7	96.4	10.4	1.7
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.)			98.99	96.24	96.70
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	18.28	

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:		2.768	2.749	2.774		
Specific Gravity (SSD):		2.781	2.759	2.785		
Apparent Specific Gravity:		2.806	2.776	2.804		
Absorption:		0.490	0.356	0.386		

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:				0.19	0.54		

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>PJ KEATING</u>	Lab No:	<u>20190009</u>
Source:	<u>PHENIX AVENUE QUARRY</u>	Location:	<u>CRANSTON, 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	98.9	43.9	11.1	1.6	1.2
CA Size:1/2	100.0	100.0	100.0	100.0	89.6	30.9	1.4	0.9
CA Size:3/8	100.0	100.0	100.0	100.0	99.9	96.8	23.9	6.0
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.)			99.32	97.52	99.64
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	25.46

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:		2.730	2.719	2.740		
Specific Gravity (SSD):		2.742	2.731	2.750		
Apparent Specific Gravity:		2.763	2.753	2.768		
Absorption:		0.441	0.454	0.379		

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	0.39		

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>DRY BRIDGE S and S</u>	Lab No:	<u>20190013</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	99.7	80.1	4.6	1.9	1.6	1.4
CA Size:1/2	100.0	100.0	100.0	98.5	57.3	10.0	1.0	0.8
CA Size:3/8	100.0	100.0	100.0	100.0	99.8	89.2	9.9	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.)			95.19	95.06	96.91
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	36.06

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	2.611	2.619		
Specific Gravity (SSD):		2.634	2.633	2.636		
Apparent Specific Gravity:		2.672	2.669	2.664		
Absorption:		0.859	0.827	0.635		

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:				0.04	0.39		

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: 20190017
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	84.7	20.9	8.0	4.4	3.7
CA Size:1/2	100.0	100.0	100.0	100.0	97.7	35.4	3.0	1.9
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	96.2	10.5	4.9
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.)			94.87	90.08	93.11

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	37.83

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:		2.621	2.616	2.614		
Specific Gravity (SSD):		2.635	2.631	2.626		
Apparent Specific Gravity:		2.659	2.656	2.646		
Absorption:		0.548	0.581	0.450		

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	0.06		

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>PJ KEATING</u>	Lab No:	<u>20190021</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	99.4	44.3	10.4	3.9	3.5
CA Size:1/2	100.0	100.0	100.0	100.0	87.9	38.7	3.7	2.5
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	93.8	24.1	5.7
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.)			95.82	95.36	97.24
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	19.63	

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:		2.637	2.702	2.652		
Specific Gravity (SSD):		2.661	2.716	2.668		
Apparent Specific Gravity:		2.702	2.740	2.695		
Absorption:		0.905	0.519	0.606		

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:				0.04	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						

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Vendor: SOUTH COUNTY S & G Lab No: 20190028
Source: KLONDIKE PIT Location: CHARLESTON, 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:1 1/2	100.0	100.0	47.9	6.1	2.1	1.9	1.6	1.5
CA Size:3/4	100.0	100.0	100.0	71.2	6.6	4.1	2.9	2.6
CA Size:1/2	100.0	100.0	100.0	100.0	71.5	13.0	1.7	1.2
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	90.3	11.3	2.4

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.)	92.20		90.74	90.61	94.96

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	56.89

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:		2.577	2.591	2.586		2.592
Specific Gravity (SSD):		2.601	2.611	2.606		2.611
Apparent Specific Gravity:		2.641	2.644	2.638		2.641
Absorption:		0.929	0.771	0.764		0.716

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:				0.22	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						

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Vendor: <u>CHERENZIA</u>	Lab No: <u>20190029</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	97.8	23.5	7.1	2.1	1.5
CA Size:1/2	100.0	100.0	100.0	100.0	60.0	9.7	1.3	1.0
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	95.6	19.8	2.7
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.)			91.79	89.49	90.39
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	30.08

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:		2.616	2.618	2.623		
Specific Gravity (SSD):		2.631	2.633	2.632		
Apparent Specific Gravity:		2.657	2.658	2.648		
Absorption:		0.602	0.575	0.362		

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:				0.16	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						

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Vendor: G. LOPES Lab No: 20190049
Source: MIDDLEBORO PIT Location: MIDDLEBORO, 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	94.1	23.9	5.6	1.3	1.0
CA Size:1/2	100.0	100.0	100.0	100.0	98.4	75.3	8.5	1.9
CA Size:3/8	100.0	100.0	100.0	100.0	98.1	83.7	23.9	6.5
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.)			89.36	94.47	98.44

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	27.09

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:		2.629	2.624	2.619		
Specific Gravity (SSD):		2.649	2.644	2.635		
Apparent Specific Gravity:		2.684	2.677	2.661		
Absorption:		0.776	0.756	0.611		

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:				0.10	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: CHERENZIA-WHITE ROCK Lab No: 20190058
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	90.1	11.3	6.3	4.2	3.7
CA Size:1/2	100.0	100.0	100.0	100.0	69.2	12.2	1.2	1.0
CA Size: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.)			97.36	92.44	

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	38.33

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:			2.608	2.622		
Specific Gravity (SSD):			2.623	2.633		
Apparent Specific Gravity:			2.649	2.651		
Absorption:			0.588	0.407		

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	0.09		

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: <u>CARDI CORP.</u>	Lab No: <u>20190066</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	99.1	17.7	5.9	1.1	0.9
CA Size:1/2	100.0	100.0	100.0	100.0	74.2	17.0	1.5	1.0
CA Size:3/8	100.0	100.0	100.0	100.0	99.9	91.3	27.4	8.8
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.)			98.60	93.78	98.11
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	37.14

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:		2.617	2.613	2.612		
Specific Gravity (SSD):		2.630	2.626	2.625		
Apparent Specific Gravity:		2.652	2.647	2.646		
Absorption:		0.508	0.484	0.500		

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	0.24		

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: CUMBERLAND QUARRY . Lab No: 20190068
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	97.8	19.0	3.4	2.1	1.9
CA Size:1/2	100.0	100.0	100.0	100.0	93.6	26.9	1.7	1.3
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	98.9	23.7	5.3
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.)			98.63	97.29	101.29

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	22.06

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:		2.792	2.707	2.780		
Specific Gravity (SSD):		2.806	2.722	2.791		
Apparent Specific Gravity:		2.831	2.749	2.812		
Absorption:		0.487	0.554	0.402		

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:				0.19	0.27		

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
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS REPORT - 2019**

Vendor: <u>FORT MILLER</u>	Lab No: <u>20190080</u>
Source: <u>SCHUYLERVILLE NY</u>	Location: <u>SCHUYLERVILLE NY</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	99.5	53.8	29.7	3.3	2.1
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.)			97.16		
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	28.83

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:				2.643		
Specific Gravity (SSD):				2.666		
Apparent Specific Gravity:				2.706		
Absorption:				0.877		

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:				0.62	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
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS REPORT - 2019**

Vendor: MIOZZI Lab No: 20190082
Source: CAROLINA RD. 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	87.7	23.1	6.0	1.7	1.2
CA Size:1/2	100.0	100.0	100.0	100.0	98.2	48.4	4.2	2.6
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	98.5	15.4	8.7
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.)			93.10	91.26	97.13

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**

	LA Type	LA Result
Run # 1	<u>B</u>	<u>47.99</u>

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						