Special Testing Lab, Inc. 21 Henry Street Bethel, Ct. 06801 (203) 743-7281

Sieve Analysis

		ONE SET OF S	SIEVES ONLY:	<u>x</u>		Date Received: 02/19/25 Date Tested: 02/20/25 Sample #: 25S0019B			By: Client Project: Lawton Adams Client: Lawton Adams
		ASTM	C-136			Material: Color:		D	ate Issued: 02/27/25 Lab Tech: BS
		Gravel Secti	on				v		Eas reen. Bs
		Weights are	Cumulative:	x		STL Standa	ard General		•
		Cumulative	Cumulative	Cumulative	Interpolated	Specs			
Sieve	Size	Retained	Percent	Percent	Percent	Max	Min		
US	mm	Weight	Retained	Passing	Passing				
4.00"	101.60	0.00	0.0%	100%	100.0%	100 %		ASTM	[D-2487
3.50"	88.90	0.00	0.0%	100%	100.0%			Unified So	ils Classification System
3.00"	75.00				100.0%				ded Sand with Gravel
2.50"	63.00				100.0%				esented on this report relates
2.00"	50.00				100.0%			1	naterial sample tested
1.75"	45.00				100.0%				•
1.75	37.50	0.00	0.0%	100%	100.0%				rom the test method described
		0.00	0.0%	100%				in the refere	nced ASTM: None
1.25" 1.00"	31.50				100.0%				
	25.00				100.0%				
7/8" 3/4"	22.40	0.00	0.0%	100%	100.0%				
5/4 5/8"	19.00	0.00	0.0%	100%	100.0% 92.9%				
3/8 1/2"	16.00 12.50				92.9% 84.7%				
3/8"								Other Notes:	Booveled Stepedust
3/8 1/4"	9.50 6.30	353.88	29.9%	70%	77.6% 70.1%			Source:	Recycled Stonedust Onsite
#4	4.75	353.88 464.88	29.9% 39.3%	61%	60.7%			Ref Spec:	NYSDOT 733-11 Select Granular
	ve Blank		59.5% 60.7%	0170	00.7%			Kei Spec:	Fill
Tota	l Weight	1						Sampl	e Meets Gradation
		Fines Section	n					-	
		Weights are	Cumulative:	x					
	Before V	Vash Weight:	1183.83	-					
	After V	Vash Weight:							
	After Sie	ving Weight:							
	inter bie	Cumulative	Cumulative	Cumulative	Interpolated	Specs			
Sieve	Size	Retained	Percent	Percent	Percent	Max	Min		
US	mm	Weight	Retained	Passing	Passing	Max	WIIII		
#8	2.36	weight	Retailed	i ussing	41.9%				
#10	2.00	721.59	61.0%	39%	39.0%				% Gravel = 39.3 %
#16	1.18		011070	0,0,0	26.3%				% Sand = 58.9 %
#20	0.85				21.1%			%	Silt & Clay = 1.8 %
#30	0.600				17.2%			,-	% Silt: N/A, Run Hydrometer
#40	0.425	1012.53	85.5%	14%	14.5%	70%	0%		% Clay: N/A, Run Hydrometer
#50	0.300				9.9%				
#60	0.250				8.1%				
#80	0.180				5.5%				
#100	0.150	1131.96	95.6%	4%	4.4%				
#140	0.106	110100	20.070	- 70	2.9%				
#170	0.090				2.3%				
#200	0.075	1162.51	98.2%	1.8%	1.8%	15%	0%		
Pan	0.070	1181.96	20.270	10/0	1.070	1070	070		
	s foregoi		is the prope	rty of STL cli	ents: Reprodu	iction or pu	blication in	part of in full of	only with our express permission

This foregoing information is the property of STL clients: Reproduction or publication, in part of in full, only with our express permission. Copyright Spears Engineering & Technical Services PS, 1996-2005

STL uses the simple acceptance/simple rejection decision rule to determine in-tolerance and out-of-tolerance or pass/fail comply (yes/no) conditions and no measeurement uncertanity is applied in this determinination.

LITHEFT. Calance forciale Ma

R TESTING VILAP LAB CODE 100308-0 This report cannot be used by the client to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the US government.

Special Testing Lab, Inc. 21 Henry Street Bethel, Ct. 06801 (203) 743-7281

Proctor Report

Sample #: 2580019B Cilent: Lawton Adams Simple Issued: 02/27/2 The baresented on this report relate on this report re	Da	te Tested:	02/20/25		Project	I awton A	dame		ľ				
Material: Color: Onsite Graduation Date Issued: $02/27/25$ bit for the material sample resort. Size or to the material sample resort. Size bit for					•								
										Cino		Creationti	
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Material. Onsite Date Issued. 02/27/25											-	
SW, Well-graded Sand with Grave! 3.50 8.89 100.0 % Sample Frepared: Moist X Manul: S 2.50 6.0 Test Standard: X C 5.0 8.89 100.0 % Test Standard: X C 5.0 8.9 100.0 % AASHTO T 99 AASHTO T 180.1 C 1.75 45.0 ASSUME Sp. Cr. Point Point Percent Density Maximum Optimum 1.25 31.5 10.0 % 2.700 Number Moisture Ibst/ft Kgs/m Dr 196.1 (1.03.9 lbs/ft ³) 13.9 % 7.8° 2.4 2 13.8% 104.5 1.674 Corrected Density: 103.9 58° 16.0 12°<											100.0.%	wax	IVIIII
Sample Prepared: Moist: X Manual: 3.00° 75.0 Dry: ASHTO T 180: Method 2.50° 63.0 2.50° 63.0 Test Standard: ASHTO T 99: ASHTO T 180: Method 2.50° 63.0 2.50° 63.0 Assumed Sp. Gr. Point Percent Density Density Density Maximum Optimum 1.25° 31.5 9.78 22.0 3.00° 75.0 22.0° 50.0 50	•												
Dry: Mechanical: X 2.50° 6.3.0 Test Standard: $AASHTO T 190:$ Method 2.00° 50.0 ASSUME 059. Gr. Point Percent Density Maximum Optimum 2.70 Number Percent Density Maximum Optimum 2.70 Percent Density Maximum Optimum 2.70 Percent Density Maximum Optimum 2.70 Number Percent Density Maximum Optimum 2.70 III III.5% III.012.4 I.641 III.03.9 III.25" III.25" III.25" III.25" III.25" III.25" III.25" III.25" III.25" IIII.25" IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII											100.0 %		
Test Standard: AASHTO T 180: Colspan="4">Colspan="4"Colspan="4">Colspan= 4:550 <th>Samp</th> <th>ie rrepareu:</th> <th></th> <th>л</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Samp	ie rrepareu:		л									
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$					А			Method					
Assumed Sp. Gr. Point Number Dry Moisture Dry Density Maximum Dury Density Optimum % Moisture 2.70 Number 1.5% 102.4 1.641 103.9 15.7% 100.0 % 2 13.8% 104.5 1.674 Corrected Density: 103.9 34" 19.0 100.0 % 3 15.7% 103.2 1.653 Corrected Density: 103.9 58" 16.0 4 9.6% 101.0 1.619 Corrected Moisture: 13.9 58" 16.0 107.0 0 0 0.6% 101.0 1.619 12" 12.5 378" 9.5 101.0 1.619 100.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 12" 12.5 37.8 9.5 11.4" 6.3 70.1 % 4# 4.4.5 14# 4.4.5 16.1	i cot otuniunu.												
$\frac{2.70}{1}$ Number Moisture Ibs/ft ² Kgs/m ³ Dry Density % Moisture 1.00° 25.0 1 11.5% 102.4 1.641 103.9 Ibs/ft ³ 13.9 % 2 13.8% 104.5 1.674 Corrected Density: 103.9 3 15.7% 103.2 1.653 Corrected Moisture: 13.9 4 9.6% 101.0 1.619 Moisture Density Relationship 4 9.6% 101.0 1.619 Moisture Density Relationship 100.0 % 5% 106.0 1.6% 12% 12% 14% 16% 18% 20% 22% 24% 26% 28% 30% 32% 34% Percent Moisture 0 Data National Corrected Density Court Etc. Moisture Density Relationship 100.0 % 5% 106.0 1.66% 13.2% 22% 24% 26% 28% 30% 32% 34% Percent Moisture Moisture Density Relations 10% 12% 14% 16% 18% 20% 22% 24% 26% 28% 30% 32% 34% Percent Moisture 100 0.150 4.4% #10 0.000 #20 0.075 1.8% Moisture Moisture Moisture Density Relations 10% 12% 14% 16% 18% 20% 22% 14% 26% 28% 30% 32% 34% Percent Moisture 100 0.150 4.4% #10 0.006 #10 0.050 4.4% #10 0.006 #10 0.050 180 #10 0.050 18% Etc. Netets Specc? TL Standard General % Gravel: 39.3% D ₍₁₀₎ : 0.000 % SitkClay: 1.8% D ₍₀₀₎ : 0.000				Dry				-			100.0 %		
$\frac{1}{2}$ $\frac{1}{13.8\%}$ $\frac{1}{10.24}$ $\frac{1}{103.9}$ $\frac{1}{10.9}$ 1	Assumed Sp. Gr.	Point	Percent	•	•	Maximum		Optimum		31.5			
$\frac{2}{3} \frac{13.8\%}{15.7\%} \frac{104.5}{103.2} \frac{1,674}{1.653} Corrected Density: 103.9}{Corrected Moisture: 13.9} \frac{34'' 19.0}{10.0} 100.0\% \\ 5\%'' 16.0 \\ 1/2' 12.5 \\ 3\%'' 9.5 \\ 1/4'' 6.3 70.1\% \\ \# 4 4.750 60.7\% \\ \# 4 4.750 60.7\% \\ \# 4 4.750 60.7\% \\ \# 4 4.750 60.7\% \\ \# 4 4.750 60.7\% \\ \# 4 4.750 60.7\% \\ \# 4 4.750 60.7\% \\ \# 5 2.360 \\ \# 10 2.000 39.0\% \\ \# 16 1.180 \\ \# 2 2.360 \\ \# 10 2.000 39.0\% \\ \# 16 1.180 \\ \# 2 30.00 \\ \# 40 0.425 14.5\% \\ \# 50 0.300 \\ \# 40 0.425 14.5\% \\ \# 50 0.300 \\ \# 60 0.250 \\ \# 80 0.180 \\ \# 1100 0.150 4.4\% \\$	2.70	Number	Moisture	lbs/ft ³	Kgs/m ³	Dry Density		% Moisture	1.00"	25.0			
$\frac{2}{3} \frac{13.8\%}{15.7\%} \frac{104.5}{103.2} \frac{1,674}{1.653} Corrected Density: 103.9}{Corrected Moisture: 13.9} \frac{34'' 19.0}{10.0} 100.0\% \\ 5\%'' 16.0 \\ 1/2' 12.5 \\ 3\%'' 9.5 \\ 1/4'' 6.3 70.1\% \\ \# 4 4.750 60.7\% \\ \# 4 4.750 60.7\% \\ \# 4 4.750 60.7\% \\ \# 4 4.750 60.7\% \\ \# 4 4.750 60.7\% \\ \# 4 4.750 60.7\% \\ \# 4 4.750 60.7\% \\ \# 5 2.360 \\ \# 10 2.000 39.0\% \\ \# 16 1.180 \\ \# 2 2.360 \\ \# 10 2.000 39.0\% \\ \# 16 1.180 \\ \# 2 30.00 \\ \# 40 0.425 14.5\% \\ \# 50 0.300 \\ \# 40 0.425 14.5\% \\ \# 50 0.300 \\ \# 60 0.250 \\ \# 80 0.180 \\ \# 1100 0.150 4.4\% \\$		1	11.5%	102.4	1,641	103.9	lbs/ft ³	13.9 %	7/8"	22.4			
$\frac{3}{4} + \frac{15.7\%}{9.6\%} + \frac{103.2}{101.0} + \frac{1,653}{1,619} + \frac{12.5}{101.0} + \frac{16.53}{1,619} + \frac{12.5}{10.1} + \frac{12.5}{1,12} + \frac{12.5}{3,18} + \frac{9.5}{9.5} + \frac{11.60}{1,12} + \frac{12.5}{3,18} + \frac{12.5}{9.5} + \frac{11.60}{1,12} + \frac{12.5}{1,12} $,						100.0 %		
$\frac{4}{9.6\%} 101.0 1.619$ $\frac{12^{\circ}}{12.5} 12.5$ $\frac{12^{\circ}}{3.8^{\circ}} 9.5$ $\frac{14^{\circ}}{6.5} 60.7 \% \\ \# 4 4.750 60.7 \% \\ \# 8 2.360 \\ \# 10 2.000 39.0 \% \\ \# 116 1.180 \\ \# 20 0.850 \\ \# 30 0.600 \\ \# 40 0.425 14.5 \% \\ \# 30 0.600 \\ \# 40 0.425 14.5 \% \\ \# 30 0.600 \\ \# 40 0.425 14.5 \% \\ \# 50 0.300 \\ \# 60 0.250 \\ \# 80 0.180 \\ \# 100 0.150 4.4 \% \\ \# 140 0.106 \\ \# 1170 0.090 \\ \# 200 0.075 1.8 \% \\ \hline Specs: Meets Specs? \\ STL Standard General \\ \% Retained Corrected Density Optimum % & Retained Corrected Density Optimum \\ 34'' Sieve Dis/ft2 & Kgs/m3 & Moisture \\ \frac{5\%}{10\%} 106.0 1.698 13.2\% \\ \frac{5\%}{10\%} 106.1 1.731 12.5\% \\ 25\% 114.9 1.841 10.5\% \\ \hline \end{bmatrix} $,		•						
Moisture Density Relationship 14% 6.3 70.1 % 107.0 11.0 <t< th=""><th></th><th></th><th></th><th></th><th>,</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>					,								
Moisture Density Relationship 1090 107.0 1090 108.0 1090 108.0 1090 108.0 1090 108.0 1090 108.0 1090 108.0 1090 108.0 1090 108.0 1080.0 16.08 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>3/8"</th> <th>9.5</th> <th></th> <th></th> <th></th>									3/8"	9.5			
109.0 107.0 10.00 % Specs: Meets Specs? STL Standard General % Specs: Standard General % Specs: Standard Standard General % S									1/4"	6.3	70.1 %		
109.0 107.0 107.0 107.0 101.0 100.0 <td< th=""><th>(</th><th colspan="8">Moisture Density Relationship</th><th></th><th>60.7 %</th><th></th><th></th></td<>	(Moisture Density Relationship									60.7 %		
107.0 107.0 105.0 101.0 100.0 101.0 100.0 101.0 100.0 101.0 100.0 101.0 100.0 101.0 100.0 101.0 100.0 101.0 100.0 <td< th=""><th>109.0 T</th><th></th><th></th><th></th><th></th><th></th><th>······</th><th></th><th></th><th></th><th></th><th></th><th></th></td<>	109.0 T						······						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	€ 107.0										39.0 %		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	a 105.0												
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	E 103.0												
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2 101.0		2								14 5 %		
b 97.0 97.0 95.0 10% 12% 14% 16% 18% 20% 22% 24% 26% 28% 30% 32% 34% #60 0.250 #80 0.180 #140 0.106 #140 0.106 #170 0.090 Specs: Meets Specs? STL Standard General % Retained Corrected Density Optimum 3/4" Sieve lbs/ft ³ Kgs/m ³ Moisture % Retained Silt&Clay: 1.8% D(10): 0.000 3/4" Sieve lbs/ft ³ Kgs/m ³ Moisture % Gravel: 39.3% D(10): 0.000 5% 106.0 1,698 13.2% 20% 112.6 1,803 11.2% % Silt&Clay: 1.8% D(60): 0.000 % Silt&Clay: 1.8% D(60): 0.000 % Silt&Clay: 1.8% D(60): 0.000 10% 108.1 1,731 12.5% 25% 114.	99.0					\searrow			-		14.5 70		
95.0 4% 6% 8% 10% 12% 14% 16% 18% 20% 22% 24% 26% 28% 30% 32% 34% Percent Moisture • Dun Points Zero Air Voids Curve Curve Fit #80 0.180 Spec: Meets Specs? STL Standard General % Retained Corrected Density Optimum % Retained Corrected Density Optimum 3/4" Sieve lbs/ft ³ Kgs/m ³ Moisture 3/4" Sieve lbs/ft ³ Kgs/m ³ Moisture 5% 106.0 1,698 13.2% 20% 112.6 1,803 11.2% % Sil&Clay: 1.8% D ₍₆₀₎ : 0.000 10% 108.1 1,731 12.5% 25% 114.9 1,841 10.5% C _c : 1.43 LL: 0.0%													
4% 6% 8% 10% 12% 14% 16% 18% 20% 22% 24% 26% 28% 30% 32% 34% #100 0.150 4.4 % Percent Moisture . . . • Dute Feints ASTM D-4718, Correction for Oversize Particles % Retained 3/4" 0.0% #100 0.150 4.4 % % Retained Corrected Density Optimum % Retained Corrected Density . 3/4" Sieve lbs/ft ³ Kgs/m ³ Moisture % Sand: 58.9% D(10): 0.000 5% 106.0 1,698 13.2% 20% 112.6 1,803 11.2% 10% 108.1 1,731 12.5% 25% 114.9 1,841 10.5% Cc: 1.43 LL: 0.0%					$\mathbf{\mathbf{x}}$				#80	0.180			
• Data Points Zero Air Voids Curve Curve Fit #170 0.090 #200 0.075 1.8 % Specs: Meets Specs? STL Standard General % Retained Corrected Density Optimum % Retained Corrected Density Optimum 3/4" Sieve lbs/ft ³ Kgs/m ³ 5% 106.0 1,698 13.2% 20% 112.6 1,803 11.2% % Sit&Clay: 1.8% D(60); 0.000 10% 108.1 1,731 12.5% 25% 114.9 1,841 10.5% Cc: 1.43 LL: 0.0%										0.150	4.4 %		
• Due Points Zero Ar Voids Curve Curve Fit #200 0.075 1.8 % ASTM D-4718, Correction for Oversize Particles % Retained 3/4" 0.0% % Retained 3/4" 0.0% % Retained 3/4" 0.0% % Gravel: 39.3% D(10): 0.000 % Retained Corrected Density Optimum % Retained 3/4" Sieve Optimum % Gravel: 39.3% D(10): 0.000 3/4" Sieve lbs/ft ³ Kgs/m ³ Moisture 3/4" Sieve lbs/ft ³ Kgs/m ³ Moisture % Sand: 58.9% D(30): 0.000 5% 106.0 1,698 13.2% 20% 112.6 1,803 11.2% % Sit&Clay: 1.8% D(60): 0.000 10% 108.1 1,731 12.5% 25% 114.9 1,841 10.5% Cc: 1.43 LL: 0.0%	Percent Moisture												
ASTM D-4718 Correction for Oversize Particles % Retained 3/4" 0.0% STL Standard General STL Standard General % Retained Corrected Density Optimum % Retained 3/4" Sieve Optimum % Retained 3/4" Sieve Moisture 3/4" Sieve Ibs/ft ³ Kgs/m ³ Moisture Moisture 3/4" Sieve Ibs/ft ³ Kgs/m ³ Moisture % Sittle 0.000 5% 106.0 1,698 13.2% 20% 112.6 1,803 11.2% % Sitt&Clay: 1.8% D(60): 0.000 10% 108.1 1,731 12.5% 25% 114.9 1,841 10.5% Cc: 1.43 LL: 0.0%		•	Data Points		Zero Air Voids Curve	_	Curve Fit		#170	0.090			
% Retained 3/4" 0.0% STL Standard General % Retained Correction for Oversize Particles % Retained 3/4" 0.0% % Retained 3/4" 0.0% % Retained 3/4" 0.0% % Gravel: 39.3% D(10): 0.000 3/4" Sieve lbs/ft ³ Kgs/m ³ Moisture 3/4" Sieve lbs/ft ³ Kgs/m ³ Moisture % Gravel: 39.3% D(10): 0.000 % Sand: 58.9% D(30): 0.000 % Sand: 58.9% D(30): 0.000 % Silt&Clay: 1.8% D(60): 0.000 % Silt&Clay: 1.8% D(60): 0.000 0.000 % Silt&Clay: 1.8% M(60): 0.000	<u> </u>								_	0.075			
% Retained S/4" 0.0% % Retained 3/4" 0.0% % Retained Corrected Density Optimum % Retained Corrected Density Optimum % Retained Optimum % Gravel: 39.3% D ₍₁₀ : 0.000 3/4" Sieve İbs/ft ³ Kgs/m ³ Moisture 3/4" Sieve İbs/ft ³ Kgs/m ³ Moisture % Sand: 58.9% D ₍₃₀ : 0.000 5% 106.0 1,698 13.2% 20% 112.6 1,803 11.2% % Sit&Clay: 1.8% D ₍₆₀₎ : 0.000 10% 108.1 1,731 12.5% 25% 114.9 1,841 10.5% C _c : 1.43 LL: 0.0%									-			eets Specs?	
% Retained Corrected Density Optimum % Retained Corrected Density Optimum % Gravel: 39.3% D(10): 0.000 3/4" Sieve lbs/ft ³ Kgs/m ³ Moisture 3/4" Sieve lbs/ft ³ Kgs/m ³ Moisture 0/000 <td< th=""><th>ASTM D. 4719</th><th>Correction</th><th>for Aversize De</th><th>ticles</th><th></th><th></th><th>% Retained</th><th>8/4" 0.0%</th><th>SIL Sta</th><th>ndard G</th><th>eneral</th><th></th><th></th></td<>	ASTM D. 4719	Correction	for Aversize De	ticles			% Retained	8/4" 0.0%	SIL Sta	ndard G	eneral		
3/4" Sieve lbs/ft ³ Kgs/m ³ Moisture 3/4" Sieve lbs/ft ³ Kgs/m ³ Moisture % Sand: 58.9% D ₍₃₀₎ : 0.000 5% 106.0 1,698 13.2% 20% 112.6 1,803 11.2% % Silt&Clay: 1.8% D ₍₆₀₎ : 0.000 10% 108.1 1,731 12.5% 25% 114.9 1,841 10.5% C _c : 1.43 LL: 0.0%		,		1	0/ Datair - 1	Comostal			0/	Creation	20.20/	D ·	0.000
Strice Strice<			-	•			2	-					
10% 108.1 1,731 12.5% 25% 114.9 1,841 10.5% C _C : 1.43 LL: 0.0%			0				-						
			,				,		% Silt				
15% 110.3 1.767 11.9% 30% 117.4 1.881 9.9% C-: 15.36 DI · 0.0%			,				,			-			
	15%	110.3	1,767	11.9%	30%	117.4	1,881	9.9%		-			
Copyright Spears Engineering & Technical Services PS, 1996-2005										FM:	0.00	PI:	0.0%

This foregoing information is the property of STL clients: Reproduction or publication, in part of in full, only with our express permission.



TESTING

NVLAP LAB CODE 100308-0 This report cannot be used by the client to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the US government.