



Bituminous Density

Report Date: 11/13/2024

Test Method:

Client:

Tailor Made Exteriors
1610 SE Hamblen Rd
Lee's Summit, MO 64081

Project:

230445
TM Fieldhouse
1600 SE Hamblen Rd
Lees Summit, MO 64081

Alpha Omega Geotech, Inc
1701 State Avenue
Kansas City, KS 66102
Phone: 913-371-0000

Test Results

Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
1		11/01/24	Base Fill: Pavement: Parking lot base paving	Base		4	151.2	Supplied Value	148.0	Backscatter	98	95 / 102		1670	Chase Behler
2		11/01/24	Base Fill: Pavement: Parking lot base paving	Base		4	151.2	Supplied Value	144.0	Backscatter	95	95 / 102		1670	Chase Behler
3		11/01/24	Base Fill: Pavement: Parking lot base paving	Base		5	151.2	Supplied Value	148.1	Backscatter	98	95 / 102		1670	Chase Behler
4		11/01/24	Base Fill: Pavement: Parking lot base paving	Base		6	151.2	Supplied Value	143.0	Backscatter	95	95 / 102		1670	Chase Behler
5		11/01/24	Base Fill: Pavement: Parking lot base paving	Base		6	151.2	Supplied Value	146.9	Backscatter	97	95 / 102		1670	Chase Behler
6		11/01/24	Base Fill: Pavement: Parking lot base paving	Base		4	151.2	Supplied Value	144.2	Backscatter	95	95 / 102		1670	Chase Behler
7		11/01/24	Base Fill: Pavement: Parking lot base paving	Base		6	151.2	Supplied Value	142.9	Backscatter	95	95 / 102		1670	Chase Behler
8		11/01/24	Base Fill: Pavement: Parking lot base paving	Base		4	151.2	Supplied Value	143.1	Backscatter	95	95 / 102		1670	Chase Behler
9		11/01/24	Base Fill: Pavement: Parking lot base paving	Base		5	151.2	Supplied Value	143.2	Backscatter	95	95 / 102		1670	Chase Behler
10		11/01/24	Base Fill: Pavement: Parking lot base paving	Base		5	151.2	Supplied Value	144.1	Backscatter	95	95 / 102		1670	Chase Behler
11		11/01/24	Base Fill: Pavement: Parking lot base paving	Base		4	151.2	Supplied Value	149.5	Backscatter	99	95 / 102		1670	Chase Behler
12		11/01/24	Base Fill: Pavement: Parking lot base paving	Base		6	151.2	Supplied Value	147.5	Backscatter	98	95 / 102		1670	Chase Behler
13		11/01/24	Base Fill: Pavement: Parking lot base paving	Base		5	151.2	Supplied Value	143.6	Backscatter	95	95 / 102		1670	Chase Behler
14		11/01/24	Base Fill: Pavement: Parking lot base paving	Base		5	151.2	Supplied Value	142.9	Backscatter	95	95 / 102		1670	Chase Behler
15		11/01/24	Base Fill: Pavement: Parking lot base paving	Base		6	151.2	Supplied Value	144.3	Backscatter	95	95 / 102		1670	Chase Behler
16		11/01/24	Base Fill: Pavement: Parking lot base paving	Base		6	151.2	Supplied Value	145.6	Backscatter	96	95 / 102		1670	Chase Behler
17		11/07/24	Base Fill: Parking lot base lift South side of roadway	Base		4	151.2	Supplied Value	151.6	Backscatter	100	95 / 100		10582	Jacob Smith



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18		11/07/24	Base Fill: Parking lot base lift South side of roadway	Base		4	151.2	Supplied Value	149.7	Backscatter	99	95 / 100		10582	Jacob Smith
19		11/07/24	Base Fill: Parking lot base lift South side of roadway	Base		4	151.2	Supplied Value	146.7	Backscatter	97	95 / 100		10582	Jacob Smith
20		11/07/24	Base Fill: Parking lot base lift South side of roadway	Base		4	151.2	Supplied Value	147.5	Backscatter	98	95 / 100		10582	Jacob Smith
21		11/07/24	Base Fill: Parking lot base lift South side of roadway	Base		4	151.2	Supplied Value	151.0	Backscatter	100	95 / 100		10582	Jacob Smith
22		11/07/24	Base Fill: Parking lot base fill South side of roadway	Base		4	151.2	Supplied Value	147.0	Backscatter	97	95 / 100		10582	Jacob Smith
23		11/07/24	Base Fill: Parking lot base fill South side of roadway	Base		4	151.2	Supplied Value	147.5	Backscatter	98	95 / 100		10582	Jacob Smith
24		11/07/24	Various: Parking lot surface lift South side of roadway	APWA Type III		2	147.3	Supplied Value	146.2	Backscatter	99	95 / 100		10582	Jacob Smith
25		11/07/24	Various: Parking lot surface lift South side of roadway	APWA Type III		2	147.3	Supplied Value	147.6	Backscatter	100	95 / 100		10582	Jacob Smith
26		11/07/24	Various: Parking lot surface lift South side of roadway	APWA Type III		2	147.3	Supplied Value	145.3	Backscatter	99	95 / 100		10582	Jacob Smith
27		11/07/24	Various: Parking lot surface lift South side of roadway	APWA Type III		2	147.3	Supplied Value	146.8	Backscatter	100	95 / 100		10582	Jacob Smith
28		11/07/24	Various: Parking lot surface lift South side of roadway	APWA Type III		2	147.3	Supplied Value	145.3	Backscatter	99	95 / 100		10582	Jacob Smith
29		11/07/24	Various: Parking lot surface lift South side of roadway	APWA Type III		2	147.3	Supplied Value	144.6	Backscatter	98	95 / 100		10582	Jacob Smith



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30		11/07/24	Various: Parking lot surface lift South side of roadway	APWA Type III		2	147.3	Supplied Value	144.5	Backscatter	98	95 / 100		10582	Jacob Smith
31		11/07/24	Various: Parking lot surface lift South side of roadway	APWA Type III		2	147.3	Supplied Value	145.3	Backscatter	99	95 / 100		10582	Jacob Smith
32		11/07/24	Various: Parking lot surface lift South side of roadway	APWA Type III		2	147.3	Supplied Value	146.2	Backscatter	99	95 / 100		10582	Jacob Smith
33		11/07/24	Various: Parking lot surface lift South side of roadway	APWA Type III		2	147.3	Supplied Value	145.8	Backscatter	99	95 / 100		10582	Jacob Smith
34		11/08/24	Base Fill: Parking lot and drive lanes on south side of building by front entrance	APWA Type I		4	151.2	Supplied Value	146.8	Backscatter	97	95 / 100		10582	Jacob Smith
35		11/08/24	Base Fill: Parking lot and drive lanes on south side of building by front entrance	APWA Type I		4	151.2	Supplied Value	147.4	Backscatter	97	95 / 100		10582	Jacob Smith
36		11/08/24	Base Fill: Parking lot and drive lanes on south side of building by front entrance	APWA Type I		4	151.2	Supplied Value	145.6	Backscatter	96	95 / 100		10582	Jacob Smith
37		11/08/24	Base Fill: Parking lot and drive lanes on south side of building by front entrance	APWA Type I		4	151.2	Supplied Value	145.7	Backscatter	96	95 / 100		10582	Jacob Smith
38		11/08/24	Base Fill: Parking lot and drive lanes on south side of building by front entrance	APWA Type I		4	151.2	Supplied Value	146.2	Backscatter	97	95 / 100		10582	Jacob Smith
39		11/08/24	Base Fill: Parking lot and drive lanes on south side of building by front entrance	APWA Type I		4	151.2	Supplied Value	146.7	Backscatter	97	95 / 100		10582	Jacob Smith



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40		11/08/24	Base Fill: Parking lot and drive lanes on south side of building by front entrance	APWA Type I		4	151.2	Supplied Value	146.1	Backscatter	97	95 / 100		10582	Jacob Smith
41		11/08/24	Base Fill: Parking lot and drive lanes on south side of building by front entrance	APWA Type I		4	151.2	Supplied Value	147.2	Backscatter	97	95 / 100		10582	Jacob Smith
42		11/08/24	Base Fill: Parking lot and drive lanes on south side of building by front entrance	APWA Type I		4	151.2	Supplied Value	145.3	Backscatter	96	95 / 100		10582	Jacob Smith
43		11/08/24	Base Fill: Parking lot and drive lanes on south side of building by front entrance	APWA Type I		4	151.2	Supplied Value	146.7	Backscatter	97	95 / 100		10582	Jacob Smith
44		11/08/24	Base Fill: Parking lot and drive lanes on south side of building by front entrance	APWA Type I		4	151.2	Supplied Value	146.6	Backscatter	97	95 / 100		10582	Jacob Smith
45		11/08/24	Base Fill: Parking lot and drive lanes on south side of building by front entrance	APWA Type I		4	151.2	Supplied Value	147.0	Backscatter	97	95 / 100		10582	Jacob Smith
46		11/08/24	Base Fill: Parking lot and drive lanes on south side of building by front entrance	APWA Type I		4	151.2	Supplied Value	148.1	Backscatter	98	95 / 100		10582	Jacob Smith
47		11/08/24	Base Fill: Parking lot and drive lanes on south side of building by front entrance	APWA Type I		4	151.2	Supplied Value	147.6	Backscatter	98	95 / 100		10582	Jacob Smith
48		11/08/24	Base Fill: Parking lot and drive lanes on south side of building by front entrance	APWA Type I		4	151.2	Supplied Value	145.3	Backscatter	96	95 / 100		10582	Jacob Smith



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49		11/08/24	Various: Parking lot and drive lanes on south side of building by front entrance	APWA Type III		2	147.3	Supplied Value	147.8	Backscatter	100	95 / 100		10582	Jacob Smith
50		11/08/24	Various: Parking lot and drive lanes on south side of building by front entrance	APWA Type III		2	147.3	Supplied Value	141.9	Backscatter	96	95 / 100		10582	Jacob Smith
51		11/08/24	Various: Parking lot and drive lanes on south side of building by front entrance	APWA Type III		2	147.3	Supplied Value	143.1	Backscatter	97	95 / 100		10582	Jacob Smith
52		11/08/24	Various: Parking lot and drive lanes on south side of building by front entrance	APWA Type III		2	147.3	Supplied Value	144.2	Backscatter	98	95 / 100		10582	Jacob Smith
53		11/08/24	Various: Parking lot and drive lanes on south side of building by front entrance	APWA Type III		2	147.3	Supplied Value	142.7	Backscatter	97	95 / 100		10582	Jacob Smith
54		11/08/24	Various: Parking lot and drive lanes on south side of building by front entrance	APWA Type III		2	147.3	Supplied Value	144.0	Backscatter	98	95 / 100		10582	Jacob Smith
55		11/08/24	Various: Parking lot and drive lanes on south side of building by front entrance	APWA Type III		2	147.3	Supplied Value	145.0	Backscatter	98	95 / 100		10582	Jacob Smith
56		11/08/24	Various: Parking lot and drive lanes on south side of building by front entrance	APWA Type III		2	147.3	Supplied Value	144.3	Backscatter	98	95 / 100		10582	Jacob Smith
57		11/08/24	Various: Parking lot and drive lanes on south side of building by front entrance	APWA Type III		2	147.3	Supplied Value	145.5	Backscatter	99	95 / 100		10582	Jacob Smith



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58		11/08/24	Various: Parking lot and drive lanes on south side of building by front entrance	APWA Type III		2	147.3	Supplied Value	145.8	Backscatter	99	95 / 100		10582	Jacob Smith
59		11/08/24	Various: Parking lot and drive lanes on south side of building by front entrance	APWA Type III		2	147.3	Supplied Value	145.5	Backscatter	99	95 / 100		10582	Jacob Smith
60		11/08/24	Various: Parking lot and drive lanes on south side of building by front entrance	APWA Type III		2	147.3	Supplied Value	146.1	Backscatter	99	95 / 100		10582	Jacob Smith
61		11/08/24	Various: Parking lot and drive lanes on south side of building by front entrance	APWA Type III		2	147.3	Supplied Value	146.4	Backscatter	99	95 / 100		10582	Jacob Smith



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Remarks				Comments			
				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter" 1: Test taken in SW corner 2: Test taken on nw corner (south of the approach) 3: Sw corner in approach area 4: Test taken in west drive lane 5: Test taken in NW corner (east side of approach) 6: Test taken alone far north edge of lot 7: Test taken near middle of north drive lane 8: Test taken in south west parking areas 9: Test taken in north west parking area 10: Test taken in middle of west parking area 11: Test taken in middle drive lane (approach area) 12: Test taken in middle drive lanes in center of parking lot 13: Test taken in sw parking area 14: Test taken in NE parking area 15, 16: Test taken on east side of lot in drive lane			
Gauge Information							
Gauge SN	Make	Model	Density Count	Moisture Count	Standard Count Date	Last Calibration Date	Last Calibrated By
10582	Humbolt	5001EZ-2	3321	341	11/07/24	04/11/24	Calibration Solutions, LLC
10582	Humbolt	5001EZ-2	3296	351	11/08/24	04/11/24	Calibration Solutions, LLC
1670	Humboldt	5001c	1795	429	11/01/24	04/11/24	Calibration Solutions, LLC