



Professional Service Industries, Inc.  
Three Burwood Lane  
San Antonio, TX 78216  
Texas Firm Registration No. F-03307  
Phone: (210) 342-9377  
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Report No: FDR:03113664-85

Issue No: 1

## Field Density Test Report

These test results apply only to the specific locations and materials noted and may not represent any other locations or elevations. This report may not be reproduced, except in full, without written permission by Professional Service Industries, Inc. If a non-compliance appears on this report, to the extent that the reported non-compliance impacts the project, the resolution is outside the PSI scope of engagement.

Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 8/30/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	8/16/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2187
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	673
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-35-S2	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.0	18.2

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-35-S2	6	121.4	19.0	+0.8	0 to +3	102.0	99.0	≥98	A
2	D 6938	03113664-35-S2	6	122.3	19.1	+0.9	0 to +3	102.7	99.7	≥98	A
3	D 6938	03113664-35-S2	6	121.3	19.3	+1.1	0 to +3	101.7	98.7	≥98	A
4	D 6938	03113664-35-S2	6	121.7	20.0	+1.8	0 to +3	101.4	98.4	≥98	A
5	D 6938	03113664-35-S2	6	121.5	19.5	+1.3	0 to +3	101.7	98.7	≥98	A
6	D 6938	03113664-35-S2	6	121.7	18.8	+0.6	0 to +3	102.4	99.4	≥98	A

### Location

**General Location:** 3/4" Water laterals at Sycamore Crossing

Test No.	Location	Test Elev/Depth	Material/Layer
1	Between lots 4 and 5	1' below S/G elev.	Backfill
2	Between lots 4 and 5	Final S/G elev.	Backfill
3	Between lots 9 and 10	1' below S/G elev.	Backfill
4	Between lots 9 and 10	Final S/G elev.	Backfill
5	Between lots 17 and 18	1' below S/G elev.	Backfill
6	Between lots 17 and 18	Final S/G elev.	Backfill

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



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Report No: FDR:03113664-86

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 8/30/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	8/17/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2179
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	656
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-25-S1	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.9	19.7

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-25-S1	6	124.1	19.7	+0.0	0 to +3	103.7	99.8	≥98	A
2	D 6938	03113664-25-S1	6	124.9	19.9	+0.2	0 to +3	104.2	100.3	≥98	A
3	D 6938	03113664-25-S1	6	124.6	19.7	+0.0	0 to +3	104.1	100.2	≥98	A
4	D 6938	03113664-25-S1	6	124.7	19.7	+0.0	0 to +3	104.2	100.3	≥98	A
5	D 6938	03113664-25-S1	6	123.7	19.9	+0.2	0 to +3	103.2	99.3	≥98	A
6	D 6938	03113664-25-S1	6	124.0	20.1	+0.4	0 to +3	103.2	99.3	≥98	A

### Location

**General Location:** 3/4" Water laterals at Lower Crossing

Test No.	Location	Test Elev/Depth	Material/Layer
1	Between lots 13 and 14	1' below S/G elev.	Backfill
2	Between lots 13 and 14	Final S/G elev.	Backfill
3	Between lots 17 and 18	1' below S/G elev.	Backfill
4	Between lots 17 and 18	Final S/G elev.	Backfill
5	Between lots 20 and 21	1' below S/G elev.	Backfill
6	Between lots 20 and 21	Final S/G elev.	Backfill

### Comments

### Legend

OWC = Optimum Water Content  
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Report No: FDR:03113664-87

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 8/30/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	8/18/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2167
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	662
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-35-S2	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.0	18.2

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-35-S2	6	121.7	19.1	+0.9	0 to +3	102.2	99.2	≥98	A
2	D 6938	03113664-35-S2	6	121.5	19.6	+1.4	0 to +3	101.6	98.6	≥98	A
3	D 6938	03113664-35-S2	6	121.7	20.1	+1.9	0 to +3	101.3	98.3	≥98	A
4	D 6938	03113664-35-S2	6	122.7	19.0	+0.8	0 to +3	103.1	100.1	≥98	A
5	D 6938	03113664-35-S2	6	122.1	20.1	+1.9	0 to +3	101.7	98.7	≥98	A
6	D 6938	03113664-35-S2	6	121.7	20.0	+1.8	0 to +3	101.4	98.4	≥98	A

### Location

**General Location:** 3/4" Water laterals at Lower Hollow

Test No.	Location	Test Elev/Depth	Material/Layer
1	Between lots 12 and 13	1' below S/G elev.	Backfill
2	Between lots 12 and 13	Final S/G elev.	Backfill
3	Between lots 16 and 17	1' below S/G elev.	Backfill
4	Between lots 16 and 17	Final S/G elev.	Backfill
5	Between lots 7 and 8	1' below S/G elev.	Backfill
6	Between lots 7 and 8	Final S/G elev.	Backfill

### Comments

### Legend

OWC = Optimum Water Content  
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Report No: FDR:03113664-88

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 8/30/2022

**Client:** ASHTON WOODS  
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**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	8/19/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2181
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	654
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-35-S2	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.0	18.2

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-35-S2	6	121.7	20.5	+2.3	0 to +3	101.0	98.1	≥95	A
2	D 6938	03113664-35-S2	6	121.9	19.9	+1.7	0 to +3	101.7	98.7	≥95	A
3	D 6938	03113664-35-S2	6	122.0	18.6	+0.4	0 to +3	102.9	99.9	≥95	A
4	D 6938	03113664-35-S2	6	122.1	20.9	+2.7	0 to +3	101.0	98.1	≥95	A
5	D 6938	03113664-35-S2	6	122.2	20.7	+2.5	0 to +3	101.2	98.3	≥95	A
6	D 6938	03113664-35-S2	6	122.5	19.1	+0.9	0 to +3	102.9	99.9	≥95	A

### Location

**General Location:** 3/4" Water laterals at Lower View

Test No.	Location	Test Elev/Depth	Material/Layer
1	Between lots 2 and 3	1' below S/G elev.	Backfill
2	Between lots 2 and 3	Final S/G elev.	Backfill
3	Between lots 8 and 9	1' below S/G elev.	Backfill
4	Between lots 8 and 9	Final S/G elev.	Backfill
5	Between lots 13 and 14	1' below S/G elev.	Backfill
6	Between lots 13 and 14	Final S/G elev.	Backfill

### Comments

### Legend

OWC = Optimum Water Content  
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Report No: FDR:03113664-89

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 8/30/2022

**Client:** ASHTON WOODS  
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SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	8/20/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2170
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	648
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-35-S2	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.0	18.2

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-35-S2	6	122.1	19.8	+1.6	0 to +3	101.9	98.9	≥98	A
2	D 6938	03113664-35-S2	6	122.4	19.7	+1.5	0 to +3	102.3	99.3	≥98	A
3	D 6938	03113664-35-S2	6	121.8	19.3	+1.1	0 to +3	102.1	99.1	≥98	A
4	D 6938	03113664-35-S2	6	122.0	19.6	+1.4	0 to +3	102.0	99.0	≥98	A
5	D 6938	03113664-35-S2	6	122.0	19.3	+1.1	0 to +3	102.3	99.3	≥98	A
6	D 6938	03113664-35-S2	6	121.8	19.4	+1.2	0 to +3	102.0	99.0	≥98	A

### Location

**General Location:** 3/4" Water laterals at Lower Pass

Test No.	Location	Test Elev/Depth	Material/Layer
1	Between lots 5 and 4	1' below S/G elev.	Backfill
2	Between lots 4 and 5	Final S/G elev.	Backfill
3	Between lots 9 and 10	1' below S/G elev.	Backfill
4	Between lots 9 and 10	Final S/G elev.	Backfill
5	Between lots 13 and 14	1' below S/G elev.	Backfill
6	Between lots 13 and 14	Final S/G elev.	Backfill

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
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Professional Service Industries, Inc.  
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Report No: FDR:03113664-90

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 8/30/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	8/22/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2184
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	663
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-35-S2	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.0	18.2

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-35-S2	6	121.9	19.0	+0.8	0 to +4	102.4	99.4	≥98	A
2	D 6938	03113664-35-S2	6	121.9	19.1	+0.9	0 to +4	102.4	99.4	≥98	A
3	D 6938	03113664-35-S2	6	121.3	19.6	+1.4	0 to +4	101.4	98.4	≥98	A
4	D 6938	03113664-35-S2	6	121.3	20.1	+1.9	0 to +4	101.0	98.1	≥98	A
5	D 6938	03113664-35-S2	6	121.2	19.9	+1.7	0 to +4	101.1	98.2	≥98	A
6	D 6938	03113664-35-S2	6	121.5	20.1	+1.9	0 to +4	101.2	98.3	≥98	A

### Location

**General Location:** 3/4" Water laterals at Sycamore Pass

Test No.	Location	Test Elev/Depth	Material/Layer
1	Between lots 1 and 2	1' below S/G elev.	Backfill
2	Between lots 1 and 2	Final S/G elev.	Backfill
3	Between lots 5 and 6	1' below S/G elev.	Backfill
4	Between lots 5 and 6	Final S/G elev.	Backfill
5	Between lots 25 and 26	1' below S/G elev.	Backfill
6	Between lots 25 and 26	Final S/G elev.	Backfill

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
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Professional Service Industries, Inc.  
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Report No: FDR:03113664-91

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 8/30/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
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**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	8/23/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2180
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	682
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-35-S2	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.0	18.2

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-35-S2	6	122.1	19.8	+1.6	0 to +3	101.9	98.9	≥98	A
2	D 6938	03113664-35-S2	6	121.2	18.6	+0.4	0 to +3	102.2	99.2	≥98	A
3	D 6938	03113664-35-S2	6	121.2	18.4	+0.2	0 to +3	102.4	99.4	≥98	A
4	D 6938	03113664-35-S2	6	122.0	19.1	+0.9	0 to +3	102.4	99.4	≥98	A
5	D 6938	03113664-35-S2	6	121.3	19.2	+1.0	0 to +3	101.8	98.8	≥98	A
6	D 6938	03113664-35-S2	6	121.8	19.1	+0.9	0 to +3	102.3	99.3	≥98	A

### Location

**General Location:** 3/4" Water laterals at Sycamore Pass

Test No.	Location	Test Elev/Depth	Material/Layer
1	Between lots 11 and 12	1' below S/G elev.	Backfill
2	Between lots 11 and 12	Final S/G elev.	Backfill
3	Between lots 15 and 16	1' below S/G elev.	Backfill
4	Between lots 15 and 16	Final S/G elev.	Backfill
5	Between lots 16 and 17	1' below S/G elev.	Backfill
6	Between lots 16 and 17	Final S/G elev.	Backfill

### Comments

### Legend

OWC = Optimum Water Content  
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A = TEST RESULTS COMPLY WITH SPECIFICATION





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Report No: FDR:03113664-92

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)  
Date of Issue: 9/9/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	9/1/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2195
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	681
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-35-S2	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.0	18.2

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-35-S2	6	122.1	19.1	+0.9	0 to +3	102.5	99.5	≥98	A
2	D 6938	03113664-35-S2	6	121.9	18.9	+0.7	0 to +3	102.5	99.5	≥98	A
3	D 6938	03113664-35-S2	6	121.6	19.2	+1.0	0 to +3	102.0	99.0	≥98	A
4	D 6938	03113664-35-S2	6	122.0	19.2	+1.0	0 to +3	102.3	99.3	≥98	A

### Location

**General Location:** Drain line "B1"

Test No.	Location	Test Elev/Depth	Material/Layer
1	At STA 1+20	3' below S/G elev.	Backfill
2	At STA 1+25	2' below S/G elev.	Backfill
3	At STA 1+28	1' below S/G elev.	Backfill
4	At STA 1+30	Final S/G elev.	Backfill

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION





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Report No: FDR:03113664-93

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)  
Date of Issue: 9/9/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	9/2/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2186
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	662
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-35-S2	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.0	18.2

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-35-S2	6	121.6	19.4	+1.2	0 to +3	101.8	98.8	≥98	A
2	D 6938	03113664-35-S2	6	121.7	18.9	+0.7	0 to +3	102.4	99.4	≥98	A
3	D 6938	03113664-35-S2	6	122.1	19.0	+0.8	0 to +3	102.6	99.6	≥98	A
4	D 6938	03113664-35-S2	6	121.8	18.6	+0.4	0 to +3	102.7	99.7	≥98	A

### Location

**General Location:** Drain line "B1"

Test No.	Location	Test Elev/Depth	Material/Layer
1	At STA 2+80	3' below S/G elev.	Backfill
2	At STA 2+85	2' below S/G elev.	Backfill
3	At STA 2+90	1' below S/G elev.	Backfill
4	At STA 2+90	Final S/G elev.	Backfill

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



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Report No: FDR:03113664-94

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)  
Date of Issue: 9/9/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	9/6/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2181
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	654
<b>Weather:</b>	Clear to Partly Cloudy		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-35-S2	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.0	18.2

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-35-S2	6	121.5	18.7	+0.5	0 to +3	102.4	99.4	≥98	A
2	D 6938	03113664-35-S2	6	121.9	18.8	+0.6	0 to +3	102.6	99.6	≥98	A
3	D 6938	03113664-35-S2	6	121.9	18.6	+0.4	0 to +3	102.8	99.8	≥98	A
4	D 6938	03113664-35-S2	6	122.3	18.9	+0.7	0 to +3	102.9	99.9	≥98	A

### Location

**General Location:** Drain line "B1"

Test No.	Location	Test Elev/Depth	Material/Layer
1	At STA 3+50	3' below S/G elev.	Backfill
2	At STA 3+55	2' below S/G elev.	Backfill
3	At STA 3+60	1' below S/G elev.	Backfill
4	At STA 3+60	Final S/G elev.	Backfill

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



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Report No: FDR:03113664-95

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)  
Date of Issue: 9/9/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	9/7/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2172
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	658
<b>Weather:</b>	Clear to Partly Cloudy		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-25-S1	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.9	19.7

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-25-S1	6	123.3	19.8	+0.1	0 to +3	102.9	99.0	≥98	A
2	D 6938	03113664-25-S1	6	123.9	19.8	+0.1	0 to +3	103.4	99.5	≥98	A
3	D 6938	03113664-25-S1	6	123.9	19.9	+0.2	0 to +3	103.3	99.4	≥98	A
4	D 6938	03113664-25-S1	6	123.7	19.8	+0.1	0 to +3	103.3	99.4	≥98	A

### Location

**General Location:** Drain line "B2"

Test No.	Location	Test Elev/Depth	Material/Layer
1	At STA 1+00	3' below S/G elev.	Backfill
2	At STA 1+05	2' below S/G elev.	Backfill
3	At STA 1+10	1' below S/G elev.	Backfill
4	At STA 1+15	Final S/G elev.	Backfill

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



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Report No: FDR:03113664-96

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)  
Date of Issue: 9/9/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	9/8/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2179
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	656
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-25-S1	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.9	19.7

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-25-S1	6	124.3	19.9	+0.2	0 to +3	103.7	99.8	≥98	A
2	D 6938	03113664-25-S1	6	123.9	19.9	+0.2	0 to +3	103.3	99.4	≥98	A
3	D 6938	03113664-25-S1	6	124.5	20.5	+0.8	0 to +3	103.3	99.4	≥98	A
4	D 6938	03113664-25-S1	6	123.9	20.0	+0.3	0 to +3	103.3	99.4	≥98	A

### Location

**General Location:** Drain line "B2"

Test No.	Location	Test Elev/Depth	Material/Layer
1	At STA 2+50	3' below S/G elev.	Backfill
2	At STA 2+55	2' below S/G elev.	Backfill
3	At STA 2+60	1' below S/G elev.	Backfill
4	At STA 2+65	Final S/G elev.	Backfill

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



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Report No: FDR:03113664-97

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 9/12/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	9/9/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2156
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	689
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-25-S1	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.9	19.7

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-25-S1	6	123.9	20.3	+0.6	0 to +3	103.0	99.1	≥98	A
2	D 6938	03113664-25-S1	6	124.0	20.1	+0.4	0 to +3	103.2	99.3	≥98	A
3	D 6938	03113664-25-S1	6	124.6	20.3	+0.6	0 to +3	103.6	99.7	≥98	A
4	D 6938	03113664-25-S1	6	124.8	20.6	+0.9	0 to +3	103.5	99.6	≥98	A

### Location

**General Location:** Drain line "B2"

Test No.	Location	Test Elev/Depth	Material/Layer
1	At STA 3+90	3' below S/G elev.	Backfill
2	At STA 3+95	2' below S/G elev.	Backfill
3	At STA 4+00	1' below S/G elev.	Backfill
4	At STA 4+05	Final S/G elev.	Backfill

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



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Report No: FDR:03113664-98

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 9/20/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	9/12/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2189
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	693
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-35-S2	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.0	18.2

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-35-S2	6	121.3	19.1	+0.9	0 to +3	101.8	98.8	≥95	A
2	D 6938	03113664-35-S2	6	122.1	19.2	+1.0	0 to +3	102.4	99.4	≥95	A
3	D 6938	03113664-35-S2	6	121.5	19.3	+1.1	0 to +3	101.8	98.8	≥95	A
4	D 6938	03113664-35-S2	6	121.9	19.0	+0.8	0 to +3	102.4	99.4	≥95	A
5	D 6938	03113664-35-S2	6	121.6	19.1	+0.9	0 to +3	102.1	99.1	≥95	A
6	D 6938	03113664-35-S2	6	121.9	19.6	+1.4	0 to +3	101.9	98.9	≥95	A

### Location

**General Location:** Sycamore Hollow PVC/SCH Elec Duct

Test No.	Location	Test Elev/Depth	Material/Layer
1	From lot 9 to 14	2' below S/G elev.	Backfill
2	From lot 2 to 8	1' below S/G elev.	Backfill
3	From lot 2 to 8	1' below S/G elev.	Backfill
4	From lot 12 to 15	2' below S/G elev.	Backfill

**General Location:** Sycamore Crossing PVC/SCH Elec Duct

Test No.	Location	Test Elev/Depth	Material/Layer
5	From lot 12 to 15	Final S/G elev.	Backfill
6	From lot 9 to 17	1' below S/G elev.	Backfill

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



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Report No: FDR:03113664-98

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 9/20/2022

**Client:** ASHTON WOODS **CC:** COLBY OLGETREE

17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
7	D 6938	03113664-35-S2	6	121.6	19.2	+1.0	0 to +3	102.0	99.0	≥95	A
8	D 6938	03113664-35-S2	6	121.1	19.6	+1.4	0 to +3	101.3	98.3	≥95	A
9	D 6938	03113664-35-S2	6	122.0	19.9	+1.7	0 to +3	101.8	98.8	≥95	A

### Location

**General Location:** Sycamore Crossing PVC/SCH Elec Duct

Test No.	Location	Test Elev/Depth	Material/Layer
7	From lot 9 to 17	Final S/G elev.	Backfill
8	From lot 4 to 11	2' below S/G elev.	Backfill
9	From lot 4 to 11	Final S/G elev.	Backfill

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION





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Report No: FDR:03113664-99

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 9/20/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	9/13/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2215
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	687
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-35-S2	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.0	18.2

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-35-S2	6	122.0	19.8	+1.6	0 to +3	101.8	98.8	≥95	A
2	D 6938	03113664-35-S2	6	121.2	19.3	+1.1	0 to +3	101.6	98.6	≥95	A
3	D 6938	03113664-35-S2	6	121.8	19.8	+1.6	0 to +3	101.7	98.7	≥95	A
4	D 6938	03113664-35-S2	6	121.8	19.1	+0.9	0 to +3	102.3	99.3	≥95	A
5	D 6938	03113664-35-S2	6	121.3	18.9	+0.7	0 to +3	102.0	99.0	≥95	A
6	D 6938	03113664-35-S2	6	121.8	18.8	+0.6	0 to +3	102.5	99.5	≥95	A

### Location

**General Location:** Lower Crossing PVC/SCH Elec Duct

Test No.	Location	Test Elev/Depth	Material/Layer
1	From lot 1 to 1	1' below S/G elev.	Backfill
2	From lot 1 to 1	Final S/G elev.	Backfill
3	From lot 1 to 16	2' below S/G elev.	Backfill
4	From lot 1 to 19	Final S/G elev.	Backfill

**General Location:** Lower Pass PVC/SCH Elec Duct

Test No.	Location	Test Elev/Depth	Material/Layer
5	From lot 1 to 1	1' below S/G elev.	Backfill
6	From lot 1 to 1	Final S/G elev.	Backfill

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



Professional Service Industries, Inc.  
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Report No: FDR:03113664-99

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 9/20/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
7	D 6938	03113664-35-S2	6	121.2	19.6	+1.4	0 to +3	101.3	98.3	≥95	A
8	D 6938	03113664-35-S2	6	121.7	19.0	+0.8	0 to +3	102.3	99.3	≥95	A
9	D 6938	03113664-35-S2	6	121.3	18.9	+0.7	0 to +3	102.0	99.0	≥95	A
10	D 6938	03113664-35-S2	6	121.1	19.7	+1.5	0 to +3	101.2	98.3	≥95	A

### Location

**General Location:** Lower Pass PVC/SCH Elec Duct

Test No.	Location	Test Elev/Depth	Material/Layer
7	From lot 6 to 7	1' below S/G elev.	Backfill
8	From lot 6 to 7	Final S/G elev.	Backfill
9	From lot 1 to 10	2' below S/G elev.	Backfill
10	From lot 1 to 10	Final S/G elev.	Backfill

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



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Report No: FDR:03113664-100

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 9/20/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	9/14/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2173
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	659
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-35-S1	In-situ material	Lt Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	110.9	16.5

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-35-S1	6	125.8	19.0	+2.5	0 to +3	105.7	95.3	≥95	A
2	D 6938	03113664-35-S1	6	128.6	17.5	+1.0	0 to +3	109.4	98.6	≥95	A
3	D 6938	03113664-35-S1	6	128.8	17.2	+0.7	0 to +3	109.9	99.1	≥95	A
4	D 6938	03113664-35-S1	6	128.6	16.8	+0.3	0 to +3	110.1	99.3	≥95	A
5	D 6938	03113664-35-S1	6	128.5	16.9	+0.4	0 to +3	109.9	99.1	≥95	A
6	D 6938	03113664-35-S1	6	129.3	17.1	+0.6	0 to +3	110.4	99.5	≥95	A

### Location

**General Location:** Sycamore Pass PVC/SCH Elec Duct

Test No.	Location	Test Elev/Depth	Material/Layer
1	From lot 4 to 30	1' below S/G elev.	Backfill
2	From lot 4 to 30	Final S/G elev.	Backfill
3	From lot 9 to 25	2' below S/G elev.	Backfill
4	From lot 9 to 25	Final S/G elev.	Backfill
5	From lot 10 to 16	1' below S/G elev.	Backfill
6	From lot 10 to 16	Final S/G elev.	Backfill

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



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Report No: FDR:03113664-101

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 9/20/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	9/15/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2186
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	692
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-35-S2	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.0	18.2

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-35-S2	6	122.1	19.9	+1.7	0 to +3	101.8	98.8	≥95	A
2	D 6938	03113664-35-S2	6	122.1	18.9	+0.7	0 to +3	102.7	99.7	≥95	A
3	D 6938	03113664-35-S2	6	121.8	18.9	+0.7	0 to +3	102.4	99.4	≥95	A
4	D 6938	03113664-35-S2	6	122.4	19.0	+0.8	0 to +3	102.9	99.9	≥95	A

### Location

**General Location:** Lower Hollow PVC/SCH Elec Duct

Test No.	Location	Test Elev/Depth	Material/Layer
1	From lot 2 to 18	1' below S/G elev.	Backfill
2	From lot 2 to 18	Final S/G elev.	Backfill
3	From lot 9 to 12	1' below S/G elev.	Backfill
4	From lot 9 to 12	Final S/G elev.	Backfill

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



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Report No: FDR:03113664-102

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 9/20/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	9/16/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2199
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	681
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-35-S2	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.0	18.2

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-35-S2	6	122.6	19.2	+1.0	0 to +3	102.9	99.9	≥95	A
2	D 6938	03113664-35-S2	6	121.8	18.8	+0.6	0 to +3	102.5	99.5	≥95	A
3	D 6938	03113664-35-S2	6	121.5	18.9	+0.7	0 to +3	102.2	99.2	≥95	A
4	D 6938	03113664-35-S2	6	121.8	19.1	+0.9	0 to +3	102.3	99.3	≥95	A

### Location

**General Location:** Lower View PVC/SCH Elec Duct

Test No.	Location	Test Elev/Depth	Material/Layer
1	From lot 9 to 3	1' below S/G elev.	Backfill
2	From lot 9 to 3	Final S/G elev.	Backfill
3	From lot 10 to 10	1' below S/G elev.	Backfill
4	From lot 10 to 10	Final S/G elev.	Backfill

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



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Report No: FDR:03113664-103

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 10/5/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	10/4/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2218
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	695
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-25-S1	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.9	19.7

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-25-S1	6	124.1	20.3	+0.6	0 to +3	103.2	99.3	≥98	A
2	D 6938	03113664-25-S1	6	123.1	20.9	+1.2	0 to +3	101.8	98.0	≥98	A
3	D 6938	03113664-25-S1	6	123.6	20.8	+1.1	0 to +3	102.3	98.5	≥98	A
4	D 6938	03113664-25-S1	6	124.1	21.2	+1.5	0 to +3	102.4	98.6	≥98	A

### Location

**General Location:** 12" Water Main, Hennesby Way

Test No.	Location	Test Elev/Depth	Material/Layer
1	At STA 24+50	2' below S/G elev.	Backfill
2	At STA 25+50	2' below S/G elev.	Backfill
3	At STA 29+50	2' below S/G elev.	Backfill
4	At STA 31+50	2' below S/G elev.	Backfill

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



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Report No: FDR:03113664-104

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)  
Date of Issue: 10/18/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	10/5/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2190
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	683
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-35-S2	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.0	18.2

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-35-S2	6	121.3	19.5	+1.3	0 to +3	101.5	98.5	≥98	A
2	D 6938	03113664-35-S2	6	121.6	19.6	+1.4	0 to +3	101.7	98.7	≥98	A
3	D 6938	03113664-35-S2	6	121.4	19.9	+1.7	0 to +3	101.3	98.3	≥98	A
4	D 6938	03113664-35-S2	6	122.2	19.0	+0.8	0 to +3	102.7	99.7	≥98	A

### Location

**General Location:** 12" Water Main, Hennesby Way

Test No.	Location	Test Elev/Depth	Material/Layer
1	At STA 23+50	Final lift	Backfill (SAWS)
2	At STA 26+00	Final lift	Backfill (SAWS)
3	At STA 28+50	Final lift	Backfill (SAWS)
4	At STA 31+50	Final lift	Backfill (SAWS)

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION





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Report No: FDR:03113664-105

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)  
Date of Issue: 10/18/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	10/6/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2179
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	680
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-35-S2	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.0	18.2

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-35-S2	6	121.9	19.9	+1.7	0 to +3	101.7	98.7	≥98	A
2	D 6938	03113664-35-S2	6	121.0	19.3	+1.1	0 to +3	101.4	98.4	≥98	A
3	D 6938	03113664-35-S2	6	121.8	18.9	+0.7	0 to +3	102.4	99.4	≥98	A
4	D 6938	03113664-35-S2	6	121.0	19.7	+1.5	0 to +3	101.1	98.2	≥98	A

### Location

**General Location:** 12" Water Main, Hennesby Way

Test No.	Location	Test Elev/Depth	Material/Layer
1	At STA 33+00	2' below S/G elev.	Backfill (SAWS)
2	At STA 35+50	2' below S/G elev.	Backfill (SAWS)
3	At STA 37+50	2' below S/G elev.	Backfill (SAWS)
4	At STA 39+50	2' below S/G elev.	Backfill (SAWS)

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



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Report No: FDR:03113664-106

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)  
Date of Issue: 10/18/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	10/7/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2188
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	693
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-35-S2	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.0	18.2

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-35-S2	6	121.0	19.9	+1.7	0 to +3	100.9	98.0	≥98	A
2	D 6938	03113664-35-S2	6	121.8	18.8	+0.6	0 to +3	102.5	99.5	≥98	A
3	D 6938	03113664-35-S2	6	121.9	19.9	+1.7	0 to +3	101.7	98.7	≥98	A
4	D 6938	03113664-35-S2	6	122.0	20.6	+2.4	0 to +3	101.2	98.3	≥98	A

### Location

**General Location:** 12" Water Main, Hennesby Way

Test No.	Location	Test Elev/Depth	Material/Layer
1	At STA 33+00	Final lift	Backfill (SAWS)
2	At STA 35+50	Final lift	Backfill (SAWS)
3	At STA 37+50	Final lift	Backfill (SAWS)
4	At STA 39+50	Final lift	Backfill (SAWS)

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



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Report No: FDR:03113664-107

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)  
Date of Issue: 10/18/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	10/8/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2170
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	692
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-25-S1	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.9	19.7

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-25-S1	6	123.6	19.8	+0.1	0 to +3	103.2	99.3	≥98	A
2	D 6938	03113664-25-S1	6	124.5	19.9	+0.2	0 to +3	103.8	99.9	≥98	A
3	D 6938	03113664-25-S1	6	123.9	20.2	+0.5	0 to +3	103.1	99.2	≥98	A
4	D 6938	03113664-25-S1	6	123.8	20.1	+0.4	0 to +3	103.1	99.2	≥98	A

### Location

**General Location:** 12" Water Main, Hennesby Way

Test No.	Location	Test Elev/Depth	Material/Layer
1	At STA 41+50	2' below S/G elev.	Backfill (SAWS)
2	At STA 43+50	2' below S/G elev.	Backfill (SAWS)
3	At STA 45+50	2' below S/G elev.	Backfill (SAWS)
4	At STA 47+50	2' below S/G elev.	Backfill (SAWS)

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



Professional Service Industries, Inc.  
Three Burwood Lane  
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Texas Firm Registration No. F-03307  
Phone: (210) 342-9377  
Fax: (210) 342-9401

Report No: FDR:03113664-108

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)  
Date of Issue: 10/18/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	10/10/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2188
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	680
<b>Weather:</b>	Clear to Partly Cloudy		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-25-S1	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.9	19.7

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-25-S1	6	124.7	20.3	+0.6	0 to +3	103.7	99.8	≥98	A
2	D 6938	03113664-25-S1	6	123.4	19.9	+0.2	0 to +3	102.9	99.0	≥98	A
3	D 6938	03113664-25-S1	6	124.5	20.5	+0.8	0 to +3	103.3	99.4	≥98	A
4	D 6938	03113664-25-S1	6	123.9	20.8	+1.1	0 to +3	102.6	98.7	≥98	A

### Location

**General Location:** 12" Water Main, Hennesby Way

Test No.	Location	Test Elev/Depth	Material/Layer
1	At STA 41+50	Final lift	Backfill (SAWS)
2	At STA 43+50	Final lift	Backfill (SAWS)
3	At STA 45+50	Final lift	Backfill (SAWS)
4	At STA 47+50	Final lift	Backfill (SAWS)

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



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Texas Firm Registration No. F-03307  
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Report No: FDR:03113664-109

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)  
Date of Issue: 10/24/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	10/12/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2213
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	687
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-35-S2	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.0	18.2

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-35-S2	6	121.3	19.3	+1.1	0 to +4	101.7	98.7	≥98	A
2	D 6938	03113664-35-S2	6	122.9	19.0	+0.8	0 to +4	103.3	100.3	≥98	A
3	D 6938	03113664-35-S2	6	123.5	20.1	+1.9	0 to +4	102.8	99.8	≥98	A
4	D 6938	03113664-35-S2	6	121.9	20.0	+1.8	0 to +4	101.6	98.6	≥98	A

### Location

**General Location:** 12" Water Main, Hennesby lane

Test No.	Location	Test Elev/Depth	Material/Layer
1	At STA 1+00	3' below S/G elev.	Backfill (SAWS)
2	At STA 4+00	3' below S/G elev.	Backfill (SAWS)
3	At STA 8+00	3' below S/G elev.	Backfill (SAWS)
4	At STA 12+50	3' below S/G elev.	Backfill (SAWS)

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



Professional Service Industries, Inc.  
Three Burwood Lane  
San Antonio, TX 78216  
Texas Firm Registration No. F-03307  
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Report No: FDR:03113664-111

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)  
Date of Issue: 10/24/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	10/19/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	R.T.M. Construction, Ltd	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2181
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	683
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-35-S2	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.0	18.2

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-35-S2	6	120.3	19.2	+1.0	0 to +4	100.9	98.0	≥98	A
2	D 6938	03113664-35-S2	6	122.9	20.1	+1.9	0 to +4	102.3	99.3	≥98	A
3	D 6938	03113664-35-S2	6	121.9	19.0	+0.8	0 to +4	102.4	99.4	≥98	A
4	D 6938	03113664-35-S2	6	122.1	20.8	+2.6	0 to +4	101.1	98.2	≥98	A

### Location

**General Location:** 12" Water Main, Hennersby lane

Test No.	Location	Test Elev/Depth	Material/Layer
1	At STA 1+50	2' below S/G elev.	Backfill (SAWS)
2	At STA 4+50	2' below S/G elev.	Backfill (SAWS)
3	At STA 8+50	2' below S/G elev.	Backfill (SAWS)
4	At STA 12+50	2' below S/G elev.	Backfill (SAWS)

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



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Texas Firm Registration No. F-03307  
Phone: (210) 342-9377  
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Report No: FDR:03113664-112

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)  
Date of Issue: 10/24/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	10/20/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	R.T.M. Construction, Ltd	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2164
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	653
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-35-S2	In-situ material	Brown Lean Clay w/Sand (CL), (Subgrade / Backfill / General Fill)	ASTM D 698 (A)	103.0	18.2

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-35-S2	6	121.1	19.8	+1.6	0 to +4	101.1	98.2	≥98	A
2	D 6938	03113664-35-S2	6	121.3	20.1	+1.9	0 to +4	101.0	98.1	≥98	A
3	D 6938	03113664-35-S2	6	122.0	20.9	+2.7	0 to +4	100.9	98.0	≥98	A
4	D 6938	03113664-35-S2	6	122.7	21.2	+3.0	0 to +4	101.2	98.3	≥98	A
5	D 6938	03113664-35-S2	6	122.4	20.8	+2.6	0 to +4	101.3	98.3	≥98	A
6	D 6938	03113664-35-S2	6	121.9	19.2	+1.0	0 to +4	102.3	99.3	≥98	A

### Location

**General Location:** 12" Water Main, Hennersby lane

Test No.	Location	Test Elev/Depth	Material/Layer
1	At STA 2+00	1' below S/G elev.	Backfill
2	At STA 5+00	1' below S/G elev.	Backfill
3	At STA 9+00	1' below S/G elev.	Backfill
4	At STA 13+50	1' below S/G elev.	Backfill
5	At STA 2+50	Final S/G elev.	Backfill
6	At STA 5+00	Final S/G elev.	Backfill

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION





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Texas Firm Registration No. F-03307  
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Report No: FDR:03113664-112

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 10/24/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
7	D 6938	03113664-35-S2	6	122.1	20.7	+2.5	0 to +4	101.2	98.3	≥98	A
8	D 6938	03113664-35-S2	6	121.9	19.1	+0.9	0 to +4	102.4	99.4	≥98	A

### Location

**General Location:** 12" Water Main, Hennersby lane

Test No.	Location	Test Elev/Depth	Material/Layer
7	At STA 13+00	Final S/G elev.	Backfill
8	At STA 13+50	Final S/G elev.	Backfill

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



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Texas Firm Registration No. F-03307  
Phone: (210) 342-9377  
Fax: (210) 342-9401

Report No: FDR:03113664-122

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)  
Date of Issue: 11/16/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

**Tested By:** Benjamin Urbina  
**Field Methods:** ASTM D 6938  
**Gauge Make/Model:** Troxler/3430  
**Standard Count: Density:** 2192  
**Standard Count: Moisture:** 681  
**Date Tested:** 11/7/2022  
**Test Mode:** Direct Transmission  
**Serial Number:** 65455

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-123-S1	In-situ material	Brown Clay (Lime Treated Subgrade)	ASTM D 698 (A)	86.0	28.2
03113664-123-S2	In-situ material	Brown Clay (Lime Treated Subgrade)	ASTM D 698 (A)	90.1	24.5
03113664-127-S2	In-situ material	Brown Clay (Lime Treated Subgrade)	ASTM D 698 (A)	89.0	24.7

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC (%)	OWC Var (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-123-S1	6	111.0	28.5	+0.3	0 to +4	86.4	100.5	≥95	A
2	D 6938	03113664-123-S1	6	110.5	28.3	+0.1	0 to +4	86.1	100.1	≥95	A
3	D 6938	03113664-123-S1	6	110.4	28.2	+0.0	0 to +4	86.1	100.1	≥95	A
4	D 6938	03113664-123-S1	6	110.5	28.5	+0.3	0 to +4	86.0	100.0	≥95	A
5	D 6938	03113664-123-S2	6	112.3	24.5	+0.0	0 to +4	90.2	100.1	≥95	A
6	D 6938	03113664-123-S2	6	112.5	24.6	+0.1	0 to +4	90.3	100.2	≥95	A

### Location

**General Location:** Sycamore Hollow

Test No.	Location	Test Elev/Depth	Material/Layer
1	STA: 1+50	Lime Stab.	Lime Stab.
2	STA: 3+30	Subgrade	Subgrade
3	STA: 5+50	Lime Stab.	Subgrade
4	STA: 7+20	Subgrade	Lime Stab.
		Subgrade	Subgrade

**General Location:** Lower Crossing

Test No.	Location	Test Elev/Depth	Material/Layer
5	STA: 1+00	Lime Stab.	Lime Stab.
6	STA: 3+50	Lime Stab.	Subgrade
		Subgrade	Subgrade

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



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Report No: FDR:03113664-122

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)  
Date of Issue: 11/16/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
7	D 6938	03113664-123-S2	6	111.4	24.8	+0.3	0 to +4	89.3	99.1	≥95	A
8	D 6938	03113664-123-S2	6	112.3	25.0	+0.5	0 to +4	89.8	99.7	≥95	A
9	D 6938	03113664-127-S2	6	111.0	24.7	+0.0	0 to +4	89.0	100.0	≥95	A
10	D 6938	03113664-127-S2	6	110.8	24.9	+0.2	0 to +4	88.7	99.7	≥95	A
11	D 6938	03113664-127-S2	6	110.0	24.9	+0.2	0 to +4	88.1	99.0	≥95	A
12	D 6938	03113664-127-S2	6	110.9	24.7	+0.0	0 to +4	88.9	99.9	≥95	A

### Location

**General Location:** Lower Crossing

Test No.	Location	Test Elev/Depth	Material/Layer
7	STA: 5+80	Lime Stab. Subgrade	Lime Stab. Subgrade
8	STA: 7+50	Lime Stab. Subgrade	Lime Stab. Subgrade

**General Location:** Lower View

Test No.	Location	Test Elev/Depth	Material/Layer
9	STA: 1+20	Lime Stab. Subgrade	Lime Stab. Subgrade
10	STA: 3+20	Lime Stab. Subgrade	Lime Stab. Subgrade
11	STA: 5+30	Lime Stab. Subgrade	Lime Stab. Subgrade
12	STA: 7+00	Lime Stab. Subgrade	Lime Stab. Subgrade

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



Professional Service Industries, Inc.  
Three Burwood Lane  
San Antonio, TX 78216  
Texas Firm Registration No. F-03307  
Phone: (210) 342-9377  
Fax: (210) 342-9401

Report No: FDR:03113664-124

Issue No: 1

## Field Density Test Report

These test results apply only to the specific locations and materials noted and may not represent any other locations or elevations. This report may not be reproduced, except in full, without written permission by Professional Service Industries, Inc. If a non-compliance appears on this report, to the extent that the reported non-compliance impacts the project, the resolution is outside the PSI scope of engagement.

Approved Signatory: Ernesto Gomez (Project Manager)  
Date of Issue: 11/16/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

**Tested By:** Benjamin Urbina  
**Field Methods:** ASTM D 6938  
**Gauge Make/Model:** Troxler/3430  
**Standard Count: Density:** 2168  
**Standard Count: Moisture:** 680  
**Date Tested:** 11/8/2022  
**Test Mode:** Direct Transmission  
**Serial Number:** 65455

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft³)	OWC (%)
03113664-123-S1	In-situ material	Brown Clay (Lime Treated Subgrade)	ASTM D 698 (A)	86.0	28.2
03113664-127-S1	In-situ material	Brown Clay (Lime Treated Subgrade)	ASTM D 698 (A)	89.4	24.7
03113664-123-S2	In-situ material	Brown Clay (Lime Treated Subgrade)	ASTM D 698 (A)	90.1	24.5
03113664-127-S2	In-situ material	Brown Clay (Lime Treated Subgrade)	ASTM D 698 (A)	89.0	24.7

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft³)	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft³)	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-123-S1	6	109.3	28.3	+0.1	0 to +4	85.2	99.1	≥95	A
2	D 6938	03113664-123-S1	6	110.0	28.8	+0.6	0 to +4	85.4	99.3	≥95	A
3	D 6938	03113664-123-S1	6	110.4	28.7	+0.5	0 to +4	85.8	99.8	≥95	A
4	D 6938	03113664-123-S1	6	110.5	28.7	+0.5	0 to +4	85.9	99.9	≥95	A
5	D 6938	03113664-123-S1	6	110.1	28.7	+0.5	0 to +4	85.5	99.4	≥95	A
6	D 6938	03113664-123-S1	6	110.2	28.2	+0.0	0 to +4	86.0	100.0	≥95	A
7	D 6938	03113664-127-S1	6	111.1	24.7	+0.0	0 to +4	89.1	99.7	≥95	A

### Location

**General Location:** Syhcamore Crossing

Test No.	Location	Test Elev/Depth	Material/Layer
1	STA: 1+50	Lime Slab.	Lime Slab.
2	STA: 3+10	Subgrade	Subgrade
3	STA: 5+40	Lime Slab.	Lime Slab.
4	STA: 7+60	Subgrade	Subgrade
5	STA: 9+80	Lime Slab.	Lime Slab.
6	STA: 11+90	Subgrade	Subgrade

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



Professional Service Industries, Inc.  
Three Burwood Lane  
San Antonio, TX 78216  
Texas Firm Registration No. F-03307  
Phone: (210) 342-9377  
Fax: (210) 342-9401

Report No: FDR:03113664-124

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 11/16/2022

**Client:** ASHTON WOODS **CC:** COLBY OLGETREE

17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Location

**General Location:** Syhcamore Pass

Test No.	Location	Test Elev/Depth	Material/Layer
7	STA: 1+00	Lime Stab. Subgrade	Lime Stab. Subgrade

### Comments

### Legend

OWC = Optimum Water Content  
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Report No: FDR:03113664-124

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)  
Date of Issue: 11/16/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
8	D 6938	03113664-127-S1	6	110.6	25.0	+0.3	0 to +4	88.5	99.0	≥95	A
9	D 6938	03113664-127-S1	6	111.0	24.8	+0.1	0 to +4	88.9	99.4	≥95	A
10	D 6938	03113664-127-S1	6	110.9	25.1	+0.4	0 to +4	88.6	99.1	≥95	A
11	D 6938	03113664-127-S1	6	111.5	25.5	+0.8	0 to +4	88.8	99.3	≥95	A
12	D 6938	03113664-123-S2	6	111.7	25.2	+0.7	0 to +4	89.2	99.0	≥95	A
13	D 6938	03113664-123-S2	6	112.3	25.0	+0.5	0 to +4	89.8	99.7	≥95	A
14	D 6938	03113664-127-S2	6	110.4	24.8	+0.1	0 to +4	88.5	99.4	≥95	A
15	D 6938	03113664-127-S2	6	111.0	24.9	+0.2	0 to +4	88.9	99.9	≥95	A
16	D 6938	03113664-127-S2	6	111.2	25.0	+0.3	0 to +4	89.0	100.0	≥95	A
17	D 6938	03113664-127-S2	6	110.9	24.7	+0.0	0 to +4	88.9	99.9	≥95	A
18	D 6938	03113664-127-S2	6	110.8	24.9	+0.2	0 to +4	88.7	99.7	≥95	A
19	D 6938	03113664-127-S2	6	111.4	25.3	+0.6	0 to +4	88.9	99.9	≥95	A

### Location

**General Location:** Syhcamore Pass

Test No.	Location	Test Elev/Depth	Material/Layer
8	STA: 3+80	Lime Stab.	Lime Stab.
9	STA: 6+00	Subgrade	Subgrade
10	STA: 8+20	Lime Stab.	Lime Stab.
11	STA: 10+00	Subgrade	Subgrade

**General Location:** Lower Hollow

Test No.	Location	Test Elev/Depth	Material/Layer
12	STA: 2+00	Lime Stab.	Lime Stab.
13	STA: 4+10	Subgrade	Subgrade

**General Location:** Lower Pass

Test No.	Location	Test Elev/Depth	Material/Layer
14	STA: 2+00	Lime Stab.	Lime Stab.
15	STA: 3+80	Subgrade	Subgrade
16	STA: 6+00	Lime Stab.	Lime Stab.
17	STA: 8+30	Subgrade	Subgrade
18	STA: 10+60	Lime Stab.	Lime Stab.
19	STA: 12+40	Subgrade	Subgrade

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density



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Report No: FDR:03113664-125

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)  
Date of Issue: 11/16/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

**Tested By:** Benjamin Urbina  
**Field Methods:** ASTM D 6938  
**Gauge Make/Model:** Troxler/3430  
**Standard Count: Density:** 2175  
**Standard Count: Moisture:** 692  
**Date Tested:** 11/9/2022  
**Test Mode:** Direct Transmission  
**Serial Number:** 65455

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-123-S2	In-situ material	Brown Clay (Lime Treated Subgrade)	ASTM D 698 (A)	90.1	24.5

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-123-S2	6	111.8	25.2	+0.7	0 to +4	89.3	99.1	≥95	A
2	D 6938	03113664-123-S2	6	111.7	24.9	+0.4	0 to +4	89.4	99.2	≥95	A
3	D 6938	03113664-123-S2	6	112.6	24.5	+0.0	0 to +4	90.4	100.3	≥95	A
4	D 6938	03113664-123-S2	6	112.3	25.1	+0.6	0 to +4	89.8	99.7	≥95	A
5	D 6938	03113664-123-S2	6	112.3	24.9	+0.4	0 to +4	89.9	99.8	≥95	A
6	D 6938	03113664-123-S2	6	112.4	24.9	+0.4	0 to +4	90.0	99.9	≥95	A
7	D 6938	03113664-123-S2	6	112.6	25.2	+0.7	0 to +4	89.9	99.8	≥95	A

### Location

**General Location:** Hennersby Way

Test No.	Location	Test Elev/Depth	Material/Layer
1	STA: 1+00	Lime Stab.	Lime Stab.
2	STA: 3+70	Subgrade	Subgrade
3	STA: 5+80	Lime Stab.	Lime Stab.
4	STA: 8+00	Subgrade	Subgrade
5	STA: 9+80	Lime Stab.	Lime Stab.
6	STA: 11+80	Subgrade	Subgrade
7	STA: 13+60	Lime Stab.	Lime Stab.

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION





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Report No: FDR:03113664-132

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 12/5/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	11/28/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2211
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	682
<b>Weather:</b>	Clear to Partly Cloudy		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-131-S2	Ace Aggregates	Crushed Limestone (Roadway Base)	ASTM D 1557 (C)	140.3	6.1

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-131-S2	6	148.2	6.5	+0.4	-1 to +3	139.2	99.2	≥95	A
2	D 6938	03113664-131-S2	6	148.9	6.6	+0.5	-1 to +3	139.7	99.6	≥95	A
3	D 6938	03113664-131-S2	6	148.6	6.3	+0.2	-1 to +3	139.8	99.6	≥95	A
4	D 6938	03113664-131-S2	6	148.5	6.4	+0.3	-1 to +3	139.6	99.5	≥95	A
5	D 6938	03113664-131-S2	6	149.2	6.9	+0.8	-1 to +3	139.6	99.5	≥95	A
6	D 6938	03113664-131-S2	6	148.0	6.3	+0.2	-1 to +3	139.2	99.2	≥95	A

### Location

**General Location:** Sycamore Hollow

Test No.	Location	Test Elev/Depth	Material/Layer
1	At STA 1+50	1st lift	Base (Pavement)
2	At STA 3+30	1st lift	Base (Pavement)
3	At STA 5+50	1st lift	Base (Pavement)
4	At STA 7+20	1st lift	Base (Pavement)

**General Location:** Lower Crossing

Test No.	Location	Test Elev/Depth	Material/Layer
5	At STA 1+00	1st lift	Base (Pavement)
6	At STA 3+50	1st lift	Base (Pavement)

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
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Report No: FDR:03113664-132

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 12/5/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232

**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
7	D 6938	03113664-131-S2	6	148.1	6.9	+0.8	-1 to +3	138.5	98.7	≥95	A
8	D 6938	03113664-131-S2	6	148.9	6.2	+0.1	-1 to +3	140.2	99.9	≥95	A

### Location

**General Location:** Lower Crossing

Test No.	Location	Test Elev/Depth	Material/Layer
7	At STA 5+80	1st lift	Base (Pavement)
8	At STA 7+50	1st lift	Base (Pavement)

### Comments

### Legend

OWC = Optimum Water Content  
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Report No: FDR:03113664-133

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 12/5/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	11/30/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2198
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	680
<b>Weather:</b>	Cloudy		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-131-S1	Ace Aggregates	Crushed Limestone (Roadway Base)	ASTM D 1557 (C)	138.0	6.5

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-131-S1	6	146.2	6.7	+0.2	-1 to +3	137.0	99.3	≥95	A
2	D 6938	03113664-131-S1	6	147.1	7.2	+0.7	-1 to +3	137.2	99.4	≥95	A
3	D 6938	03113664-131-S1	6	147.2	7.2	+0.7	-1 to +3	137.3	99.5	≥95	A
4	D 6938	03113664-131-S1	6	147.0	7.3	+0.8	-1 to +3	137.0	99.3	≥95	A
5	D 6938	03113664-131-S1	6	145.9	7.8	+1.3	-1 to +3	135.3	98.0	≥95	A
6	D 6938	03113664-131-S1	6	147.0	7.1	+0.6	-1 to +3	137.3	99.5	≥95	A

### Location

**General Location:** Sycamore Crossing

Test No.	Location	Test Elev/Depth	Material/Layer
1	At STA 1+50	1st lift	Base (Pavement)
2	At STA 3+10	1st lift	Base (Pavement)
3	At STA 5+40	1st lift	Base (Pavement)
4	At STA 7+60	1st lift	Base (Pavement)
5	At STA 9+80	1st lift	Base (Pavement)
6	At STA 11+90	1st lift	Base (Pavement)

### Comments

### Legend

OWC = Optimum Water Content  
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Report No: FDR:03113664-133

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 12/5/2022

**Client:** ASHTON WOODS **CC:** COLBY OLGETREE

17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
7	D 6938	03113664-131-S1	6	146.9	7.0	+0.5	-1 to +3	137.3	99.5	≥95	A
8	D 6938	03113664-131-S1	6	147.0	7.1	+0.6	-1 to +3	137.3	99.5	≥95	A
9	D 6938	03113664-131-S1	6	146.8	6.9	+0.4	-1 to +3	137.3	99.5	≥95	A
10	D 6938	03113664-131-S1	6	146.5	6.8	+0.3	-1 to +3	137.2	99.4	≥95	A
11	D 6938	03113664-131-S1	6	147.1	7.3	+0.8	-1 to +3	137.1	99.3	≥95	A
12	D 6938	03113664-131-S1	6	145.2	7.6	+1.1	-1 to +3	134.9	97.8	≥95	A

### Location

**General Location:** Sycamore Pass

Test No.	Location	Test Elev/Depth	Material/Layer
7	At STA 1+00	1st lift	Base (Pavement)
8	At STA 3+80	1st lift	Base (Pavement)
9	At STA 6+00	1st lift	Base (Pavement)
10	At STA 8+20	1st lift	Base (Pavement)

**General Location:** Lower Hallow

Test No.	Location	Test Elev/Depth	Material/Layer
11	At STA 2+00	1st lift	Base (Pavement)
12	At STA 4+10	1st lift	Base (Pavement)

### Comments

### Legend

OWC = Optimum Water Content  
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## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 12/5/2022

**Client:** ASHTON WOODS **CC:** COLBY OLGETREE

17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
13	D 6938	03113664-131-S1	6	145.6	7.6	+1.1	-1 to +3	135.3	98.0	≥95	A
14	D 6938	03113664-131-S1	6	145.1	7.8	+1.3	-1 to +3	134.6	97.5	≥95	A
15	D 6938	03113664-131-S1	6	146.1	7.9	+1.4	-1 to +3	135.4	98.1	≥95	A
16	D 6938	03113664-131-S1	6	145.2	7.9	+1.4	-1 to +3	134.6	97.5	≥95	A
17	D 6938	03113664-131-S1	6	146.9	7.3	+0.8	-1 to +3	136.9	99.2	≥95	A
18	D 6938	03113664-131-S1	6	146.0	7.9	+1.4	-1 to +3	135.3	98.0	≥95	A

### Location

**General Location:** Lower Pass

Test No.	Location	Test Elev/Depth	Material/Layer
13	At STA 2+00	1st lift	Base (Pavement)
14	At STA 3+80	1st lift	Base (Pavement)
15	At STA 6+00	1st lift	Base (Pavement)
16	At STA 8+30	1st lift	Base (Pavement)
17	At STA 10+60	1st lift	Base (Pavement)
18	At STA 12+40	1st lift	Base (Pavement)

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



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Report No: FDR:03113664-134

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 12/5/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	11/30/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2169
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	689
<b>Weather:</b>	Cloudy/ Lt. Rain		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-131-S2	Ace Aggregates	Crushed Limestone (Roadway Base)	ASTM D 1557 (C)	140.3	6.1

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-131-S2	6	149.1	6.8	+0.7	-1 to +3	139.6	99.5	≥95	A
2	D 6938	03113664-131-S2	6	149.3	6.9	+0.8	-1 to +3	139.7	99.6	≥95	A
3	D 6938	03113664-131-S2	6	148.6	6.8	+0.7	-1 to +3	139.1	99.1	≥95	A
4	D 6938	03113664-131-S2	6	148.0	6.5	+0.4	-1 to +3	139.0	99.1	≥95	A
5	D 6938	03113664-131-S2	6	148.5	6.9	+0.8	-1 to +3	138.9	99.0	≥95	A
6	D 6938	03113664-131-S2	6	149.2	7.0	+0.9	-1 to +3	139.4	99.4	≥95	A

### Location

**General Location:** Lower View

Test No.	Location	Test Elev/Depth	Material/Layer
1	At STA 1+20	1st lift	Base (Pavement)
2	At STA 3+30	1st lift	Base (Pavement)
3	At STA 5+30	1st lift	Base (Pavement)
4	At STA 7+00	1st lift	Base (Pavement)

**General Location:** Hennersby Way

Test No.	Location	Test Elev/Depth	Material/Layer
5	At STA 1+00	1st lift	Base (Pavement)
6	At STA 3+70	1st lift	Base (Pavement)

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



Professional Service Industries, Inc.  
Three Burwood Lane  
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Texas Firm Registration No. F-03307  
Phone: (210) 342-9377  
Fax: (210) 342-9401

Report No: FDR:03113664-134

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 12/5/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
7	D 6938	03113664-131-S2	6	146.3	7.2	+1.1	-1 to +3	136.5	97.3	≥95	A
8	D 6938	03113664-131-S2	6	146.4	7.2	+1.1	-1 to +3	136.6	97.4	≥95	A
9	D 6938	03113664-131-S2	6	148.9	6.8	+0.7	-1 to +3	139.4	99.4	≥95	A
10	D 6938	03113664-131-S2	6	146.9	7.1	+1.0	-1 to +3	137.2	97.8	≥95	A
11	D 6938	03113664-131-S2	6	148.0	7.2	+1.1	-1 to +3	138.1	98.4	≥95	A

### Location

**General Location:** Hennersby Way

Test No.	Location	Test Elev/Depth	Material/Layer
7	At STA 5+80	1st lift	Base (Pavement)
8	At STA 8+00	1st lift	Base (Pavement)
9	At STA 10+00	1st lift	Base (Pavement)
10	At STA 11+80	1st lift	Base (Pavement)
11	At STA 13+50	1st lift	Base (Pavement)

### Comments

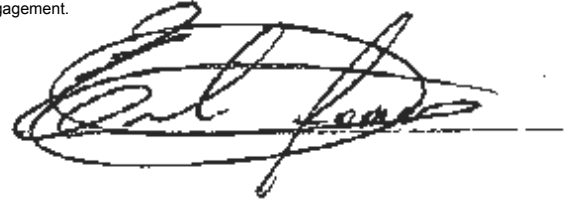
### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
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# Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)  
Date of Issue: 12/12/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

## Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	12/5/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2180
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	675
<b>Weather:</b>	Cloudy		

## Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-131-S1	Ace Aggregates	Crushed Limestone (Roadway Base)	ASTM D 1557 (C)	138.0	6.5

## Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-131-S1	4	145.5	7.6	+1.1	-2 to +2	135.2	98.0	≥95	A
2	D 6938	03113664-131-S1	4	145.0	7.6	+1.1	-2 to +2	134.8	97.7	≥95	A
3	D 6938	03113664-131-S1	4	147.2	7.2	+0.7	-2 to +2	137.3	99.5	≥95	A
4	D 6938	03113664-131-S1	4	146.9	7.0	+0.5	-2 to +2	137.3	99.5	≥95	A
5	D 6938	03113664-131-S1	6	146.6	7.2	+0.7	-2 to +2	136.8	99.1	≥95	A
6	D 6938	03113664-131-S1	4	146.5	6.9	+0.4	-2 to +2	137.0	99.3	≥95	A

## Location

**General Location:** Hennersby Way pavement

Test No.	Location	Test Elev/Depth	Material/Layer
1	At STA 1+50	2nd lift	Base (Pavement)
2	At STA 3+70	2nd lift	Base (Pavement)
3	At STA 5+80	2nd lift	Base (Pavement)
4	At STA 8+00	2nd lift	Base (Pavement)
5	At STA 10+10	2nd lift	Base (Pavement)
6	At STA 11+80	2nd lift	Base (Pavement)

## Comments

## Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



Professional Service Industries, Inc.  
Three Burwood Lane  
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Texas Firm Registration No. F-03307  
Phone: (210) 342-9377  
Fax: (210) 342-9401

Report No: FDR:03113664-137

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 12/12/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232

**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
7	D 6938	03113664-131-S1	4	147.0	7.2	+0.7	-2 to +2	137.1	99.3	≥95	A

### Location

**General Location:** Hennersby Way pavement

Test No.	Location	Test Elev/Depth	Material/Layer
7	At STA 13+50	2nd lift	Base (Pavement)

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



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Phone: (210) 342-9377  
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Report No: FDR:03113664-144

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)  
Date of Issue: 12/16/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	12/13/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2199
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	681
<b>Weather:</b>	Cloudy		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-143-S1	Vulcan Materials	Crushed Limestone (Roadway Base - Vulcan O'Conner)	ASTM D 698 (C)	137.2	8.1

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-143-S1	6	148.5	8.9	+0.8	-2 to +2	136.4	99.4	≥95	A
2	D 6938	03113664-143-S1	6	148.2	8.9	+0.8	-2 to +2	136.1	99.2	≥95	A
3	D 6938	03113664-143-S1	6	148.8	8.6	+0.5	-2 to +2	137.0	99.9	≥95	A
4	D 6938	03113664-143-S1	6	147.3	9.1	+1.0	-2 to +2	135.0	98.4	≥95	A
5	D 6938	03113664-143-S1	6	148.3	8.8	+0.7	-2 to +2	136.3	99.3	≥95	A
6	D 6938	03113664-143-S1	6	148.4	8.9	+0.8	-2 to +2	136.3	99.3	≥95	A

### Location

**General Location:** Sycamore Hollow pavement

Test No.	Location	Test Elev/Depth	Material/Layer
1	At STA 1+50	Final lift	Base (Pavement)
2	At STA 3+30	Final lift	Base (Pavement)
3	At STA 5+50	Final lift	Base (Pavement)
4	At STA 7+20	Final lift	Base (Pavement)

**General Location:** Lower Crossing pavement

Test No.	Location	Test Elev/Depth	Material/Layer
5	At STA 1+00	Final lift	Base (Pavement)
6	At STA 3+50	Final lift	Base (Pavement)

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



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Report No: FDR:03113664-144

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 12/16/2022

**Client:** ASHTON WOODS **CC:** COLBY OLGETREE

17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
7	D 6938	03113664-143-S1	6	147.1	9.1	+1.0	-2 to +2	134.8	98.3	≥95	A
8	D 6938	03113664-143-S1	6	148.9	9.0	+0.9	-2 to +2	136.6	99.6	≥95	A

### Location

**General Location:** Lower Crossing pavement

Test No.	Location	Test Elev/Depth	Material/Layer
7	At STA 5+80	Final lift	Base (Pavement)
8	At STA 7+40	Final lift	Base (Pavement)

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
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Report No: FDR:03113664-147

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)  
Date of Issue: 12/21/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

**Tested By:** Benjamin Urbina  
**Field Methods:** ASTM D 6938  
**Contractor:** vk Knowlton  
**Test Mode:** Direct Transmission  
**Serial Number:** 65455  
**Weather:** Clear to Partly Cloudy  
**Date Tested:** 12/16/2022  
**Gauge Make/Model:** Troxler/3430  
**Standard Count: Density:** 2180  
**Standard Count: Moisture:** 692

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-131-S1	Ace Aggregates	Crushed Limestone (Roadway Base)	ASTM D 1557 (C)	138.0	6.5

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-131-S1	6	147.2	7.0	+0.5	-2 to +2	137.6	99.7	≥95	A
2	D 6938	03113664-131-S1	6	146.6	6.8	+0.3	-2 to +2	137.3	99.5	≥95	A
3	D 6938	03113664-131-S1	4	147.1	6.6	+0.1	-2 to +2	138.0	100.0	≥95	A
4	D 6938	03113664-131-S1	4	147.1	7.2	+0.7	-2 to +2	137.2	99.4	≥95	A
5	D 6938	03113664-131-S1	6	146.3	6.9	+0.4	-2 to +2	136.9	99.2	≥95	A
6	D 6938	03113664-131-S1	4	146.9	6.8	+0.3	-2 to +2	137.5	99.6	≥95	A

### Location

**General Location:** Lower Hollow st. pavement

Test No.	Location	Test Elev/Depth	Material/Layer
1	At STA 2+50	Final lift	Base (Pavement)
2	At STA 4+20	Final lift	Base (Pavement)

**General Location:** Lower Pass st. pavement

Test No.	Location	Test Elev/Depth	Material/Layer
3	At STA 2+00	Final lift	Base (Pavement)
4	At STA 3+80	Final lift	Base (Pavement)
5	At STA 6+00	Final lift	Base (Pavement)
6	At STA 8+30	Final lift	Base (Pavement)

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



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Report No: FDR:03113664-147

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 12/21/2022

**Client:** ASHTON WOODS **CC:** COLBY OLGETREE

17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
7	D 6938	03113664-131-S1	4	147.0	7.4	+0.9	-2 to +2	136.9	99.2	≥95	A
8	D 6938	03113664-131-S1	6	147.2	6.1	-0.4	-2 to +2	138.7	100.5	≥95	A

### Location

**General Location:** Lower Pass st. pavement

Test No.	Location	Test Elev/Depth	Material/Layer
7	At STA 10+60	Final lift	Base (Pavement)
8	At STA 12+40	Final lift	Base (Pavement)

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



Professional Service Industries, Inc.  
Three Burwood Lane  
San Antonio, TX 78216  
Texas Firm Registration No. F-03307  
Phone: (210) 342-9377  
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Report No: FDR:03113664-148

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)  
Date of Issue: 12/28/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	12/20/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2186
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	673
<b>Weather:</b>	Cloudy		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-131-S1	Ace Aggregates	Crushed Limestone (Roadway Base)	ASTM D 1557 (C)	138.0	6.5

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-131-S1	4	146.9	6.2	-0.3	-2 to +2	138.3	100.2	≥95	A
2	D 6938	03113664-131-S1	4	146.3	6.5	+0.0	-2 to +2	137.4	99.6	≥95	A
3	D 6938	03113664-131-S1	4	147.0	7.1	+0.6	-2 to +2	137.3	99.5	≥95	A
4	D 6938	03113664-131-S1	4	147.2	7.2	+0.7	-2 to +2	137.3	99.5	≥95	A
5	D 6938	03113664-131-S1	6	145.2	7.6	+1.1	-2 to +2	134.9	97.8	≥95	A
6	D 6938	03113664-131-S1	4	144.9	7.6	+1.1	-2 to +2	134.7	97.6	≥95	A

### Location

**General Location:** Lower View pavement

Test No.	Location	Test Elev/Depth	Material/Layer
1	At STA 1+20	Final Lift	Base (Pavement)
2	At STA 3+20	Final Lift	Base (Pavement)
3	At STA 5+20	Final Lift	Base (Pavement)
4	At STA 7+10	Final Lift	Base (Pavement)

**General Location:** Sycamore Pass pavement

Test No.	Location	Test Elev/Depth	Material/Layer
5	At STA 1+60	Final Lift	Base (Pavement)
6	At STA 3+80	Final Lift	Base (Pavement)

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION





Professional Service Industries, Inc.  
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Report No: FDR:03113664-148

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 12/28/2022

**Client:** ASHTON WOODS **CC:** COLBY OLGETREE

17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
7	D 6938	03113664-131-S1	4	145.0	7.8	+1.3	-2 to +2	134.5	97.5	≥95	A
8	D 6938	03113664-131-S1	6	147.0	7.1	+0.6	-2 to +2	137.3	99.5	≥95	A
9	D 6938	03113664-131-S1	6	144.8	7.7	+1.2	-2 to +2	134.4	97.4	≥95	A
10	D 6938	03113664-131-S1	4	144.2	7.8	+1.3	-2 to +2	133.8	97.0	≥95	A
11	D 6938	03113664-131-S1	4	144.2	7.7	+1.2	-2 to +2	133.9	97.0	≥95	A
12	D 6938	03113664-131-S1	4	145.1	7.8	+1.3	-2 to +2	134.6	97.5	≥95	A

### Location

**General Location:** Sycamore Pass pavement

Test No.	Location	Test Elev/Depth	Material/Layer
7	At STA 6+00	Final Lift	Base (Pavement)
8	At STA 8+10	Final Lift	Base (Pavement)

**General Location:** Sycamore Crossing pavement

Test No.	Location	Test Elev/Depth	Material/Layer
9	At STA 1+50	Final Lift	Base (Pavement)
10	At STA 3+10	Final Lift	Base (Pavement)
11	At STA 5+40	Final Lift	Base (Pavement)
12	At STA 7+60	Final Lift	Base (Pavement)

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
A = TEST RESULTS COMPLY WITH SPECIFICATION



Professional Service Industries, Inc.  
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Texas Firm Registration No. F-03307  
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Report No: FDR:03113664-148

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 12/28/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232

**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
13	D 6938	03113664-131-S1	4	144.9	7.8	+1.3	-2 to +2	134.4	97.4	≥95	A
14	D 6938	03113664-131-S1	4	145.3	7.5	+1.0	-2 to +2	135.2	98.0	≥95	A

### Location

**General Location:** Sycamore Crossing pavement

Test No.	Location	Test Elev/Depth	Material/Layer
13	At STA 9+80	Final Lift	Base (Pavement)
14	At STA 11+80	Final Lift	Base (Pavement)

### Comments

### Legend

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Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)  
Date of Issue: 12/28/2022

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	12/21/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	vk Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2168
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	689
<b>Weather:</b>	Cloudy		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OMC (%)
03113664-140-S1	In-situ material	Brown Clay (Lime Treated Subgrade)	Tex-114-E (Subgrade)	83.8	33.5

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Moisture Content (%)	OMC Var	OMC Var Spec	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-140-S1	6	111.9	34.5	+1.0	0 to +4	83.2	99.3	≥95	A
2	D 6938	03113664-140-S1	6	111.3	34.0	+0.5	0 to +4	83.1	99.2	≥95	A
3	D 6938	03113664-140-S1	6	111.6	34.5	+1.0	0 to +4	83.0	99.0	≥95	A

### Location

**General Location:** Clubhouse parking lot/driveway pavement

Test No.	Location	Test Elev/Depth	Material/Layer
1	30' S from Hennesby way	Final lift	Lime Stab. Subgrade
2	60' S from Hennesby way	Final lift	Lime Stab. Subgrade
3	90' S from Hennesby way	Final lift	Lime Stab. Subgrade

### Comments

### Legend

OMC = Optimum Moisture Content  
MDD = Maximum Dry Density  
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Report No: FDR:03113664-152

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)  
Date of Issue: 1/12/2023

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	12/29/2022
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	vk Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2193
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	667
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-143-S1	Vulcan Materials	Crushed Limestone (Roadway Base - Vulcan O'Conner)	ASTM D 698 (C)	137.2	8.1

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-143-S1	6	148.6	8.5	+0.4	-2 to +2	137.0	99.9	≥95	A
2	D 6938	03113664-143-S1	6	148.3	8.6	+0.5	-2 to +2	136.6	99.6	≥95	A
3	D 6938	03113664-143-S1	6	148.2	8.8	+0.7	-2 to +2	136.2	99.3	≥95	A
4	D 6938	03113664-143-S1	6	149.0	8.7	+0.6	-2 to +2	137.1	99.9	≥95	A
5	D 6938	03113664-143-S1	6	148.3	8.6	+0.5	-2 to +2	136.6	99.6	≥95	A
6	D 6938	03113664-143-S1	6	148.5	8.8	+0.7	-2 to +2	136.5	99.5	≥95	A

### Location

**General Location:** Hennersby Way

Test No.	Location	Test Elev/Depth	Material/Layer
1	At STA 1+60	Final lift	Base (Pavement)
2	At STA 3+70	Final lift	Base (Pavement)
3	At STA 5+80	Final lift	Base (Pavement)
4	At STA 8+00	Final lift	Base (Pavement)
5	At STA 10+10	Final lift	Base (Pavement)
6	At STA 11+90	Final lift	Base (Pavement)

### Comments

### Legend

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Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 1/12/2023

**Client:** ASHTON WOODS **CC:** COLBY OLGETREE

17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
7	D 6938	03113664-143-S1	6	148.3	8.9	+0.8	-2 to +2	136.2	99.3	≥95	A

### Location

**General Location:** Hennersby Way

Test No.	Location	Test Elev/Depth	Material/Layer
7	At STA 13+60	Final lift	Base (Pavement)

### Comments

### Legend

OWC = Optimum Water Content  
MDD = Maximum Dry Density  
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Report No: FDR:03113664-157

Issue No: 1

## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 1/12/2023

**Client:** ASHTON WOODS  
17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232  
**CC:** COLBY OLGETREE

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Testing Details

<b>Tested By:</b>	Benjamin Urbina	<b>Date Tested:</b>	1/9/2023
<b>Field Methods:</b>	ASTM D 6938		
<b>Contractor:</b>	VK Knowlton	<b>Gauge Make/Model:</b>	Troxler/3430
<b>Test Mode:</b>	Direct Transmission	<b>Standard Count: Density:</b>	2183
<b>Serial Number:</b>	65455	<b>Standard Count: Moisture:</b>	693
<b>Weather:</b>	Clear		

### Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft <sup>3</sup> )	OWC (%)
03113664-160-S1	In-situ material	Brown Clay ()Lime Treated Subgrade)	ASTM D 698 (A)	93.1	21.6

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
1	D 6938	03113664-160-S1	6	112.6	22.1	+0.5	0 to +4	92.2	99.0	≥95	A
2	D 6938	03113664-160-S1	6	113.1	22.9	+1.3	0 to +4	92.0	98.8	≥95	A
3	D 6938	03113664-160-S1	6	112.9	22.9	+1.3	0 to +4	91.9	98.7	≥95	A
4	D 6938	03113664-160-S1	6	113.2	22.5	+0.9	0 to +4	92.4	99.2	≥95	A
5	D 6938	03113664-160-S1	6	112.9	22.5	+0.9	0 to +4	92.2	99.0	≥95	A
6	D 6938	03113664-160-S1	6	113.1	22.0	+0.4	0 to +4	92.7	99.6	≥95	A

### Location

**General Location:** Jungman Rd. Road widening

Test No.	Location	Test Elev/Depth	Material/Layer
1	At STA 1+50 N.bound	Final subgrade	Lime Stab. Subgrade
2	At STA 3+30 S.bound	Final subgrade	Lime Stab. Subgrade
3	At STA 5+40 N.bound	Final subgrade	Lime Stab. Subgrade
4	At STA 5+20 S.bound	Final subgrade	Lime Stab. Subgrade
5	At STA 9+60 N.bound	Final subgrade	Lime Stab. Subgrade
6	At STA 11+40 S.bound	Final subgrade	Lime Stab. Subgrade

### Comments

### Legend

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## Field Density Test Report

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Approved Signatory: Ernesto Gomez (Project Manager)

Date of Issue: 1/12/2023

**Client:** ASHTON WOODS **CC:** COLBY OLGETREE

17319 SAN PEDRO, SUITE 140  
SAN ANTONIO, TX 78232

**Project:** JUNGMAN UNIT 1  
SAN ANTONIO, TX

### Test Results

Test No.	Method	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft <sup>3</sup> )	Water Content (%)	OWC Var (%)	OWC Spec (%)	Dry Density (lb/ft <sup>3</sup> )	Comp (%)	Comp Spec (%)	Results
7	D 6938	03113664-160-S1	6	113.0	22.6	+1.0	0 to +4	92.2	99.0	≥95	A
8	D 6938	03113664-160-S1	6	112.1	22.8	+1.2	0 to +4	91.3	98.1	≥95	A
9	D 6938	03113664-160-S1	6	113.0	22.7	+1.1	0 to +4	92.1	98.9	≥95	A
10	D 6938	03113664-160-S1	6	113.1	21.6	+0.0	0 to +4	93.0	99.9	≥95	A
11	D 6938	03113664-160-S1	6	112.2	22.8	+1.2	0 to +4	91.4	98.2	≥95	A
12	D 6938	03113664-160-S1	6	112.2	22.8	+1.2	0 to +4	91.4	98.2	≥95	A

### Location

**General Location:** Jungman Rd. Road widening

Test No.	Location	Test Elev/Depth	Material/Layer
7	At STA 13+50 N.bound	Final subgrade	Lime Stab. Subgrade
8	At STA 15+30 S.bound	Final subgrade	Lime Stab. Subgrade
9	At STA 17+70 N.bound	Final subgrade	Lime Stab. Subgrade
10	At STA 19+80 S.bound	Final subgrade	Lime Stab. Subgrade
11	At STA 21+60 N.bound	Final subgrade	Lime Stab. Subgrade
12	At STA 23+90 S.bound	Final subgrade	Lime Stab. Subgrade

### Comments

### Legend

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