

IN-PLACE DENSITY: K37528

CLIENT: CHOYCE, LLC
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REPORT NO: K37528
REPORT DATE: 9/24/2020
SERVICE DATE: 9/22/2020

PROJECT: R20-20-096
 NAPA VALLEY 4TH PLAT

AUTHORIZATION:
CONTRACTOR:

SERVICES: Perform in-place density and moisture content tests to determine the degree of field compaction.

Gauge

| Type | Serial No. | Test Mode | Density Current | Density Previous | Moisture Current | Moisture Previous |
|--------------|------------|---------------------|-----------------|------------------|------------------|-------------------|
| TROXLER 3440 | 77187 | Direct Transmission | 2770 | 2763 | 659 | 655 |

Requirements

| No. | Density Method | Density Specification | Moisture Method | Moisture Specification |
|-----|----------------|-----------------------|-----------------|------------------------|
| 1 | ASTM D6938 | 95% or greater | ASTM D3017 | +2,-3% |

Test Proctors

| No. | Test Type | Material | Optimum Moisture | Max Density | Reference |
|-----|---|------------------|------------------|-------------|-----------|
| 1 | STANDARD PROCTOR ASTM D698, Method A | BROWN SILTY CLAY | 20.3% | 98.9 pcf | K37128 |

Results

| No. | Location | Probe Depth | Lift/Elev | Proctor | Field Moisture % | Optimum Moisture % | Moisture Result | Dry Density | Max Density | Density % | Density Result |
|-----|--|-------------|-----------|---------|------------------|--------------------|-----------------|-------------|-------------|-----------|----------------|
| 1 | South End of SW Sage Canyon Road | 6 | -0ft | 1 | 19.1 | 20.3 | Pass | 97.6 | 98.9 | 99.0 | Pass |
| 2 | 50ft N of test 1 | 6 | -1ft | 1 | 18.6 | 20.3 | Pass | 99.8 | 98.9 | 101.0 | Pass |
| 3 | 50ft N of test 2 | 6 | -1ft | 1 | 18.9 | 20.3 | Pass | 98.2 | 98.9 | 99.0 | Pass |
| 4 | 50ft N of test 3 | 6 | -3ft | 1 | 18.5 | 20.3 | Pass | 99.1 | 98.9 | 100.0 | Pass |
| 5 | 50ft N of test 4 | 6 | -4ft | 1 | 18.6 | 20.3 | Pass | 97.3 | 98.9 | 98.0 | Pass |
| 6 | 50ft N of test 5 | 6 | -4ft | 1 | 18.3 | 20.3 | Pass | 96.2 | 98.9 | 97.0 | Pass |
| 7 | 50ft N of test 6 | 6 | -3ft | 1 | 19.3 | 20.3 | Pass | 100.4 | 98.9 | 102.0 | Pass |
| 8 | 150ft N of South end of SW Sage Canyon | 6 | -2ft | 1 | 18.9 | 20.3 | Pass | 98.4 | 98.9 | 99.0 | Pass |
| 9 | 50ft N of test 8 | 6 | -3ft | 1 | 18.5 | 20.3 | Pass | 101.6 | 98.9 | 103.0 | Pass |
| 10 | 50ft N of test 9 | 6 | -3ft | 1 | 19.8 | 20.3 | Pass | 99.0 | 98.9 | 100.0 | Pass |
| 11 | 50ft N of test 10 | 6 | -2ft | 1 | 19.0 | 20.3 | Pass | 97.8 | 98.9 | 99.0 | Pass |

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A handwritten signature in blue ink, appearing to read 'J. Byrnes', written over a horizontal line.

JIM BYRNES, R.G.
PROJECT MANAGER