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## **IN-PLACE DENSITY: K37144**

CLIENT:	CHOYCE, LLC	<b>REPORT NO:</b>	K37144
	PO BOX 847	REPORT DATE:	8/29/2020
	LEE'S SUMMIT, MO 64063	SERVICE DATE:	8/25/2020
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											
Туре	e Serial No.	Test Mode	Density Current	Density Previous	Moisture Current	Moisture Previous					
TRO	OXLER 3440 77187	Direct Transmission	2788	2774	654	657					
Requirements											
No.	Density Method	Density Spe	cification	Moisture Method	Moistu	Moisture Specification					
1	ASTM D6938	Min: 9	5%	ASTM D3017	-:	% to +3%					
Test Proctors											
No.	Test Type		Material	Optimum Mois	sture Max De	nsity Reference					
1	STANDARD PROCTOR ASTM D698, Method A	GRAY-BF	ROWN SILTY CLAY	Y 20.7% 98.5 pcf		ocf K37124					
2	STANDARD PROCTOR ASTM D698, Method A	BRO	WN SILTY CLAY	20.3%	98.9	pcf K37128					

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## Results

No.	Location	Probe Depth	Lift/Elev	Proctor	Field Moisture %	Optimum Moisture %	Moisture Result	Dry Density	Max Density	Density %	Density Result
	Sanitary Sewer line at lot 165 under road	8	-6'	1	21.0	20.7	Pass	96.5	98.5	98.0	Pass
	Sanitary Sewer line at lot 165 under road	8	-4'	1	18.0	20.7	Pass	106.1	98.5	108.0	Pass
3	Sanitary Sewer line at lot 166 under road	8	-5'	1	21.2	20.7	Pass	97.7	98.5	99.0	Pass
	Sanitary Sewer line at lot 166 under road	8	-3'	1	16.8	20.7	Fail	102.8	98.5	104.0	Pass
5	Sanitary Sewer line at lot 165 under road retest	8	-3'	1	19.1	20.7	Pass	100.5	98.5	102.0	Pass
6	Sanitary Sewer line at lot 163 under road	8	-4	1	18.1	20.7	Pass	94.8	98.5	96.0	Pass
7	Sanitary Sewer line at lot 163 under road	8	-3'	1	18.9	20.7	Pass	99.3	98.5	101.0	Pass
	Sanitary Sewer line at lot 162 under road	8	-4'	1	13.0	20.7	Fail	105.0	98.5	107.0	Pass
9	Sanitary Sewer line at lot 165 under road retest	8	-4'	1	16.4	20.7	Fail	103.7	98.5	105.0	Pass
10	Sanitary Sewer line at lot 162 under road retest	8	-4'	1	18.8	20.7	Pass	99.4	98.5	101.0	Pass
	Sanitary Sewer line at lot 162 under road	8	-1'	1	17.9	20.7	Pass	98.0	98.5	99.0	Pass
	Sanitary Sewer line at lot 161 under road	8	-4'	1	22.6	20.7	Pass	95.5	98.5	97.0	Pass
13	Sanitary Sewer line at lot 161 under road	8	-2'	1	17.4	20.7	Fail	95.7	98.5	97.0	Pass
	Sanitary Sewer line at lot 161 under road retest	8	-2'	1	23.3	20.7	Pass	95.5	98.5	97.0	Pass
15	Sanitary Sewer line at lot 160 under road	8	-4'	1	19.4	20.7	Pass	100.5	98.5	102.0	Pass
16	Sanitary Sewer line at lot 160 under road	8	-2'	2	21.3	20.3	Pass	98.5	98.9	100.0	Pass
17	Sanitary Sewer line at lot 159 under road	8	-4'	2	26.5	20.3	Fail	91.9	98.9	93.0	Fail
18	Sanitary Sewer line at lot 159 under road retest	8	-4'	2	23.5	20.3	Fail	95.9	98.9	97.0	Pass
	Sanitary Sewer line at lot 159 under road	8	-2'	2	23.3	20.3	Pass	97.8	98.9	99.0	Pass
20	Sanitary Sewer line at lot 158 under road	8	-3'	2	24.8	20.3	Fail	94.4	98.9	95.0	Pass
21	Sanitary Sewer line from lot 158 under road	8	-1'	2	18.0	20.3	Pass	102.6	98.9	104.0	Pass
22	Sanitary Sewer line from lot 157 under road	8	-4'	1	20.7	20.7	Pass	100.8	98.5	102.0	Pass
23	Sanitary Sewer line from lot 157 under road	8	-2'	1	22.1	20.7	Pass	97.8	98.5	99.0	Pass
	Sanitary Sewer line from lot 156 under road	8	-3'	1	17.2	20.7	Fail	106.8	98.5	108.0	Pass
	Sanitary Sewer line from lot 157 under road retest	8	-3'	1	15.0	20.7	Fail	103.7	98.5	105.0	Pass
20	Sanitary Sewer line from lot 157 under road retest	8	-3'	1	20.5	20.7	Pass	103.5	98.5	105.0	Pass
27	Sanitary Sewer line from lot 156 under road	8	-2'	1	17.1	20.7	Fail	102.5	98.5	104.0	Pass
	Sanitary Sewer line from lot 156 under road retest	8	-2'	1	15.3	20.7	Fail	103.0	98.5	105.0	Pass
29	Sanitary Sewer line from lot 156 under road retest	8	-2'	1	14.8	20.7	Fail	98.8	98.5	100.0	Pass
30	Sanitary Sewer line from lot 155 under road	8	-3'	1	22.3	20.7	Pass	101.3	98.5	103.0	Pass

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No	. Location	Probe Depth	Lift/Elev	Proctor	Field Moisture %	Optimum Moisture %	Moisture Result	Dry Density	Max Density	Density %	Density Result
31	Sanitary Sewer line from lot 155 under road	8	-1'	1	14.7	20.7	Fail	106.1	98.5	108.0	Pass
32	Sanitary Sewer line from lot 155 under road retest	8	-1'	1	21.2	20.7	Pass	96.4	98.5	98.0	Pass

TECHNICIAN: Johnny Shao, El Engineering Technician

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