



December 2, 2021

Mr. Farrokh Yazdi  
[fyazdi@sbcglobal.net](mailto:fyazdi@sbcglobal.net)

RE: Results of Pavement reconnaissance and recommendations for alleyway between Whitaker and  
Tedford Lanes, Sierra Manor Townhomes, Fallon, Nevada

Dear Mr. Yazdi:

Summit Engineering is pleased to present the following results of pavement reconnaissance and subsequent recommendations for the alleyway between Whitaker and Tedford Lanes, north of the Sierra Manor Townhomes, in Fallon, Nevada.

On November 11, 2021, Summit personnel cored into existing asphalt at 5 locations along the length of the above mentioned alleyway using a portable core drill and 3" diamond core bit. Thicknesses of each AC core was recorded, and underlying base section was excavated to determine thickness. Cores holes were then filled with non-shrink construction grout. No sample recovery, laboratory testing, or traffic analysis was performed, only the thickness of the section recorded. Throughout the length of the alleyway, pavement thicknesses were observed between 1.5 to 4", underlying base thickness were observed to be 6 to 7.5".

Summit is recommending the following –

Due to the highly degenerated condition, the immediate roughly 100' of existing asphalt immediately east of Whitaker Lane should be removed and replaced. Underlying base may remain, but should be scarified and recompact to 95% max dry density based on an ASTM 1557 Modified Proctor. The remaining roughly 680' of alley should receive a grind and overlay, grinding off the top 1.5" of asphalt and repaving with 2", to achieve a 3" asphalt section throughout the entire length.

The depth of existing base was found to be at minimum 6" throughout the length of the alleyway, at this time Summit IS NOT recommending a full depth replacement. However, during the preparation of the east end, there may be small, isolated areas of base that may need to be replaced due to the highly deteriorated nature of the existing asphalt in this area.

Should you have any questions or concerns, or need further clarification, please feel free to contact me directly at 775.787.4336.

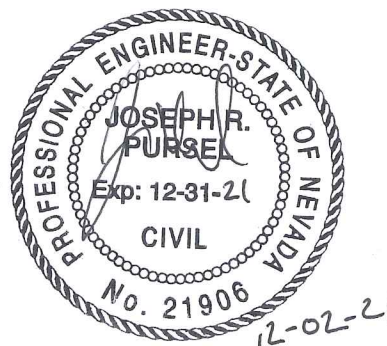
Sincerely,

**SUMMIT ENGINEERING CORPORATION**

Joseph R. Pursel, P.E.  
Geotechnical Division Manager

CC: Mr. Edward Lord, [edlord@networkrealty.net](mailto:edlord@networkrealty.net)

Attachments





SITE/VICINITY MAP FOR  
SIERRA MANOR TOWNHOMES  
FALLON, NV

JOB NO.: 31200  
APPR BY: JRP  
DRAWN BY: JRP  
Copyright SUMMIT ENG 2021



SHEET  
1  
OF  
6

PLASTICITY INDEX

% PASSING #200

MOISTURE CONTENT  
% OF DRY WT.

DRY DENSITY  
(PCF)

DEPTH (FT.)

SAMPLE LOCATION

MATERIAL TYPE

LOG OF C-1

EQUIPMENT: MILWAUKEE CORE

DATE: 11-11-21 ELEV.

PLASTICITY INDEX	% PASSING #200	MOISTURE CONTENT % OF DRY WT.	DRY DENSITY (PCF)	DEPTH (FT.)	SAMPLE LOCATION	MATERIAL TYPE
						AC 1.5" HIGHLY DETERIORATED AC
				2		BASE 7.5" BASE
				4		
				6		
				8		
				10		9" SECTION
				12		
				14		

**CORE LOG**  
**SIERRA MANOR TOWNHOMES**  
**CORE 1**

JOB #: 31200  
 DRAWN BY: JRP  
 CHECKED BY: JRP  
 Copyright SUMMIT ENG 2021



SHEET  
 2  
 OF  
 6

PLASTICITY INDEX

% PASSING #200

MOISTURE CONTENT  
% OF DRY WT.

DRY DENSITY  
(PCF)

DEPTH (FT.)

SAMPLE LOCATION

MATERIAL TYPE

LOG OF C-2

EQUIPMENT: MILWAUKEE CORE

DATE: 11-11-21 ELEV.

PLASTICITY INDEX	% PASSING #200	MOISTURE CONTENT % OF DRY WT.	DRY DENSITY (PCF)	DEPTH (FT.)	SAMPLE LOCATION	MATERIAL TYPE
						AC 4" AC
				2		
				4		BASE 6" BASE
				6		
				8		
				10		10" SECTION
				12		
				14		

**CORE LOG**  
**SIERRA MANOR TOWNHOMES**  
**CORE 2**

JOB #: 31200  
 DRAWN BY: JRP  
 CHECKED BY: JRP  
 Copyright SUMMIT ENG 2021



SHEET 3  
 OF 6

PLASTICITY INDEX

% PASSING #200

MOISTURE CONTENT  
% OF DRY WT.

DRY DENSITY  
(PCF)

DEPTH (FT.)

SAMPLE LOCATION

MATERIAL TYPE

LOG OF C-3

EQUIPMENT: MILWAUKEE CORE

DATE: 11-11-21 ELEV.

PLASTICITY INDEX	% PASSING #200	MOISTURE CONTENT % OF DRY WT.	DRY DENSITY (PCF)	DEPTH (FT.)	SAMPLE LOCATION	MATERIAL TYPE
				2		AC 3.5" AC
				4		BASE 6.5" BASE
				6		
				8		
				10		10" SECTION
				12		
				14		

**CORE LOG**  
**SIERRA MANOR TOWNHOMES**  
**CORE 3**

JOB #: 31200  
 DRAWN BY: JRP  
 CHECKED BY: JRP  
 Copyright SUMMIT ENG 2021



SHEET  
 4  
 OF  
 6

PLASTICITY INDEX

% PASSING #200

MOISTURE CONTENT  
% OF DRY WT.

DRY DENSITY  
(PCF)

DEPTH (FT.)

SAMPLE LOCATION

MATERIAL TYPE

LOG OF C-4

EQUIPMENT: MILWAUKEE CORE

DATE: 11-11-21 ELEV.

PLASTICITY INDEX	% PASSING #200	MOISTURE CONTENT % OF DRY WT.	DRY DENSITY (PCF)	DEPTH (FT.)	SAMPLE LOCATION	MATERIAL TYPE
						AC 3" AC
				2		
				4		BASE 6" BASE
				6		
				8		
				10		9" SECTION
				12		
				14		

**CORE LOG**  
**SIERRA MANOR TOWNHOMES**  
**CORE 4**

JOB #: 31200  
 DRAWN BY: JRP  
 CHECKED BY: JRP  
 Copyright SUMMIT ENG 2021



SHEET  
**5**  
 OF  
**6**

PLASTICITY INDEX

% PASSING #200

MOISTURE CONTENT  
% OF DRY WT.

DRY DENSITY  
(PCF)

DEPTH (FT.)

SAMPLE LOCATION

MATERIAL TYPE

LOG OF C-5

EQUIPMENT: MILWAUKEE CORE

DATE: 11-11-21 ELEV.

PLASTICITY INDEX	% PASSING #200	MOISTURE CONTENT % OF DRY WT.	DRY DENSITY (PCF)	DEPTH (FT.)	SAMPLE LOCATION	MATERIAL TYPE
						GW 2.5" AC
				2		
				4		F 6" BASE
				6		
				8		
				10		8.5" SECTION
				12		
				14		

**CORE LOG**  
**SIERRA MANOR TOWNHOMES**  
**CORE 5**

JOB #: 31200  
 DRAWN BY: JRP  
 CHECKED BY: JRP  
 Copyright SUMMIT ENG 2021



SHEET  
**6**  
 OF  
**6**