July 8, 2021

OHM Advisors
388 South Main St., Suite 301
Akron, Ohio 44311

Attention: Ms. Ruth Klee, PE

Reference: **Pavement Core Exploration**
Antenucci Boulevard Resurfacing Project
Garfield Heights, Cuyahoga County, Ohio
S&ME Project No. 211757

Dear Ms. Klee,

S&ME has completed a total of eight (8) pavement cores for the Antenucci Boulevard Resurfacing Project in Garfield Heights, Ohio. The project limits are from Transportation Boulevard to Andover Boulevard, a distance of approximately 3,570 feet. The work was performed in accordance with our revised proposal dated April 9, 2021, which was authorized by OHM Advisors via Project Supplement No. 5 to the Continuing Services Agreement between OHM Advisors and S&ME, Inc. dated April 8, 2019. The coring locations were selected by the OHM and adjusted by S&ME as needed for access. The pavement cores were performed on June 28, 2021.

The coordinates of the pavement cores were estimated by S&ME personnel utilizing Google Earth. We have attached a map of the locations of the pavement cores, the pavement core summary, and pavement core photos to this submission.

We appreciate the opportunity to be of service on this project, and please don't hesitate to contact us if you have any questions.

Sincerely,

S&ME, Inc.

Aaron Mains
Staff Engineer

Christopher J. Nye, P.E.
Project Manager

Attachments: Pavement Core Location Maps (2 page)
Pavement Core Summary (1 page)
Pavement Core Photographs (4 pages)

LEGEND

P-1 PAVEMENT CORE NUMBER AND LOCATION

0 55 110
SCALE IN FEET

N

PAVEMENT CORE LOCATION MAP

Pavement Core Exploration
Antenucci Boulevard Resurfacing Project
Garfield Heights, Cuyahoga County, Ohio

Project: 211757	Drawn By: AJM
Drawing Date: 7-7-2021	Approved By: CJN
Revision Date: 7-7-2021	Scale: GRAPHIC

WWW.SMEINC.COM
ENGINEERING LICENSE NO: F-0176

PLATE 1A

LEGEND

P-1 PAVEMENT CORE NUMBER AND LOCATION

0 95 190
SCALE IN FEET

N

PAVEMENT CORE LOCATION MAP

Pavement Core Exploration
Antenucci Boulevard Resurfacing Project
Garfield Heights, Cuyahoga County, Ohio

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PLATE 1B

PAVEMENT CORE SUMMARY

Identified by: Aaron Mains

Date Identified: 6/28/2021

Project No.: 211757

Project Name: Antenucci Boulevard Pavement Cores

S&ME, Inc. - Cleveland: 8400 Sweet Valley Drive, Suite 404, Valley View, Ohio, 44125

Location Number	Coordinates*		Travel Direction	Travel Lane	Asphalt (in.)	Concrete (in.)	Total Core Length (in.)	Notes
	Latitude	Longitude						
P-1	41.40996	-81.61541	Eastbound	Right	3	9 1/2	12 1/2	Rebar in concrete
P-2	41.41022	-81.61461	Westbound	Right	3 1/2	10	13 1/2	
P-3	41.41007	-81.61446	Eastbound	Right	2 3/4	10 1/2	13 1/4	Rebar in concrete
P-4	41.41050	-81.61393	Westbound	Gore Area	3	9 1/4	12 1/4	Rebar in concrete
P-5	41.41235	-81.60776	Eastbound	Right	1 1/2	8 3/4	10 1/4	Rebar in concrete
P-6	41.41229	-81.60773	Eastbound	Right	1	9	10	Crumbling concrete, rebar in concrete
P-7	41.41292	-81.60421	Westbound	Right	3 1/4	9	12 1/4	
P-8	41.41293	-81.60335	Eastbound	Right	3	9	12	

*Coordinates were estimated from Google Earth

Date: 6/29/2021

Photographer: AJM

1	**Location / Orientation**	P-1
	Remarks	3" Asphalt, 9 ½" Concrete

Date: 6/29/2021

Photographer: AJM

2	**Location / Orientation**	P-2
	Remarks	3 ½" Asphalt, 10" Concrete

Date: 6/29/2021

Photographer: AJM

3	**Location / Orientation**	P-3
	Remarks	2 ¾" Asphalt, 10 ½" Concrete

Date: 6/29/2021

Photographer: AJM

4	**Location / Orientation**	P-4
	Remarks	3" Asphalt, 9 ¼" Concrete

Date: 6/29/2021

Photographer: AJM

5	**Location / Orientation**	P-5
	Remarks	1 ½" Asphalt, 8 ¾" Concrete

Date: 6/29/2021

Photographer: AJM

6	**Location / Orientation**	P-6
	Remarks	1" Asphalt, 9" Concrete

Date: 6/29/2021

Photographer: AJM

7	**Location / Orientation**	P-7
	Remarks	3 ¼" Asphalt, 9" Concrete

Date: 6/29/2021

Photographer: AJM

8	**Location / Orientation**	P-8
	Remarks	3" Asphalt, 9" Concrete