

Project Manual

DATE: June 30, 2026



Wilmington Heights Nuisance Abatement

4618 (Aka 4614, 4618 - 4652) Wilmington Pike
Kettering, OH 45440

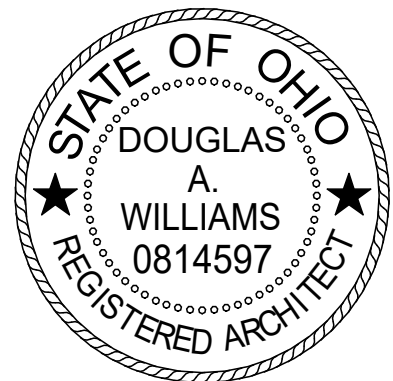
FOR CONSTRUCTION



615 Woodside Drive, Englewood, Ohio 45322

T 937.836.8898 F 937.832.3696

www.app-arch.com



Douglas A. Williams, License #0814597
Expiration Date 12/31/2027

PROJECT NUMBER: 4410.00

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PROJECT DIRECTORY

PART 1 GENERAL

SECTION INCLUDES

Identification of project team members and their contact information.

CLIENT:

Name: City of Kettering

Address Line 1: 3600 Shroyer Rd.

City: Kettering.

State: Ohio.

Zip Code: 45440.

Client's Representative:

Name: Patrick Hillier.

CONSULTANTS:

Architect: Design Professional of Record. All correspondence from the Contractor regarding construction documents authored by Architect's consultants will be through this party through this party, unless alternate arrangements are mutually agreed upon at preconstruction meeting.

Company Name: App Architecture, Inc.

Address Line 1: 615 Woodside Dr.

City: Englewood.

State: Ohio.

Zip Code: 45322.

Telephone: 937.836.8898.

Primary Contact:

Title: Project Manager.

Name: Doug Williams, AIA.

Civil Engineering Consultant:

Company Name: The Kleingers Group.

Address Line 1: 6219 Centre Park Drive

City: West Chester.

State: Ohio.

Zip Code: 45069.

Telephone: (513) 779-7851.

Structural Engineering Consultant:

Company Name: Reis Engineering, LLC.

Address Line 1: 5630 Brooks Run.

City: Liberty Township.

State: Ohio.

Zip Code: 45011.

Telephone: (513) 907-4134.

Mechanical Engineering Consultant - Plumbing, Mechanical, Electrical:

Company Name: L2 Engineering, LLC.

Address Line 1: 7945 Washington Woods Drive.

City: Dayton.

State: Ohio.

Zip Code: 45459.

Telephone: (937) 361-6731.

Environmental Consultant:

Company Name: Helix, Environmental, Inc..

Address Line 1: 1 Elizabeth Place, Suite 160H.

City: Dayton.
State: Ohio.
Zip Code: 45417.
Telephone: (937) 226-0650.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 00 0103

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PROCUREMENT AND CONTRACTING REQUIREMENTS

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SPECIFICATIONS

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(Refer to Electrical Drawings)

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**SECTION 00 3100
AVAILABLE PROJECT INFORMATION**

PART 1 GENERAL

1.01 EXISTING CONDITIONS

- A. Certain information relating to existing surface and subsurface conditions and structures is available to bidders but will not be part of Contract Documents, as follows:
- B. Hazardous Material Survey: Entitled Pre-Renovation Preliminary Lead-Containing Paint Inspection of Wilmington Heights Retail Demolition dated April 22, 2026. and Pre-Demolition Asbestos Inspection of Wilmington Heights Plaza dated May 28, 2026.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

3.01 OBTAINMENT OF PERMITS

- A. Contractor to obtain the following required permits, at no cost to Client:
 - 1. Building Permit for all trades.

END OF SECTION 00 3100

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April 22, 2026

Mr. Doug Williams, AIA, NCARB, LEED AP
App Architecture
615 Woodside Drive
Englewood, Ohio 45322

Telephone (937) 836-8898

RE: Pre-Renovation Preliminary Lead-Containing Paint Inspection of Wilmington Heights Retail Demolition, 4650 Wilmington Pike, Kettering, Ohio, March 18, 2026.
Helix Project No. 7462.

Dear Ms. Williams:

App Architecture contracted with Helix Environmental, Inc. to perform a pre-renovation preliminary lead-containing paint inspection of the demolition areas of the Wilmington Heights Retail Center located at 4650 Wilmington Pike in Kettering, Ohio. The inspection was necessary to determine if lead-containing paint materials were present so that plans could be made to remove them in accordance with current regulatory requirements prior to a planned demolition project at the building. This letter report summarizes the results of the inspection performed on March 18, 2026 and the analytical results of samples collected on that date. A companion report documents the asbestos inspection of the building.

INSPECTION AND ANALYTICAL PROCEDURES

Mr. Ralph Froehlich, CIH, CSP, QEP performed preliminary lead paint film sampling at representative locations in the accessible demolition areas at the Wilmington Heights Retail Center located at 4650 Wilmington Pike in Kettering, Ohio. Mr. Ralph A. Froehlich is a Certified Industrial Hygienist with more than thirty years experience in the fields of occupational and environmental health, and is certified by the Ohio Department of Health as an Asbestos Hazard Evaluation Specialist and Asbestos Abatement Project Designer (Certification Nos. ES3074 and PD60148, respectively).

Painted surfaces will be disturbed during the planned demolition, and were assumed to contain lead given the age of the building (approximately 66 years). Helix Environmental, Inc. collected twenty (20) paint film samples in representative locations to evaluate the accuracy of this assumption.

Paint film samples were collected using cleaned hand tools and packaged in labeled zip-lock plastic bags. The sample bags were placed into a larger zip-lock bag, with the original sample data/chain-of-custody and analytical request forms. Helix Environmental, Inc. retained copies of these forms.

The samples were shipped by overnight courier to SanAir Technologies Laboratory, Inc., a National Voluntary Laboratory Accreditation Program (NVLAP) and Ohio Certified Professional accredited environmental lead laboratory, where they were analyzed for lead in accordance with the U.S. Environmental Protection Agency's SW846/M 050B/7000B Method. Under this method, the limit of detection for lead is 10 $\mu\text{g}/\text{sample}$.

SanAir Technologies Laboratory, Inc. maintains accreditation from the American Industrial Hygiene Association as an environmental lead laboratory and has received accreditation through successful participation in the NIST National Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos and as an environmental microbiology laboratory. AIHA-accredited laboratories are scrutinized on a regular basis to ensure that personnel, equipment, facilities and data are maintained. In addition, AIHA-accredited laboratories have well-developed assurance/quality control programs to ensure that analytical results accurately reflect conditions present during the sampling periods.

APPLICABLE STANDARDS

Lead

The U. S. Environmental Protection Agency (EPA) has established regulations that identify paint with lead content in excess of 0.5 percent as "Lead-Based Paint", as determined by chemical testing methods or more than 1.0 mg/cm² as determined by approved X-Ray Fluorescence monitor. These regulations establish required notification, removal techniques, and disposal of Lead-Based Paint. The Ohio Department of Health has established equivalent regulations for Ohio (Ohio Administrative Code 3745-20, 22).

The Occupational Safety and Health Administration (OSHA) has promulgated an eight-hour Time-Weighted Average (TWA) Permissible Exposure Limit of 0.050 mg/m³ (50 µg/m³) for airborne lead exposures (29 CFR 1910.1025, 29 CFR 1926.62). An Action Level of 0.030 mg/m³ (30 µg/m³) has also been included with the standards. Lead-containing materials are defined as those that contain any detectable concentration of lead. These regulations include complex requirements for Lead-Based Paint abatement. OSHA requires employers to monitor employee exposures to lead and to protect worker health until lead exposure levels are measured by requiring lead training, blood lead testing, respiratory protection, protective clothing, hand-washing facility and clean change areas (29 CFR 1926.62(d)(2)(v)).

The U.S. Environmental Protection Agency (EPA) has established clearance criteria for lead-based paint abatement projects in residences (40 CFR 763.91).

The American Conference of Governmental Industrial Hygienists (ACGIH) recommends an airborne eight-hour TWA Threshold Limit Value of 0.050 mg/m³ (ACGIH, 2025 *TLVs and BEIs*). ACGIH TLVs denote concentrations and conditions to which it is believed that nearly all workers may be repeatedly exposed day after day without adverse effect.

The National Institute for Occupational Safety and Health (NIOSH) recommends an eight-hour TWA Recommended Exposure Limit of 0.050 mg/m³ (NIOSH *Pocket Guide to Chemical Hazards*, 2007). NIOSH also identifies 100 mg/m³ as the Immediately Dangerous to Life or Health concentration for lead.

ANALYTICAL RESULTS**TABLE 1: LEAD-CONTENT OF PAINT AT WILMINGTON HEIGHTS RETAIL CENTER DEMOLITION, 4650 WILMINGTON PIKE, KETTERING, OHIO, COLLECTED MARCH 18, 2026. HELIX PROJECT NO. 7462.**

Helix Sample No. Lab Sample No.	Sample Location	Description	Lead Concentration (% Lead)
7462-03-18-61 26015951-1	D Storefront, N Wall, NW Area, 5' Ht.	White Paint on Drywall	ND <0.009
7462-03-18-62 26015951-2	D Storefront, S Wall, SW Area, 4' Ht.	White Paint on Wall Plaster	ND <0.009
7462-03-18-63 26015951-3	F Storefront, N Wall, Center, 4' Ht.	Blue Paint on Drywall	ND <0.009
7462-03-18-64 26015951-4	F Storefront, S Wall Center, 4' Ht.	White Paint on Drywall	ND <0.010
7462-03-18-65 26015951-5	E Storefront, N Wall Center, 4' Ht.	Green Paint on Wall Plaster	0.021
7462-03-18-66 26015951-6	E Storefront, Rear N Wall by door, 4' Ht.	White Paint on Drywall	0.036
7462-03-18-67 26015951-7	A Restaurant, W Addition, N Wall by door, 5' Ht.	White Paint on Drywall	ND <0.010
7462-03-18-68 26015951-8	A Restaurant, E Wall by thermostat, 5' Ht.	White Paint on Drywall	ND <0.009
7462-03-18-69 26015951-9	G Club, North Wall Center, 5' Ht.	White Paint on Drywall	ND <0.009
7462-03-18-70 26015951-10	G Club, Entry Area, S Wall Center, 5' Ht.	Blue Paint on Drywall	ND <0.009
7462-03-18-71 26015951-11	G Club, S Wall, SW Area, 6' Ht.	White Paint on Wall Plaster	ND <0.009
7462-03-18-72 26015951-2	G Club, Rear, S Wall between Women's Restroom & Mens Restroom, 4' Ht.	Tan Paint on Wall Plaster	ND <0.010
7462-03-18-73 26015951-13	H Grocery, Center Wall, N Side at W End, 7' Ht.	Tan Paint on Drywall	0.188
7462-03-18-74 26015951-14	H Grocery, S Wall Center, 5' Ht.	Tan Paint on Drywall	ND <0.009

Ohio Dept. of Health LEAD-BASED PAINT
US EPA LEAD-BASED PAINT
OSHA REGULATED LEAD-CONTAINING MATERIAL

>0.5%
>0.5%
Detectable

Mr. Doug Williams, AIA

April 22, 2026

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TABLE 1 (CONTINUED): LEAD-CONTENT OF PAINT AT WILMINGTON HEIGHTS RETAIL CENTER DEMOLITION, 4650 WILMINGTON PIKE, KETTERING, OHIO, COLLECTED MARCH 18, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Sample Location	Description	Lead Concentration (% Lead)
7462-03-18-75 26015951-15	H Grocery, S Wall Center, 5' Ht.	Green Paint on Wall Plaster	ND <0.010
7462-03-18-76 26015951-16	H Grocery, NW Office, N Wall, 7' Ht.	Tan Paint on Drywall	ND <0.009
7462-03-18-77 26015951-17	B Storefront, W Room, N Wall in NW Corner, 5' Ht.	White Paint on Brick Wall Panel	ND <0.010
7462-03-18-78 26015951-18	B Storefront, W Room, S Wall Center, 6' Ht.	Tan Paint over Green Paint on Wall Plaster	0.032
7462-03-18-79 26015951-19	C Storefront, N Wall Center, 4' Ht.	White Paint on Wall Plaster	ND <0.010
7462-03-18-80 26015951-20	C Storefront, S Wall in SW Area, 4' Ht.	White Paint on Drywall	ND <0.009

Ohio Dept. of Health LEAD-BASED PAINT

US EPA LEAD-BASED PAINT

OSHA REGULATED LEAD-CONTAINING MATERIAL

>0.5%

>0.5%

Detectable

DISCUSSION AND RECOMMENDATIONS

Since the center was built in 1960 prior to 1978 when lead was banned for interior coatings, it was assumed that all paint present in the renovation area contains detectable levels of lead. Demolition contractors which will disturb assumed lead-containing painted surfaces must comply with the requirements of the OSHA Construction Industry Lead regulations prior to and during any work which may disturb lead-containing coatings.

A total of twenty (20) paint film samples of suspect lead-containing paint were collected from representative locations in the demolition areas. Samples were collected from representative surfaces in the accessible renovation areas.

Analytical results confirmed that four of twenty paint film samples collected in the Wilmington Heights Retail Center contain detectable concentrations of lead, or approximately 10%. Contractors bidding on this project should be informed of these preliminary paint lead sampling results so that they can protect their workers as required by federal regulations.

Current OSHA regulations require that employers measure airborne exposures to lead during any work which disturbs potential lead-containing paint. In addition, employers are required to safeguard employee health until exposure monitoring results are available by:

- Respiratory Protection
- Protective Clothing
- Change Areas
- Hand washing facilities
- Biological monitoring including blood sampling and analysis, and
- Training under Hazard Communication and Respirator Standards

When exposure monitoring results are available, then OSHA may require additional controls such as airtight barriers, warning signs, regulated areas and restrictions for entry by untrained workers.

Other potential environmental issues may also be present in the renovation areas, including mercury-containing materials, suspect PCB-containing fluorescent light ballasts, and Freon®-containing refrigerants.

Mercury-containing fluorescent light bulbs in the building have sufficient concentrations of mercury to be considered universal hazardous waste. In addition, thermostats in the buildings may contain small amounts of mercury, and several mercury-containing thermostats were observed during inspection. Batteries associated with emergency lighting may also contain mercury, and are considered to be universal hazardous waste. These universal waste materials should be carefully removed from the building and recycled in accordance with current regulations.

Fluorescent light ballasts were made with PCBs until 1979. Ballasts made after that date are required to be marked with the legend "No PCBs". Given the age of the building, PCB-containing fluorescent light ballasts and other PCB-containing electrical capacitors and transformers may be present in the building, and each ballast, capacitor or transformer should be examined to determine if it is labeled "No PCBs". If necessary, ballasts, capacitors and transformers that are not so labeled should be carefully removed from the building and packaged and labeled for recycling or incineration in accordance with current regulations.

Refrigerated cooling systems in the building, including water coolers, window air-conditioners, and refrigerators, typically contain Freon® refrigerants that must be recovered by licensed refrigerant recycler if removed, in accordance with current regulations. No unauthorized venting of Freon® refrigerants to the atmosphere is permitted under current regulations, since these materials deplete the stratospheric ozone layer (Ozone Depleting Substances).

Finally, no significant accumulations of hazardous waste were observed during the building inspection that could require special remediation, although small amounts of maintenance and custodial chemicals including interior paint were observed in or near the renovation area. It was assumed that the remaining maintenance and custodial chemicals present in the renovation area will be relocated for use during normal custodial and maintenance operations. If not, then these materials may need to be labeled, packaged and transported to a licensed hazardous waste Treatment, Storage and Disposal site in compliance with federal and state hazardous waste regulations.

The results of this inspection can only reflect the condition of the property at the date and time of the site visit within the limits of the proposed work. There are limitations to lead paint inspections without dismantling or destroying the building or its systems. No inspection was performed in inaccessible locations.

Mr. Doug Williams, AIA

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Recommendations are based on the professional judgment of the inspectors, and the results of the samples collected and analyzed. Helix Environmental, Inc. and its agents are neither responsible nor liable for the non-discovery of any defects in materials, craftsmanship, or other conditions, or any problems that may be discovered or manifest after the site visit date and time. Helix Environmental, Inc. and its agents make no warranty, expressed or implied, and accept no liability for the presence absence of lead or other hazardous materials in or on building products, materials, or areas. Helix Environmental, Inc. and its agents assume no responsibility for the cost of repairing, replacing, or removing any undiscovered or unreported condition or defect, or any future condition or defect.

If you have any questions or comments concerning the inspection or analytical results, please call me at (937) 226-0650.

Sincerely,

HELIX ENVIRONMENTAL, INC.

A handwritten signature in black ink, appearing to read "R. Froehlich", written over the company name.

Ralph A. Froehlich, CIH, CSP, QEP
President
Attach.

Mr. Doug Williams, AIA

April 22, 2026

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ATTACHMENTS

- **ANALYTICAL RESULTS AND SAMPLE DATA SHEETS**
- **SAMPLE LOCATIONS**
- **PHOTOGRAPHS**



The Identification Specialists

Analysis Report
prepared for
Helix Environmental Inc

Report Date: 3/20/2026

Project Name: 4616-4650 Wilmington Pike

Project #: 7462

SanAir ID#: 26015951



10501 Trade Court, North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | LabReports@SanAir.com | SanAir.com



SanAir ID Number

26015951

FINAL REPORT

3/20/2026 12:51:37 PM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: 4616-4650 Wilmington Pike
Collected Date: 3/18/2026
Received Date: 3/19/2026 10:25:00 AM

Dear RA Froehlich,

We at SanAir would like to thank you for the work you recently submitted. The 20 sample(s) were received on Thursday, March 19, 2026 via FedEx. The final report(s) is enclosed for the following sample(s): 7462-03-18-61, 7462-03-18-62, 7462-03-18-63, 7462-03-18-64, 7462-03-18-65, 7462-03-18-66, 7462-03-18-67, 7462-03-18-68, 7462-03-18-69, 7462-03-18-70, 7462-03-18-71, 7462-03-18-72, 7462-03-18-73, 7462-03-18-74, 7462-03-18-75, 7462-03-18-76, 7462-03-18-77, 7462-03-18-78, 7462-03-18-79, 7462-03-18-80.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink, appearing to read "Abisola Kasali".

Abisola Kasali
Metals Laboratory Director
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Chemistry Analysis
- Disclaimers and Additional Information

Sample conditions:
- 20 samples in Good condition.



SanAir ID Number
26015951
FINAL REPORT
3/20/2026 12:51:37 PM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: 4616-4650 Wilmington Pike
Collected Date: 3/18/2026
Received Date: 3/19/2026 10:25:00 AM

Analyst: Templeton, Kat
Test Method: SW846/M3050B/7000B

Lead Paint Analysis

PAINT Sample	Description	µg Pb In Sample	Sample Size (grams)	Calculated RL	Sample Results	Sample Results
26015951 - 1	7462-03-18-61 White Paint On Drywall D Storefront, N Wall NW Area	< 10.0	0.1122	89.1	<89.1 µg/g (ppm)	<0.009 % By Weight
26015951 - 2	7462-03-18-62 White Paint On Plaster D Storefront, S Wall SW Area	< 10.0	0.1085	92.2	<92.2 µg/g (ppm)	<0.009 % By Weight
26015951 - 3	7462-03-18-63 Blue Paint On Drywall F Storefront, N Wall Center	< 10.0	0.1108	90.3	<90.3 µg/g (ppm)	<0.009 % By Weight
26015951 - 4	7462-03-18-64 White Paint On Drywall F Storefront, S Wall Center	< 10.0	0.1045	95.7	<95.7 µg/g (ppm)	<0.010 % By Weight
26015951 - 5	7462-03-18-65 Green Paint On Plaster E Storefront, N Wall Center	26	0.1243	80.5	212.1 µg/g (ppm)	0.021 % By Weight
26015951 - 6	7462-03-18-66 White Paint On Drywall E Storefront, Rear N Wall By Door	38	0.1077	92.9	354.5 µg/g (ppm)	0.036 % By Weight
26015951 - 7	7462-03-18-67 White Paint On Drywall A Restaurant, W Addn, N Wall By Door	< 10.0	0.1021	97.9	<97.9 µg/g (ppm)	<0.010 % By Weight
26015951 - 8	7462-03-18-68 White Paint On Drywall A Restaurant, E Wall By Thermostat	< 10.0	0.1106	90.4	<90.4 µg/g (ppm)	<0.009 % By Weight
26015951 - 9	7462-03-18-69 White Paint On Drywall G Club, N Wall Center	< 10.0	0.1112	89.9	<89.9 µg/g (ppm)	<0.009 % By Weight
26015951 - 10	7462-03-18-70	< 10.0	0.1122	89.1	<89.1	<0.009 %

Method Reporting Limit <10 µg/0.1 g paint
Samples 7462-03-61, 64, 66, 68, and 76 contained substrate.

Signature: *Kaitlyn Templeton*
Date: 3/20/2026

Reviewed: *Mark H. Baird*
Date: 3/20/2026



SanAir ID Number
26015951
FINAL REPORT
3/20/2026 12:51:37 PM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: 4616-4650 Wilmington Pike
Collected Date: 3/18/2026
Received Date: 3/19/2026 10:25:00 AM

Analyst: Templeton, Kat
Test Method: SW846/M3050B/7000B

Lead Paint Analysis

PAINT Sample	Description	µg Pb In Sample	Sample Size (grams)	Calculated RL	Sample Results	Sample Results
	Blue Paint On Drywall G Club, Entry Area, S Wall Center				µg/g (ppm)	By Weight
26015951 - 11	7462-03-18-71	< 10.0	0.1076	92.9	<92.9	<0.009 %
	White Paint On Plaster G Club, S Wall, SW Area				µg/g (ppm)	By Weight
26015951 - 12	7462-03-18-72	< 10.0	0.1042	96	<96	<0.010 %
	Orange Paint On Drywall G Club, Rear, S Wall Between WRR &				µg/g (ppm)	By Weight
26015951 - 13	7462-03-18-73	196	0.1042	96	1876	0.188 %
	Tan Paint On Drywall H Grocery, Center Wall N Side At W End				µg/g (ppm)	By Weight
26015951 - 14	7462-03-18-74	< 10.0	0.1089	91.8	<91.8	<0.009 %
	Tan Paint On Drywall H Grocery, W Walls Of S Entry Doors				µg/g (ppm)	By Weight
26015951 - 15	7462-03-18-75	< 10.0	0.1031	97	<97	<0.010 %
	Green Paint On Plaster H Grocery, S Wall Center				µg/g (ppm)	By Weight
26015951 - 16	7462-03-18-76	< 10.0	0.1076	92.9	<92.9	<0.009 %
	Tan Paint On Drywall H Grocery, NW Office, N Wall				µg/g (ppm)	By Weight
26015951 - 17	7462-03-18-77	< 10.0	0.1013	98.7	<98.7	<0.010 %
	White Paint On Brick Panel B Storefront, W Room, N Wall In				µg/g (ppm)	By Weight
26015951 - 18	7462-03-18-78	35	0.1093	91.5	324.4	0.032 %
	Tan Over Green Paint On Plaster B Storefront, W Room S Wall				µg/g (ppm)	By Weight
26015951 - 19	7462-03-18-79	< 10.0	0.1008	99.2	<99.2	<0.010 %
	White Paint On Plaster C Storefront, N Wall Center				µg/g (ppm)	By Weight
26015951 - 20	7462-03-18-80	< 10.0	0.1111	90	<90	<0.009 %

Method Reporting Limit <10 µg/0.1 g paint
Samples 7462-03-61, 64, 66, 68, and 76 contained substrate.

Signature: *Kaitlyn Templeton*
Date: 3/20/2026

Reviewed: *Mark H. Baird*
Date: 3/20/2026



Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: 4616-4650 Wilmington Pike
Collected Date: 3/18/2026
Received Date: 3/19/2026 10:25:00 AM

Analyst: Templeton, Kat
Test Method: SW846/M3050B/7000B

Lead Paint Analysis

PAINT Sample	Description	µg Pb In Sample	Sample Size (grams)	Calculated RL	Sample Results	Sample Results
	White Paint On Drywall C Storefront, S Wall In SW Area				µg/g (ppm)	By Weight

Method Reporting Limit <10 µg/0.1 g paint
Samples 7462-03-61, 64, 66, 68, and 76 contained substrate.

Signature: *Kaitlyn Templeton*
Date: 3/20/2026

Reviewed: *Mark H. Baird*
Date: 3/20/2026

Disclaimer

This report is the sole property of the client account named on the chain-of-custody (COC) submitted to SanAir Technologies Laboratory, Inc. (SanAir). Results in the report are confidential information intended only for the use by the customer listed on the chain of custody. Neither results nor reports will be discussed with or released to any third party without our client's written permission. Final reports cannot be reproduced, except in full, without written approval from SanAir to assure that parts of the report are not taken out of context. This report and any information contained within shall not be edited, altered, or modified in any way by any persons or agencies receiving, viewing, distributing, or otherwise possessing a copy of this final report. The laboratory reserves the right to perform amendments to any finalized report, of which shall supersede and make obsolete any previous editions. Such changes, modifications, additions, or deletions shall be effective immediately upon notice thereof, which may be given by means including but not limited to posting on the SanAir client portal website, electronic or conventional mail, or by any other means.

The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results of the analysis is dependent upon the method of sample procurement and information provided by the client on the COC. SanAir is not responsible for the method of sample procurement. SanAir assumes no responsibility for information provided by the client on the COC such as project number, project name, collection dates, po number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start stop times that may affect the validity of the results in this report. SanAir only assures the precision and accuracy of the data it generates and assumes no responsibility for errors or biasing that occur during collection prior to SanAir's receipt of the sample(s). Evaluation reports are based solely on the sample(s) in the condition in which they are received at the laboratory and on the information provided by the client on the COC. Sample(s) were received in good condition unless otherwise noted on the report. All quality control results are acceptable unless otherwise noted. SanAir does not make contamination corrections to reports based upon analysis of laboratory and/or field blanks. When the client requires samples to be tested that deviate from a specific method or condition, all reported results may be affected by the deviation. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted. SanAir's Method Detection Limits (MDL) and Reporting Limits (RL) have been derived using various materials meeting each accrediting agencies' standards. All samples are disposed of after 60 days unless otherwise requested by the client. For Lead Exposure Limits, refer to HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards and State and Federal Regulations, where applicable.

SanAir Technologies Laboratory, Inc. participates in the Environmental Lead Accreditation Program (ELAP) administered by AIHA LAP, LLC (Laboratory ID LAP-162952), and has met the EPA's NLLAP program standards. SanAir also participates in the State of New York's DOH-ELAP program (NY Lab Id No. 11983) for lead in paint. This report does not constitute nor shall be used by the client to claim product, process, system, or person certification, approval, or endorsement by AIHA LAP, LLC, NELAC, NIST, and/or any other U.S. governmental agencies. All or some test results contained in this report may not be accredited by every local, state or federal regulatory agency. Refer to the SanAir website at www.sanair.com for copies of current certificates and scopes of various accreditations, certifications, and licenses or contact the laboratory for inquiries regarding the status or scope of an accreditation or certification.

AIHA LAP, LLC Lab ID: LAP-162952

New York State Department of Health Laboratory ID No: 11983

State of Connecticut Department of Public Health Environmental Laboratory Registration Number: PH-0105

Ohio Department of Health Environmental Lead Laboratory Approval Number E10049

State of Rhode Island Department of Health Environmental Lead Laboratory No LAO00371

Revision Date 3/24/2025

HELIX ENVIRONMENTAL, INC.

1 ELIZABETH PLACE, SUITE 160H
DAYTON, OHIO 45417-3445
(937) 226-0650

LABORATORY: San Air
DATE SAMPLED: 3/18/2026
RUSH - YES OR NO (N) DATE REQUIRED: 24 HR TAT
LOCATION: Dayton, OH
CONTRACTOR/CLIENT: App Architecture
ADDRESS: 4660 Wilington Pike
INSPECTOR: RA Froehlich
JOB NUMBER: 7462

DETERIORATED PAINT SAMPLING FORM

ANALYSES REQUESTED: pb (% by weight)

LAB SAMPLE NO.	HELIX SAMPLE NUMBER	ROOM	BUILDING COMPONENT	CONDITION	SAMPLE AREA	COMMENTS
	7462-03-18-61	D Storefront, N Wall NW Area 5'H	White Paint on Drywall	F	2" x 2"	
	7462-03-18-62	D Storefront, S Wall SW Area 4'H	White Paint on Plaster	P	2" x 2"	
	7462-03-18-63	D Storefront, N Wall Center 4'H	Blue Paint on Drywall	F	2" x 2"	
	7462-03-18-64	D Storefront, S Wall Center 4'H	White Paint on Drywall	GT	2" x 2"	
	7462-03-18-65	E Storefront, N Wall Center 4'H	Green Paint on Plaster	P	2" x 2"	
	7462-03-18-66	E Storefront, Rear N Wall by door 4'H	White Paint on Drywall	G	2" x 2"	
	7462-03-18-67	A Restaurant, W Wall N Wall by door 5'H	White Paint on Drywall	GT	2" x 2"	
	7462-03-18-68	A Restaurant, E Wall by thermostat 5'H	White Paint on Drywall	G	2" x 2"	

THIS IS A CHAIN OF CUSTODY DOCUMENT. PLEASE COMPLETE, SIGN AND DATE. PLEASE RETURN ORIGINAL TO HELIX ENVIRONMENTAL, INC.

RECD 1	RELINQUISHED BY: <u>RA Froehlich</u>	COMPANY: <u>Helix Env. Inc</u>	DATE/TIME: <u>3/18/2026 1700</u>	RECD 3	RELINQUISHED BY:	COMPANY:
RECD 2	RECEIVED BY:	COMPANY:	DATE/TIME:	RECD 4	RELINQUISHED BY:	COMPANY:

SanAir ID Number
26015951



Received by ER on 3/19/26 at 10:25 AM

HELIX ENVIRONMENTAL, INC.

1 ELIZABETH PLACE, SUITE 160H
DAYTON, OHIO 45417-3445
(937) 226-0650

LABORATORY: San Air
DATE SAMPLED: 3/18/2026
RUSH - YES OR (NO) DATE REQUIRED: 24 HR TAT
LOCATION: Dayton, OH
CONTRACTOR/CLIENT: App Architecture
ADDRESS: 4666 Wilington Pike
INSPECTOR: KA Froehlich
JOB NUMBER: 7462

DETERIORATED PAINT SAMPLING FORM

ANALYSES REQUESTED: pb (% by weight)

LAB SAMPLE NO.	HELIX SAMPLE NUMBER	ROOM	BUILDING COMPONENT	CONDITION	SAMPLE AREA	COMMENTS
	7462-03-18-69	G Club, N Wall Center 5'H	White Paint on Drywall	F	2" x 2"	
	7462-03-18-70	G Club, Entry Area, S Wall Center 5'H	Blue Paint on Drywall	G	2" x 2"	
	7462-03-18-71	G Club, S Wall, SW Area 6'H	White Paint on Plaster	F	2" x 2"	
	7462-03-18-72	G Club, Rear, S Wall between WKR & MKR 4'H	Orange Paint on Drywall	G	2" x 2"	
	7462-03-18-73	H Grocery, Center Wall N Side of Wend 7'H	Tan Paint on Drywall	F	2" x 2"	
	7462-03-18-74	H Grocery, W Wall S of Entry Doors 4'H	Tan Paint on Drywall	F	2" x 2"	
	7462-03-18-75	H Grocery, S Wall Center 5'H	Green Paint on Plaster	P	2" x 2"	
	7462-03-18-76	H Grocery, NW Office, N Wall 7'H	Tan Paint on Drywall	G	2" x 2"	by stairs to Upper Office

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RECD 1	RELINQUISHED BY: <u>KA Froehlich</u>	COMPANY: <u>Helix Env. Inc.</u>	DATE/TIME: <u>3/18/2026 1700</u>	RECD 3	RELINQUISHED BY:	COMPANY:	DATE/TIME:
RECD 2	RECEIVED BY:	COMPANY:	DATE/TIME:	RECD 4	RELINQUISHED BY:	COMPANY:	DATE/TIME:

HELIX ENVIRONMENTAL, INC.

1 ELIZABETH PLACE, SUITE 160H
DAYTON, OHIO 45417-3445
(937) 226-0650

LABORATORY: San Air
DATE SAMPLED: 3/18/2026
RUSH - YES OR ☒ NO DATE REQUIRED: 24 HR TAT
LOCATION: Dayton, OH
CONTRACTOR/CLIENT: App Architecture
ADDRESS: 4616 + 4660 Wilmington Pike
INSPECTOR: RA Froehlich
JOB NUMBER: 7462

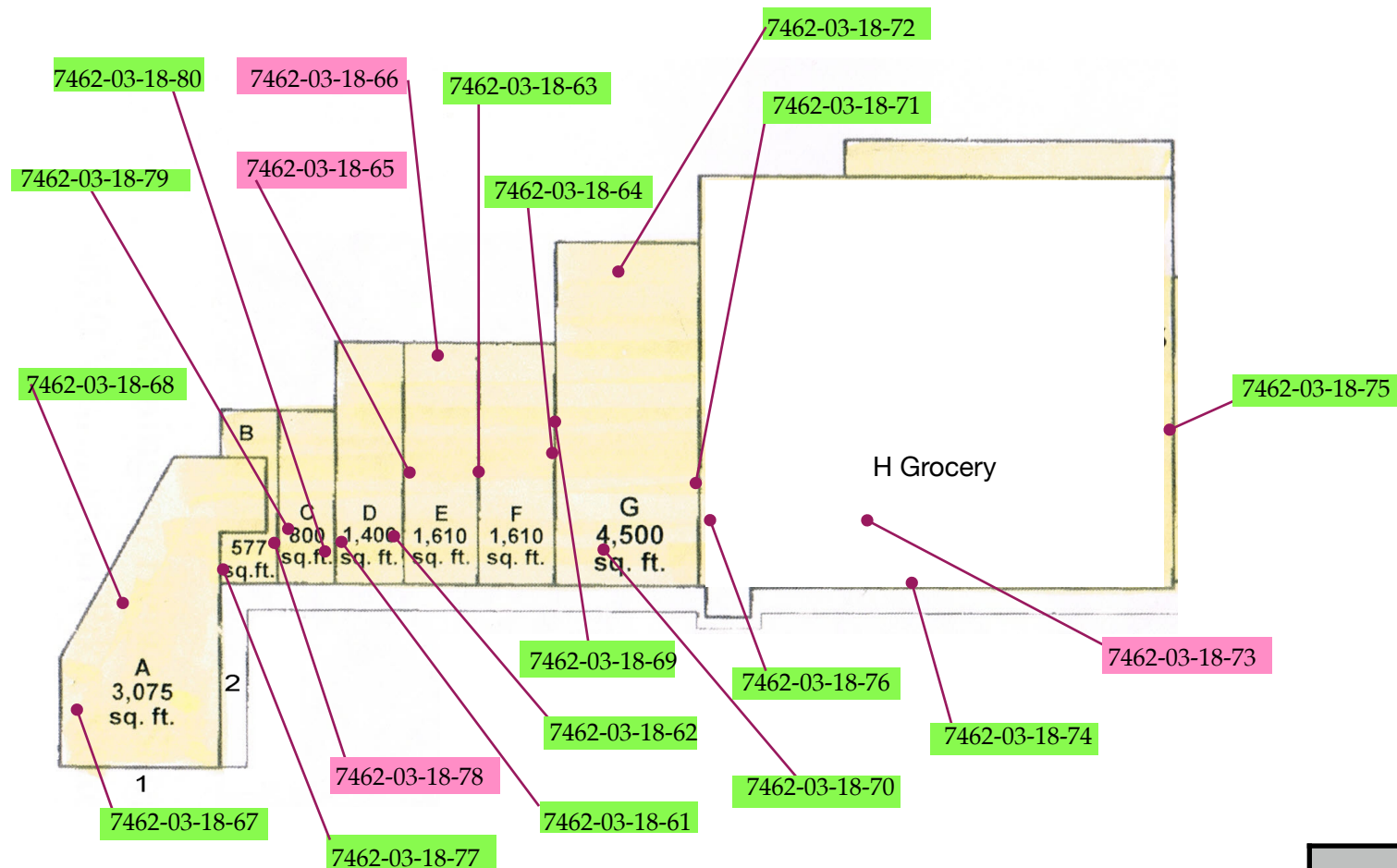
DETERIORATED PAINT SAMPLING FORM

ANALYSES REQUESTED: pb (% by weight)

LAB SAMPLE NO.	HELIX SAMPLE NUMBER	ROOM	BUILDING COMPONENT	CONDITION	SAMPLE AREA	COMMENTS
	7462-03-18-77	B Storefront, W Room, N Wall in NW corner	White Paint on Brick Panel	P	2" x 2"	
	7462-03-18-78	B Storefront, W Room, S Wall Center	Tan over Green Paint on Plaster	P	2" x 2"	
	7462-03-18-79	C Storefront, N Wall Center	White Paint on Plaster	G	2" x 2"	
	7462-03-18-80	C Storefront, S Wall in SW Area	White Paint on Drywall	G	2" x 2"	
	7462-03-18-					
	7462-03-18-					
	7462-03-18-					
	7462-03-18-					

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RECD 1	RELINQUISHED BY: <u>RA Froehlich</u>	COMPANY: <u>Helix Env. Inc</u>	DATE/TIME: <u>3/18/2026 1700</u>	RECD 3	RELINQUISHED BY:	COMPANY:	DATE/TIME:
RECD 2	RECEIVED BY:	COMPANY:	DATE/TIME:	RECD 4	RELINQUISHED BY:	COMPANY:	DATE/TIME:



LEGEND

- Lead-Containing Paint
- Non Lead-Containing Paint
- No Access- No Inspection Performed

LEAD PAINT SAMPLE LOCATIONS
1ST FLOOR
4650 WILMINGTON PIKE
KETTERING, OH

HELIX ENVIRONMENTAL, INC.

1 ELIZABETH PLACE, SUITE 160H
DAYTON, OHIO 45417
937-226-0650



Sample 7462-03-18-61 with no detectable lead



Sample 7462-03-18-62 with no detectable lead



Sample 7462-03-18-63 with no detectable lead



Sample 7462-03-18-64 with no detectable lead



Sample 7462-03-18-65 with 0.021% lead



Sample 7462-03-18-66 with 0.036% lead



Sample 7462-03-18-67 with no detectable lead



Sample 7462-03-18-68 with no detectable lead



Sample 7462-03-18-69 with no detectable lead



Sample 7462-03-18-70 with no detectable lead



Sample 7462-03-18-71 with no detectable lead



Sample 7462-03-18-72 with no detectable lead



Sample 7462-03-18-73 with 0.188% lead



Sample 7462-03-18-74 with no detectable lead



Sample 7462-03-18-75 with no detectable lead



Sample 7462-03-18-77 with no detectable lead



Sample 7462-03-18-78 with 0.032% lead



Sample 7462-03-18-79 with no detectable lead



Sample 7462-03-18-80 with no
detectable lead



May 28 , 2026

Mr. Doug Williams, AIA, NCARB, LEED, AP
App Architecture
615 Woodside Drive
Englewood, Ohio 45322

Telephone (937) 836-8898 ext. 124

**RE: Pre-Demolition Asbestos Inspection of Wilmington Heights Plaza, 4614 - 4650
Wilmington Pike, Dayton, Ohio, March 17, 18, and 31 and April 2 and 30, 2026.
Helix Project No. 7462.**

Dear Mr. Williams:

App Architecture contracted with Helix Environmental, Inc. to perform a pre-demolition asbestos inspection of the accessible portions of the Office Building located at Wilmington Heights Plaza, 4614 - 4650 Wilmington Pike, Dayton, Ohio. The inspection was necessary to determine if asbestos-containing building materials were present so that plans could be made to remove them in accordance with current regulatory requirements prior to a planned demolition of the buildings. This letter report summarizes the results of the inspection performed on March 17, 18 and 31 and April 2 and 30, 2026 and the analytical results of samples collected on those dates. A companion report addressed the results of a preliminary lead-containing paint inspection performed at the site.

INSPECTION AND ANALYTICAL PROCEDURES

Mr. Ralph Froehlich, CIH, CSP, QEP and Mr. Benjamin Froehlich, IH with Helix Environmental, Inc. performed bulk sampling for asbestos in the accessible renovation areas at the office building located on Wilmington Heights Plaza, 4614 - 4650 Wilmington Pike in Dayton, Ohio. On March 17, 18 and 31 and April 2 and 30, 2026. Mr. R. A. Froehlich and Mr. B. Froehlich collected samples in the areas of the accessible building where the majority of work is to occur. Mr. Ralph A. Froehlich is a Certified Industrial Hygienist with more than thirty years experience in the fields of occupational and environmental health, and is certified by the Ohio Department of Health as an Asbestos Hazard Evaluation Specialist and Asbestos Abatement Project Designer (Certification Nos. ES3074 and PD60148, respectively). Mr. Benjamin Froehlich has over fifteen years experience in the fields of occupational and environmental health and is

also certified by the Ohio Department of Health as an Asbestos Hazard Evaluation Specialist and Asbestos Abatement Project Designer (Cert. Nos. ES34739 and PD60827, respectively). Mr. Seth Prater, Inspector with the City of Kettering, provided access to the site.

Helix Environmental, Inc. collected seventy-two (72) bulk samples of suspect asbestos-containing building materials in the renovation areas on March 17, 2026. Helix Environmental, Inc. collected an additional forty-eight (48) bulk samples of suspect asbestos-containing building materials in the renovation area on March 18, 2026. An additional forty-one (41) samples were collected on March 31, 2026, and another twelve (12) samples were collected on April 2, 2026. Finally, eighteen (18) additional samples were collected on April 30, 2026.

Sampling locations were determined in a manner "sufficient to determine" whether miscellaneous and non-friable materials contain more than 1% asbestos if they were not assumed to contain asbestos. No thermal system insulation or surfacing materials were identified during the inspection. Bulk samples of the suspect materials were collected using cleaned hand tools and packaged in labeled zip-lock plastic bags. The sample bags were placed into a larger zip-lock bag, with the original sample data/chain-of-custody and analytical request forms. Helix Environmental, Inc. retained copies of these forms.

Bulk samples were shipped by overnight courier to SanAir Technologies Laboratory, Inc., a National Voluntary Laboratory Accreditation Program (NVLAP) and Ohio Certified Professional accredited environmental lead laboratory, where they were analyzed via Polarized Light Microscopy (PLM) with dispersion staining in accordance with the U.S. Environmental Protection Agency's Interim Methods for the Determination of Asbestos in Bulk Insulation Samples (EPA-600/R-93/116). Under this method, the limit of detection for asbestos is about 1 percent by area. Samples containing smaller concentrations of asbestos are not reliably detected by this technique. Polarized light microscopes equipped with 10X eyepieces, 10X and 40X objective lenses and dispersion staining lenses were used to identify fibers present in the samples. This method has a reporting limit of 1%. Six samples were re-analyzed by EPA PLM Point Counting which has been identified by U. S. EPA as a more accurate method of determining the asbestos content of building materials. Several samples were reanalyzed using EPA PLM with gravimetric reduction. This method has a reporting limit of 0.1%. Two drywall and joint compound samples were also composited before additional EPA PLM Point Count analysis.

SanAir Technologies Laboratory, Inc. maintains accreditation from the American Industrial Hygiene Association as an environmental microbiology and environmental lead laboratory and has received accreditation through successful participation in the NIST National Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos and as an environmental lead laboratory. AIHA-accredited laboratories are scrutinized on a regular basis to ensure that personnel, equipment, facilities and data are maintained. In addition, AIHA-accredited laboratories have well-developed assurance/quality control programs to ensure that analytical results accurately reflect conditions present during the sampling periods.

APPLICABLE STANDARDS

Asbestos

The U. S. Environmental Protection Agency (EPA) has established regulations that apply to friable and potentially friable materials with asbestos content in excess of one percent, as determined by PLM. These regulations establish required notification, removal techniques, and disposal of regulated asbestos-containing materials. "Friable" means that a suspect material can be reduced to a powder by hand pressure when dry and denotes a material that is capable of releasing significant amounts of asbestos fibers to the air. Potentially friable materials are those that may release asbestos fibers to the air if they are extensively damaged during demolition operations, and include Category I Nonfriable materials in poor condition and Category II Nonfriable materials. Category I Nonfriable materials include bituminous roofing materials, resilient flooring materials, and gaskets, where the asbestos is mixed in a resilient matrix. Category I Nonfriable materials may be left in buildings when they are demolished by conventional methods, if the materials are not in poor condition. The Ohio EPA has established equivalent regulations for Ohio (Ohio Administrative Code 3745-20).

U. S. EPA has also recently banned certain uses of asbestos, and requires exposure monitoring to determine whether potentially-exposed persons exceed an airborne "Existing Chemical Exposure Limit" (ECEL) of 0.005 fibers/cc. The requirement for exposure monitoring and provision of respirators for persons whose exposures exceed 0.005 fibers/cc is currently in effect (40 CFR 751 Subpart F).

The Occupational Safety and Health Administration (OSHA) has promulgated an eight-hour Time-Weighted Average (TWA) Permissible Exposure Limit of 0.1 fibers/cc for airborne asbestos exposures while working in and around asbestos-containing materials

(29 CFR 1910.1001, 29 CFR 1926.1101). A 30-minute Excursion Limit of 1.0 fibers/cc is also included with the standards. Asbestos-containing materials are defined as those that contain more than 1% asbestos. These regulations include complex requirements for asbestos abatement, dividing the work with and around asbestos into four classes, with varying requirements for each class. OSHA also requires building and facility owners to maintain records of information concerning the presence, location and quantity of asbestos-containing material (ACM) and presumed asbestos-containing material (PACM) installed in their building or facility (29 CFR 1910.1001(j)(2)(ii)).

The U.S. Environmental Protection Agency (EPA) has established clearance criteria of 0.01 fibers/cc by PCM analyses for small-scale asbestos abatement projects in schools (40 CFR 763.91). In addition, EPA has established clearance criteria of 70 asbestos structures/mm² by Transmission Electron Microscopy (TEM) analyses. However, this clearance criteria is only required for large asbestos abatement projects in schools.

The American Conference of Governmental Industrial Hygienists (ACGIH) recommends an airborne eight-hour TWA Threshold Limit Value of 0.1 fibers/cc (ACGIH 2026 *TLVs and BEIs*). ACGIH TLVs denote concentrations and conditions to which it is believed that nearly all workers may be repeatedly exposed day after day without adverse effect.

The National Institute for Occupational Safety and Health (NIOSH) identifies asbestos as an occupational carcinogen, and recommends that occupational exposures be “limited to the lowest feasible concentration” (NIOSH *Pocket Guide to Chemical Hazards*, 2007).

The Ohio Environmental Protection Agency (OEPA) has established additional regulations for asbestos abatement, including a certification program for asbestos supervisors, workers, hazard evaluation specialists, project designers, and air monitoring technicians. OEPA regulations also require contractors to be licensed, and require 10 working day advance notifications for asbestos abatement in amounts over 50 linear feet (LF) or 50 square feet (SF) of friable asbestos-containing material (Ohio Administrative Code 3745-20, 22).

ANALYTICAL RESULTS

TABLE 1: CONFIRMED AND ASSUMED ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-31-01 26019013-001	4800 SF	1	2' x 4' Ceiling Tile with Random Holes and Gouges / H Building, 1st Floor, Large North Room, Northwest Area, 10' Ht.	Friable	No Asbestos Detected
7462-03-31-02 26019013-002	-	1	2' x 4' Ceiling Tile with Random Holes and Gouges / H Building, 1st Floor, Large North Room, Northeast Area, 10' Ht.	Friable	No Asbestos Detected
7462-03-31-03 26019013-003 26019193-001	-	1	2' x 4' Ceiling Tile with Random Holes and Gouges / H Building, 1st Floor, Large South Room, Northeast Central Area, 10' Ht.	Friable	<1% Amosite Asbestos Detected; <0.25% Amosite Asbestos by Point Count
7462-03-31-04 26019013-004 26019193-002	180 SF	1	2' x 4' Ceiling Tile with Longways Fissures and Holes / H Building, 1st Floor, Large North Room, Northeast Area, 10' Ht.	Friable	<1% Amosite Asbestos Detected; <0.25% Amosite Asbestos by Point Count
7462-03-31-05 26019013-005	-	1	2' x 4' Ceiling Tile with Longways Fissures and Holes / H Building, 1st Floor, Northwest Customer Services, East Central Area, 10' Ht.	Friable	No Asbestos Detected
7462-03-31-27 26019013-027	24 SF	1	1/8" Thick Grey Cementitious Panel, Peg-Board / H (Grocery) 1st Floor, North Hallway, Southeast Area, 4' Ht.	Non-Friable	15% Chrysotile Asbestos Detected

Ohio EPA REGULATED ASBESTOS-CONTAINING BUILDING MATERIAL
 US EPA REGULATED ASBESTOS-CONTAINING BUILDING MATERIAL
 OSHA REGULATED ASBESTOS-CONTAINING MATERIAL

>1% Asbestos
 >1% Asbestos
 >1% Asbestos

TABLE 1 (CONTINUED): CONFIRMED AND ASSUMED ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-31-28 26019013-028	24 SF		1/8" Thick Grey Cementitious Panel, Peg-Board / H (Grocery)1st Floor, North Hallway, SE Area, 4' Ht.	Non-Friable	15% Chrysotile Asbestos Detected
7462-03-31-29 26019013-029	300 SF	1	1/8" Thick Grey Cementitious Panel, Rough / H (Grocery), 1st Floor, North Hallway, Southeast Area, 4' Ht.	Non-Friable	15% Chrysotile Asbestos Detected
7462-03-31-30 26019013-030	-	1	1/8" Thick Grey Cementitious Panel, Rough / H (Grocery), 1st Floor, Northwest Entry Room, South Central Area, On Ceiling, 10' Ht.	Non-Friable	15% Chrysotile Asbestos Detected
7462-03-17-49 26015698-049	300 SF	1	Drywall, Drywall/ C (4624), 1st Floor, West Room, Hallway, Corner, At Ceiling, 10' Ht.	Non-Friable	No Asbestos Detected
		2	Drywall, Joint Compound / C (4624), 1st Floor, West Room, Hallway, Corner, At Ceiling, 10' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-50 26015698-050 26016458-002 26019918-001	-	1	Drywall, Drywall/ C (4624), 1st Floor, Northeast Room, South Wall, West Central Area, 4' Ht.	Non-Friable	No Asbestos Detected
		2	Drywall, Joint Compound / C (4624), 1st Floor, Northeast Room, South Wall, West Central Area, 4' Ht.	Non-Friable	4% Chrysotile Asbestos Detected; 4.5% Chrysotile Asbestos by Point Count; 0.75% Chrysotile Asbestos by Point Count as a Composite

Ohio EPA REGULATED ASBESTOS-CONTAINING BUILDING MATERIAL
US EPA REGULATED ASBESTOS-CONTAINING BUILDING MATERIAL
OSHA REGULATED ASBESTOS-CONTAINING MATERIAL

>1% Asbestos
>1% Asbestos
>1% Asbestos

TABLE 1 (CONTINUED): CONFIRMED AND ASSUMED ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-18-06 26016018-006 26017031-002 26019910-001	2100 SF	1	Drywall, Drywall/ E (4630), 1st Floor, Main Room, East Wall, North Central Area, At Pipe Chase, 5.5' Ht.	Non-Friable	No Asbestos Detected
		2	Drywall, Joint Compound / E (4630), 1st Floor, Main Room, East Wall, North Central Area, At Pipe Chase, 5.5' Ht.	Non-Friable	2% Chrysotile Asbestos Detected; 1.5% Chrysotile Asbestos by Point Count; 0.25% Chrysotile Asbestos by Point Count as a Composite
		3	Drywall, Texture / E (4630), 1st Floor, Main Room, E. Wall, N. Central Area, At Pipe Chase, 5.5' Ht.	Non-Friable	No Asbestos Detected
7462-03-18-07 26016018-007	-	1	Drywall, Drywall/ E (4630), 1st Floor, Main Room, North Wall, West Central Area, 4' Ht.	Non-Friable	No Asbestos Detected
		2	Drywall, Joint Compound / E (4630), 1st Floor, Main Room, North Wall, West Central Area, 4' Ht.	Non-Friable	No Asbestos Detected
7462-03-31-17 26019013-017	9,200 SF	1	Drywall Joint Compound / H (Grocery), 1st Floor, Large North Room, West Wall, South Area, 4' Ht.	Non-Friable	No Asbestos Detected
7462-03-31-19 26019013-019	-	1	Drywall, Drywall/H (Grocery), 1st Floor, Large North Room, West Wall, South Area, 4' Ht.	Non-Friable	No Asbestos Detected
		2	Drywall, Texture / H (Grocery), 1st Floor, Large North Room, West Wall, South Area, 4' Ht.	Non-Friable	No Asbestos Detected

Ohio EPA REGULATED ASBESTOS-CONTAINING BUILDING MATERIAL
 US EPA REGULATED ASBESTOS-CONTAINING BUILDING MATERIAL
 OSHA REGULATED ASBESTOS-CONTAINING MATERIAL

>1% Asbestos
 >1% Asbestos
 >1% Asbestos

TABLE 1 (CONTINUED): CONFIRMED AND ASSUMED ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-31-20 26019013-020	9,200 SF	1	Drywall, Drywall/ H (Grocery), 1st Floor, Large North Room, South Wall, East Area, At Archway, 4' Ht.	Non-Friable	No Asbestos Detected
		2	Drywall, Joint Compound / H (Grocery), 1st Floor, Large North Room, South Wall, East Area, At Archway, 4' Ht.	Non-Friable	No Asbestos Detected
7462-03-31-21 26019013-021 26019193-003 26019896-001	-	1	Drywall, Drywall/ H (Grocery), 1st Floor, East Central Restrooms, Southwest Outside, Corner, 4' Ht.	Non-Friable	No Asbestos Detected
		2	Drywall, Joint Compound / H (Grocery), 1st Floor, East Central Restrooms, Southwest Outside, Corner, 4' Ht.	Non-Friable	2% Chrysotile Asbestos Detected; 1.5% Chrysotile Asbestos by Point Count; <0.25% Chrysotile Asbestos by Point Count as a Composite
7462-03-31-22 26019013-022	-	1	Drywall, Drywall/ H (Grocery), 1st Floor, East Central Restrooms, South Exterior Wall, East Area, By Entrance to Men's Restroom, 5' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-70 26015698-070	120 SF	1	Drywall, Drywall/ D (4628), 1st Floor, Northeast Restroom, North Wall, Northwest Corner, 5' Ht.	Non-Friable	No Asbestos Detected
		2	Drywall, Joint Compound / D (4628), 1st Floor, NE Restroom, N. Wall, NW Corner, 5' Ht.	Non-Friable	No Asbestos Detected

Ohio EPA REGULATED ASBESTOS-CONTAINING BUILDING MATERIAL
US EPA REGULATED ASBESTOS-CONTAINING BUILDING MATERIAL
OSHA REGULATED ASBESTOS-CONTAINING MATERIAL

>1% Asbestos
>1% Asbestos
>1% Asbestos

TABLE 1 (CONTINUED): CONFIRMED AND ASSUMED ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-17-71 26015698-071 26016458-005 26019918-002	120 SF	1	Texturized Drywall, Drywall/ D (4628), 1st Floor, Northeast Restroom, Southwest Corner, 5' Ht.	Non-Friable	No Asbestos Detected
		2	Texturized Drywall, Joint Compound/ D (4628), 1st Floor, NE Restroom, SW Corner, 5' Ht.	Non-Friable	3% Chrysotile Asbestos Detected; 4.25% Chrysotile Asbestos by Point Count; 0.75% Chrysotile Asbestos by Point Count as a Composite
		3	Texturized Drywall, Texture/ D (4628), 1st Floor, NE Restroom, SW Corner, 5' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-72 26015698-072 26016458-006 26019918-003	-	1	Texturized Drywall, Drywall/ D (4628), 1st Floor, Northeast Restroom, Southwest Corner, 5' Ht.	Non-Friable	No Asbestos Detected
		2	Texturized Drywall, Joint Compound/ D (4628), 1st Floor, NE Restroom, SW Corner, 5' Ht.	Non-Friable	3% Chrysotile Asbestos Detected; 3% Chrysotile Asbestos by Point Count; 0.75% Chrysotile Asbestos by Point Count as a Composite
		3	Texturized Drywall, Texture/ D (4628), 1st Floor, NE Restroom, SW Corner, 5' Ht.	Non-Friable	No Asbestos Detected

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TABLE 1 (CONTINUED): CONFIRMED AND ASSUMED ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-18-01 26016018-001 26017031-001	120 SF	1	Texturized Drywall, Texture / D (4628), 1st Floor, Northeast Restroom, Southwest Corner, 5' Ht.	Non-Friable	2% Chrysotile Asbestos Detected; 1.25% Chrysotile Asbestos by Point Count
7462-03-17-51 26015698-051	600 SF	1	Texturized Layer / C (4624), 1st Floor, East Central Room, East Wall, North Area, 4.5' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-52 26015698-052	-	1	Texturized Layer / C (4624), 1st Floor, West Room, North Wall, Central Area, On Pipe Chase, 3' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-53 26015698-053 26016458-003	1200 SF	1	Texturized Hard Plaster, Plaster / C (4624), 1st Floor, West Room, North Wall, Central Area, 4.5' Ht.	Non-Friable	No Asbestos Detected
		2	Texturized Hard Plaster, Skim Coat / C (4624), 1st Floor, West Room, North Wall, Central Area, 4.5' Ht.	Non-Friable	No Asbestos Detected
		3	Texturized Hard Plaster, Texture / C (4624), 1st Floor, West Room, North Wall, Central Area, 4.5' Ht.	Non-Friable	<1% Chrysotile Asbestos Detected; <0.25% Chrysotile Asbestos by Point Count
7462-03-17-54 26015698-054	-	1	Texturized Hard Plaster and Skim Coat / C (4624), 1st Floor, East Central Room, South Wall, West Central Area, 4.5' Ht.	Non-Friable	No Asbestos Detected

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TABLE 1 (CONTINUED): CONFIRMED AND ASSUMED ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-17-27 26015698-027	320 SF	1	9" x 9" Grey Floor Tile, Floor Tile/ B (4618), West Room, Northwest Corner, 0' Ht.	Non-Friable	4% Chrysotile Asbestos Detected
		2	9" x 9" Grey Floor Tile, Black Mastic/ B (4618), West Room, Northwest Corner, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-28 26015698-028	-	1	9" x 9" Grey Floor Tile, Floor Tile/ B (4618), West Room, Southwest Corner, 0' Ht.	Non-Friable	4% Chrysotile Asbestos Detected
		2	9" x 9" Grey Floor Tile, Black Mastic/ B (4618), West Room, Southwest Corner, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-55 26015698-055	800 SF	1	9" x 9" Tan Streaked Floor Tile, Floor Tile/ C (4624), 1st Floor, Southeast Furnace Room, Southwest Corner, 0' Ht.	Non-Friable	5% Chrysotile Asbestos Detected
		2	9" x 9" Tan Streaked, Black Mastic/ C (4624), 1st Floor, Southeast Furnace Room, Southwest Corner, 0' Ht.	Non-Friable	3% Chrysotile Asbestos Detected
7462-03-17-56 26015698-056	-	1	9" x 9" Tan Streaked Floor Tile, Floor Tile/ C (4624), 1st Floor, West Room, Southeast Corner, Under Carpet, 0' Ht.	Non-Friable	5% Chrysotile Asbestos Detected
		2	9" x 9" Tan Streaked, Black Mastic/ C (4624), 1st Floor, West Room, Southeast Corner, Under Carpet, 0' Ht.	Non-Friable	3% Chrysotile Asbestos Detected

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TABLE 1 (CONTINUED): CONFIRMED AND ASSUMED ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-31-35 26019013-035	6 SF	1	9" x 9" Beige Mottled Floor Tile, Floor Tile/ H (Grocery), 1st Floor, Large South Room, Southwest Area, At West Wall, 0' Ht.	Non-Friable	2% Chrysotile Asbestos Detected
		2	9" x 9" Beige Mottled Floor Tile, Black Mastic/ H (Grocery), 1st Floor, Large South Room, Southwest Area, At West Wall, 0' Ht.	Non-Friable	3% Chrysotile Asbestos Detected
7462-03-31-36 26019013-036	-	1	9" x 9" Beige Mottled Floor Tile, Floor Tile/ H (Grocery), 1st Floor, Large South Room, Southwest Area, At West Wall, 0' Ht.	Non-Friable	2% Chrysotile Asbestos Detected
		2	9" x 9" Beige Mottled Floor Tile, Black Mastic/ H (Grocery), 1st Floor, Large South Room, Southwest Area, At West Wall, 0' Ht.	Non-Friable	3% Chrysotile Asbestos Detected
7462-03-17-62 26015698-062	20 SF	1	12" x 12" Tan Streaked Floor Tile, Floor Tile/ C (4624), 1st Floor, Northeast Bathroom, Southwest Area, At Entrance, 0' Ht.	Non-Friable	No Asbestos Detected
		2	12" x 12" Tan Streaked, Black Mastic/ C (4624), 1st Floor, Northeast Bathroom, Southwest Area, At Entrance, 0' Ht.	Non-Friable	3% Chrysotile Asbestos Detected
7462-03-17-63 26015698-063	-	1	12" x 12" Tan Streaked Floor Tile, Floor Tile/ C (4624), 1st Floor, Northeast Bathroom, Northeast Central Area, 0' Ht.	Non-Friable	No Asbestos Detected
		2	12" x 12" Tan Streaked, Black Mastic/ C (4624), 1st Floor, Northeast Bathroom, Northeast Central Area, 0' Ht.	Non-Friable	3% Chrysotile Asbestos Detected

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TABLE 1 (CONTINUED): CONFIRMED AND ASSUMED ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-18-10 26016018-010	1450 SF	1	12" x 12" Light and Dark Grey Mottled Floor Tile, Floor Tile/ E (4630), 1st Floor, Main Room, East Central Area, 0' Ht.	Non-Friable	No Asbestos Detected
		2	12" x 12" Light and Dark Grey Mottled Floor Tile, Tan and Black Mastic/ E (4630), 1st Floor, Main Room, East Central Area, 0' Ht.	Non-Friable	3% Chrysotile Asbestos Detected
7462-03-18-11 26016018-011	-	1	12" x 12" Light and Dark Grey Mottled Floor Tile, Floor Tile/ E (4630), 1st Floor, Main Room, East Central Area, 0' Ht.	Non-Friable	No Asbestos Detected
		2	12" x 12" Light and Dark Grey Mottled Floor Tile, Tan and Black Mastic/ E (4630), 1st Floor, Main Room, Northwest Central Area, 0' Ht.	Non-Friable	<1% Chrysotile Asbestos Detected
7462-03-18-24 26016018-024	1400 SF	1	12" x 12" Light Grey Plain Floor Tile, Floor Tile/ F (4634), 1st Floor, Main Room, Center, 0' Ht.	Non-Friable	No Asbestos Detected
		2	12" x 12" Light Grey Plain Floor Tile, Tan and Black Mastic/ F (4634), 1st Floor, Main Room, Center, 0' Ht.	Non-Friable	3% Chrysotile Asbestos Detected
7462-03-18-25 26016018-025	-	1	12" x 12" Light Grey Plain Floor Tile, Floor Tile/ F (4634), 1st Floor, Main Room, Northwest Area, 0' Ht.	Non-Friable	No Asbestos Detected
		2	12" x 12" Light Grey Plain Floor Tile, Tan and Black Mastic/ F (4634), 1st Floor, Main Room, Northwest Area, 0' Ht.	Non-Friable	3% Chrysotile Asbestos Detected

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TABLE 1 (CONTINUED): CONFIRMED AND ASSUMED ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-18-39 26016018-039	420 SF	1	12" x 12" Aqua Mottled Floor Tile, Floor Tile/ G (4638), 1st Floor, Main Room, South Central Area, West of Bar, 0' Ht.	Non-Friable	No Asbestos Detected
		2	12" x 12" Aqua Mottled Floor Tile, Black Mastic/ G (4638), 1st Floor, Main Room, South Central Area, West of Bar, 0' Ht.	Non-Friable	3% Chrysotile Asbestos Detected
7462-03-18-40 26016018-040	-	1	12" x 12" Aqua Mottled Floor Tile, Floor Tile/ G (4638), 1st Floor, Men's Restroom, Central Area, 0' Ht.	Non-Friable	No Asbestos Detected
		2	12" x 12" Aqua Mottled Floor Tile, Black Mastic/ G (4638), 1st Floor, Men's Restroom, Central Area, 0' Ht.	Non-Friable	3% Chrysotile Asbestos Detected
7462-03-31-15 26019013-015	90 SF	1	12" x 12" Grey Steaked Floor Tile, Floor Tile/ H (Grocery), 1st Floor, Northwest Elevated Office, Northwest Area, At Steps, 2' Ht.	Non-Friable	No Asbestos Detected
		2	9" x 9" Beige Floor Tile, Floor Tile/ H (Grocery), 1st Floor, Northwest Elevated Office, Northwest Area, At Steps, 2' Ht.	Non-Friable	2% Chrysotile Asbestos Detected
		3	12" x 12" Grey Steaked Floor Tile, Black Mastic/ H (Grocery), 1st Floor, NW Elevated Office, NW Area, At Steps, 2' Ht.	Non-Friable	3% Chrysotile Asbestos Detected

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Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-31-16 26019013-016	90 SF	1	12" x 12" Grey Steaked Floor Tile, Floor Tile/ H (Grocery), 1st Floor, Northwest Elevated Office, East Central Area, 2' Ht.	Non-Friable	No Asbestos Detected
		2	9" x 9" Beige Floor Tile, Floor Tile / H (Grocery), 1st Floor, NW Elevated Office, E. Central Area, 2' Ht.	Non-Friable	2% Chrysotile Asbestos Detected
		3	12" x 12" Grey Steaked Floor Tile, Black Mastic/ H (Grocery), 1st Floor, NW Elevated Office, E. Central Area, 2' Ht.	Non-Friable	3% Chrysotile Asbestos Detected
7462-03-31-13 26019013-013	18000 SF	1	Black Mastic/ H (Grocery), 1st Floor, Large North Room, Northwest Area, On Floor, 0' Ht.	Non-Friable	3% Chrysotile Asbestos Detected
7462-03-31-14 26019013-014	-	1	Black Mastic/ H (Grocery), 1st Floor, Large North Room, Northwest Area, On Floor, 0' Ht.	Non-Friable	3% Chrysotile Asbestos Detected

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Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-17-21 26015698-021	700 SF	1	Tan Mortar/ A (4614), 1st Floor, North Kitchen, Southeast Area, At Entrance, under 1' x 1' Ceramic Tile, 0' Ht.	Non-Friable	No Asbestos Detected
		2	Grey Grout/ A (4614), 1st Floor, N. Kitchen, SE Area, At Entrance, under Ceramic Tile, 0' Ht.	Non-Friable	No Asbestos Detected
		3	Black Mastic/ A (4614), 1st Floor, North Kitchen, Southeast Area, At Entrance, under Ceramic Tile, 0' Ht.	Non-Friable	3% Chrysotile Asbestos Detected
7462-03-17-22 26015698-022	-	1	Tan Mortar/ A (4614), 1st Floor, Northeast Annex, North Wall, At Bottom of Wall, 0' Ht.	Non-Friable	No Asbestos Detected
		2	Grey Grout/ A (4614), 1st Floor, NE Annex, N. Wall, At Bottom of Wall, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-18-02 26016018-002	1420 SF	1	Tan Carpet Mastic over Black Mastic/ D, 1st Floor, Southwest Area, On Floor, 0' Ht.	Non-Friable	3% Chrysotile Asbestos Detected
7462-03-18-03 26016018-003	-	1	Tan Carpet Mastic over Black Mastic/ D, 1st Floor, Northeast Central Area, On Floor, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-18-45 26016018-045	4000 SF	1	Tan Carpet Mastic over Black Mastic/ G (4638), 1st Floor, Main Room, Southwest Central Area, At Edge of Carpet, 0' Ht.	Non-Friable	2% Chrysotile Asbestos Detected
7462-03-18-46 26016018-046	-	1	Tan Carpet Mastic over Black Mastic/ G (4638), 1st Floor, Main Room, NE Area, Under Carpet, 0' Ht.	Non-Friable	No Asbestos Detected

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Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-17-38 26015698-038 26016458-001	12 SF	1	Window Glazing Compound/ B (4618), Southeast Bathroom, East Wall, Center, 9' Ht.	Non-Friable	<1% Chrysotile Asbestos Detected; <0.25% Chrysotile Asbestos by Point Count
7462-03-17-61 26015698-061 26016458-004	-	1	Window Glazing Compound/ C (4618), Northeast Bathroom, East Wall, Center, 8' Ht.	Non-Friable	2% Chrysotile Asbestos Detected; 0.75% Chrysotile Asbestos by Point Count
7462-03-31-23 26019013-023	1000 SF	1	Black Tar Roofing, Tar/ H (Grocery), East Addition, Southeast Roof, Above Compressors, 6' Ht.	Non-Friable	No Asbestos Detected
		2	Black Tar Roofing, Tar Paper/ H (Grocery), East Addition, Southeast Roof, Above Compressors, 6' Ht.	Non-Friable	No Asbestos Detected
7462-03-31-24 26019013-024	-	1	Black Tar Roofing, Tar/ H (Grocery), East Addition, Southeast Roof, Above Compressors, 6' Ht.	Non-Friable	No Asbestos Detected
		2	Black Tar Roofing, Tar Paper/ H (Grocery), East Addition, Southeast Roof, Above Compressors, 6' Ht.	Non-Friable	No Asbestos Detected
		3	Black Tar Roofing, Silver Coat/ H (Grocery), East Addition, Southeast Roof, Above Compressors, 6' Ht.	Friable	2% Chrysotile Asbestos Detected

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Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-04-30-05 26025788-005	30 SF	1	Black Bituminous Roof Patching Compound/ H (Grocery), Exterior, Roof, Northeast Area, On Exhaust Duct, 1' Ht.	Non-Friable	3% Chrysotile Asbestos Detected
7462-04-30-06 26025788-006	-	1	Black Bituminous Roof Patching Compound/ H (Grocery), Exterior, Roof, Southeast Area, On Exhaust Duct, 0.5' Ht.	Non-Friable	3% Chrysotile Asbestos Detected
7462-04-30-15 26025788-015	34 SF 160 LF	1	Grey Exterior Caulk/ D, Exterior, West Side, Store Front, North Edge of Window, 4' Ht.	Non-Friable	No Asbestos Detected
7462-04-30-16 26025788-016 26026172-001	-	1	Grey Exterior Caulk/ H (Grocery), Exterior, West Side, Northwest Entrance Area, Northwest Corner, 4' Ht.	Non-Friable	<1% Chrysotile Asbestos Detected; <0.25% Chrysotile Asbestos Detected by Point Count with Gravimetric Reduction
ASSUMED Not Sampled	0.5 SF	1	Explosion Proof Light Gasket/ A, East Walk-in Cooler, North Area, Southeast Area, Inside Sealed Light Fixture, 6' Ht.	Friable	Assumed to Contain Asbestos

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Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
ASSUMED Not Sampled	28 SF (1)	1	Fire Door Insulation/ A, West Addition, North Side, West Central Area, Emergency Exit Door	Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	28 SF (1)	1	Fire Door Insulation/ A, North Side, East Central Area, Emergency Exit Door	Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	28 SF (1)	1	Fire Door Insulation/ D, 1st Floor, Main Room, East Wall, Central Area, Emergency Exit Door	Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	28 SF (1)	1	Fire Door Insulation/ F, 1st Floor, Main Room, East Wall, Central Area, Emergency Exit Door	Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	28 SF (1)	1	Fire Door Insulation/ G (4638, Club), Southeast Central Utility Room, West Entrance, Central Area	Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	28 SF (1)	1	Fire Door Insulation/ G (4638, Club), Southeast Utility Room, West Entrance, Central Area	Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	28 SF (1)	1	Fire Door Insulation/ H (Grocery), 1st Floor, Large North Room, East Wall, North Central Area	Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	56 SF (2)	1	Fire Door Insulation/ H (Grocery), 1st Floor, Large South Room, East Wall, North Central Area	Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	56 SF (2)	1	Fire Door Insulation/ H (Grocery), 1st Floor, East Addition, North Room, East Wall, North Central Area	Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	28 SF (1)	1	Fire Door Insulation/ H (Grocery), 1st Floor, East Addition, North Room, South Wall, Central Area	Non-Friable	Assumed to Contain Asbestos

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Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
ASSUMED Not Sampled	0.5 SF (2)	1	Electrical Insulators in Electric Meters / A, Exterior, East Side, North Central Area, 5' Ht.	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	0.25 SF (1)		Electrical Insulators in Electric Meters / B, Exterior, East Side, Central Area, 5' Ht.	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	0.25 SF (1)		Electrical Insulators in Electric Meters / C, Exterior, East Side, Central Area, 5' Ht.	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	0.5 SF (2)	1	Electrical Insulators in Electric Meters / Exterior, South Side, West Central Area, 5' Ht.	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	3 SF (2)	1	Electrical Insulators in Circuit Breaker / 1st Floor, East Building, Southwest Mechanical Room, South Wall, East Central Area, 5' Ht.	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	3 SF (2)	1	Electrical Insulators in Circuit Breaker / 1st Floor, West Addition, Southeast Mechanical Room, South Wall, East Central Area, 5' Ht.	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	0.25 SF (1)	1	Electrical Insulators in Safety Switch / Exterior, East Building, Rooftop, Southwest Area, 1' Ht.	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	0.75 SF (3)	1	Electrical Insulators in Safety Switch / Exterior, West Addition, Rooftop, Southeast Area, On All Three HVAC Units, 1-3' Ht.	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	1 SF (1)	1	Electrical Insulators in Circuit Breaker / A (4614), West Addition, 1st Floor, Northwest Room, East Wall, South Area, 4' Ht.	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	2 SF (1)	1	Electrical Insulators in Circuit Breaker / A (4614), 1st Floor, Kitchen Annex, 4' Ht.	Non-Friable	Assumed to Contain Asbestos

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TABLE 1 (CONTINUED): CONFIRMED AND ASSUMED ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
ASSUMED Not Sampled	2 SF (1)	1	Electrical Insulators in Circuit Breaker/ B (4618), 1st Floor, Furnace Room, 4' Ht.	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	2 SF (1)	1	Electrical Insulators in Circuit Breaker/ C (4624), 1st Floor, East Furnace Room, 4' Ht.	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	1 SF (1)	1	Electrical Insulators in Circuit Breaker/ D, 1st Floor, Main Room, East Wall, South Area, 4' Ht.	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	2 SF (1)	1	Electrical Insulators in Circuit Breaker/ E (4630), 1st Floor, Northeast Hallway, South Wall, East Area, 4' Ht.	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	2 SF (1)	1	Electrical Insulators in Circuit Breaker/ F (4634), 1st Floor, Main Room, South Wall, East Area, On Outside of Bathroom Wall, 4' Ht.	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	2 SF (1)	1	Electrical Insulators in Circuit Breaker/ G (4638, Club), 1st Floor, Main Room, South Wall, West Area, 4' Ht.	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	1 SF (1)	1	Electrical Insulators in Circuit Breaker/ G (4638, Club), 1st Floor, Main Room, Southeast Bar, South Internal Partial Wall, East Area, 2' Ht.	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	2 SF (1)	1	Electrical Insulators in Circuit Breaker/ G (4638, Club), 1st Floor, Southeast Utility Room, East Wall, North Central Area, 4' Ht.	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	2 SF (1)	1	Electrical Insulators in Circuit Breaker/ H (Grocery), 1st Floor, North Hallway, North Wall, Central Area, 3' Ht.	Non-Friable	Assumed to Contain Asbestos

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TABLE 1 (CONTINUED): CONFIRMED AND ASSUMED ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
ASSUMED Not Sampled	1 SF (1)	1	Electrical Insulators in Circuit Breaker / H (Grocery), 1st Floor, Large South Room, East Wall, South Area, 8' Ht.	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	1 SF (1)	1	Electrical Insulators in Circuit Breaker / H (Grocery), Exterior, East Side, South Area, 4' Ht.	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	4 SF (1)	1	Electrical Insulators in Transformer / H (Grocery), Exterior, East Side, South Area, At SE Corner of Building, 0' Ht.	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	3 SF (2)	1	Electrical Insulators in Safety Switch / A (4614), Exterior, North Side, East Area, 5' Ht.	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	1 SF (4)	1	Electrical Insulators in Safety Switch / A (4614), Exterior, Rooftop, On All HVAC Units	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	0.5 SF (2)	1	Electrical Insulators in Safety Switch / B (4614), 1st Floor, East Utility Room, Throughout	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	0.25 SF (1)	1	Electrical Insulators in Safety Switch / B (4618), Exterior, Roof, Northwest Central Area, On HVAC Unit	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	0.5 SF (2)	1	Electrical Insulators in Safety Switch / C (4624), 1st Floor, Southeast Utility Room, Throughout	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	0.25 SF (1)	1	Electrical Insulators in Safety Switch / C (4624), Exterior, Roof, Southwest Central Area, On HVAC Unit	Non-Friable	Assumed to Contain Asbestos

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TABLE 1 (CONTINUED): CONFIRMED AND ASSUMED ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
ASSUMED Not Sampled	1.5 SF (6)	1	Electrical Insulators in Safety Switch/ D, 1st Floor, Main Room, Southeast Area, East and South Wall, Throughout	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	0.25 SF (1)	1	Electrical Insulators in Safety Switch/ E (4630), Exterior, Roof, North Central Area, On HVAC Unit	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	0.25 SF (1)	1	Electrical Insulators in Safety Switch/ F (4634), Exterior, Roof, Central Area, On HVAC Unit	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	0.25 SF (1)	1	Electrical Insulators in Safety Switch/ G (4638, Club), Exterior, Roof, East Central Area, On HVAC Unit	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	1 SF (1)	1	Electrical Insulators in Safety Switch/ H (Grocery), 1st Floor, North Hallway, North Wall, West Area, 5' Ht.	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	2 SF (2)	1	Electrical Insulators in Safety Switch/ H (Grocery), Exterior, East Side, South Area, 4' Ht.	Non-Friable	Assumed to Contain Asbestos
ASSUMED Not Sampled	3075 SF	1	Bituminous Roofing/ A Roof	Non-Friable	Category I Nonfriable Asbestos Material
ASSUMED Not Sampled	1600 SF	1	Bituminous Roofing/ C-D Roof	Non-Friable	Category I Nonfriable Asbestos Material

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TABLE 2: CONFIRMED NON ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-31-10 26019013-010	1080 SF	1	2' x 2' Ceiling Tile, Rough Directional Fissures, Reveal with Aluminized Backing/ H, 1st Floor, North Hallway, Northeast Central Area, 4.5' Ht.	Friable	No Asbestos Detected
7462-03-31-11 26019013-011	-	1	2' x 2' Ceiling Tile, Rough Directional Fissures, Reveal with Aluminized Backing/ H, 1st Floor, North Hallway, Northeast Area, 4' Ht.	Friable	No Asbestos Detected
7462-03-31-12 26019013-012	40 SF	1	2' x 2' Ceiling Tile, Rough, Reveal/ H, 1st Floor, North Hallway, Northeast Area, 4.5' Ht.	Friable	No Asbestos Detected
7462-03-17-25 26015698-025	-	1	2' x 2' Ceiling Tile, Rough, Reveal/ H, 1st Floor, North Hallway, Northeast Area, 4.5' Ht.	Friable	No Asbestos Detected
7462-03-17-07 26015698-007	400 SF	1	2' x 4' Ceiling Tile, Rough Vinyl Covered/ A, West Addition, 1st Floor, Women's Restroom, Southwest Area, On Ceiling, 8' Ht.	Friable	No Asbestos Detected
7462-03-17-08 26015698-008	-	1	2' x 4' Ceiling Tile, Rough Vinyl Covered/ A, West Addition, 1st Floor, Men's Restroom, Southwest Area, On Ceiling, 8' Ht.	Friable	No Asbestos Detected
7462-03-17-13 26015698-013	800 SF	1	2' x 4' Ceiling Tile, Rough Vinyl Covered/ A, 1st Floor, Kitchen, Northwest Area, On Ceiling, 8' Ht.	Friable	No Asbestos Detected
7462-03-17-14 26015698-014	-	1	2' x 4' Ceiling Tile, Rough Vinyl Covered/ A, 1st Floor, Kitchen Annex, On Ceiling, 8' Ht.	Friable	No Asbestos Detected

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TABLE 2 (CONTINUED): CONFIRMED NON ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-18-31 26016018-031	520 SF	1	2' x 4' Ceiling Tile, Plain Vinyl Covered/ G (Club), 1st Floor, Northwest Entryroom, South Central Area, On Ceiling, 10' Ht.	Friable	No Asbestos Detected
7462-03-18-32 26016018-032	-	1	2' x 4' Ceiling Tile, Plain Vinyl Covered/ G (Club), 1st Floor, Main Room, East Central Area, Above Bar, On Ceiling, 10' Ht.	Friable	No Asbestos Detected
7462-03-17-23 26015698-023	50 SF	1	2' x 4' Ceiling Tile, Wavy Horizontal Fissures/ B, 1st Floor, West Room, Southeast Area, East Corner, On Ceiling, 8' Ht.	Friable	No Asbestos Detected
7462-03-17-24 26015698-024	-	1	2' x 4' Ceiling Tile, Wavy Horizontal Fissures/ B, 1st Floor, West Room, , On Floor, 0' Ht.	Friable	No Asbestos Detected
7462-04-02-11 26019631-011	700 SF	1	2' x 4' Ceiling Tile, Random Holes and Fissures/ H, 1st Floor, Southeast Storage Room, Northeast Area, In Pile, 3' Ht.	Friable	No Asbestos Detected
7462-04-02-12 26019631-012	-	1	2' x 4' Ceiling Tile, Random Holes and Fissures/ H, 1st Floor, Southeast Storage Room, Northeast Area, In Pile, 2.5' Ht.	Friable	No Asbestos Detected
7462-03-18-16 26016018-016	1300 SF	1	2' x 4' Ceiling Tile, Random Holes and Short Fissures/ F (4634), 1st Floor, Main Room, Southwest Area, On Ceiling, 10' Ht.	Friable	No Asbestos Detected
7462-03-18-17 26016018-017	-	1	2' x 4' Ceiling Tile, Random Holes and Short Fissures/ F (4634), 1st Floor, Main Room, Northeast Central Area, On Ceiling, 10' Ht.	Friable	No Asbestos Detected

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TABLE 2 (CONTINUED): CONFIRMED NON ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-17-33 26015698-033	80 SF	1	2' x 4' Ceiling Tile, Horizontal Fissures and Holes / B, 1st Floor, Southeast Restroom, East Wall, Center, 4' Ht.	Friable	No Asbestos Detected
7462-03-17-34 26015698-034	-	1	2' x 4' Ceiling Tile, Horizontal Fissures and Holes / B, 1st Floor, Southeast Restroom, South Wall, Center, 5' Ht.	Friable	No Asbestos Detected
7462-03-17-47 26015698-047	800 SF	1	2' x 4' Ceiling Tile, Horizontal Fissures and Holes / C, 1st Floor, West Room Northeast Area, 10' Ht.	Friable	No Asbestos Detected
7462-03-17-48 26015698-048	-	1	2' x 4' Ceiling Tile, Horizontal Fissures and Holes / C, 1st Floor, Center Room, Northwest Area, On Floor, 0' Ht.	Friable	No Asbestos Detected
7462-03-18-04 26016018-004	1600 SF	1	2' x 4' Ceiling Tile, Horizontal Fissures and Holes / E (4630), 1st Floor, SE Central Area, 10' Ht.	Friable	No Asbestos Detected
7462-03-18-05 26016018-005	-	1	2' x 4' Ceiling Tile, Horizontal Fissures and Holes / E (4630), 1st Floor, SW Central Area, 10' Ht.	Friable	No Asbestos Detected
7462-03-18-18 26016018-018	160 SF	1	2' x 4' Ceiling Tile, Horizontal Fissures and Holes / F (4634), 1st Floor, Main Room, Northwest Central Area, On Ceiling, 10' Ht.	Friable	No Asbestos Detected
7462-03-18-19 26016018-019	-	1	2' x 4' Ceiling Tile, Horizontal Fissures and Holes / F (4634), 1st Floor, Southeast Restroom, Southwest Area, 8' Ht.	Friable	No Asbestos Detected
7462-03-17-35 26015698-035	12 SF	1	2' x 4' Ceiling Tile, Gouges and Holes, Rosette / B, 1st Floor, Southeast Restroom, East Wall, Center, 4' Ht.	Friable	No Asbestos Detected
7462-03-17-36 26015698-036	-	1	2' x 4' Ceiling Tile, Gouges and Holes, Rosette / B, 1st Floor, Southeast Restroom, East Wall, South Central Area, 8' Ht.	Friable	No Asbestos Detected

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TABLE 2 (CONTINUED): CONFIRMED NON ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-18-14 26016018-014	16 SF	1	2' x 4' Ceiling Tile, Gouges and Holes, Rosette/ F (4634), 1st Floor, Main Room, West Central Area, On Ceiling, 10' Ht.	Friable	No Asbestos Detected
7462-03-18-15 26016018-015	-	1	2' x 4' Ceiling Tile, Gouges and Holes, Rosette/ F (4634), 1st Floor, Main Room, West Central Area, On Floor (Fallen Ceiling Tile), 0' Ht.	Friable	No Asbestos Detected
7462-03-17-64 26015698-064	240 SF	1	2' x 4' Ceiling Tile, Random Gouges and Holes/ D, 1st Floor, Main Room, Southwest Area, On Ceiling, 10' Ht.	Friable	No Asbestos Detected
7462-03-17-65 26015698-065	-	1	2' x 4' Ceiling Tile, Random Gouges and Holes/ D, 1st Floor, Main Room, Northeast Area, On Ceiling, 10' Ht.	Friable	No Asbestos Detected
7462-03-18-29 26016018-029	3520 SF	1	2' x 4' Ceiling Tile, Random Gouges and Holes/ G (Club), 1st Floor, Northwest Entryroom, Center, On Ceiling, 10' Ht.	Friable	No Asbestos Detected
7462-03-18-30 26016018-030	-	1	2' x 4' Ceiling Tile, Random Gouges and Holes/ G (Club), 1st Floor, Main Room, East Central Area, Above Bar, On Ceiling, 10' Ht.	Friable	No Asbestos Detected
7462-03-31-06 26019013-006	840 SF	1	2' x 4' Ceiling Tile, Smooth with Pinholes/ H, 1st Floor, North Hallway, West Area, 10' Ht.	Friable	No Asbestos Detected
7462-03-31-07 26019013-007	-	1	2' x 4' Ceiling Tile, Smooth with Pinholes/ H, 1st Floor, North Hallway, East Area, 10' Ht.	Friable	No Asbestos Detected
7462-03-31-08 26019013-008	320 SF	1	2' x 4' Ceiling Tile, Rough with Pinholes/ H, 1st Floor, Large North Room, East Central Area, 10' Ht.	Friable	No Asbestos Detected

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TABLE 2 (CONTINUED): CONFIRMED NON ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-31-09 26019013-009	320 SF	1	2' x 4' Ceiling Tile, Rough with Pinholes/ H, 1st Floor, Large North Room, NE Central Area, 10' Ht.	Friable	No Asbestos Detected
7462-03-17-01 26015698-001	1700 SF	1	Drywall, Drywall/ A (4614), West Addition, 1st Floor, Coat Room, East Wall, At Doorway, 4' Ht.	Non-Friable	No Asbestos Detected
		2	Drywall, Joint Compound / A (4614), West Addition, 1st Floor, Coat Room, East Wall, At Doorway, 4' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-02 26015698-002	1700 SF	1	Drywall, Drywall/ A (4614), West Addition, 1st Floor, Main Dining Room, South Wall, West Area, Outside Corner of Men's Restroom, 3' Ht.	Non-Friable	No Asbestos Detected
		2	Drywall, Joint Compound / A (4614), West Addition, 1st Floor, Main Dining Room, South Wall, West Area, Outside Corner of Men's Restroom, 3' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-03 26015698-003	3000 SF	1	Drywall, Drywall/ A (4614), 1st Floor, West Dining Area, North Wall, Northeast Doorway Wall, 5' Ht.	Non-Friable	No Asbestos Detected
		2	Drywall, Joint Compound / A (4614), 1st Floor, W. Dining Area, N. Wall, NE Doorway Wall, 5' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-04 26015698-004	-	1	Drywall, Drywall/ A (4614), 1st Floor, West Dining Area, East Wall, Southeast Doorway, 7' Ht.	Non-Friable	No Asbestos Detected
		2	Drywall, Joint Compound / A (4614), 1st Floor, W. Dining Area, E. Wall, SE Doorway, 7' Ht.	Non-Friable	No Asbestos Detected

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TABLE 2 (CONTINUED): CONFIRMED NON ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-17-32 26015698-032	2,500 SF	1	Drywall, Drywall/ B (4618), 1st Floor, East Utility Room, West Wall, South Central Area, At Doorway, 4.5' Ht.	Non-Friable	No Asbestos Detected
		2	Drywall, Joint Compound / B (4618), 1st Floor, East Utility Room, West Wall, South Central Area, At Doorway, 4.5' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-37 26015698-037	2,500 SF	1	Drywall, Drywall/ B (4618), 1st Floor, West Room, East Wall, South Central Area, At Corner, Under Panel, 3' Ht.	Non-Friable	No Asbestos Detected
		2	Drywall, Joint Compound / B (4618), 1st Floor, West Room, East Wall, South Central Area, At Corner, Under Panel, 3' Ht.	Non-Friable	No Asbestos Detected
7462-03-18-20 26016018-020	1700 SF	1	Drywall, Drywall/ E (4630), 1st Floor, Main Room, South Wall, West Central Area, Above Ceiling Tile, 10' Ht.	Non-Friable	No Asbestos Detected
		2	Drywall, Joint Compound / E (4630), 1st Floor, Main Room, S. Wall, W. Central Area, Above Ceiling Tile, 10' Ht.	Non-Friable	No Asbestos Detected
7462-03-18-21 26016018-021	-	1	Drywall, Drywall/ E (4630), 1st Floor, Southeast Bathroom, West Wall, North Area, Above Ceiling Tile, 8' Ht.	Non-Friable	No Asbestos Detected
		2	Drywall, Joint Compound / E (4630), 1st Floor, SE Bathroom, W. Wall, N. Area, Above Ceiling Tile, 8' Ht.	Non-Friable	No Asbestos Detected

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TABLE 2 (CONTINUED): CONFIRMED NON ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-18-33 26016018-033	4800 SF	1	Drywall, Drywall/ G (4638, Club), 1st Floor, Main Central Room, West Central Area, On Column, North Side, 4' Ht.	Non-Friable	No Asbestos Detected
		2	Drywall, Joint Compound / G (4638, Club), 1st Floor, Main Central Room, West Central Area, On Column, North Side, 4' Ht.	Non-Friable	No Asbestos Detected
7462-03-18-34 26016018-034	4800 SF	1	Drywall, Drywall/ G (4638, Club), 1st Floor, Main Central Room, West Central Area, On Column, North Side, 4' Ht.	Non-Friable	No Asbestos Detected
		2	Drywall, Joint Compound / G (4638, Club), 1st Floor, Main Central Room, West Central Area, On Column, North Side, 4' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-17 26015698-017	16000 SF	1	Hard Plaster, Plaster / A (4614), 1st Floor, Kitchen, South Wall, East Area, 9' Ht.	Non-Friable	No Asbestos Detected
		2	Hard Plaster, Skim Coat/ A (4614), 1st Floor, Kitchen, South Wall, East Area, 9' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-18 26015698-018	-	1	Hard Plaster, Plaster / A (4614), 1st Floor, Kitchen, North Wall, East Area, By Fryer, 9' Ht.	Non-Friable	No Asbestos Detected
		2	Hard Plaster, Skim Coat/ A (4614), 1st Floor, Kitchen, North Wall, East Area, By Fryer, 9' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-31 26015698-031	-	1	Hard Plaster, Plaster / B (4618), 1st Floor, West Room, South Wall, West Area, 6' Ht.	Non-Friable	No Asbestos Detected
		2	Hard Plaster, Skim Coat/ B (4618), 1st Floor, West Room, South Wall, West Area, 6' Ht.	Non-Friable	No Asbestos Detected

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TABLE 2 (CONTINUED): CONFIRMED NON ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-17-66 26015698-066	16000 SF	1	Hard Plaster, Plaster / D, 1st Floor, Main Room, South Wall, East Area, 3' Ht.	Non-Friable	No Asbestos Detected
		2	Hard Plaster, Skim Coat / D, 1st Floor, Main Room, South Wall, East Area, 3' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-67 26015698-067	-	1	Hard Plaster, Plaster / D, 1st Floor, Main Room, South Wall, West Area, 5' Ht.	Non-Friable	No Asbestos Detected
		2	Hard Plaster, Skim Coat / D, 1st Floor, Main Room, South Wall, West Area, 5' Ht.	Non-Friable	No Asbestos Detected
7462-03-18-13 26016018-013	-	1	Hard Plaster, Plaster / E (4630), 1st Floor, Main Room, North Wall, East Central Area, 4' Ht.	Non-Friable	No Asbestos Detected
		2	Hard Plaster, Skim Coat / E (4630), 1st Floor, Main Room, North Wall, East Central Area, 4' Ht.	Non-Friable	No Asbestos Detected
7462-03-18-28 26016018-028	-	1	Hard Plaster, Plaster / F (4634), 1st Floor, Main Room, West Wall, Center, On Soffit, 11' Ht.	Non-Friable	No Asbestos Detected
		2	Hard Plaster, Skim Coat / F (4634), 1st Floor, Main Room, West Wall, Center, On Soffit, 11' Ht.	Non-Friable	No Asbestos Detected
7462-03-18-35 26016018-035	-	1	Hard Plaster, Plaster / G (4638, Club), 1st Floor, Main Central Room, South Wall, West Area, 1' Ht.	Non-Friable	No Asbestos Detected
		2	Hard Plaster, Skim Coat / G (4638, Club), 1st Floor, Main Central Room, South Wall, West Area, 1' Ht.	Non-Friable	No Asbestos Detected

Ohio EPA REGULATED ASBESTOS-CONTAINING BUILDING MATERIAL
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TABLE 2 (CONTINUED): CONFIRMED NON ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-18-36 26016018-036	16000 SF	1	Hard Plaster, Plaster / G (4638, Club), 1st Floor, Main Central Room, North Wall, East Area, 11' Ht.	Non-Friable	No Asbestos Detected
		2	Hard Plaster, Skim Coat / G (4638, Club), 1st Floor, Main Central Room, North Wall, East Area, 11' Ht.	Non-Friable	No Asbestos Detected
7462-03-31-18 26019013-018	-	1	Hard Plaster, Plaster / H (Grocery), 1st Floor, Large North Room, South Dividing Wall, West End, 4' Ht.	Non-Friable	No Asbestos Detected
		2	Hard Plaster, Skim Coat / H (Grocery), 1st Floor, Large North Room, South Dividing Wall, West End, 4' Ht.	Non-Friable	No Asbestos Detected
7462-03-31-37 26019013-037	-	1	Hard Plaster, Plaster / H (Grocery), 1st Floor, Large South Room, West Wall, South Central Area, 0.5' Ht.	Non-Friable	No Asbestos Detected
		2	Hard Plaster, Skim Coat / H (Grocery), 1st Floor, Large South Room, West Wall, South Central Area, 0.5' Ht.	Non-Friable	No Asbestos Detected
7462-03-31-38 26019013-038	-	1	Hard Plaster, Plaster / H (Grocery), 1st Floor, Large South Room, South Wall, Central Area, 3.5' Ht.	Non-Friable	No Asbestos Detected
		2	Hard Plaster, Skim Coat / H (Grocery), 1st Floor, Large S. Room, S. Wall, Central Area, 3.5' Ht.	Non-Friable	No Asbestos Detected
7462-03-31-39 26019013-039	-	1	Hard Plaster, Plaster / H (Grocery), 1st Floor, Large North Room, South Dividing Wall, West Central Area, At Column, 5' Ht.	Non-Friable	No Asbestos Detected
		2	Hard Plaster, Skim Coat / H (Grocery), 1st Floor, Large North Room, South Dividing Wall, West Central Area, At Column, 5' Ht.	Non-Friable	No Asbestos Detected

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TABLE 2 (CONTINUED): CONFIRMED NON ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-17-19 26015698-019	2 SF	1	4" Black Cove Base, Cove Base/ A, 1st Floor, Cooler Vestibule, By East Door, 0' Ht.	Non-Friable	No Asbestos Detected
		2	4" Black Cove Base, Tan Mastic/ A, 1st Floor, Cooler Vestibule, By East Door, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-20 26015698-020	-	1	4" Black Cove Base, Cove Base/ A, 1st Floor, Cooler Vestibule, West Wall, By South Door, 0' Ht.	Non-Friable	No Asbestos Detected
		2	4" Black Cove Base, Tan Mastic/ A, 1st Floor, Cooler Vestibule, West Wall, By South Door, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-18-08 26016018-008	60 SF	1	4" Black Cove Base, Cove Base/ E (4630), 1st Floor, Main Room, South Wall, West Area, 0' Ht.	Non-Friable	No Asbestos Detected
		2	4" Black Cove Base, Tan Mastic/ E (4630), 1st Floor, Main Room, South Wall, West Area, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-18-09 26016018-009	-	1	4" Black Cove Base, Cove Base/ E (4630), 1st Floor, Main Room, East Wall, South Area, 0' Ht.	Non-Friable	No Asbestos Detected
		2	4" Black Cove Base, Tan Mastic/ E (4630), 1st Floor, Main Room, East Wall, South Area, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-18-22 26016018-022	66 SF	1	4" Black Cove Base, Cove Base/ F (4634), 1st Floor, Main Room, West Wall, North Central Area, 0' Ht.	Non-Friable	No Asbestos Detected
		2	4" Black Cove Base, Tan Mastic/ F (4634), 1st Floor, Main Room, West Wall, North Central Area, 0' Ht.	Non-Friable	No Asbestos Detected

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TABLE 2 (CONTINUED): CONFIRMED NON ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-18-23 26016018-023	66 SF	1	4" Black Cove Base, Cove Base/ F (4634), 1st Floor, Main Room, East Wall, South Area, At Entrance to Southeast Restroom, 0' Ht.	Non-Friable	No Asbestos Detected
		2	4" Black Cove Base, Tan Mastic/ F (4634), 1st Floor, Main Room, E. Wall, S. Area, At Entrance to SE Restroom, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-18-43 26016018-043	500 SF	1	4" Black Cove Base, Cove Base/ G (4638, Club), 1st Floor, Northwest Entry Room, West Wall, South Area, At Entrance, 0' Ht.	Non-Friable	No Asbestos Detected
		2	4" Black Cove Base, Tan Mastic/ 1st Floor, Northwest Entry Room, West Wall, South Area, At Entrance, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-18-44 26016018-044	-	1	4" Black Cove Base, Cove Base/ G (4638, Club), 1st Floor, Main Central Room, South Wall, West Central Area, 0' Ht.	Non-Friable	No Asbestos Detected
		2	4" Black Cove Base, Tan Mastic/ G (4638, Club), 1st Floor, Main Central Room, South Wall, West Central Area, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-29 26015698-029	50 SF	1	4" Black Cove Base, Cove Base/ B (4618), 1st Floor, West Room, South Wall, Southwest Corner, 0' Ht.	Non-Friable	No Asbestos Detected
		2	4" Black Cove Base, White Mastic/ B (4618), 1st Floor, West Room, South Wall, SW Corner, 0' Ht.	Non-Friable	No Asbestos Detected

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TABLE 2 (CONTINUED): CONFIRMED NON ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-17-30 26015698-030	50 SF	1	4" Black Cove Base, Cove Base/ B (4618), 1st Floor, South Hallway, North Wall, West Area, 0' Ht.	Non-Friable	No Asbestos Detected
		2	4" Black Cove Base, White Mastic/ B (4618), 1st Floor, South Hallway, North Wall, West Area, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-31-33 26019013-033	35 SF	1	4" Black Cove Base, Cove Base/ H (Grocery), 1st Floor, Large South Room, West Wall, SW Area, 0' Ht.	Non-Friable	No Asbestos Detected
		2	4" Black Cove Base, Brown Mastic/ H (Grocery), 1st Floor, Large South Room, West Wall, SW Area, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-31-34 26019013-034	-	1	4" Black Cove Base, Cove Base/ H (Grocery), 1st Floor, Large South Room, West Wall, Center, 0' Ht.	Non-Friable	No Asbestos Detected
		2	4" Black Cove Base, Brown Mastic/ H (Grocery), 1st Floor, Large South Room, West Wall, Center, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-59 26015698-059	50 SF	1	4" Grey Cove Base, Cove Base/ C (4624), 1st Floor, East Central Room, Northeast Corner, 0' Ht.	Non-Friable	No Asbestos Detected
		2	4" Grey Cove Base, Cream Mastic/ C (4624), 1st Floor, East Central Room, Northeast Corner, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-60 26015698-060	-	1	4" Grey Cove Base, Cove Base/ C (4624), 1st Floor, West Room, South Wall, Center, 0' Ht.	Non-Friable	No Asbestos Detected
		2	4" Grey Cove Base, Cream Mastic/ C (4624), 1st Floor, West Room, South Wall, Center, 0' Ht.	Non-Friable	No Asbestos Detected

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Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-31-31 26019013-031	60 SF	1	4" Brown Cove Base, Cove Base/ H (Grocery), 1st Floor, Large North Room, West Wall, North Area, Near Entrance, 0' Ht.	Non-Friable	No Asbestos Detected
		2	4" Brown Cove Base, Brown Mastic/ H (Grocery), 1st Floor, Large North Room, West Wall, North Area, Near Entrance, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-31-32 26019013-032	-	1	4" Brown Cove Base, Cove Base/ H (Grocery), 1st Floor, Northwest Central Office, East Wall, At Half-door to Entrance, 0' Ht.	Non-Friable	No Asbestos Detected
		2	4" Brown Cove Base, Brown Mastic/ H (Grocery), 1st Floor, Northwest Central Office, East Wall, At Half-door to Entrance, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-18-37 26016018-037	1300 SF	1	12" x 12" Dark Grey Mottled Floor Tile, Floor Tile/ G (4638, Club), 1st Floor, Main Central Room, Southeast Area, 0' Ht.	Non-Friable	No Asbestos Detected
		2	12" x 12" Dark Grey Mottled Floor Tile, Brown Mastic/ G (4638, Club), 1st Floor, Main Central Room, Southeast Area, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-18-38 26016018-038	-	1	12" x 12" Dark Grey Mottled Floor Tile, Floor Tile/ G (4638, Club), 1st Floor, Northwest Entry Room, Central Area, 0' Ht.	Non-Friable	No Asbestos Detected
		2	12" x 12" Dark Grey Mottled Floor Tile, Brown Mastic/ G (4638, Club), 1st Floor, Northwest Entry Room, Central Area, 0' Ht.	Non-Friable	No Asbestos Detected

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TABLE 2 (CONTINUED): CONFIRMED NON ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-17-25 26015698-025	300 SF	1	Grey Tile Sheet Flooring, Flooring / B (4618), 1st Floor, West Room, West Central Area, At Entrance, 0' Ht.	Non-Friable	No Asbestos Detected
		2	Grey Tile Sheet Flooring, Tan Mastic/ B (4618), 1st Floor, West Room, West Central Area, At Entrance, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-26 26015698-026	-	1	Grey Tile Sheet Flooring, Flooring / B (4618), 1st Floor, West Room, Southeast Area, 0' Ht.	Non-Friable	No Asbestos Detected
		2	Grey Tile Sheet Flooring, Tan Mastic/ B (4618), 1st Floor, West Room, Southeast Area, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-09 26015698-009	320 SF	1	Tan Ceramic Tile Adhesive/ A, West Addition, 1st Floor, Men's Restroom, West Wall, Center, 3.5' Ht.	Non-Friable	No Asbestos Detected
		2	Grey Grout/ A, West Addition, 1st Floor, Men's Restroom, West Wall, Center, 3.5' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-10 26015698-010	-	1	Tan Ceramic Tile Adhesive/ A, West Addition, 1st Floor, Women's Restroom, East Wall, Center, 5' Ht.	Non-Friable	No Asbestos Detected
		2	Grey Grout/ A, West Addition, 1st Floor, Women's Restroom, East Wall, Center, 5' Ht.	Non-Friable	No Asbestos Detected

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TABLE 2 (CONTINUED): CONFIRMED NON ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-04-02-01 26019631-001	240 SF	1	White Ceramic Tile/ H (Grocery), 1st Floor, Northwest Entrance Lobby, North Wall, Central Area, 2.5' Ht.	Non-Friable	No Asbestos Detected
		2	Grey Grout/ H (Grocery), 1st Floor, NW Entrance Lobby, N. Wall, Central Area, 2.5' Ht.	Non-Friable	No Asbestos Detected
		3	White Thinset Mortar/ H (Grocery), 1st Floor, NW Entrance Lobby, N. Wall, Central Area, 2.5' Ht.	Non-Friable	No Asbestos Detected
7462-04-02-02 26019631-002	-	1	White Ceramic Tile/ H (Grocery), 1st Floor, Northwest Entrance Lobby, North Wall, Central Area, 5' Ht.	Non-Friable	No Asbestos Detected
		2	Grey Grout/ H (Grocery), 1st Floor, NW Entrance Lobby, N. Wall, Central Area, 5' Ht.	Non-Friable	No Asbestos Detected
		3	White Thinset Mortar/ H (Grocery), 1st Floor, NW Entrance Lobby, N. Wall, Central Area, 5' Ht.	Non-Friable	No Asbestos Detected
7462-04-02-07 26019631-007	300 SF	1	Ceramic Tile Mortar, Tile/ H (Grocery), 1st Floor, Men's Restroom, West Wall, Center, 1.5' Ht.	Non-Friable	No Asbestos Detected
		2	Ceramic Tile, White Grout/ H (Grocery), 1st Floor, Men's Restroom, West Wall, Center, 1.5' Ht.	Non-Friable	No Asbestos Detected

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Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-04-02-08 26019631-008	-	1	Ceramic Tile Mortar, Tile/ H (Grocery), 1st Floor, Women’s Restroom, East Wall, South Central Area, 5’ Ht.	Non-Friable	No Asbestos Detected
		2	Ceramic Tile, White Grout/ H (Grocery), 1st Floor, Women’s Restroom, E. Wall, S. Central Area, 5’ Ht.	Non-Friable	No Asbestos Detected
7462-03-17-15 26015698-015	150 SF	1	Tan Construction Adhesive/ A (4614), 1st Floor, Kitchen, South Wall, West Area, 9’ Ht.	Non-Friable	No Asbestos Detected
7462-03-17-16 26015698-016	-	1	Tan Construction Adhesive/ A (4614), 1st Floor, Kitchen Annex, East Wall, Central Area, 9’ Ht.	Non-Friable	No Asbestos Detected
7462-03-17-43 26015698-043	150 SF	1	Tan Construction Adhesive/ B (4618), 1st Floor, West Room, South Wall, In Southwest Corner, Behind Wood Paneling, 6’ Ht.	Non-Friable	No Asbestos Detected
7462-03-17-44 26015698-044	-	1	Tan Construction Adhesive/ B (4618), 1st Floor, West Room, East Wall, Southeast Interior Corner, Behind Wood Paneling, 2’ Ht.	Non-Friable	No Asbestos Detected

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Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-18-47 26016018-047	50 SF	1	Tan Construction Adhesive/ G (4638, Club), 1st Floor, Southeast Utility Room, West Wall, South Area, Behind Milk Board, 4' Ht.	Non-Friable	No Asbestos Detected
7462-03-18-48 26016018-048	-	1	Tan Construction Adhesive/ G (4638, Club), 1st Floor, Southeast Utility Room, West Wall, South Area, Behind Milk Board, 6' Ht.	Non-Friable	No Asbestos Detected
7462-03-31-40 26019013-040	20 SF	1	Brown Construction Adhesive/ H (Grocery), 1st Floor, Northwest Offices, East Office, South Exterior Wall, West Area, Behind Wood Panling, 6' Ht.	Non-Friable	No Asbestos Detected
7462-03-31-41 26019013-041	-	1	Brown Construction Adhesive/ H (Grocery), 1st Floor, Northwest Offices, East Office, South Exterior Wall, West Area, Behind Wood Panling, 4' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-11 26015698-011	500 SF	1	Thinset Mortar / A, West Addition, 1st Floor, Southeast Lobby, North Central Area, Under Ceramic Tile, 0' Ht.	Non-Friable	No Asbestos Detected
		2	Brown Grout / A, West Addition, 1st Floor, Southeast Lobby, N. Central Area, Under Ceramic Tile, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-12 26015698-012	-	1	Thinset Mortar / A, West Addition, 1st Floor, Southeast Lobby, Northwest Central Area, Under Ceramic Tile, 0' Ht.	Non-Friable	No Asbestos Detected
		2	Brown Grout / A, West Addition, 1st Floor, SE Lobby, NW Central Area, Under Ceramic Tile, 0' Ht.	Non-Friable	No Asbestos Detected

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Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-17-68 26015698-068	36 SF	1	Grey Grout/ D, 1st Floor, West Central Entrance Area, Northeast Corner, Under Ceramic Tile, 0' Ht.	Non-Friable	No Asbestos Detected
		2	Grey Thinset Mortar/ D, 1st Floor, West Central Entrance Area, NE Corner, Under Ceramic Tile, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-69 26015698-069	-	1	Grey Grout/ D, 1st Floor, West Central Entrance Area, Southeast Corner, Under Ceramic Tile, 0' Ht.	Non-Friable	No Asbestos Detected
		2	Grey Thinset Mortar/ D, 1st Floor, West Central Entrance Area, SE Corner, Under Ceramic Tile, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-18-26 26016018-026	35 SF	1	Tan Ceramic Tile, Tile/ F (4634), 1st Floor, Southeast Restroom, West Central Area, At Entrance, 0' Ht.	Non-Friable	No Asbestos Detected
		2	Grey Grout/ F (4634), 1st Floor, SE Restroom, W. Central Area, At Entrance, 0' Ht.	Non-Friable	No Asbestos Detected
		3	Grey Thinset Mortar/ F (4634), 1st Floor, SE Restroom, W. Central Area, At Entrance, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-18-27 26016018-027	-	1	Tan Ceramic Tile, Tile/ F (4634), 1st Floor, Southeast Restroom, West Central Area, At Entrance, 0' Ht.	Non-Friable	No Asbestos Detected
		2	Grey Grout/ F (4634), 1st Floor, SE Restroom, W. Central Area, At Entrance, 0' Ht.	Non-Friable	No Asbestos Detected
		3	Grey Thinset Mortar/ F (4634), 1st Floor, SE Restroom, W. Central Area, At Entrance, 0' Ht.	Non-Friable	No Asbestos Detected

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Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-04-02-03 26019631-003	200 SF	1	Dark Brown Grout/ H (Grocery), 1st Floor, NW Entrance Lobby, South Central Area, Under Ceramic Tile, At Entrance, 0' Ht.	Non-Friable	No Asbestos Detected
7462-04-02-04 26019631-004	-	1	Dark Brown Grout/ H (Grocery), 1st Floor, NW Entrance Lobby, South Central Area, Under Ceramic Tile, At Entrance, 0' Ht.	Non-Friable	No Asbestos Detected
7462-04-02-05 26019631-005	100 SF	1	Blue Ceramic Floor Tile/ H (Grocery), 1st Floor, Men's Restroom, East Central Area, At East Wall, 0' Ht.	Non-Friable	No Asbestos Detected
		2	White Grout/ H (Grocery), 1st Floor, Men's Restroom, East Central Area, At East Wall, 0' Ht.	Non-Friable	No Asbestos Detected
		3	Grey Cement/ H (Grocery), 1st Floor, NW Entrance Lobby, N. Wall, Central Area, 2.5' Ht.	Non-Friable	No Asbestos Detected
7462-04-02-06 26019631-006	-	1	Grey Cement/ H (Grocery), 1st Floor, Women's Restroom, Northwest Area, At Entrance, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-39 26015698-039	2 SF	1	White Fibrous Furnace Gasket/ B (4618), 1st Floor, Furnace Room, Northeast Area, In Furnace, 4' Ht.	Friable	No Asbestos Detected
7462-03-17-40 26015698-040	-	1	White Fibrous Furnace Gasket/ B (4618), 1st Floor, Furnace Room, Northeast Area, In Furnace, 4' Ht.	Friable	No Asbestos Detected

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TABLE 2 (CONTINUED): CONFIRMED NON ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31, 2026 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-17-05 26015698-005	2 SF	1	Black Sweatwrap/ A (4614), 1st Floor, Walk-in Cooler, East Area, 5' Ht.	Friable	No Asbestos Detected
7462-03-17-06 26015698-006	-	1	Black Sweatwrap/ A (4614), 1st Floor, Walk-in Cooler, East Area, 5' Ht.	Friable	No Asbestos Detected
7462-03-18-41 26016018-041	6 SF	1	Black Vibration Isolator Cloth/ G (4638, Club), 1st Floor, Women's Restroom, Northwest Area, Above Ceiling Tile, On HVAC Unit, 9' Ht.	Friable	No Asbestos Detected
7462-03-18-42 26016018-042	-	1	Black Vibration Isolator Cloth/ G (4638, Club), 1st Floor, Women's Restroom, Northwest Area, Above Ceiling Tile, On HVAC Unit, 9' Ht.	Friable	No Asbestos Detected
7462-03-17-41 26015698-041	4 SF	1	Dark Grey Pipe Penetration Plaster/ B (4618), 1st Floor, Furnace Room, East Wall, North Central Area, 4.5' Ht.	Friable	No Asbestos Detected
7462-03-17-42 26015698-042	-	1	Dark Grey Pipe Penetration Plaster/ B (4618), 1st Floor, Furnace Room, East Wall, North Central Area, 3' Ht.	Friable	No Asbestos Detected
7462-03-17-45 26015698-045	200 SF	1	Tan Carpet Adhesive/ B (4618), 1st Floor, West Room, North Central Area, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-46 26015698-046	-	1	Tan Carpet Adhesive/ B (4618), 1st Floor, West Room, Northwest Area, 0' Ht.	Non-Friable	No Asbestos Detected

Ohio EPA REGULATED ASBESTOS-CONTAINING BUILDING MATERIAL
US EPA REGULATED ASBESTOS-CONTAINING BUILDING MATERIAL
OSHA REGULATED ASBESTOS-CONTAINING MATERIAL

>1% Asbestos
>1% Asbestos
>1% Asbestos

TABLE 2 (CONTINUED): CONFIRMED NON ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31, 2026 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-17-57 26015698-057	700 SF	1	Tan Carpet Adhesive / C (4624), 1st Floor, West Room, Southeast Area, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-58 26015698-058	-	1	Tan Carpet Adhesive / C (4624), 1st Floor, East Central Room, East Central Area, 0' Ht.	Non-Friable	No Asbestos Detected
7462-04-30-13 26025788-013	17 LF 2 SF	1	Grey Exterior Caulk / D, Exterior, East Side, Central Area, At Entrance, 4' Ht.	Non-Friable	No Asbestos Detected
7462-04-30-14 26025788-014	-	1	Grey Exterior Caulk / H (Grocery), Exterior, East Side, North Area, At Entrance, 4' Ht.	Non-Friable	No Asbestos Detected
7462-04-30-17 26025788-017	10 LF 3 SF	1	Brown Exterior Caulk / H (Grocery), Exterior, West Side, South Area, Covered Window, South Edge, 4' Ht.	Non-Friable	No Asbestos Detected
7462-04-30-18 26025788-018	-	1	Brown Exterior Caulk / H (Grocery), Exterior, West Side, South Area, Covered Window, South Edge, 4' Ht.	Non-Friable	No Asbestos Detected
7462-04-02-09 26019631-009	280 SF	1	Black Tarpaper / H (Grocery), 1st Floor, Men's Restroom, West Wall, South Central Area, Inside Wall, 1' Ht.	Non-Friable	No Asbestos Detected
7462-04-02-10 26019631-010	-	1	Black Tarpaper / H (Grocery), 1st Floor, Men's Restroom, West Wall, Central Area, Inside Wall, 1.5' Ht.	Non-Friable	No Asbestos Detected

Ohio EPA REGULATED ASBESTOS-CONTAINING BUILDING MATERIAL
 US EPA REGULATED ASBESTOS-CONTAINING BUILDING MATERIAL
 OSHA REGULATED ASBESTOS-CONTAINING MATERIAL

>1% Asbestos
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TABLE 2 (CONTINUED): CONFIRMED NON ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31, 2026 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-17-57 26015698-057	700 SF	1	Tan Carpet Adhesive / C (4624), 1st Floor, West Room, Southeast Area, 0' Ht.	Non-Friable	No Asbestos Detected
7462-03-17-58 26015698-058	-	1	Tan Carpet Adhesive / C (4624), 1st Floor, East Central Room, East Central Area, 0' Ht.	Non-Friable	No Asbestos Detected
7462-04-30-13 26025788-013	17 LF 2 SF	1	Grey Exterior Caulk / D, Exterior, East Side, Central Area, At Entrance, 4' Ht.	Non-Friable	No Asbestos Detected
7462-04-30-14 26025788-014	-	1	Grey Exterior Caulk / H (Grocery), Exterior, East Side, North Area, At Entrance, 4' Ht.	Non-Friable	No Asbestos Detected
7462-04-30-17 26025788-017	10 LF 3 SF	1	Brown Exterior Caulk / H (Grocery), Exterior, West Side, South Area, Covered Window, South Edge, 4' Ht.	Non-Friable	No Asbestos Detected
7462-04-30-18 26025788-018	-	1	Brown Exterior Caulk / H (Grocery), Exterior, West Side, South Area, Covered Window, South Edge, 4' Ht.	Non-Friable	No Asbestos Detected
7462-04-02-09 26019631-009	280 SF	1	Black Tarpaper / H (Grocery), 1st Floor, Men's Restroom, West Wall, South Central Area, Inside Wall, 1' Ht.	Non-Friable	No Asbestos Detected
7462-04-02-10 26019631-010	-	1	Black Tarpaper / H (Grocery), 1st Floor, Men's Restroom, West Wall, Central Area, Inside Wall, 1.5' Ht.	Non-Friable	No Asbestos Detected

Ohio EPA REGULATED ASBESTOS-CONTAINING BUILDING MATERIAL
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 OSHA REGULATED ASBESTOS-CONTAINING MATERIAL

>1% Asbestos
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TABLE 2 (CONTINUED): CONFIRMED NON ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31, 2026 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-03-18-12 26016018-012	32,000 SF	1	Concrete Roofing/ E (4630), 1st Floor, Main Room, Southeast Area, Above Ceiling Tile, At Roof Penetration, 12' Ht.	Non-Friable	No Asbestos Detected
7462-03-31-26 26019013-026	-	1	Concrete Roofing/ H (Grocery), 1st Floor, Large North Room, Southwest Area, Above Ceiling Tile, At Roof Penetration, 12' Ht.	Non-Friable	No Asbestos Detected
7462-04-30-01 26025788-001	360 SF	1	Silverized Bituminous Roofing, Roofing/ H (Grocery), Exterior, Rooftop, Parapet Wall, North Side, West Area, 1.5' Ht.	Non-Friable	No Asbestos Detected
		2	Silverized Bituminous Roofing, Felt/ H (Grocery), Exterior, Rooftop, Parapet Wall, North Side, West Area, 1.5' Ht.	Non-Friable	No Asbestos Detected
7462-04-30-02 26025788-002	-	1	Silverized Bituminous Roofing, Roofing/ H (Grocery), Exterior, Rooftop, Parapet Wall, South Side, West Area, 1.5' Ht.	Non-Friable	No Asbestos Detected
		2	Silverized Bituminous Roofing, Felt/ H (Grocery), Exterior, Rooftop, Parapet Wall, South Side, West Area, 1.5' Ht.	Non-Friable	No Asbestos Detected
7462-04-30-07 26025788-007	220 SF	1	Black Bituminous Roofing, Roofing/ B (4618), Exterior, Rooftop, Northwest Area, Parapet Wall, West Side, North Area, 2.5' Ht.	Non-Friable	No Asbestos Detected
		2	Black Bituminous Roofing, Black Seam Sealant/ B (4618), Exterior, Rooftop, Northwest Area, Parapet Wall, West Side, North Area, 2.5' Ht.	Non-Friable	No Asbestos Detected

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US EPA REGULATED ASBESTOS-CONTAINING BUILDING MATERIAL
OSHA REGULATED ASBESTOS-CONTAINING MATERIAL

>1% Asbestos
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TABLE 2 (CONTINUED): CONFIRMED NON ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31, 2026 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-04-30-08 26025788-008	220 SF	1	Black Bituminous Roofing, Roofing/ H (Grocery), Exterior, Rooftop, Southwest Area, Parapet Wall, South Side, 2.5' Ht.	Non-Friable	No Asbestos Detected
		2	Black Bituminous Roofing, Black Seam Sealant/ H (Grocery), Exterior, Rooftop, SW Area, Parapet Wall, S. Side, 2.5' Ht.	Non-Friable	No Asbestos Detected
7462-04-30-03 26025788-003	12,000 SF	1	Brown Fibrous Roof Pad / H (Grocery), Exterior, Rooftop, Southeast Central Area, 0' Ht.	Non-Friable	No Asbestos Detected
		2	Bituminous Built-up Roofing, Roofing/ H (Grocery), Exterior, Rooftop, Southeast Central Area, 0' Ht.	Non-Friable	No Asbestos Detected
7462-04-30-04 26025788-004	-	1	Brown Fibrous Roof Pad / H (Grocery), Exterior, Rooftop, Northwest Central Area, 0' Ht.	Non-Friable	No Asbestos Detected
		2	Bituminous Built-up Roofing, Roofing/ H (Grocery), Exterior, Rooftop, Northwest Central Area, 0' Ht.	Non-Friable	No Asbestos Detected
7462-04-30-09 26025788-009	20,000 SF	1	Black Bituminous Roofing, Roofing/ H (Grocery), Exterior, Rooftop, North Section, Southeast Area, 0' Ht.	Non-Friable	No Asbestos Detected

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 OSHA REGULATED ASBESTOS-CONTAINING MATERIAL

>1% Asbestos
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TABLE 2 (CONTINUED): CONFIRMED NON ASBESTOS-CONTAINING MATERIALS AT WILMINGTON HEIGHTS PLAZA, 4614 - 4650 WILMINGTON PIKE, DAYTON, OHIO, COLLECTED MARCH 17, 18, AND 31, 2026 AND APRIL 2 AND 30, 2026. HELIX PROJECT NO. 7462.

Helix Sample No. Lab Sample No.	Amount	Layer	Description/Sample Location	Friable or Non-Friable	PLM Result (% Asbestos)
7462-04-30-10 26025788-010	20,000 SF	1	Black Bituminous Roofing, Roofing Tar / B (4618), Exterior, Rooftop, Southwest Area, 0' Ht.	Non-Friable	No Asbestos Detected
		2	Black Bituminous Roofing, Grey Roofing Cement/ B (4618), Exterior, Rooftop, Southwest Area, 0' Ht.	Non-Friable	No Asbestos Detected
7462-04-30-11 26025788-011	20 SF	1	Grey Sheet Metal Sealant/ B (4618), Northwest Area, North Parapet Wall, East Area, On Metal Cap, 3.5' Ht.	Non-Friable	No Asbestos Detected
7462-04-30-12 26025788-012	-	1	Grey Sheet Metal Sealant/ A (4614), South Central Area, South Parapet Wall, East Area, On Metal Cap, 4' Ht.	Non-Friable	No Asbestos Detected

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 US EPA REGULATED ASBESTOS-CONTAINING BUILDING MATERIAL
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DISCUSSION AND RECOMMENDATIONS

A total of (191) total bulk samples of suspect asbestos-containing materials, some containing multiple layers, were collected from the adjoining Retail Buildings located at Wilmington Heights Plaza, 4614 - 4650 Wilmington Pike demolition area. Samples were collected from all accessible suspect asbestos-containing building materials in the accessible renovation areas with the exception of roofing materials, fire doors, boilers and electrical insulation materials since the systems were assumed to be energized.

Analytical results confirmed that the following suspect asbestos-containing building materials at Wilmington Heights Plaza, 4614 - 4650 Wilmington Pike in Dayton, Ohio contain or were assumed to contain more than 1% asbestos:

- 1/8" Thick Grey Cementitious Peg Board, H Grocery North Hallway (24 SF)
- 1/8" Thick Grey Cementitious Panel, Rough, H Grocery North Hallway (300 SF)
- Drywall Joint Compound, E Storefront (2100 SF)
- Drywall Joint Compound, H Grocery (9200 SF)
- Texturized Drywall Joint Compound, D Storefront (120 SF)
- Texturized Layer on Drywall, D Storefront (120 SF)
- 9" x 9" Tan Streaked Floor Tile and Black Mastic, C Storefront (800 SF)
- 9" x 9" Beige Mottled Floor Tile and Black Mastic, H Grocery (6 SF)
- Black Mastic under 12" x 12" Tan Streaked Floor Tile, C Storefront (20 SF)
- Tan and Black Mastic under 12" x 12" Light and Dark Grey Mottled Floor Tile, E Storefront (1450 SF)
- Tan and Black Mastic under 12" x 12" Light Grey Plain Floor Tile, F Storefront (1400 SF)
- Black Mastic under 12" x 12" Aqua Mottled Floor Tile, G Club Restrooms (420 SF)
- 9" x 9" Beige Floor Tile and Black Mastic, H Grocery Elevated Office (90 SF)
- Black Mastic, H Grocery (18000 SF)
- Black Mastic under Tan Ceramic Tile, A Kitchen (700 SF)
- Tan Carpet Mastic over Black Mastic, D Storefront (1420 SF)
- Tan Carpet Mastic over Black Mastic, G Club (4000 SF)
- Black Tar Roofing, Silver Coat in Poor Condition, H Grocery Rear (1000 SF)
- Black Bituminous Roof Patching, H Grocery Roof (30 SF)
- Explosion-proof Light Gasket, A Cooler, 0.5 SF Not Sampled, ASSUMED to Contain Asbestos)
- Fire Doors, Exterior (340 SF, 12 Doors, Not Sampled, ASSUMED to Contain Asbestos)

- Electrical Insulators, Throughout, in Electric Meters (2.25 SF, Not Sampled, ASSUMED To Contain Asbestos)
- Electrical Insulators, Throughout, in Circuit Breakers (21 SF, Not Sampled, ASSUMED To Contain Asbestos)
- Electrical Insulators, in Electric Transformer (4SF, Not Sampled, ASSUMED To Contain Asbestos)
- Electrical Insulators, Throughout, in Electric Safety Switches (10.75 SF, Not Sampled, ASSUMED To Contain Asbestos)
- Bituminous Roofing, on A Restaurant (3075 SF Total, Not Sampled, Assumed to Contain Asbestos)
- Bituminous Roofing, on C-D Storefronts (1600 SF Total, Not Sampled, Assumed to Contain Asbestos)

Several materials were reported to contain more than 1% asbestos by PLM visual area estimation, but were reported to contain less than 1% by PLM 400 Point Count analytical methods:

- 2' x 4' Ceiling Tile with Random Holes and Gouges, H Grocery (4800 SF)
- 2' x 4' Ceiling Tile with Longways Fissures and Holes, H Grocery (180 SF)
- Drywall and Joint Compound COMPOSITE, C Storefront (300 SF)
- Drywall and Joint Compound COMPOSITE, E Storefront (2100 SF)
- Drywall and Joint Compound COMPOSITE, H Grocery (9200 SF)
- Texturized Drywall and Joint Compound COMPOSITE, D Storefront (120 SF)
- Texturized Layer on Hard Plaster, C Storefront (1200 SF)
- Window Glazing Compound, East Windows (12 SF)
- Grey Exterior Caulk, H Grocery Entrance (34 SF)

OSHA has interpreted its regulations to require wet methods for the removal of materials containing less than 1% asbestos, with prompt cleanup of debris in leak tight containers. Helix Environmental, Inc. recommends the use of a licensed asbestos abatement company to perform this work since they have the equipment, experience, and knowledge to safely remove materials containing trace amounts of asbestos without creating a potential hazard.

No special asbestos requirements are necessary for the removal and disposal of other sampled suspect materials listed in Table 2 which were found to contain no detectable asbestos.

Current Federal and State regulations require special asbestos abatement procedures prior to building demolition that will disturb confirmed or assumed friable or potentially-friable asbestos-containing materials. Helix Environmental, Inc. recommends that the identified asbestos-containing materials be removed using a licensed asbestos abatement contractor. Helix Environmental, Inc. also strongly recommends that the abatement work be competitively bid using specifications developed by a licensed Asbestos Project Designer to ensure that the regulatory requirements are met by the contractor and that the work is properly documented in the event of future legal action.

Trained workers and supervisors certified by OEPA must be used to remove the identified asbestos-containing building materials using special procedures and protective equipment to ensure that the workers are not overexposed to airborne asbestos. Advance notification may need to be provided to both the Regional Air Pollution Control Agency (RAPCA) and OEPA at least ten working days in advance of the start of abatement on site, depending on the quantity of materials removed. The fact that asbestos-containing materials were observed in or on the building should be noted on the demolition notification form along with the name and certification number of the inspectors (Mr. Benjamin Froehlich, Ohio Certification Cert. No. ES34739). In addition, bituminous roofing materials on the Main Building and 800 SF of bituminous roofing materials on the East Addition were also observed by the inspectors, and were Category I Non-Friable materials. Under current EPA regulations, Category I Non-Friable materials, including bituminous roofing materials, resilient flooring material, and non-friable gaskets, do not need to be removed from buildings prior to their demolition. The quantities of these Category I Non-Friable materials must be noted on the demolition/renovation notification form which must be sent to the Ohio EPA at least 10-working days prior to the start of demolition or asbestos abatement.

Additional suspect asbestos-containing materials may be hidden in uninspected or inaccessible locations, such as pipe chases, duct chases or wall cavities. If any additional suspect materials are encountered in these locations, they should be kept intact and undisturbed until they can be inspected and sampled by a licensed Asbestos Hazard Evaluation Specialist. Helix Environmental, Inc. will also be happy to return to the site if additional suspect materials are encountered during the renovation.

Since the buildings were built prior to 1978 when lead was banned for interior coatings, it was assumed that all paint present in the demolition area contains detectable levels of lead. Demolition contractors which will disturb assumed lead-containing painted

surfaces must comply with the requirements of the OSHA Construction Industry Lead regulations prior to and during any work which may disturb lead-containing coatings. A separate report was submitted to document the results of a Preliminary Lead-Containing Paint inspection in the buildings.

Other potential environmental issues may also be present in the renovation area, including mercury-containing materials, suspect PCB-containing fluorescent light ballasts, and Freon®-containing refrigerants.

Mercury-containing fluorescent light bulbs in the building have sufficient concentrations of mercury to be considered universal hazardous waste. In addition, thermostats in the buildings may contain small amounts of mercury, and one mercury-containing thermostat was observed during inspection. Batteries associated with emergency lighting may also contain mercury, and are considered to be universal hazardous waste. These universal waste materials should be carefully removed from the building and recycled in accordance with current regulations.

Fluorescent light ballasts were made with PCBs until 1979. Ballasts made after that date are required to be marked with the legend "No PCBs". Given the age of the building, PCB-containing fluorescent light ballasts and other PCB-containing electrical capacitors and transformers may be present in the building, and each ballast, capacitor or transformer should be examined to determine if it is labeled "No PCBs". If necessary, ballasts, capacitors and transformers that are not so labeled should be carefully removed from the building and packaged and labeled for recycling or incineration in accordance with current regulations.

Refrigerated cooling systems in the buildings, including water coolers, window air-conditioners, and refrigerators, typically contain Freon® refrigerants that must be recovered by licensed refrigerant recycler if removed, in accordance with current regulations. No unauthorized venting of Freon® refrigerants to the atmosphere is permitted under current regulations, since these materials deplete the stratospheric ozone layer (Ozone Depleting Substances).

Finally, no significant accumulations of hazardous waste were observed during the building inspection that could require special remediation, although small amounts of maintenance and custodial chemicals including interior paint were observed in or near the renovation area. It was assumed that the remaining maintenance and custodial chemicals present in the renovation area will be relocated for use during normal

Mr. Doug Williams, AIA, NCARB, LEED, AP
May 28, 2026
Page 53

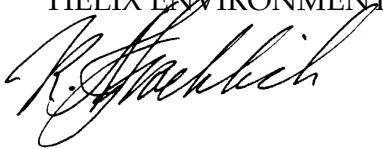
custodial and maintenance operations. If not, then these materials may need to be labeled, packaged and transported to a licensed hazardous waste Treatment, Storage and Disposal site in compliance with federal and state hazardous waste regulations.

The results of this inspection can only reflect the condition of the property at the date and time of the site visit within the limits of the proposed work. There are limitations to inspections without dismantling or destroying the building or its systems. No inspection was performed in inaccessible locations. Recommendations are based on the professional judgment of the inspectors, and the results of the samples collected and analyzed. Helix Environmental, Inc. and its agents are neither responsible nor liable for the non-discovery of any defects in materials, craftsmanship, or other conditions, or any problems that may be discovered or manifest after the site visit date and time. Helix Environmental, Inc. and its agents make no warranty, expressed or implied, and accept no liability for the presence absence of asbestos or other hazardous materials in or on building products, materials, or areas. Helix Environmental, Inc. and its agents assume no responsibility for the cost of repairing, replacing, or removing any undiscovered or unreported condition or defect, or any future condition or defect.

If you have any questions or comments concerning the inspection or analytical results, please call me at (937) 226-0650.

Sincerely,

HELIX ENVIRONMENTAL, INC.

A handwritten signature in black ink, appearing to read 'R. Froehlich', is written over the company name.

Ralph A. Froehlich, CIH, CSP, QEP
President
Attach.

Mr. Doug Williams, AIA, NCARB, LEED, AP
May 28, 2026
Page 54

ATTACHMENTS

- **ANALYTICAL RESULTS AND SAMPLE DATA SHEETS**
- **SAMPLE LOCATIONS**
- **PHOTOGRAPHS**



The Identification Specialists

Analysis Report
prepared for
Helix Environmental Inc

Report Date: 3/19/2026

Project Name: App Architecture

Project #: 7462

SanAir ID#: 26015698



NVLAP LAB CODE 200870-0

10501 Trade Court, North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | LabReports@SanAir.com | SanAir.com



SanAir ID Number

26015698

FINAL REPORT

3/19/2026 2:33:08 PM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number: 4620 Wilmington Pike
Project Name: App Architecture
Collected Date: 3/17/2026
Received Date: 3/18/2026 10:25:00 AM

Dear Benjamin Froehlich,

We at SanAir would like to thank you for the work you recently submitted. The 72 sample(s) were received on Wednesday, March 18, 2026 via FedEx. The final report(s) is enclosed for the following sample(s): 7462-03-17-01, 7462-03-17-02, 7462-03-17-03, 7462-03-17-04, 7462-03-17-05, 7462-03-17-06, 7462-03-17-07, 7462-03-17-08, 7462-03-17-09, 7462-03-17-10, 7462-03-17-11, 7462-03-17-12, 7462-03-17-13, 7462-03-17-14, 7462-03-17-15, 7462-03-17-16, 7462-03-17-17, 7462-03-17-18, 7462-03-17-19, 7462-03-17-20, 7462-03-17-21, 7462-03-17-22, 7462-03-17-23, 7462-03-17-24, 7462-03-17-25, 7462-03-17-26, 7462-03-17-27, 7462-03-17-28, 7462-03-17-29, 7462-03-17-30, 7462-03-17-31, 7462-03-17-32, 7462-03-17-33, 7462-03-17-34, 7462-03-17-35, 7462-03-17-36, 7462-03-17-37, 7462-03-17-38, 7462-03-17-39, 7462-03-17-40, 7462-03-17-41, 7462-03-17-42, 7462-03-17-43, 7462-03-17-44, 7462-03-17-45, 7462-03-17-46, 7462-03-17-47, 7462-03-17-48, 7462-03-17-49, 7462-03-17-50, 7462-03-17-51, 7462-03-17-52, 7462-03-17-53, 7462-03-17-54, 7462-03-17-55, 7462-03-17-56, 7462-03-17-57, 7462-03-17-58, 7462-03-17-59, 7462-03-17-60, 7462-03-17-61, 7462-03-17-62, 7462-03-17-63, 7462-03-17-64, 7462-03-17-65, 7462-03-17-66, 7462-03-17-67, 7462-03-17-68, 7462-03-17-69, 7462-03-17-70, 7462-03-17-71, 7462-03-17-72.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino".

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 72 samples in Good condition.



SanAir ID Number
26015698
FINAL REPORT
3/19/2026 2:33:08 PM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number: 4620 Wilmington Pike
Project Name: App Architecture
Collected Date: 3/17/2026
Received Date: 3/18/2026 10:25:00 AM

Analyst: Pisula, Nicholas

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-17-01 / 26015698-001 West Additon A Coat Room E Wall At Doorway, Drywall	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
7462-03-17-01 / 26015698-001 West Additon A Coat Room E Wall At Doorway, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-02 / 26015698-002 West Additon A Outside Corner Of MRR, Drywall	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
7462-03-17-02 / 26015698-002 West Additon A Outside Corner Of MRR, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-03 / 26015698-003 Restaurant A Dining Area NE Doorway Wall, Drywall	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
7462-03-17-03 / 26015698-003 Restaurant A Dining Area NE Doorway Wall, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-04 / 26015698-004 Restaurant A Dining Area SE Door To Kitchen, Drywall	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
7462-03-17-04 / 26015698-004 Restaurant A Dining Area SE Door To Kitchen, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-05 / 26015698-005 Restuarant Kitchen Chiller Room	Black Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-06 / 26015698-006 Restuarant Kitchen Chiller Room	Black Non-Fibrous Homogeneous		100% Other	None Detected

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Project Number: 7462
P.O. Number: 4620 Wilmington Pike
Project Name: App Architecture
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Analyst: Pisula, Nicholas

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-17-07 / 26015698-007 West Addition A Womens Restroom SW Area On Ceiling	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
7462-03-17-08 / 26015698-008 West Addition A Mens Restroom SW Area At Entrance	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
7462-03-17-09 / 26015698-009 West Addition A Mens Restroom West Wall Corner, Adhesive	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-09 / 26015698-009 West Addition A Mens Restroom West Wall Corner, Grout	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-10 / 26015698-010 West Addition A Womens Restroom E. Wall Central Area, Adhesive	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-10 / 26015698-010 West Addition A Womens Restroom E. Wall Central Area, Grout	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-11 / 26015698-011 West Addition A SE Lobby N Central Area, Mortar	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-11 / 26015698-011 West Addition A SE Lobby N Central Area, Grout	Brown Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-12 / 26015698-012 West Addition A SE Lobby NW Central Area, Mortar	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-12 / 26015698-012 West Addition A SE Lobby NW Central Area, Grout	Brown Non-Fibrous Homogeneous		100% Other	None Detected

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	Appearance	% Fibrous	% Non-fibrous	
7462-03-17-13 / 26015698-013 4614 Resturant Kitchen NW Ceiling	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
7462-03-17-14 / 26015698-014 A Restaurant Kitchen Annex	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
7462-03-17-15 / 26015698-015 A Restaurant Kitchen S. Wall In SW Area	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-16 / 26015698-016 A Restaurant Kitchen Annex	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-17 / 26015698-017 A Restaurant Kitchen Above Entrance To Annex, Plaster	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-17 / 26015698-017 A Restaurant Kitchen Above Entrance To Annex, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-18 / 26015698-018 A Restaurant Kitchen NE Cornter N Wall By Fryer, Plaster	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-18 / 26015698-018 A Restaurant Kitchen NE Cornter N Wall By Fryer, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-19 / 26015698-019 A Cooler Vestible By E Door, Cove Base	Black Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-19 / 26015698-019 A Cooler Vestible By E Door, Adhesive	Tan Non-Fibrous Homogeneous		100% Other	None Detected

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SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-17-20 / 26015698-020 A Cooler Vestibule Bottom Of Doorway To Kitchen, Cove Base	Black Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-20 / 26015698-020 A Cooler Vestibule Bottom Of Doorway To Kitchen, Adhesive	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-21 / 26015698-021 A Restaurant SE Doorway To Kitchen, Mortar	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-21 / 26015698-021 A Restaurant SE Doorway To Kitchen, Grout	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-21 / 26015698-021 A Restaurant SE Doorway To Kitchen, Mastic	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile
7462-03-17-22 / 26015698-022 A Restaurant NE Outside Door Annex Bottom Of Wall, Mortar	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-22 / 26015698-022 A Restaurant NE Outside Door Annex Bottom Of Wall, Grout	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-23 / 26015698-023 B E Corner	White Fibrous Homogeneous	60% Cellulose 30% Min. Wool	10% Other	None Detected
7462-03-17-24 / 26015698-024 B E Ceiling On Floor	White Fibrous Homogeneous	60% Cellulose 30% Min. Wool	10% Other	None Detected
7462-03-17-25 / 26015698-025 B Entrance Floor, Sheet Flooring	Grey Non-Fibrous Homogeneous	20% Cellulose	80% Other	None Detected

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	Appearance	% Fibrous	% Non-fibrous	
7462-03-17-25 / 26015698-025 B Entrance Floor, Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-26 / 26015698-026 BW Room SE Corner Floor, Sheet Flooring	Grey Non-Fibrous Homogeneous	20% Cellulose	80% Other	None Detected
7462-03-17-26 / 26015698-026 BW Room SE Corner Floor, Mastic	Various Non-Fibrous Heterogeneous		100% Other	None Detected
7462-03-17-27 / 26015698-027 BW Room NW Corner Floor, Floor Tile	Grey Non-Fibrous Homogeneous		96% Other	4% Chrysotile
7462-03-17-27 / 26015698-027 BW Room NW Corner Floor, Mastic	Black Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-28 / 26015698-028 BW Room SW Corner Floor, Floor Tile	Grey Non-Fibrous Homogeneous		96% Other	4% Chrysotile
7462-03-17-28 / 26015698-028 BW Room SW Corner Floor, Mastic	Black Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-29 / 26015698-029 BW Room SW Corner Bottom Of S Wall, Cove Base	Black Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-29 / 26015698-029 BW Room SW Corner Bottom Of S Wall, Adhesive	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-30 / 26015698-030 BW Room Hall Corner Bottom Of N Wall, Cove Base	Black Non-Fibrous Homogeneous		100% Other	None Detected

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	Appearance	% Fibrous	% Non-fibrous	
7462-03-17-30 / 26015698-030 BW Room Hall Corner Bottom Of N Wall, Adhesive	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-31 / 26015698-031 B West Room S Wall West Area, Plaster	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-31 / 26015698-031 B West Room S Wall West Area, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-32 / 26015698-032 B East Utility Room West Wall S Central Area At Doorway, Drywall	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
7462-03-17-32 / 26015698-032 B East Utility Room West Wall S Central Area At Doorway, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-33 / 26015698-033 B SE Restroom East Wall Center	White Fibrous Homogeneous	60% Cellulose 30% Min. Wool	10% Other	None Detected
7462-03-17-34 / 26015698-034 B SE Restroom S. Wall Center	White Fibrous Homogeneous	60% Cellulose 30% Min. Wool	10% Other	None Detected
7462-03-17-35 / 26015698-035 B SE Restroom E. Wall Center	White Fibrous Homogeneous	60% Cellulose 30% Min. Wool	10% Other	None Detected
7462-03-17-36 / 26015698-036 B SE Restroom E. Wall S. Central Area	White Fibrous Homogeneous	60% Cellulose 30% Min. Wool	10% Other	None Detected
7462-03-17-37 / 26015698-037 4618 B Barbershop West Room/ Hall Corner Beyond Panel, Drywall	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected

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Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-17-37 / 26015698-037 4618 B Barbershop West Room/ Hall Corner Beyond Panel, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-38 / 26015698-038 B 1st Fl Se Bathroom E Wall Center	Grey Non-Fibrous Homogeneous		100% Other	< 1% Chrysotile
7462-03-17-39 / 26015698-039 B Furnace Room Inside Furnace	White Fibrous Homogeneous	95% Glass	5% Other	None Detected
7462-03-17-40 / 26015698-040 B Furnace Room Inside Furnace	White Fibrous Homogeneous	95% Glass	5% Other	None Detected
7462-03-17-41 / 26015698-041 B Furnace Rm E Wall N Central Area	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-42 / 26015698-042 B Furnace Rm E Wall N Central Area	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-43 / 26015698-043 B South Wall In SW Corner	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-44 / 26015698-044 B West Room/ Hall Corner Paneling	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-45 / 26015698-045 B West Room Center N Floor	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-46 / 26015698-046 B West Room NW Corner Floor	Tan Non-Fibrous Homogeneous		100% Other	None Detected

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Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-17-47 / 26015698-047 C West Room Hall Corner Ceiling NE	White Fibrous Homogeneous	60% Cellulose 30% Min. Wool	10% Other	None Detected
7462-03-17-48 / 26015698-048 C Center Room NW Area On Floor	White Fibrous Homogeneous	60% Cellulose 30% Min. Wool	10% Other	None Detected
7462-03-17-49 / 26015698-049 C West Room Hall Corner At Ceiling, Drywall	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
7462-03-17-49 / 26015698-049 C West Room Hall Corner At Ceiling, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-50 / 26015698-050 C NE Rm, S Wall West Central Area, Drywall	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
7462-03-17-50 / 26015698-050 C NE Rm, S Wall West Central Area, Joint Compound	Tan Non-Fibrous Homogeneous		96% Other	4% Chrysotile
7462-03-17-51 / 26015698-051 C East Central Rm E Wall N Area	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-52 / 26015698-052 C West Room N Wall Central Area	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-53 / 26015698-053 C West Rm N Wall, Plaster	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-53 / 26015698-053 C West Rm N Wall, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected

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SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-17-53 / 26015698-053 C West Rm N Wall, Texture	White Non-Fibrous Homogeneous		100% Other	< 1% Chrysotile
7462-03-17-54 / 26015698-054 C East Central Rm West Central Area	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-55 / 26015698-055 C SE Furnace Room SW Corner Floor, Floor Tile	Tan Non-Fibrous Homogeneous		95% Other	5% Chrysotile
7462-03-17-55 / 26015698-055 C SE Furnace Room SW Corner Floor, Mastic	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile
7462-03-17-56 / 26015698-056 C West Roo SE Corner Floor Under Carpet, Floor Tile	Tan Non-Fibrous Homogeneous		95% Other	5% Chrysotile
7462-03-17-56 / 26015698-056 C West Roo SE Corner Floor Under Carpet, Mastic	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile
7462-03-17-57 / 26015698-057 C West Room SE Corner Floor Under Carpet	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-58 / 26015698-058 C East Center Room E Center Floor Under Carpet	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-59 / 26015698-059 C East Center Room NE Corner, Cove Base	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-59 / 26015698-059 C East Center Room NE Corner, Mastic	Cream Non-Fibrous Homogeneous		100% Other	None Detected

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	Appearance	% Fibrous	% Non-fibrous	
7462-03-17-60 / 26015698-060 C West Room S Center Wall, Cove Base	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-60 / 26015698-060 C West Room S Center Wall, Mastic	Cream Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-61 / 26015698-061 C Bathroom NE Window	Grey Non-Fibrous Homogeneous		98% Other	2% Chrysotile
7462-03-17-62 / 26015698-062 C Bathroom Doorway Area Floor, Floor Tile	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-62 / 26015698-062 C Bathroom Doorway Area Floor, Mastic	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile
7462-03-17-63 / 26015698-063 C Bathroom Ne Center Floor, Floor Tile	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-63 / 26015698-063 C Bathroom Ne Center Floor, Mastic	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile
7462-03-17-64 / 26015698-064 D South West Ceiling	White Fibrous Homogeneous	60% Cellulose 30% Min. Wool	10% Other	None Detected
7462-03-17-65 / 26015698-065 D North East Ceiling	White Fibrous Homogeneous	60% Cellulose 30% Min. Wool	10% Other	None Detected
7462-03-17-66 / 26015698-066 D South Wall In SE Corner Area, Plaster	Grey Non-Fibrous Homogeneous		100% Other	None Detected

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	Appearance	% Fibrous	% Non-fibrous	
7462-03-17-66 / 26015698-066 D South Wall In SE Corner Area, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-67 / 26015698-067 D South Wall In SW Area, Plaster	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-67 / 26015698-067 D South Wall In SW Area, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-68 / 26015698-068 D Entry Area Floor NE Corner, Grout	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-68 / 26015698-068 D Entry Area Floor NE Corner, Mortar	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-69 / 26015698-069 D Entry Area Floor SE Corner, Grout	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-69 / 26015698-069 D Entry Area Floor SE Corner, Mortar	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-70 / 26015698-070 D Restroom North Wall NE Area, Drywall	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
7462-03-17-70 / 26015698-070 D Restroom North Wall NE Area, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-71 / 26015698-071 D Restroom West Wall At Corner, Drywall	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected

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7462-03-17-71 / 26015698-071 D Restroom West Wall At Corner, Joint Compound	Tan Non-Fibrous Homogeneous		97% Other	3% Chrysotile
7462-03-17-71 / 26015698-071 D Restroom West Wall At Corner, Texture	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-17-72 / 26015698-072 D Restroom Corner, Drywall	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
7462-03-17-72 / 26015698-072 D Restroom Corner, Joint Compound	Tan Non-Fibrous Homogeneous		97% Other	3% Chrysotile
7462-03-17-72 / 26015698-072 D Restroom Corner, Texture	White Non-Fibrous Homogeneous		100% Other	None Detected

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Asbestos Bulk PLM EPA 600/R-93/116

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This report does not constitute nor shall not be used by the client to claim product, process, system, or person certification, approval, or endorsement by NVLAP, NIST, NELAC, AIHA LAP, LLC or any other U.S. governmental agencies; all or some tests contained in this report may not be accredited by every local, state, and federal regulatory agencies. Refer to the SanAir website at www.sanair.com for copies of current certificates and scopes of various accreditations, certifications, and licenses or contact the laboratory for inquiries regarding the status or scope of an accreditation or certification.

Samples are held for a period of 60 days. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations. For NY state samples, method EPA 600/M4-82-020 is performed.

NYELAP Disclaimer:

Polarized-light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Accreditations, Certifications, and Licenses

National Voluntary Laboratory Accreditation Program (NVLAP) Lab Code 200870-0
City of Philadelphia Department of Public Health Air Management Services, Certification#ALL-460
Commonwealth of Pennsylvania Department of Environmental Protection Number 68-05397
California State Environmental Laboratory Accreditation Program Certificate Number 2915
Colorado Department of Public Health and Environment Registration Number AL-23143
Connecticut Department of Public Health Environmental Laboratory Registration Number PH-0105
Massachusetts Department of Labor Standards Asbestos Analytical Services License Number: AA000222
State of Maine Department of Environmental Protection License Number: LB-0075
New York State Department of Health Laboratory ID: 11983
State of Rhode Island Department of Health Certification No.: PLM00126
Texas Department of State Health Services License Number: 300440
Commonwealth of Virginia Department of Professional and Occupational Regulation Number: 3333000323
State of Washington Department of Ecology Laboratory ID: C989
State of West Virginia Bureau for Public Health Analytical Laboratory Number: LT000616
Vermont Department of Health License Number: Asb-Co-An-000006
Louisiana Department of Environmental Quality AI Number 212253, LELAP Lab ID #05088

HELIX ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

RUSH - YES NO/NA
Sample ID Number
26015698



Received by KM on 3/18/26 at 10:25 AM

LABORATORY: San Air
DATE SAMPLED: 3/17/2026
DATE REQUIRED: 24 HR
D. LOCATION: Dayton, OH
CLIENT: Any Architecture
BUILDING: 460 Wilmington Pike
INSPECTOR: Brocklinch, RA Froelich
JOB NUMBER: 7462

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED: Asbestos PLM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
7462-03-17-01	1500	West Addition A, Coat Room E Wall at Doorway	Gray wall & Joint Compound	N	P	
7462-03-17-02	—	West Addition A, Outside Corner of MR-R	Gray wall & Joint Compound	N	P	
7462-03-17-03	—	Restaurant A, Dining Area, NE Doorway Wall	Gray wall & Joint Compound	N	P	
7462-03-17-04	—	Restaurant A, Dining Area, SE Door to Kitchen	Gray wall & Joint Compound	N	P	
7462-03-17-05	3 LF	Restaurant, Kitchen Chiller Room 5' Ht	Black & white wrap	N	G	
7462-03-17-06	—	Restaurant, Kitchen, Chiller Room 5' Ht	Black & white wrap	N	G	
7462-03-17-07	—	West Addition A, Women's Restroom, SW May on Ceiling	2' x 4' vinyl covered ceiling tile (large)	N	F	4612
7462-03-17-08	—	West Addition A, Men's Restroom, SW May at Entrance	2' x 4' vinyl covered ceiling tile (large)	N	F	
7462-03-17-09	—	West Addition A, Men's Restroom, West Wall Center	2' x 4' vinyl covered ceiling tile (large)	N	F	on All walls - 5' to 8'
7462-03-17-10	—	West Addition A, Women's Restroom, E. Wall, Central Area	2' x 4' vinyl covered ceiling tile (large)	N	F	
7462-03-17-11	—	West Addition A, SE Lobby, N. Central Area 0' Ht	Gray Trimmet Master Pole Brown	N	F	Also in Bedrooms
7462-03-17-12	—	West Addition A, SE Lobby, N. Central Area 0' Ht	Gray Trimset Master Pole Brown	N	F	

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REC'D 1	Relinquished by: <u>[Signature]</u>	Company: <u>Helix Env. Inc.</u>	Date/Time: <u>3/17/2026</u>	REC'D 3	Relinquished by:	Company:	Date/Time:
REC'D 2	Received by:	Company:	Date/Time:	REC'D 4	Relinquished by:	Company:	Date/Time:

HELIXXXX ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

LABORATORY: San Air
DATE SAMPLED: 3/1/2026
DATE REQUIRED: 24 HR
JOB NO./LOCATION: 1462 / Dayton, OH
CLIENT: Any Architecture
BUILDING: 4650 Wilmington Pike
INSPECTOR: Frederick, RAS-04-04
JOB NUMBER: 7462

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED:

Asbestos PLM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
7462-03-17-13		4614(1) Restaurant, Kitchen NW Ceiling	2' x 4' (Vinyl covered ceiling tile (rough))	N	F	
7462-03-17-14		A1 Restaurant, Kitchen Annex	2' x 4' vinyl covered ceiling tile (rough)	N	F	
7462-03-17-15		A1 Restaurant Kitchen S Wall in SW Area	9' x 4' Plasterboard	N	F	
7462-03-17-16		A1 Restaurant, Kitchen Annex	9' x 4' Plasterboard	N	F	
7462-03-17-17		A1 Restaurant, Kitchen above Entrance to Annex	9' x 4' Hard Plaster & Stucco	N	P	
7462-03-17-18		A1 Restaurant Kitchen, NE Corner Wall by Fryer	9' x 4' Hard Plaster & Stucco	N	P	
7462-03-17-19	2 SF	A1 Cooler Vestibule by E Door	9' x 4' Black Core Base	N	F	7 LF x 1/3 = 2 SF
7462-03-17-20		A1 Cooler, Vestibule, bottom of Doorway to Kitchen	9' x 4' Black Core Base	N	F	
7462-03-17-21		A1 Restaurant, SE Doorway to Kitchen	9' x 4' Ceramic Tile Mosaic & Grout	N	F	DO NOT ANALYZE CERAMIC TILE
7462-03-17-22		A1 Restaurant, NE Outside Door Annex, bottom of wall	9' x 4' Ceramic Tile Mosaic & Grout	N	F	
7462-03-17-23	50 SF	B1 Ballroom	2' x 4' Ceiling tile, many missing	F	F	
7462-03-17-24		B1 Ballroom Ceiling on floor	2' x 4' Ceiling tile, many missing	F	F	

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SanAir ID Number
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HELIX

ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

LABORATORY: San Air
DATE SAMPLED: 3/17/2026
DATE REQUIRED: 24 HR
JOB NO./LOCATION: 7462 Dayton, OH
CLIENT: Any Architectural
BUILDING: 4620 W. Livingston Ave
INSPECTOR: 7462
JOB NUMBER: 7462

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED: Asbestos PLM

HEIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
7462-03-17-25	300g	B Entrance Floor	Gray tile sheet Flooring	N	F	
7462-03-17-26	—	B W Room, SE Corner Floor	Gray tile sheet Flooring	N	F	
7462-03-17-27	—	B W Room, NW Corner Floor	Gray tile sheet Flooring	N	F	
7462-03-17-28	—	B W Room, SE Corner Floor	Gray tile sheet Flooring	N	P	
7462-03-17-29	150 LE 505F	B W Room, SW Corner, bottom of S wall	Gray tile sheet Flooring	N	G	
7462-03-17-30	—	B W Room, NW corner, bottom of NW wall	Gray tile sheet Flooring	N	F	
7462-03-17-31	—	B W Room, S. wall, West Area,	Gray tile sheet Flooring	N	F	
7462-03-17-32	—	B W Room, S. wall, West Area,	Gray tile sheet Flooring	N	F	
7462-03-17-33	805F	B W Room, East wall, Center	Gray tile sheet Flooring	N	F	
7462-03-17-34	—	B W Room, S. wall, Center,	Gray tile sheet Flooring	N	F	
7462-03-17-35	249F	B W Room, E. wall, Center,	Gray tile sheet Flooring	N	F	
7462-03-17-36	—	B W Room, E. wall, Center,	Gray tile sheet Flooring	N	F	

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HELIX ENVIRONMENTAL, INC.

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LABORATORY: San Air
 DATE SAMPLED: 3/17/2026
 DATE REQUIRED: 24 HR TAT
 JOB NO./LOCATION: 1462 / Dayton, OH
 CLIENT: Any Architecture
 BUILDING: 4650 Wilmington Pike
 INSPECTOR: B. Friedman
 JOB NUMBER: 1462

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED: Asbestos PCM

HEIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
1462-03-17-37	SF	Hall, (B) Barber shop, West Room/Hall Corner before panel	drywall joint compound	N	P	
1462-03-17-38	10 LF	B, 1st Fl, SE Bathroom, E. wall, corner	Window cladding compound	N	P	
1462-03-17-39	SF	B, Furnace Room, inside furnace	White Fiberglass furnace caulk	N	G	
1462-03-17-40	—	B, Furnace Room, inside furnace	White Fiberglass furnace caulk	N	G	
1462-03-17-41	3 SF	B, Furnace Room, N. central area	Dark grey pipe hanger	N	G	
1462-03-17-42	—	B, Furnace Room, E. wall, N. central area	Dark grey pipe hanger	N	G	
1462-03-17-43	150 SF	B, South Wall in SW corner	Tan Caststone adhesive	N	G	
1462-03-17-44	—	B, West Room, Hall corner before panel	Tan Caststone adhesive	N	G	
1462-03-17-45	200 SF	B, West Room, Center N Floor	Tan Carpet adhesive	N	F	
1462-03-17-46	—	B, West Room, NW corner	Tan Carpet adhesive	N	F	
1462-03-17-47	SF	C, West Room, Hall corner before panel	2'x4' Ceiling Tile	F	K	
1462-03-17-48	—	C, Center Room, NW Area on Floor	2'x4' Ceiling Tile	F	K	

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REC'D 2	Received by: _____	Company: _____	Date/Time: _____	REC'D 4	Relinquished by: _____	me: _____

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

JOB NO./LOCATION: 7467 / Dayton, OH

DATE SAMPLED: 3/20/2026

DATE REQUIRED: 24 JUL 74

3 NO./LOCATION: 7462 / Dayton, OH

CLIENT: App Architecture

BUILDING: 4650 W1/mirfoten

INSPECTOR: B. French / B4

JOB NUMBER: 7462

ANALYSES REQUESTED:

Asbestos PLM

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SanAir ID Number
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1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

RUSH - YES OR NO

LABORATORY: San Air

DATE SAMPLED: 3/17/2026

DATE REQUIRED: 24 TH THU

JOB NO./LOCATION: 1462 Dayton, OH

CLIENT: Any Architecture

BUILDING: 4650 Wilmington Pike

INSPECTOR: B. Treelick R. Treelick

JOB NUMBER: 1462

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED:

Asbestos PCM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
1462-03-17-61	8 LF SF	C Bathroom (NE) Window	Window Ceiling	N	P	BLFED, 14x
1462-03-17-62	20 SF	C Bathroom, Entryway Area Floor	12x12 Floor Tile, Tan Shredded & Black Mesh	N	G	
1462-03-17-63	—	C Bathroom, NE Corner Floor	12x12 Floor Tile, Tan Shredded & Black Mesh	N	G	
1462-03-17-64	240 SF	D, South West Ceiling	2x4 Ceiling Ties Randomly Cut & Gaps	N	F	
1462-03-17-65	—	D, North East Ceiling	2x4 Ceiling Ties Randomly Cut & Gaps	N	F	
1462-03-17-66	1900 SF	D, South Wall in SE Corner Area	2x4 Ceiling Ties Randomly Cut & Gaps	N	F	
1462-03-17-67	—	D, South Wall in SW Area	Hand Plaster & Skin Coat	N	F	
1462-03-17-68	36 SF	D, Entryway Area Floor, NE Corner	Grout & Mortar under 1x1 Ceramic Tile with Grout & Mortar under	N	G	
1462-03-17-69	—	D, Entryway Area Floor, SE Corner	Grout & Mortar under 1x1 Ceramic Tile with Grout & Mortar under	N	G	
1462-03-17-70	900 SF	D, Westroom, West Wall, NE Area	Grout & Mortar under 1x1 Ceramic Tile with Grout & Mortar under	N	P	Remnants
1462-03-17-71	—	D, Restroom, West Wall at Corner	Grout & Mortar under 1x1 Ceramic Tile with Grout & Mortar under	N	P	
1462-03-17-72	—	D, Restroom, Corner	Grout & Mortar under 1x1 Ceramic Tile with Grout & Mortar under	N	P	

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REC'D 1	Received by: <u>[Signature]</u>	Company: <u>Helix Env. Inc</u>	Date/Time: <u>3/17/2026 1702</u>	REC'D 3	Relinquished by: _____	SanAir ID Number 26015698
REC'D 2	Received by: _____	Company: _____	Date/Time: _____	REC'D 4	Relinquished by: _____	Date/Time: _____

Received by KM on 3/18/26 at 10:25 AM



The Identification Specialists

Analysis Report
prepared for
Helix Environmental Inc

Report Date: 3/20/2026

Project Name: 4614 Wilmington Pike Dayton, OH

Project #: 7462

SanAir ID#: 26016018



NVLAP LAB CODE 200870-0

10501 Trade Court, North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | LabReports@SanAir.com | SanAir.com



SanAir ID Number

26016018

FINAL REPORT

3/20/2026 10:07:22 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: 4614 Wilmington Pike Dayton, OH
Collected Date: 3/18/2026
Received Date: 3/19/2026 10:25:00 AM

Dear Benjamin Froehlich,

We at SanAir would like to thank you for the work you recently submitted. The 48 sample(s) were received on Thursday, March 19, 2026 via FedEx. The final report(s) is enclosed for the following sample(s): 7462-03-18-01, 7462-03-18-02, 7462-03-18-03, 7462-03-18-04, 7462-03-18-05, 7462-03-18-06, 7462-03-18-07, 7462-03-18-08, 7462-03-18-09, 7462-03-18-10, 7462-03-18-11, 7462-03-18-12, 7462-03-18-13, 7462-03-18-14, 7462-03-18-15, 7462-03-18-16, 7462-03-18-17, 7462-03-18-18, 7462-03-18-19, 7462-03-18-20, 7462-03-18-21, 7462-03-18-22, 7462-03-18-23, 7462-03-18-24, 7462-03-18-25, 7462-03-18-26, 7462-03-18-27, 7462-03-18-28, 7462-03-18-29, 7462-03-18-30, 7462-03-18-31, 7462-03-18-32, 7462-03-18-33, 7462-03-18-34, 7462-03-18-35, 7462-03-18-36, 7462-03-18-37, 7462-03-18-38, 7462-03-18-39, 7462-03-18-40, 7462-03-18-41, 7462-03-18-42, 7462-03-18-43, 7462-03-18-44, 7462-03-18-45, 7462-03-18-46, 7462-03-18-47, 7462-03-18-48.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino". The signature is written in a cursive, flowing style.

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 48 samples in Good condition.



SanAir ID Number

26016018

FINAL REPORT

3/20/2026 10:07:22 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462**P.O. Number:****Project Name:** 4614 Wilmington Pike Dayton, OH**Collected Date:** 3/18/2026**Received Date:** 3/19/2026 10:25:00 AM

Analyst: Magalis, Lane

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-18-01 / 26016018-001 D, (4628), 1st Fl., NE Area, Bathroom S. Wall, SW Exterior	Tan Non-Fibrous Homogeneous		98% Other	2% Chrysotile
7462-03-18-02 / 26016018-002 D, 1st Fl., SW Area, On Floor, Concrete 0' Ht Carpet Mastic	Various Non-Fibrous Heterogeneous		97% Other	3% Chrysotile
7462-03-18-03 / 26016018-003 D, 1st Fl., NE Central Area, On Concrete Floor, 0' Ht.	Various Non-Fibrous Heterogeneous		100% Other	None Detected
7462-03-18-04 / 26016018-004 E, (4630), 1st Fl., SE Central Area, 10' Ht. 2'x4' Ceiling	White Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	None Detected
7462-03-18-05 / 26016018-005 e (4630), 1st Fl, SW Central Area, 10' Ht 2'x4' Ceiling Tile	White Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	None Detected
7462-03-18-06 / 26016018-006 E, 1st Fl., Main Room, E. Wall, North Central Area, Drywall	White Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
7462-03-18-06 / 26016018-006 E, 1st Fl., Main Room, E. Wall, North Central Area, Joint Compound	Tan Non-Fibrous Homogeneous		98% Other	2% Chrysotile
7462-03-18-06 / 26016018-006 E, 1st Fl., Main Room, E. Wall, North Central Area, Texture	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-07 / 26016018-007 E, 1st Fl., Main Rm., N. Wall, West Central Area, 4' Ht, Drywall	White Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
7462-03-18-07 / 26016018-007 E, 1st Fl., Main Rm., N. Wall, West Central Area, 4' Ht, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected

Analyst:

Approved Signatory:

Analysis Date: 3/20/2026

Date: 3/20/2026



SanAir ID Number

26016018

FINAL REPORT

3/20/2026 10:07:22 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: 4614 Wilmington Pike Dayton, OH
Collected Date: 3/18/2026
Received Date: 3/19/2026 10:25:00 AM

Analyst: Magalis, Lane

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-18-08 / 26016018-008 E., 1st Fl., Main Rm., S. Wall, West Area, 0' Ht., Cove Base	Black Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-08 / 26016018-008 E., 1st Fl., Main Rm., S. Wall, West Area, 0' Ht., Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-09 / 26016018-009 E. 1st Fl., Main Rm., E. Wall, S. Area, 0' Ht 4" Cove Base, Cove Base	Black Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-09 / 26016018-009 E. 1st Fl., Main Rm., E. Wall, S. Area, 0' Ht 4" Cove Base, Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-10 / 26016018-010 E, 1st Fl., Main Rm, E Central Area, 0' Ht.12"x12" Mottled, Tile	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-10 / 26016018-010 E, 1st Fl., Main Rm, E Central Area, 0' Ht.12"x12" Mottled, Mastic	Various Non-Fibrous Heterogeneous		97% Other	3% Chrysotile
7462-03-18-11 / 26016018-011 E, 1st Fl., Main Rm, NW Central Area, 0' Ht. 12"x12" Mottled, Tile	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-11 / 26016018-011 E, 1st Fl., Main Rm, NW Central Area, 0' Ht. 12"x12" Mottled, Mastic	Tan Non-Fibrous Homogeneous		100% Other	< 1% Chrysotile
7462-03-18-12 / 26016018-012 E, 1st Fl., Main Rm. SE Area, Above CT, At Roof Penetration	Grey Non-Fibrous Heterogeneous		100% Other	None Detected
7462-03-18-13 / 26016018-013 E, 1st Fl., N. Wall, E. Central Area, 4' Ht. Hard Plaster, Plaster	Grey Non-Fibrous Heterogeneous		100% Other	None Detected

Analyst:

Approved Signatory:

Analysis Date: 3/20/2026

Date: 3/20/2026



SanAir ID Number

26016018

FINAL REPORT

3/20/2026 10:07:22 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462**P.O. Number:****Project Name:** 4614 Wilmington Pike Dayton, OH**Collected Date:** 3/18/2026**Received Date:** 3/19/2026 10:25:00 AM

Analyst: Magalis, Lane

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-18-13 / 26016018-013 E, 1st Fl., N. Wall, E. Central Area, 4' Ht. Hard Plaster, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-14 / 26016018-014 F (4634), 1st Fl., West Central Area, 10' Ht. 2'4" Ceiling	White Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	None Detected
7462-03-18-15 / 26016018-015 F, 1st Fl., West Central Area, Fallen Tile, 0' Ht. 2'x4'	White Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	None Detected
7462-03-18-16 / 26016018-016 F, 1st Fl., SW Area, Main Rm, 10' Ht 2'x4' Ceiling Tile	White Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	None Detected
7462-03-18-17 / 26016018-017 F, 1st Fl., Main Rm, NE Area, Central 10' Ht. 2'x4' Ceiling	White Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	None Detected
7462-03-18-18 / 26016018-018 F, 1st Fl, Main Room, NW Central Area, 10' Ht 2'x4' Ceiling	White Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	None Detected
7462-03-18-19 / 26016018-019 F, 1st Fl., SE Restroom, SW Area, 8' Ht. 2'x4' Ceiling Tile	White Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	None Detected
7462-03-18-20 / 26016018-020 F, 1st Fl., Main Rm., S. Wall, West Central Area, Above, Drywall	White Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
7462-03-18-20 / 26016018-020 F, 1st Fl., Main Rm., S. Wall, West Central Area, Above, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-21 / 26016018-021 F, 1st Fl., SE Bathroom, West Wall, N. Area, Above CT, 8' Ht, Drywall	White Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected

Analyst:

Approved Signatory:

Analysis Date: 3/20/2026

Date: 3/20/2026



SanAir ID Number

26016018

FINAL REPORT

3/20/2026 10:07:22 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: 4614 Wilmington Pike Dayton, OH
Collected Date: 3/18/2026
Received Date: 3/19/2026 10:25:00 AM

Analyst: Magalis, Lane

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-18-21 / 26016018-021 F, 1st Fl., SE Bathroom, West Wall, N. Area, Above CT, 8' Ht, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-22 / 26016018-022 F, 1st Fl., Main "Sales" Rm, West Wall, N. Central ARea, 0', Cove Base	Black Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-22 / 26016018-022 F, 1st Fl., Main "Sales" Rm, West Wall, N. Central ARea, 0', Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-23 / 26016018-023 F, 1st Fl., Main Sales Rm, E. Wall, S Area At Entrance To SE, Cove Base	Black Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-23 / 26016018-023 F, 1st Fl., Main Sales Rm, E. Wall, S Area At Entrance To SE, Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-24 / 26016018-024 F, 1st Fl, Main Rm, Center, 0' Ht, 12"x12" Plain, Mastic, Tile	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-24 / 26016018-024 F, 1st Fl, Main Rm, Center, 0' Ht, 12"x12" Plain, Mastic, Mastic	Various Non-Fibrous Heterogeneous		97% Other	3% Chrysotile
7462-03-18-25 / 26016018-025 F (4634), 1st Fl., NW Area, 0' Ht. 12"x12" Plain Floor Tile, Tile	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-25 / 26016018-025 F (4634), 1st Fl., NW Area, 0' Ht. 12"x12" Plain Floor Tile, Mastic	Various Non-Fibrous Heterogeneous		97% Other	3% Chrysotile
7462-03-18-26 / 26016018-026 F, 1st Fl., SE Restroom, W. Central Area, At Entrance, 0' Ht, Tile	Tan Non-Fibrous Homogeneous		100% Other	None Detected

Analyst:

Approved Signatory:

Analysis Date: 3/20/2026

Date: 3/20/2026



SanAir ID Number

26016018

FINAL REPORT

3/20/2026 10:07:22 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
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Project Number: 7462
P.O. Number:
Project Name: 4614 Wilmington Pike Dayton, OH
Collected Date: 3/18/2026
Received Date: 3/19/2026 10:25:00 AM

Analyst: Magalis, Lane

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-18-26 / 26016018-026 F, 1st Fl., SE Restroom, W. Central Area, At Entrance, 0' Ht, Grout	Grey Non-Fibrous Heterogeneous		100% Other	None Detected
7462-03-18-26 / 26016018-026 F, 1st Fl., SE Restroom, W. Central Area, At Entrance, 0' Ht, Thinset	Grey Non-Fibrous Heterogeneous		100% Other	None Detected
7462-03-18-27 / 26016018-027 F, 1st Fl, SE Restroom, W. Central Area, At Entrance, 0' Ht, Tile	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-27 / 26016018-027 F, 1st Fl, SE Restroom, W. Central Area, At Entrance, 0' Ht, Grout	Grey Non-Fibrous Heterogeneous		100% Other	None Detected
7462-03-18-27 / 26016018-027 F, 1st Fl, SE Restroom, W. Central Area, At Entrance, 0' Ht, Thinset	Grey Non-Fibrous Heterogeneous		100% Other	None Detected
7462-03-18-28 / 26016018-028 F, 1st Fl., Main Room, West Wall, On Soffitt, 11' Ht. Hard, Plaster	Grey Non-Fibrous Heterogeneous		100% Other	None Detected
7462-03-18-28 / 26016018-028 F, 1st Fl., Main Room, West Wall, On Soffitt, 11' Ht. Hard, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-29 / 26016018-029 G Club, Entry Ceiling 10' Ht 2'x4' Ceiling Tile Random Holes	Grey Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	None Detected
7462-03-18-30 / 26016018-030 G Club, Ceiling Above Bar 10' Ht 2'x4' Ceiling Tile Random	Grey Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	None Detected
7462-03-18-31 / 26016018-031 G Club Entry Ceiling 10' Ht Vinyl Covered Plain	White Non-Fibrous Heterogeneous	5% Cellulose	95% Other	None Detected

Analyst:

Approved Signatory:

Analysis Date: 3/20/2026

Date: 3/20/2026



SanAir ID Number

26016018

FINAL REPORT

3/20/2026 10:07:22 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462**P.O. Number:****Project Name:** 4614 Wilmington Pike Dayton, OH**Collected Date:** 3/18/2026**Received Date:** 3/19/2026 10:25:00 AM

Analyst: Magalis, Lane

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-18-32 / 26016018-032 G Club Ceiling Above Bar 10' Ht Vinyl Covered Plain	White Non-Fibrous Heterogeneous	5% Cellulose	95% Other	None Detected
7462-03-18-33 / 26016018-033 G Club West Ceneter Post, N Side 4' Ht Drywall & Joint, Drywall	White Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
7462-03-18-33 / 26016018-033 G Club West Ceneter Post, N Side 4' Ht Drywall & Joint, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-34 / 26016018-034 G Club, NE Corner By Restrooms 5' Ht. Drywall & Joint, Drywall	White Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
7462-03-18-34 / 26016018-034 G Club, NE Corner By Restrooms 5' Ht. Drywall & Joint, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-35 / 26016018-035 G Club, S Wall West Area 1' Ht Hard Plaster & Skim Coat, Plaster	Grey Non-Fibrous Heterogeneous		100% Other	None Detected
7462-03-18-35 / 26016018-035 G Club, S Wall West Area 1' Ht Hard Plaster & Skim Coat, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-36 / 26016018-036 G Club, Main Area, N. Wall, East Area, 11' Ht Hard Plaster, Plaster	Grey Non-Fibrous Heterogeneous		100% Other	None Detected
7462-03-18-36 / 26016018-036 G Club, Main Area, N. Wall, East Area, 11' Ht Hard Plaster, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected

Analyst:

Approved Signatory:

Analysis Date: 3/20/2026

Date: 3/20/2026



SanAir ID Number
26016018
FINAL REPORT
3/20/2026 10:07:22 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
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Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: 4614 Wilmington Pike Dayton, OH
Collected Date: 3/18/2026
Received Date: 3/19/2026 10:25:00 AM

Analyst: Magalis, Lane

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-18-37 / 26016018-037 G Club, Bar Area, SE Floor 12"x12" Floor Tile, Mastic, Tile	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-37 / 26016018-037 G Club, Bar Area, SE Floor 12"x12" Floor Tile, Mastic, Mastic	Brown Non-Fibrous Heterogeneous		100% Other	None Detected
7462-03-18-38 / 26016018-038 G Club, Entry Area Center Floor 12"x12" Floor Tile Mottled, Tile	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-38 / 26016018-038 G Club, Entry Area Center Floor 12"x12" Floor Tile Mottled, Mastic	Brown Non-Fibrous Heterogeneous		100% Other	None Detected
7462-03-18-39 / 26016018-039 G Club, Floor S Of Bar Area 12"x12" Floor Tile & Mastic, Tile	Aqua Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-39 / 26016018-039 G Club, Floor S Of Bar Area 12"x12" Floor Tile & Mastic, Mastic	Black Non-Fibrous Heterogeneous		97% Other	3% Chrysotile
7462-03-18-40 / 26016018-040 G Club, MRR Floor, Central Area 12"x12" Floor Tile, & Mastic, Tile	Aqua Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-40 / 26016018-040 G Club, MRR Floor, Central Area 12"x12" Floor Tile, & Mastic, Mastic	Black Non-Fibrous Heterogeneous		97% Other	3% Chrysotile
7462-03-18-41 / 26016018-041 G Club, Women's Restroom, (NE Central), NW Area, Above CT	Black Non-Fibrous Heterogeneous	10% Glass	90% Other	None Detected
7462-03-18-42 / 26016018-042 G Club, Women's Restroom, NW Area, Above CT, 9' Ht	Black Non-Fibrous Heterogeneous	10% Glass	90% Other	None Detected

Analyst:

Approved Signatory:

Analysis Date: 3/20/2026

Date: 3/20/2026



SanAir ID Number

26016018

FINAL REPORT

3/20/2026 10:07:22 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462**P.O. Number:****Project Name:** 4614 Wilmington Pike Dayton, OH**Collected Date:** 3/18/2026**Received Date:** 3/19/2026 10:25:00 AM

Analyst: Magalis, Lane

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-18-43 / 26016018-043 G Club, Entry S Of Door, SW Corner At Floor 0' Ht 4" Cove, Cove Base	Black Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-43 / 26016018-043 G Club, Entry S Of Door, SW Corner At Floor 0' Ht 4" Cove, Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-44 / 26016018-044 G Club S Wall Bottom, 40' E Of SW Corner 4" Cove Base, Cove Base	Black Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-44 / 26016018-044 G Club S Wall Bottom, 40' E Of SW Corner 4" Cove Base, Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-45 / 26016018-045 G Club, SW Area Floor At Edge Of Carpet Carpet Mastic Over	Various Non-Fibrous Heterogeneous		98% Other	2% Chrysotile
7462-03-18-46 / 26016018-046 G Club Area NE Of Bar On NE Corner, Floor Carpet Mastic Over	Various Non-Fibrous Heterogeneous		98% Other	2% Chrysotile
7462-03-18-47 / 26016018-047 G Club, SE Utility Room, West Wall, S. Area, Behind	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-18-48 / 26016018-048 G Club, SE Utility Room, West Wall 6' Ht Construction	Tan Non-Fibrous Homogeneous		100% Other	None Detected

Analyst:

Approved Signatory:

Analysis Date: 3/20/2026

Date: 3/20/2026

Disclaimer and Additional Information:
Asbestos Bulk PLM EPA 600/R-93/116

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The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client on the COC. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition received at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, P.O. number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start-stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted on the report. When the client requires samples to be tested that deviates from a specific method or condition, all reported results may be affected by the deviation. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted.

This report does not constitute nor shall not be used by the client to claim product, process, system, or person certification, approval, or endorsement by NVLAP, NIST, NELAC, AIHA LAP, LLC or any other U.S. governmental agencies; all or some tests contained in this report may not be accredited by every local, state, and federal regulatory agencies. Refer to the SanAir website at www.sanair.com for copies of current certificates and scopes of various accreditations, certifications, and licenses or contact the laboratory for inquiries regarding the status or scope of an accreditation or certification.

Samples are held for a period of 60 days. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations. For NY state samples, method EPA 600/M4-82-020 is performed.

NYELAP Disclaimer:

Polarized-light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Accreditations, Certifications, and Licenses

National Voluntary Laboratory Accreditation Program (NVLAP) Lab Code 200870-0
City of Philadelphia Department of Public Health Air Management Services, Certification#ALL-460
Commonwealth of Pennsylvania Department of Environmental Protection Number 68-05397
California State Environmental Laboratory Accreditation Program Certificate Number 2915
Colorado Department of Public Health and Environment Registration Number AL-23143
Connecticut Department of Public Health Environmental Laboratory Registration Number PH-0105
Massachusetts Department of Labor Standards Asbestos Analytical Services License Number: AA000222
State of Maine Department of Environmental Protection License Number: LB-0075
New York State Department of Health Laboratory ID: 11983
State of Rhode Island Department of Health Certification No.: PLM00126
Texas Department of State Health Services License Number: 300440
Commonwealth of Virginia Department of Professional and Occupational Regulation Number: 3333000323
State of Washington Department of Ecology Laboratory ID: C989
State of West Virginia Bureau for Public Health Analytical Laboratory Number: LT000616
Vermont Department of Health License Number: Asb-Co-An-000006
Louisiana Department of Environmental Quality AI Number 212253, LELAP Lab ID #05088

HELIXXXX

ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 4541
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@he

Received by MC on 3/19/26 at 10:25 AM



SanAir ID Number
26016018

OR/NO

LABORATORY: SanAir
DATE SAMPLED: 3/18/2026
DATE REQUIRED: 24th Feb
JOB NO./LOCATION: 1462-03-18-01
CLIENT: Architectural
BUILDING: 4614-03-18-01
INSPECTOR: Paul Frickel
JOB NUMBER: 1462

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED:

Asbestos PLM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FIXABLE/ NON	CONDITION	COMMENTS
1462-03-18-01	120 SF	D (4625) 1st Fl, NE Area, Bathrooms, S. Wall, SW E. Area, corner,	Textured Layer	N	P	on Drywall
1462-03-18-02	1420 SF	D, 1st Fl, SW Area, on Floor, corner,	Thin carpet mesh	N	F	-
1462-03-18-03	-	D, 1st Fl, NE Central Area, on concrete floor, 0.5 ft,	Thin carpet mesh	N	F	-
1462-03-18-04	1600 SF	E (4630), 1st Fl, NE Central Area,	2' x 4' Ceiling tile	F	P	33 x 6 = 198
1462-03-18-05	-	E (4630), 1st Fl, SW Central Area,	Horizontal Fibers and tile	F	F	-
1462-03-18-06	1000 SF	E, 1st Fl, Main Room, E. Wall, Black Central Area, at corner of tile change	Original and joint compound	N	P	1100 SF
1462-03-18-07	-	E, 1st Fl, Main Room, E. Wall, West Central Area,	Original and joint compound	N	P	-
1462-03-18-08	60 SF	E, 1st Fl, Main Room, S. Wall, West Area,	4" Black Cove Base and 1" on mesh	N	F	-
1462-03-18-09	-	E, 1st Fl, Main Room, E. Wall, S. Area,	4" Black Cove Base and 1" on mesh	N	F	-
1462-03-18-10	1450 SF	E, 1st Fl, Main Room, NE Central Area,	12" x 12" light and dark grey m. tile floor	N	NF	+ Black mesh
1462-03-18-11	-	E, 1st Fl, Main Room, NE Central Area,	12" x 12" light and dark grey m. tile floor	N	F	-
1462-03-18-12	-	E, 1st Fl, Main Room, NE Central Area,	Roofing concrete	N	F	over whole SF

THIS IS A CHAIN OF CUSTODY DOCUMENT. PLEASE COMPLETE, SIGN, AND DATE. PLEASE RETURN ORIGINAL TO HELIX ENVIRONMENTAL, INC.

REC'D 1	Relinquished by:	Helix Env, Inc.	Date/Time:	3/18/2026 17:00	REC'D 3	Relinquished by:	Company:	Date/Time:
REC'D 2	Received by:	Paul Frickel	Date/Time:		REC'D 4	Relinquished by:	Company:	Date/Time:

HELIXXXXXX

ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

SanAir ID Number: 26016018
Received by MC on 3/19/26 at 10:25 AM

RUSH - YES OR (NO)

LABORATORY: SanAir
DATE SAMPLED: 3/18/2026
DATE REQUIRED: 24 HR TAT
JOB NO./LOCATION: 7462 / Dayton, OH
CLIENT: AYR Architect
BUILDING: 4650 Wilmington Pike
INSPECTOR: Ben Froehlich
JOB NUMBER: 7462

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED:

Asbestos PCM

HEIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRABLE / NON	CONDITION	COMMENTS
7462-03-18-013	1600 SF	E, 1st Fl., N. Wall, E. Central Area, 10' Ht.	Hard plaster and skim coat	N	P	
7462-03-18-14	16 SF	E (4634), 1st Fl., West Central Area, 10' Ht.	2" x 4" ceiling tile, random holes and spider webs	F	F	
7462-03-18-15	—	E, 1st Fl., West Central Area, Falla tile, 6' Ht.	2" x 4" ceiling tile, random holes and spider webs	P	P	random holes and spider webs
7462-03-18-16	1300 SF	E, 1st Fl., SW Area, main floor, 10' Ht.	2" x 4" ceiling tile, random holes and spider webs	F	F	
7462-03-18-17	—	E, 1st Fl., main floor, N/E Area, 10' Ht.	2" x 4" ceiling tile, random holes and spider webs	F	F	
7462-03-18-18	160 SF	E, 1st Fl., main room, NW Central Area, 10' Ht.	2" x 4" ceiling tile, random holes and spider webs	F	F	
7462-03-18-19	—	E, 1st Fl., SE Restroom, SW Area, 8' Ht.	2" x 4" ceiling tile, horizontal fissures and holes	F	P	
7462-03-18-20	1700 SF	E, 1st Fl., main room, S. Wall, West Central Area, Above ceiling tile, 10' Ht.	2" x 4" ceiling tile, horizontal fissures and holes	F	P	
7462-03-18-21	—	E, 1st Fl., SE Restroom, West wall, N. Area, Above ceiling, 5' Ht.	drywall and joint compound	N	F	
7462-03-18-22	66 SF	E, 1st Fl., main sales room, West wall, N. Central Area, 0' Ht.	4" black core base; tan mastic	N	G	
7462-03-18-23	—	E, 1st Fl., main sales room, E. Wall, 2' Ht. + Entrance to SE Restroom, 6' Ht.	4" black core base; tan mastic	N	G	
7462-03-18-24	1400 SF	E, 1st Fl., main room, carpet, 0' Ht.	12" x 12" light grey plain polypropylene tile	N	P	+ black mastic below

THIS IS A CHAIN OF CUSTODY DOCUMENT. PLEASE COMPLETE, SIGN, AND DATE. PLEASE RETURN ORIGINAL TO HELIX ENVIRONMENTAL, INC.

REC'D 1	Relinquished by:	Company:	REC'D 3	Relinquished by:	Company:
REC'D 2	Received by:	Company:	REC'D 4	Relinquished by:	Company:

Paul Froehlich

Helix Env, Inc.

3/18/26
7:00

HELIX ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

SanAir ID Number: 26016018
Received by MC on 3/19/26 at 10:25 AM

RUSH - YES OR NO

LABORATORY: SanAir
DATE SAMPLED: 3/18/2026
DATE REQUIRED: 24 HR
JOB NO./LOCATION: 7462 / Dayton, OH
CLIENT: AVE Architectural
BUILDING: 4650 W. Wilmington Ave
INSPECTOR: Ben Froehlich
JOB NUMBER: 7462

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED:

Asbestos PCM

HEIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
7462-03-18-25	1400 SF	F (463T), 1st Fl., NW Area,	12" x 12" light grey vinyl floor tile - random holes & gouges	N	G	+ Black MASH?
7462-03-18-26	35 SF	F 1st Fl., SE Restroom, W. Central Area, At Entrance	Cement tile inset mortar, grout	N	G	+ Black MASH? on bottom
7462-03-18-27	—	F 1st Fl., SE Restroom, W. Central Area, At Entrance	Cement tile inset mortar, grout	N	G	↓ under 8" square tile
7462-03-18-28	10 SF	F 1st Fl., Main Room, West Wall, On Scaffolding	Hard plaster and skim coat	N	P	No plaster except on walls
7462-03-18-29	3500 SF	G Club, Entry Ceiling	2' x 4' Ceiling tile Random holes & gouges	F	P	4' x 8' = 3520
7462-03-18-30	—	G Club, Entry above Bar	2' x 4' Ceiling tile Random holes & gouges	F	F	
7462-03-18-31	520 SF	G Club Entry Ceiling	rough covered plain	F	G	4' x 16' x 85' =
7462-03-18-32	—	G Club Entry above Bar	vinyl covered plain	F	G	
7462-03-18-33	32	G Club West Center Post, N Side	vinyl covered plain	N	F	
7462-03-18-34	—	G Club, NE Corner by Restroom	Drywall & joint compound	N	F	
7462-03-18-35	1800 SF	G Club, S Wall West Area	Hard Plaster & Skim Coat	A	F	
7462-03-18-36	—	G Club, Main Area, N. Wall, East Area	Hard Plaster & Skim Coat	N	F	

THIS IS A CHAIN OF CUSTODY DOCUMENT. PLEASE COMPLETE, SIGN, AND DATE. PLEASE RETURN ORIGINAL TO HELIX ENVIRONMENTAL, INC.

REC'D 1 Relinquished by: Ben Froehlich	Company: Helix Env., Inc.	Date/Time: 3/18/26 17:00	REC'D 3 Relinquished by:	Company:	Date/Time:
REC'D 2 Received by:	Company:	Date/Time:	REC'D 4 Relinquished by:	Company:	Date/Time:

HELIX ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

SanAir ID Number: 26016018
Received by MC on 3/19/26 at 10:25 AM

LABORATORY: SanAir
DATE SAMPLED: 3/18/2026
DATE REQUIRED: 24 APR 26
JOB NO./LOCATION: 1462 / Dayton, OH
CLIENT: Any Architectural
BUILDING: 4650 Wilmington Pike
INSPECTOR: IS Proehl
JOB NUMBER: 7462

RUSH - YES OR (NO)

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED:

Asbestos PCM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FIXABLE/ NON	CONDITION	COMMENTS
1462-03-18-37	1300 SF	G Club, Bar Area, SE Floor	Dark grey concrete floor, Bar Area	N	F	1804 (89 x 25) - 150
1462-03-18-38	—	G Club, Entry Area Center Floor	12" x 12" Floor Tile Grey Marble	N	F	(12 x 6) (6 x 3) = 420
1462-03-18-39	400 SF	G Club, Floor S of Bar Area	12" x 12" Floor Tile Grey Marble	N	F	
1462-03-18-40	—	G Club, Floor S of Bar Area	12" x 12" Floor Tile Grey Marble	N	F	
1462-03-18-41	6 SF	G Club, Women's Restroom, NE Corridor	Blank Vibration Isolator	N	F	
1462-03-18-42	—	G Club, Women's Restroom, NW Corridor	Blank Vibration Isolator	N	F	
1462-03-18-43	500 SF	G Club, Entry S of Door, SW Corridor	4" Cove Base Black	N	F	
1462-03-18-44	—	G Club, SW Corner	4" Cove Base Black	N	F	
1462-03-18-45	4000 SF	G Club, SW Area Floor at edge of carpet	Tan Carpet Mastic over Black Mastic	N	F	
1462-03-18-46	—	G Club Area NE of Bar in NE corner Floor	Tan Carpet Mastic over Black Mastic	N	F	
1462-03-18-47	10 SF	G Club, SE Utility Room, West Wall	Tan Construction Adhesive	N	G	
1462-03-18-48	—	G Club, SE Utility Room, West Wall	Tan Construction Adhesive	N	G	

THIS IS A CHAIN OF CUSTODY DOCUMENT. PLEASE COMPLETE, SIGN, AND DATE. PLEASE RETURN ORIGINAL TO HELIX ENVIRONMENTAL, INC.

REC'D 1	Relinquished by:	Company:	REC'D 3	Relinquished by:	Company:
REC'D 2	Received by:	Company:	REC'D 4	Relinquished by:	Company:



The Identification Specialists

Analysis Report
prepared for
Helix Environmental Inc

Report Date: 4/2/2026

Project Name: 46 - 46 Wilmington Avenue Dayton, OH

Project #: 7462

SanAir ID#: 26019013



NVLAP LAB CODE 200870-0

10501 Trade Court, North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | LabReports@SanAir.com | SanAir.com



SanAir ID Number

26019013

FINAL REPORT

4/2/2026 10:11:04 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: 46 - 46 Wilmington Avenue Dayton, OH
Collected Date: 3/31/2026
Received Date: 4/1/2026 10:30:00 AM

Dear Benjamin Froehlich,

We at SanAir would like to thank you for the work you recently submitted. The 41 sample(s) were received on Wednesday, April 01, 2026 via FedEx. The final report(s) is enclosed for the following sample(s): 7462-03-31-01, 7462-03-31-02, 7462-03-31-03, 7462-03-31-04, 7462-03-31-05, 7462-03-31-06, 7462-03-31-07, 7462-03-31-08, 7462-03-31-09, 7462-03-31-10, 7462-03-31-11, 7462-03-31-12, 7462-03-31-13, 7462-03-31-14, 7462-03-31-15, 7462-03-31-16, 7462-03-31-17, 7462-03-31-18, 7462-03-31-19, 7462-03-31-20, 7462-03-31-21, 7462-03-31-22, 7462-03-31-23, 7462-03-31-24, 7462-03-31-25, 7462-03-31-26, 7462-03-31-27, 7462-03-31-28, 7462-03-31-29, 7462-03-31-30, 7462-03-31-31, 7462-03-31-32, 7462-03-31-33, 7462-03-31-34, 7462-03-31-35, 7462-03-31-36, 7462-03-31-37, 7462-03-31-38, 7462-03-31-39, 7462-03-31-40, 7462-03-31-41.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino".

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 1 samples in Discrepancy w/ COC condition. (#18)
- 40 samples in Good condition.



SanAir ID Number
26019013
FINAL REPORT
4/2/2026 10:11:04 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: 46 - 46 Wilmington Avenue Dayton, OH
Collected Date: 3/31/2026
Received Date: 4/1/2026 10:30:00 AM

Analyst: Magalis, Lane

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-31-01 / 26019013-001 H, 1st Fl. NW Area, Main North Room, 10' Ht. 2'x4' Ceiling	White Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	None Detected
7462-03-31-02 / 26019013-002 H, 1st Fl., Main Large North Room, NE Area, 10' Ht. 2'x4'	White Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	None Detected
7462-03-31-03 / 26019013-003 H, 1st Fl., Main Large S. Room, E Central Area, 10' Ht	White Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	< 1% Amosite
7462-03-31-04 / 26019013-004 H, 1st Fl., Main Large N. Room, NE Area, 10' Ht. 2'x4'	White Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	< 1% Amosite
7462-03-31-05 / 26019013-005 H 1st Fl., NW Customer Services, E. Central Area, 10' Ht.	White Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	None Detected
7462-03-31-06 / 26019013-006 H, 1st Fl., N. Hallway, West Area, 10' Ht. 2'x4' Ceiling	Yellow Fibrous Homogeneous	98% Glass	2% Other	None Detected
7462-03-31-07 / 26019013-007 H, 1st Fl., N. Hallway, East Area, 10' Ht. 2'x4' Ceiling	Yellow Fibrous Homogeneous	98% Glass	2% Other	None Detected
7462-03-31-08 / 26019013-008 H, 1st Fl., Main Large N. Room, E. Central Area, 10' Ht.	Yellow Fibrous Homogeneous	98% Glass	2% Other	None Detected
7462-03-31-09 / 26019013-009 H, 1st Fl., Main Large N. Room, NE Central Area 10' Ht.	Yellow Fibrous Homogeneous	98% Glass	2% Other	None Detected
7462-03-31-10 / 26019013-010 H, 1st Fl., N. Hallway, NE Central Area, 4.5' Ht. 2'x2'	White Fibrous Homogeneous	20% Cellulose 60% Glass	20% Other	None Detected

Analyst:

Approved Signatory:

Analysis Date: 4/2/2026

Date: 4/2/2026



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Analyst: Magalis, Lane

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-31-11 / 26019013-011 H, 1st Fl., N. Hallway, NE Area, 4' Ht. 2'x4' Ceiling Tile	White Fibrous Homogeneous	20% Cellulose 60% Glass	20% Other	None Detected
7462-03-31-12 / 26019013-012 H, 1st Fl., N. Hallway, NE Area, 4.5' Ht. 2'x4' Ceiling Tile	White Fibrous Homogeneous	40% Cellulose 50% Glass	10% Other	None Detected
7462-03-31-13 / 26019013-013 H Entrance Area Floor, Mastic	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile
7462-03-31-14 / 26019013-014 H South Center Floor, About 6' N Of S. Wall Center Mastic	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile
7462-03-31-15 / 26019013-015 H Elevated Office Floor, Doorway Center At Top Of Steps 2', Tile	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-31-15 / 26019013-015 H Elevated Office Floor, Doorway Center At Top Of Steps 2', Tile	Off-White Non-Fibrous Homogeneous		98% Other	2% Chrysotile
7462-03-31-15 / 26019013-015 H Elevated Office Floor, Doorway Center At Top Of Steps 2', Mastic	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile
7462-03-31-16 / 26019013-016 H Elevated Office Floor, Center E Floor 2' Ht 12"x12" Floor, Tile	Tan Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-31-16 / 26019013-016 H Elevated Office Floor, Center E Floor 2' Ht 12"x12" Floor, Tile	Off-White Non-Fibrous Homogeneous		98% Other	2% Chrysotile
7462-03-31-16 / 26019013-016 H Elevated Office Floor, Center E Floor 2' Ht 12"x12" Floor, Mastic	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile

Analyst:

Approved Signatory:

Analysis Date: 4/2/2026

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Collected Date: 3/31/2026
Received Date: 4/1/2026 10:30:00 AM

Analyst: Magalis, Lane

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-31-17 / 26019013-017 H West Entrance Area, S Of Doors 4' Ht Drywall Joint	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-31-18 / 26019013-018 H EW Wall At Archway NE Corner Of Concrete Column 4' Ht, Plaster	Grey Non-Fibrous Heterogeneous		100% Other	None Detected
7462-03-31-18 / 26019013-018 H EW Wall At Archway NE Corner Of Concrete Column 4' Ht, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-31-19 / 26019013-019 H West Entrance Area, S Of Doors 4' Ht Drywall, Drywall	White Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
7462-03-31-19 / 26019013-019 H West Entrance Area, S Of Doors 4' Ht Drywall, Texture	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-31-20 / 26019013-020 H Center EW Wall Of E Archway 6' Ht Drywall And Joint, Drywall	White Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
7462-03-31-20 / 26019013-020 H Center EW Wall Of E Archway 6' Ht Drywall And Joint, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-31-21 / 26019013-021 H Center E Restrooms, SW Corner 4' Ht Drywall And Joint, Drywall	White Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
7462-03-31-21 / 26019013-021 H Center E Restrooms, SW Corner 4' Ht Drywall And Joint, Joint Compound	Tan Non-Fibrous Homogeneous		98% Other	2% Chrysotile
7462-03-31-22 / 26019013-022 H Center E Restrooms, S Wall By MRR Door 5' H Drywall	White Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected

Analyst:

Approved Signatory:

Analysis Date: 4/2/2026

Date: 4/2/2026



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Project Number: 7462
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Project Name: 46 - 46 Wilmington Avenue Dayton, OH
Collected Date: 3/31/2026
Received Date: 4/1/2026 10:30:00 AM

Analyst: Magalis, Lane

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-31-23 / 26019013-023 H SE Roof Over Compressors 6' Ht Tar Roofing, Tar	Black Non-Fibrous Heterogeneous	3% Cellulose	97% Other	None Detected
7462-03-31-23 / 26019013-023 H SE Roof Over Compressors 6' Ht Tar Roofing, Tar Paper	Black Fibrous Homogeneous	70% Cellulose	30% Other	None Detected
7462-03-31-24 / 26019013-024 H SE Roof Over Compressors 7' Ht Tar Roofing, Tar	Black Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-31-24 / 26019013-024 H SE Roof Over Compressors 7' Ht Tar Roofing, Felt	Black Non-Fibrous Heterogeneous	5% Glass	95% Other	None Detected
7462-03-31-24 / 26019013-024 H SE Roof Over Compressors 7' Ht Tar Roofing, Silver Coat	Silver Non-Fibrous Homogeneous		98% Other	2% Chrysotile
7462-03-31-25 / 26019013-025 H, 1st Fl., N. Hallway, NE Area, 4.5' Ht. 2'x2' Ceiling Tile	Grey Fibrous Homogeneous	60% Cellulose 20% Glass	20% Other	None Detected
7462-03-31-26 / 26019013-026 H, 1st Fl., N. Large N. Room, SW Area, 12' Ht. Cementitious	Grey Non-Fibrous Heterogeneous		100% Other	None Detected
7462-03-31-27 / 26019013-027 H, 1st Fl., N. Hallway, SE Area, 4' Ht. 2'x4' Cementitious	White Non-Fibrous Heterogeneous		85% Other	15% Chrysotile
7462-03-31-28 / 26019013-028 H, 1st Fl., N. Hallway, SE Area, 4' Ht. 1/8" Thick 2'x4'	White Non-Fibrous Heterogeneous		85% Other	15% Chrysotile
7462-03-31-29 / 26019013-029 H, 1st Fl., N. Hallway, SE Area, 4' Ht. 1/8" Thick 2'x4'	White Non-Fibrous Heterogeneous		85% Other	15% Chrysotile

Analyst:

Approved Signatory:

Analysis Date: 4/2/2026

Date: 4/2/2026



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Name: Helix Environmental Inc
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Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: 46 - 46 Wilmington Avenue Dayton, OH
Collected Date: 3/31/2026
Received Date: 4/1/2026 10:30:00 AM

Analyst: Magalis, Lane

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-31-30 / 26019013-030 H, 1st Fl., NW Entry Room, S. Central Area, On Ceiling 10'	White Non-Fibrous Heterogeneous		85% Other	15% Chrysotile
7462-03-31-31 / 26019013-031 H, W Entrance Under Windows At Floor 4" Cove Base And Mastic, Cove Base	Brown Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-31-31 / 26019013-031 H, W Entrance Under Windows At Floor 4" Cove Base And Mastic, Mastic	Brown Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-31-32 / 26019013-032 H Office Area, E Wall At Half Door To Office 4" Cove Base, Cove Base	Brown Non-Fibrous Heterogeneous	40% Cellulose	60% Other	None Detected
7462-03-31-32 / 26019013-032 H Office Area, E Wall At Half Door To Office 4" Cove Base, Mastic	Brown Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-31-33 / 26019013-033 H, Large S Room, West Wall Ctr SW Area V 4" 4" Cove Base, Cove Base	Black Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-31-33 / 26019013-033 H, Large S Room, West Wall Ctr SW Area V 4" 4" Cove Base, Mastic	Brown Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-31-34 / 26019013-034 H, Large S Room, West Wall Ctr 4" Cove Base & Mastic, Cove Base	Black Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-31-34 / 26019013-034 H, Large S Room, West Wall Ctr 4" Cove Base & Mastic, Mastic	Brown Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-31-35 / 26019013-035 H, Large S Room, SW Corner Area At W. Wall 9"x9" Floor Tile, Tile	Beige Non-Fibrous Homogeneous		98% Other	2% Chrysotile

Analyst:

Approved Signatory:

Analysis Date: 4/2/2026

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Project Number: 7462
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Project Name: 46 - 46 Wilmington Avenue Dayton, OH
Collected Date: 3/31/2026
Received Date: 4/1/2026 10:30:00 AM

Analyst: Magalis, Lane

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-31-35 / 26019013-035 H, Large S Room, SW Corner Area At W. Wall 9"x9" Floor Tile, Mastic	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile
7462-03-31-36 / 26019013-036 H, Large S Room, SW Corner Area Ar W Wall South 9"x9" Floor, Tile	Beige Non-Fibrous Homogeneous		98% Other	2% Chrysotile
7462-03-31-36 / 26019013-036 H, Large S Room, SW Corner Area Ar W Wall South 9"x9" Floor, Mastic	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile
7462-03-31-37 / 26019013-037 H, 1st Fl., Large S. Rm., West Wall, S. Central Area 0.5' Ht, Plaster	Grey Non-Fibrous Heterogeneous		100% Other	None Detected
7462-03-31-37 / 26019013-037 H, 1st Fl., Large S. Rm., West Wall, S. Central Area 0.5' Ht, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-31-38 / 26019013-038 H, Large S. Rm, S. Wall, Central Area, 3.5' Ht Hard Plaster, Plaster	Grey Non-Fibrous Heterogeneous		100% Other	None Detected
7462-03-31-38 / 26019013-038 H, Large S. Rm, S. Wall, Central Area, 3.5' Ht Hard Plaster, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-31-39 / 26019013-039 H, 1st Fl., Large N. Rm, S. Wall, West Central Area, At, Plaster	Grey Non-Fibrous Heterogeneous		100% Other	None Detected
7462-03-31-39 / 26019013-039 H, 1st Fl., Large N. Rm, S. Wall, West Central Area, At, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-03-31-40 / 26019013-040 H, 1st Fl., Large N. Rm., West Area, 6' Ht Construction	Brown Non-Fibrous Heterogeneous		100% Other	None Detected

Analyst:

Analysis Date: 4/2/2026

Approved Signatory:

Date: 4/2/2026



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Collected Date: 3/31/2026
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Analyst: Magalis, Lane

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-31-41 / 26019013-041 H, 1st Fl., Large N. Rm., West Area, 4' Ht Construction	Brown Non-Fibrous Heterogeneous		100% Other	None Detected

Analyst:

Approved Signatory:

Analysis Date: 4/2/2026

Date: 4/2/2026

Disclaimer and Additional Information:
Asbestos Bulk PLM EPA 600/R-93/116

This report is the sole property of the client named on the chain-of-custody (COC) submitted to SanAir Technologies Laboratory, Inc. (SanAir). Results in the report are confidential information intended only for the use by the customer listed on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission. The final report shall not be reproduced, except in full, without written approval of the laboratory to assure that parts of the report are not taken out of context. This report and any information contained within shall not be edited, altered, or modified in any way by any persons or agencies receiving, viewing, distributing, or otherwise possessing a copy of this final report. The laboratory reserves the right to perform amendments to any finalized report, of which shall supersede and make obsolete any previous editions. Such changes, modifications, additions, or deletions shall be effective immediately upon notice thereof, which may be given by means including but not limited to posting on the SanAir client portal website, electronic or conventional mail, or by any other means.

The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client on the COC. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition received at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, P.O. number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start-stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted on the report. When the client requires samples to be tested that deviates from a specific method or condition, all reported results may be affected by the deviation. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted.

This report does not constitute nor shall not be used by the client to claim product, process, system, or person certification, approval, or endorsement by NVLAP, NIST, NELAC, AIHA LAP, LLC or any other U.S. governmental agencies; all or some tests contained in this report may not be accredited by every local, state, and federal regulatory agencies. Refer to the SanAir website at www.sanair.com for copies of current certificates and scopes of various accreditations, certifications, and licenses or contact the laboratory for inquiries regarding the status or scope of an accreditation or certification.

Samples are held for a period of 60 days. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations. For NY state samples, method EPA 600/M4-82-020 is performed.

NYELAP Disclaimer:

Polarized-light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Accreditations, Certifications, and Licenses

National Voluntary Laboratory Accreditation Program (NVLAP) Lab Code 200870-0
City of Philadelphia Department of Public Health Air Management Services, Certification#ALL-460
Commonwealth of Pennsylvania Department of Environmental Protection Number 68-05397
California State Environmental Laboratory Accreditation Program Certificate Number 2915
Colorado Department of Public Health and Environment Registration Number AL-23143
Connecticut Department of Public Health Environmental Laboratory Registration Number PH-0105
Massachusetts Department of Labor Standards Asbestos Analytical Services License Number: AA000222
State of Maine Department of Environmental Protection License Number: LB-0075
New York State Department of Health Laboratory ID: 11983
State of Rhode Island Department of Health Certification No.: PLM00126
Texas Department of State Health Services License Number: 300440
Commonwealth of Virginia Department of Professional and Occupational Regulation Number: 3333000323
State of Washington Department of Ecology Laboratory ID: C989
State of West Virginia Bureau for Public Health Analytical Laboratory Number: LT000616
Vermont Department of Health License Number: Asb-Co-An-000006
Louisiana Department of Environmental Quality AI Number 212253, LELAP Lab ID #05088

SanAir ID Number
26019013



Received by MC on 4/17/26 at 10:30 AM

HELIX ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

ES OR NO

LABORATORY: SanAir
DATE SAMPLED: 3/31/2026
DATE REQUIRED: 24 HR TAT
JOB NO./LOCATION: 1462 Dayton OH
CLIENT: App HRC Intertire
BUILDING: 46 - 46 Wilmington Avenue
INSPECTOR: B. Trachlik
JOB NUMBER: 7462

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED:

Asbestos PCM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRABLE/ NON	CONDITION	COMMENTS
1462-03-31-01	48005#	H, 1st Floor, North Room, 10 ft.	2' x 4' Ceiling tile, random holes and gouges	F	F	Throughout N. Hall
1462-03-31-02	-	H, 1st Floor, Main large North Room, NE Area, 10 ft.	2' x 4' Ceiling tile, random holes and gouges	F	F	
1462-03-31-03	-	H, 1st Floor, Main large S. Room, NE Central Area, 10 ft.	2' x 4' Ceiling tile, random holes and gouges	F	F	
1462-03-31-04	1805#	H, 1st Floor, Main large N. Room, NE Area, 10 ft.	2' x 4' Ceiling tile, longways, fissures and holes	F	F	
1462-03-31-05	-	H, 1st Floor, NE Eastside Service, E. Central Area, 10 ft.	2' x 4' Ceiling tile, longways, fissures and holes	F	F	
1462-03-31-06	8403#	H, 1st Floor, N. Hallway, West Area, 10 ft.	2' x 4' Ceiling tile, smooth, with pinholes	F	P	Fiberless
1462-03-31-07	-	H, 1st Floor, N. Hallway, East Area, 10 ft.	2' x 4' Ceiling tile, smooth, with pinholes	F	P	
1462-03-31-08	3205#	H, 1st Floor, Main large N. Room, E. Central Area, 10 ft.	2' x 4' Ceiling tile, rough with pinholes	F	P	
1462-03-31-09	-	H, 1st Floor, Main large N. Room, NE Central Area, 10 ft.	2' x 4' Ceiling tile, rough with pinholes	F	P	Above nothing of
1462-03-31-10	10805#	H, 1st Floor, N. Hallway, NE Central Area, 4.5 ft.	2' x 4' Ceiling tile, rough directional fissures, random	F	F	on pallets / window
1462-03-31-11	-	H, 1st Floor, N. Hallway, NE Area, 4 ft.	2' x 4' Ceiling tile, rough directional fissures, random	F	P	Backlog
1462-03-31-12	435#	H, 1st Floor, N. Hallway, NE Area, 4.5 ft.	2' x 4' Ceiling tile, rough	F	F	

THIS IS A CHAIN OF CUSTODY DOCUMENT. PLEASE COMPLETE, SIGN AND DATE. PLEASE RETURN ORIGINAL TO HELIX ENVIRONMENTAL, INC.

REC'D 1	Relinquished by:	Helix Env, Inc.	Date/Time:	3/31/26, 11:00	REC'D 3	Relinquished by:	Company:	Date/Time:
REC'D 2	Received by:	Company:	Date/Time:		REC'D 4	Relinquished by:	Company:	Date/Time:

SanAir ID Number
26019013

Received by MC on 4/1/26 at 10:30 AM

5 OR NO

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helixenv.com

LABORATORY: SanAir
DATE SAMPLED: 3/31/2026
DATE REQUIRED: 24 HR FAT
JOB NO./LOCATION: 1462 / Dayton OH
CLIENT: App HRC Intestore
BUILDING: 46 - 46 Wilmington Avenue
INSPECTOR: B. Froelich R&F Froelich
JOB NUMBER: 1462

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED:

Asbestos PCM

HEIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
1462-03-31-13	1800 SF	4 Entrance Area Floor,	Black Mastic	N	P	under ex gr floor tiles (missing) throughout
1462-03-31-14	—	4 South Center Floor, about 6' N of S. Wall Center	Black Mastic	N	P	"
1462-03-31-15	90 SF	4 Elevated Office Floor, Dining Center at top of steps	12" x 12" Floor Tiles, Grey Staked over	N	P	White Flooring w/ Black Mastic on Wood
1462-03-31-16	—	4 Elevated Office Floor, Center Floor	12" x 12" Floor Tiles Grey Staked over	N	P	White Flooring w/ Black Mastic on Wood
1462-03-31-17	1000 SF	4 West Entrance Area, S of doors	Original Vinyl Composite	N	F	
1462-03-31-18	—	4 North Wall at E Arcway NE Corner of Concrete Column + 1/4	Original Vinyl Composite	N	F	
1462-03-31-19	1000 SF	4 North Wall at E Arcway NE Corner of Concrete Column + 1/4	Original Vinyl Composite	N	F	
1462-03-31-20	—	4 West Entrance Area, S of doors	Original Vinyl Composite	N	F	
1462-03-31-21	—	4 Center E Restroom, S of doors	Original Vinyl Composite	N	F	
1462-03-31-22	—	4 Center E Restroom, S of doors	Original Vinyl Composite	N	F	
1462-03-31-23	1900 SF	4 SE Roof over compressors	Black Tar Roofing	N	P	
1462-03-31-24	—	4 SE Roof over compressors	Black Tar Roofing	N	P	with Silver Roofing

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REC'D 1 Relinquished by: <u>[Signature]</u>	REC'D 3 Relinquished by: <u>[Signature]</u>	REC'D 4 Relinquished by: <u>[Signature]</u>
Received by: <u>[Signature]</u>	Company: <u>Helix Env. Inc.</u>	Date/Time: <u>3/31/2026</u>

Received by MC on 4/1/26 at 10:30 AM

S OR NO

LABORATORY: Smith
DATE SAMPLED: 3/31/2026
DATE REQUIRED: 2+ HR FAT
JOB NO./LOCATION: 7442 / oysteron OH

BUILDING: 4650 - 4650 17th Avenue
INSPECTOR: B. Froelich RA Froelich
JOB NUMBER: 7462

ANALYSES REQUESTED:

Abstracts PCM

HELM SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
1462-03-31-25	4 SF	H, 1st Fl, N. Hallway, NE Area, 4.5 Fl.	2' x 2' Ceiling tile rough, brown	F	F	Non-Aluminized
1462-03-31-26	16 SF	H, 1st Fl, N. Hallway, SE Area, 1.5 Fl.	2' x 4' Ceiling tile rough, brown	N	F	Correct roof pitch
1462-03-31-27	16 SF	H, 1st Fl, N. Hallway, SE Area, 4.5 Fl.	2' x 4' Ceiling tile rough, brown	N	F	Correct roof pitch
1462-03-31-28	4 SF	H, 1st Fl, N. Hallway, SE Area, 4.5 Fl.	1' x 6' Ceiling tile rough, brown	N	F	2' x 4' = 5 x 8 = 40 2 x 3 = 12 x 6 = 72
1462-03-31-29	4 SF	H, 1st Fl, N. Hallway, SE Area, 4.5 Fl.	1' x 6' Ceiling tile rough, brown	N	F	
1462-03-31-30	4 SF	H, 1st Fl, N. Hallway, SE Area, 10 Fl.	1' x 6' Ceiling tile rough, brown	N	F	
1462-03-31-31	60 SF	H, 1st Fl, N. Hallway, SE Area, 10 Fl.	1' x 6' Ceiling tile rough, brown	N	F	180 L x 1/3 = 60 SF
1462-03-31-32	—	H, 1st Fl, N. Hallway, SE Area, 10 Fl.	1' x 6' Ceiling tile rough, brown	N	F	
1462-03-31-33	35 SF	H, 1st Fl, N. Hallway, SE Area, 10 Fl.	1' x 6' Ceiling tile rough, brown	N	F	100 L x 1/3 = 33 SF
1462-03-31-34	—	H, 1st Fl, N. Hallway, SE Area, 10 Fl.	1' x 6' Ceiling tile rough, brown	N	F	
1462-03-31-35	1 SF	H, 1st Fl, N. Hallway, SE Area, 10 Fl.	1' x 6' Ceiling tile rough, brown	N	F	
1462-03-31-36	—	H, 1st Fl, N. Hallway, SE Area, 10 Fl.	1' x 6' Ceiling tile rough, brown	N	F	

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REC'D 4	Relinquished by:	Company:	Date/Time:

SanAir ID Number
26019013

Received by MC on 4/1/26 at 10:30 AM

ES OR (NO)

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

LABORATORY: SanAir
DATE SAMPLED: 3/31/2026
DATE REQUIRED: 24 HR TAT
JOB NO./LOCATION: 1462 (Dayton, OH)
CLIENT: App H/Culture
BUILDING: 46 - 46 Wilmington Avenue
INSPECTOR: B. Truelick
JOB NUMBER: 1462

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED:

Asbestos PCM

HELM SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRIBBLE/ NON	CONDITION	COMMENTS
1462-03-31-37		H, 1st Fl, Large S. Entry, West Wall, 5' 0.5' W	Hard Plaster and Skin	N	F	
1462-03-31-38		H, Large S. Entry S. Wall, Central Area, 3.5' W	Hard Plaster and Skin	N	P	
1462-03-31-39		H, 1st Fl, Large N. Entry S. Wall, West end of Area, 5' W	Hard Plaster and Skin	N	F	
1462-03-31-40	20 g	H, 1st Fl, Large N. Entry, West end of Area, 6' W	Brown construction adhesive	N	F	
1462-03-31-41		H, 1st Fl, Large N. Entry, West end of Area, 4' W	Brown construction adhesive	N	F	
1462-03-31-						
1462-03-31-						
1462-03-31-						
1462-03-31-						
1462-03-31-						
1462-03-31-						
1462-03-31-						

THIS IS A CHAIN OF CUSTODY DOCUMENT. PLEASE COMPLETE, SIGN AND DATE. PLEASE RETURN ORIGINAL TO HELIX ENVIRONMENTAL, INC.

REC'D 1	Relinquished by: <u>[Signature]</u>	Company: <u>Helix Environmental, Inc.</u>	Date/Time: <u>3/31/2026 1:00</u>	REC'D 3	Relinquished by:	Company:	Date/Time:
REC'D 2	Received by:	Company:	Date/Time:	REC'D 4	Relinquished by:	Company:	Date/Time:



The Identification Specialists

Analysis Report
prepared for
Helix Environmental Inc

Report Date: 4/6/2026

Project Name: 7462 Dayton Ohio

Project #: 7462

SanAir ID#: 26019631



NVLAP LAB CODE 200870-0

10501 Trade Court, North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | LabReports@SanAir.com | SanAir.com



SanAir ID Number
26019631
FINAL REPORT
4/6/2026 12:49:23 PM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: 7462 Dayton Ohio
Collected Date: 4/2/2026
Received Date: 4/3/2026 10:20:00 AM

Dear Benjamin Froehlich,

We at SanAir would like to thank you for the work you recently submitted. The 12 sample(s) were received on Friday, April 03, 2026 via FedEx. The final report(s) is enclosed for the following sample(s): 7462-04-02-01, 7462-04-02-02, 7462-04-02-03, 7462-04-02-04, 7462-04-02-05, 7462-04-02-06, 7462-04-02-07, 7462-04-02-08, 7462-04-02-09, 7462-04-02-10, 7462-04-02-11, 7462-04-02-12.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino". The signature is written in a cursive, flowing style.

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 12 samples in Good condition.



SanAir ID Number
26019631
FINAL REPORT
4/6/2026 12:49:23 PM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: 7462 Dayton Ohio
Collected Date: 4/2/2026
Received Date: 4/3/2026 10:20:00 AM

Analyst: Drakes, Renaldo

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-04-02-01 / 26019631-001 H 1st Fl NW Entrance Lobby N Wall Center, Tile	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-04-02-01 / 26019631-001 H 1st Fl NW Entrance Lobby N Wall Center, Grout	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-04-02-01 / 26019631-001 H 1st Fl NW Entrance Lobby N Wall Center, Mortar	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-04-02-02 / 26019631-002 H 1st Fl NW Entrance Lobby N Wall Center, Tile	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-04-02-02 / 26019631-002 H 1st Fl NW Entrance Lobby N Wall Center, Grout	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-04-02-02 / 26019631-002 H 1st Fl NW Entrance Lobby N Wall Center, Mortar	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-04-02-03 / 26019631-003 H 1st Fl NW Entrance Lobby S Control Area	Brown Non-Fibrous Homogeneous		100% Other	None Detected
7462-04-02-04 / 26019631-004 H 1st Fl NW Entrance Lobby S Control Area	Brown Non-Fibrous Homogeneous		100% Other	None Detected
7462-04-02-05 / 26019631-005 H 1st Fl Mens Restroom E Control Area At Wall, Tile	Blue Non-Fibrous Homogeneous		100% Other	None Detected
7462-04-02-05 / 26019631-005 H 1st Fl Mens Restroom E Control Area At Wall, Grout	White Non-Fibrous Homogeneous		100% Other	None Detected

Analyst:

Approved Signatory:

Analysis Date: 4/6/2026

Date: 4/6/2026



SanAir ID Number
26019631
FINAL REPORT
4/6/2026 12:49:23 PM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: 7462 Dayton Ohio
Collected Date: 4/2/2026
Received Date: 4/3/2026 10:20:00 AM

Analyst: Drakes, Renaldo

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-04-02-05 / 26019631-005 H 1st Fl Mens Restroom E Control Area At Wall, Cement	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-04-02-06 / 26019631-006 H 1st Fl Mens Restroom E Control Area At Wall	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-04-02-07 / 26019631-007 H 1st Fl Mens Restroom W Wall Center, Tile	Blue Non-Fibrous Homogeneous		100% Other	None Detected
7462-04-02-07 / 26019631-007 H 1st Fl Mens Restroom W Wall Center, Grout	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-04-02-08 / 26019631-008 H 1st Fl Womens Restroom East Wall S Control Area, Tile	Pink Non-Fibrous Homogeneous		100% Other	None Detected
7462-04-02-08 / 26019631-008 H 1st Fl Womens Restroom East Wall S Control Area, Grout	White Non-Fibrous Homogeneous		100% Other	None Detected
7462-04-02-08 / 26019631-008 H 1st Fl Womens Restroom East Wall S Control Area, Mortar	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-04-02-09 / 26019631-009 H 1st Fl Mens Restroom West Wall S Control Area Inside Wall	Black Non-Fibrous Homogeneous	15% Cellulose	85% Other	None Detected
7462-04-02-10 / 26019631-010 H 1st Fl Mens Restroom West Wall Center Inside Wall	Black Fibrous Heterogeneous	45% Cellulose	55% Other	None Detected
7462-04-02-11 / 26019631-011 H 1st Fl SE Storage Rm NE Area In Tile	White Fibrous Homogeneous	45% Cellulose 35% Glass	20% Other	None Detected

Analyst:

Approved Signatory:

Analysis Date: 4/6/2026

Date: 4/6/2026



SanAir ID Number
26019631
FINAL REPORT
4/6/2026 12:49:23 PM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: 7462 Dayton Ohio
Collected Date: 4/2/2026
Received Date: 4/3/2026 10:20:00 AM

Analyst: Drakes, Renaldo

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-04-02-12 / 26019631-012 H 1st FL SE Storagae Rm NE AREa In Tile	White Fibrous Homogeneous	45% Cellulose 35% Glass	20% Other	None Detected

Analyst:

Approved Signatory:

Analysis Date:

4/6/2026

Date:

4/6/2026

Disclaimer and Additional Information:
Asbestos Bulk PLM EPA 600/R-93/116

This report is the sole property of the client named on the chain-of-custody (COC) submitted to SanAir Technologies Laboratory, Inc. (SanAir). Results in the report are confidential information intended only for the use by the customer listed on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission. The final report shall not be reproduced, except in full, without written approval of the laboratory to assure that parts of the report are not taken out of context. This report and any information contained within shall not be edited, altered, or modified in any way by any persons or agencies receiving, viewing, distributing, or otherwise possessing a copy of this final report. The laboratory reserves the right to perform amendments to any finalized report, of which shall supersede and make obsolete any previous editions. Such changes, modifications, additions, or deletions shall be effective immediately upon notice thereof, which may be given by means including but not limited to posting on the SanAir client portal website, electronic or conventional mail, or by any other means.

The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client on the COC. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition received at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, P.O. number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start-stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted on the report. When the client requires samples to be tested that deviates from a specific method or condition, all reported results may be affected by the deviation. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted.

This report does not constitute nor shall not be used by the client to claim product, process, system, or person certification, approval, or endorsement by NVLAP, NIST, NELAC, AIHA LAP, LLC or any other U.S. governmental agencies; all or some tests contained in this report may not be accredited by every local, state, and federal regulatory agencies. Refer to the SanAir website at www.sanair.com for copies of current certificates and scopes of various accreditations, certifications, and licenses or contact the laboratory for inquiries regarding the status or scope of an accreditation or certification.

Samples are held for a period of 60 days. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations. For NY state samples, method EPA 600/M4-82-020 is performed.

NYELAP Disclaimer:

Polarized-light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Accreditations, Certifications, and Licenses

National Voluntary Laboratory Accreditation Program (NVLAP) Lab Code 200870-0
City of Philadelphia Department of Public Health Air Management Services, Certification#ALL-460
Commonwealth of Pennsylvania Department of Environmental Protection Number 68-05397
California State Environmental Laboratory Accreditation Program Certificate Number 2915
Colorado Department of Public Health and Environment Registration Number AL-23143
Connecticut Department of Public Health Environmental Laboratory Registration Number PH-0105
Massachusetts Department of Labor Standards Asbestos Analytical Services License Number: AA000222
State of Maine Department of Environmental Protection License Number: LB-0075
New York State Department of Health Laboratory ID: 11983
State of Rhode Island Department of Health Certification No.: PLM00126
Texas Department of State Health Services License Number: 300440
Commonwealth of Virginia Department of Professional and Occupational Regulation Number: 3333000323
State of Washington Department of Ecology Laboratory ID: C989
State of West Virginia Bureau for Public Health Analytical Laboratory Number: LT000616
Vermont Department of Health License Number: Asb-Co-An-000006
Louisiana Department of Environmental Quality AI Number 212253, LELAP Lab ID #05088

HELIXXXXXX

ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

RUSH - YES OR NO

LABORATORY: San Air
DATE SAMPLED: 4/2/2026
DATE REQUIRED: 24 APR TAT
JOB NO./LOCATION: 7462 / Dayton Ohio
CLIENT: Agg Architecture
BUILDING: 1650 Wilmington Pike,
INSPECTOR: Ben Freshlund
JOB NUMBER: 7462

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED:

Asbestos PLM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	RIABLE/ NON	CONDITION	COMMENTS
7462-04-02-01	240 SF	H, 1st Fl, NW Entrance Lobby, N. wall, 2.5 ft. H.	Thinset mortar and grout	N	G	
7462-04-02-02	-	H, 1st Fl, NW Entrance lobby, N. wall, 5 ft. H.	Thin set mortar and grout	N	G	
7462-04-02-03	200 SF	H, 1st Fl, NW Entrance lobby, N. wall, 5 ft. H.	Dark brown grout	N	F	under brick cement tile
7462-04-02-04	-	H, 1st Fl, NW Entrance lobby, S. Central Area, At entrance to grocery, 0 ft. H.	Dark brown grout	N	G	
7462-04-02-05	100 SF	H, 1st Fl, NW Entrance lobby, S. Central Area, At wall	Thinset mortar and grout on floor tile	N	F	
7462-04-02-06	-	H, 1st Fl, NW Entrance lobby, S. Central Area, At wall	Thinset mortar and grout on floor tile	N	F	
7462-04-02-07	300 SF	H, 1st Fl, NW Entrance lobby, S. Central Area, At wall	Thinset mortar and grout on floor tile	N	F	
7462-04-02-08	-	H, 1st Fl, NW Entrance lobby, S. Central Area, At wall	Thinset mortar and grout on floor tile	N	F	
7462-04-02-09	200 SF	H, 1st Fl, NW Entrance lobby, S. Central Area, At wall	Thinset mortar and grout on floor tile	N	F	both sides of wall
7462-04-02-10	-	H, 1st Fl, NW Entrance lobby, S. Central Area, At wall	Thinset mortar and grout on floor tile	N	F	
7462-04-02-11	600 SF	H, 1st Fl, NW Entrance lobby, S. Central Area, At wall	Thinset mortar and grout on floor tile	N	F	in a huge pile
7462-04-02-12	-	H, 1st Fl, NW Entrance lobby, S. Central Area, At wall	Thinset mortar and grout on floor tile	N	F	

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REC'D 1	Relinquished by:	Company:	Date/Time:	REC'D 3	Relinquished by:	Company:	Date/Time:
REC'D 2	Received by:	Company:	Date/Time:	REC'D 4	Relinquished by:	Company:	Date/Time:

SanAir ID Number
26019631





The Identification Specialists

Analysis Report
prepared for
Helix Environmental Inc

Report Date: 5/4/2026

Project Name: 4614-4650 Wilmington Pike

Project #: 7462

SanAir ID#: 26025788



NVLAP LAB CODE 200870-0

10501 Trade Court, North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | LabReports@SanAir.com | SanAir.com



SanAir ID Number

26025788

FINAL REPORT

5/4/2026 9:53:13 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: 4614-4650 Wilmington Pike
Collected Date: 4/30/2026
Received Date: 5/1/2026 10:30:00 AM

Dear Benjamin Froehlich,

We at SanAir would like to thank you for the work you recently submitted. The 18 sample(s) were received on Friday, May 01, 2026 via FedEx. The final report(s) is enclosed for the following sample(s): 7462-04-30-01, 7462-04-30-02, 7462-04-30-03, 7462-04-30-04, 7462-04-30-05, 7462-04-30-06, 7462-04-30-07, 7462-04-30-08, 7462-04-30-09, 7462-04-30-10, 7462-04-30-11, 7462-04-30-12, 7462-04-30-13, 7462-04-30-14, 7462-04-30-15, 7462-04-30-16, 7462-04-30-17, 7462-04-30-18.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino". The signature is written in a cursive, flowing style.

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 18 samples in Good condition.



SanAir ID Number
26025788
FINAL REPORT
5/4/2026 9:53:13 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: 4614-4650 Wilmington Pike
Collected Date: 4/30/2026
Received Date: 5/1/2026 10:30:00 AM

Analyst: Hogrefe, Sarah

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-04-30-01 / 26025788-001 Roofing H Grocery Roof, Parapet Wall, Wall, N. Side, West, Coating	Silver Non-Fibrous Homogeneous		100% Other	None Detected
7462-04-30-01 / 26025788-001 Roofing H Grocery Roof, Parapet Wall, Wall, N. Side, West, Felt	Black Fibrous Homogeneous	75% Glass	25% Other	None Detected
7462-04-30-02 / 26025788-002 Roofing H Grocery Roof, Parapet Wall S. Side, West Area, Coating	Silver Non-Fibrous Homogeneous		100% Other	None Detected
7462-04-30-02 / 26025788-002 Roofing H Grocery Roof, Parapet Wall S. Side, West Area, Felt	Black Fibrous Homogeneous	75% Glass	25% Other	None Detected
7462-04-30-03 / 26025788-003 Roof Insulation Built Up Roof Bituminous H Grocery Roof, SE, Insulation	Brown Fibrous Homogeneous	99% Cellulose	1% Other	None Detected
7462-04-30-03 / 26025788-003 Roof Insulation Built Up Roof Bituminous H Grocery Roof, SE, Tar Paper	Black Fibrous Homogeneous	50% Glass	50% Other	None Detected
7462-04-30-04 / 26025788-004 Roof Insulation Bituminous Built Up Roof H Grocery Roof, NW, Insulation	Brown Fibrous Homogeneous	99% Cellulose	1% Other	None Detected
7462-04-30-04 / 26025788-004 Roof Insulation Bituminous Built Up Roof H Grocery Roof, NW, Tar Paper	Black Fibrous Homogeneous	50% Glass	50% Other	None Detected
7462-04-30-05 / 26025788-005 Roof Patching Compound H Grocery Roof, NE Area, On Duct	Silver Non-Fibrous Heterogeneous		97% Other	3% Chrysotile

Analyst:

Approved Signatory:

Analysis Date: 5/4/2026

Date: 5/4/2026



SanAir ID Number
26025788
FINAL REPORT
5/4/2026 9:53:13 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
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Project Number: 7462
P.O. Number:
Project Name: 4614-4650 Wilmington Pike
Collected Date: 4/30/2026
Received Date: 5/1/2026 10:30:00 AM

Analyst: Hogrefe, Sarah

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-04-30-06 / 26025788-006 Roof Patching Compound H, Grocery, SE Area, On Exhaust Duct	Silver Non-Fibrous Heterogeneous		97% Other	3% Chrysotile
7462-04-30-07 / 26025788-007 Bituminous Roofing, Seam Sealant B Grocery Roof, NW Area, Shingle	Black Non-Fibrous Heterogeneous	10% Synthetic	90% Other	None Detected
7462-04-30-07 / 26025788-007 Bituminous Roofing, Seam Sealant B Grocery Roof, NW Area, Sealant	Black Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
7462-04-30-08 / 26025788-008 Bituminous Roofing, Seam Sealant H Grocery Roof, S. Parapet, Shingle	Black Non-Fibrous Heterogeneous	10% Synthetic	90% Other	None Detected
7462-04-30-08 / 26025788-008 Bituminous Roofing, Seam Sealant H Grocery Roof, S. Parapet, Sealant	Black Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
7462-04-30-09 / 26025788-009 Built Up Bituminous Roofing H Grocery Roof, N. Area, SE Area	Black Non-Fibrous Heterogeneous	20% Glass	80% Other	None Detected
7462-04-30-10 / 26025788-010 Bituminous Built Up Roofing B, SW Area, Tar	Black Non-Fibrous Heterogeneous	20% Glass	80% Other	None Detected
7462-04-30-10 / 26025788-010 Bituminous Built Up Roofing B, SW Area, Cement	Grey Non-Fibrous Heterogeneous		100% Other	None Detected
7462-04-30-11 / 26025788-011 Sheet Metal Sealant B, NW Area, North Parapet Wall, E. Area	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-04-30-12 / 26025788-012 Sheet Metal Sealant NW Area, NW Corner, On Top Of Parapet	Grey Non-Fibrous Homogeneous		100% Other	None Detected

Analyst:

Approved Signatory:

Analysis Date: 5/4/2026

Date: 5/4/2026



SanAir ID Number
26025788
FINAL REPORT
5/4/2026 9:53:13 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: 4614-4650 Wilmington Pike
Collected Date: 4/30/2026
Received Date: 5/1/2026 10:30:00 AM

Analyst: Hogrefe, Sarah

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-04-30-13 / 26025788-013 Exterior Caulk D Rear Door	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-04-30-14 / 26025788-014 Exterior Caulk H Rear Door	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-04-30-15 / 26025788-015 Exterior Caulk D Storefront, N Edge Of Window Front	Grey Non-Fibrous Homogeneous		100% Other	None Detected
7462-04-30-16 / 26025788-016 Exterior Caulk H Grocery, Entrance Corner	Grey Non-Fibrous Homogeneous		100% Other	< 1% Chrysotile
7462-04-30-17 / 26025788-017 Exterior Caulk H Grocery, Front Covered Window, S Edge	Brown Non-Fibrous Homogeneous		100% Other	None Detected
7462-04-30-18 / 26025788-018 Exterior Caulk H Grocery, Front Covered Window S Edge	Brown Non-Fibrous Homogeneous		100% Other	None Detected

Analyst:

Approved Signatory:

Analysis Date: 5/4/2026

Date: 5/4/2026

Disclaimer and Additional Information:
Asbestos Bulk PLM EPA 600/R-93/116

This report is the sole property of the client named on the chain-of-custody (COC) submitted to SanAir Technologies Laboratory, Inc. (SanAir). Results in the report are confidential information intended only for the use by the customer listed on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission. The final report shall not be reproduced, except in full, without written approval of the laboratory to assure that parts of the report are not taken out of context. This report and any information contained within shall not be edited, altered, or modified in any way by any persons or agencies receiving, viewing, distributing, or otherwise possessing a copy of this final report. The laboratory reserves the right to perform amendments to any finalized report, of which shall supersede and make obsolete any previous editions. Such changes, modifications, additions, or deletions shall be effective immediately upon notice thereof, which may be given by means including but not limited to posting on the SanAir client portal website, electronic or conventional mail, or by any other means.

The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client on the COC. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition received at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, P.O. number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start-stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted on the report. When the client requires samples to be tested that deviates from a specific method or condition, all reported results may be affected by the deviation. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted.

This report does not constitute nor shall not be used by the client to claim product, process, system, or person certification, approval, or endorsement by NVLAP, NIST, NELAC, AIHA LAP, LLC or any other U.S. governmental agencies; all or some tests contained in this report may not be accredited by every local, state, and federal regulatory agencies. Refer to the SanAir website at www.sanair.com for copies of current certificates and scopes of various accreditations, certifications, and licenses or contact the laboratory for inquiries regarding the status or scope of an accreditation or certification.

Samples are held for a period of 60 days. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations. For NY state samples, method EPA 600/M4-82-020 is performed.

NYELAP Disclaimer:

Polarized-light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Accreditations, Certifications, and Licenses

National Voluntary Laboratory Accreditation Program (NVLAP) Lab Code 200870-0
City of Philadelphia Department of Public Health Air Management Services, Certification#ALL-460
Commonwealth of Pennsylvania Department of Environmental Protection Number 68-05397
California State Environmental Laboratory Accreditation Program Certificate Number 2915
Colorado Department of Public Health and Environment Registration Number AL-23143
Connecticut Department of Public Health Environmental Laboratory Registration Number PH-0105
Massachusetts Department of Labor Standards Asbestos Analytical Services License Number: AA000222
State of Maine Department of Environmental Protection License Number: LB-0075
New York State Department of Health Laboratory ID: 11983
State of Rhode Island Department of Health Certification No.: PLM00126
Texas Department of State Health Services License Number: 300440
Commonwealth of Virginia Department of Professional and Occupational Regulation Number: 3333000323
State of Washington Department of Ecology Laboratory ID: C989
State of West Virginia Bureau for Public Health Analytical Laboratory Number: LT000616
Vermont Department of Health License Number: Asb-Co-An-000006
Louisiana Department of Environmental Quality AI Number 212253, LELAP Lab ID #05088

HELIXXXXXX

ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

LABORATORY: SanAir
DATE SAMPLED: 4/30/26
DATE REQUIRED: 24th MAY
JOB NO./LOCATION: 7462 / Dayton, OH
CLIENT: APR Architecture
BUILDING: 4614 → 4650 Wilmington Pike
INSPECTOR: B. French
JOB NUMBER: 7462

RUSH - YES OR NO ☒ YES

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED: Asbestos PLM

HEIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
7462-04-30-01		H Grocery Roof Para pet wall, Wld, N. side, West Area, 1.5 ft	Silverized Black Roofing	N	F	
7462-04-30-02		H Grocery Roof, Para pet wall, S. side, West Area, 1.5 ft	Silverized Black Roofing	N	F	2' around 2 sides
7462-04-30-03		H Grocery Roof, 1st Central Area, 0 ft	Brown Roof Insulation, Built up roof, 1st Central Area, 0 ft	N	F	
7462-04-30-04		H Grocery Roof, NW Central Area, 0 ft	Brown Roof Insulation, Built up roof, 1st Central Area, 0 ft	N	F	
7462-04-30-05		H Grocery Roof, NE Area, on West End, 1 ft	Black Roof Patching Compound	N	F	
7462-04-30-06		H, Grocery, 1st Area, on West End, 0.5 ft	Black Roof Patching Compound	N	F	
7462-04-30-07		H, Grocery, 1st Area, on West End, 0.5 ft	Black Roof Patching Compound	N	F	
7462-04-30-08		H Grocery Roof, S. Parapet Wall, West End, 2.5 ft	Black Roof Patching Compound	N	F	
7462-04-30-09		H Grocery Roof, N. Area, 2.5 ft	Black Roof Patching Compound	N	F	
7462-04-30-10		B, SW Area, 0 ft	Black Roof Patching Compound	N	F	
7462-04-30-11		B, NW Area, North Parapet Wall, E. Area, on West End, 3.5 ft	Black Roof Patching Compound	N	F	
7462-04-30-12		B, South Parapet Wall, NW Area, NW Corner, on 1st of Parapet wall, 4 ft	Black Roof Patching Compound	N	F	

THIS IS A CHAIN OF CUSTODY DOCUMENT. PLEASE COMPLETE, SIGN, AND DATE. PLEASE RETURN ORIGINAL TO HELIX ENVIRONMENTAL, INC.

REC'D 1	Relinquished by: <u>Bon French</u>	Company: <u>Helix Env, Inc.</u>	Date/Time: <u>4/30/26 18:00</u>	REC'D 3	Relinquished by:	Company:	Date/Time:
REC'D 2	Received by:	Company:	Date/Time:	REC'D 4	Relinquished by:	Company:	Date/Time:

SanAir ID Number
26025788



HELIXXXXXX

ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

RUSH - YES OR NO ☒

LABORATORY: Smith
DATE SAMPLED: 4/30/26
DATE REQUIRED: 24 Hr. TAT
JOB NO./LOCATION: 7462 / Dayton, OH
CLIENT: APL Architecture
BUILDING: 4614 - 4650 Wilmington Pike
INSPECTOR: B. French
JOB NUMBER: 7462

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED:

Asbestos PLM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
7462-04-30-13	17LF 25F	D Rear Door	Gray Exterior Caulk	N	G	17LF x 0.25" x 12" = 51"
7462-04-30-14	18LF 25F	H Rear Door	Gray Exterior Caulk	N	F	
7462-04-30-15	105F 60LF	D Storefront, N Edge of Window	Gray Exterior Caulk	N	G	60' x 0.25" x 12" = 120" = 10'
7462-04-30-16	245F 100LF	H Grocery, Entrance Corner	Gray Exterior Caulk	N	F	100' x 0.25" x 12" = 300" = 24'
7462-04-30-17	35F 10LF	H Grocery, Front Covered Window	Gray Exterior Caulk	N	F	10' x 0.25" x 12" = 30" = 3'
7462-04-30-18	4	H Grocery, Front Covered Window	Brown Exterior Caulk	N	F	Top, Bottom & N Edge covered by wood siding
7462-04-30-						
7462-04-30-						
7462-04-30-						
7462-04-30-						
7462-04-30-						
7462-04-30-						

THIS IS A CHAIN OF CUSTODY DOCUMENT. PLEASE COMPLETE, SIGN, AND DATE. PLEASE RETURN ORIGINAL TO HELIX ENVIRONMENTAL, INC.

Requested by: <u>B. French</u>	Company: <u>Helix Env, Inc.</u>	Date/Time: <u>4/30/26</u>	Requested by: <u></u>	Company: <u></u>
Received by: <u></u>	Company: <u></u>	Date/Time: <u></u>	Requested by: <u></u>	Company: <u></u>

SanAir ID Number
26025788



The Identification Specialists

Analysis Report
prepared for
Helix Environmental Inc

Report Date: 3/25/2026

Project Name: App Architecture, 4620 Wilmington Ave

Project #: 7462

SanAir ID#: 26016458



NVLAP LAB CODE 200870-0

10501 Trade Court, North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | LabReports@SanAir.com | SanAir.com



SanAir ID Number

26016458

FINAL REPORT

3/25/2026 10:35:00 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: App Architecture, 4620 Wilmington Ave
Collected Date: 3/17/2026
Received Date: 3/23/2026 10:00:00 AM

Dear Benjamin Froehlich,

We at SanAir would like to thank you for the work you recently submitted. The 6 sample(s) were received on Monday, March 23, 2026 via Fax or Email request. The final report(s) is enclosed for the following sample(s): 7462-03-17-38, 7462-03-17-50, 7462-03-17-53, 7462-03-17-61, 7462-03-17-71, 7462-03-17-72.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino". The signature is written in a cursive, flowing style.

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 6 samples in Good condition.



SanAir ID Number

26016458

FINAL REPORT

3/25/2026 10:35:00 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462**P.O. Number:****Project Name:** App Architecture, 4620 Wilmington Ave**Collected Date:** 3/17/2026**Received Date:** 3/23/2026 10:00:00 AM

Analyst: Pisula, Nicholas

Asbestos Bulk EPA PLM 400 Point Count

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-17-38 / 26016458-001 Window Glazing Compound, 1st Fl, SE Bathroom, E Wall, Center	Grey Non-Fibrous Homogeneous		100% Other	< 0.25% Chrysotile
7462-03-17-50 / 26016458-002 Drywall & Joint Compound, C, NE Rm, S Wall, Joint Comp Only, Joint Compound	Tan Non-Fibrous Homogeneous		95.5% Other	4.5% Chrysotile
7462-03-17-53 / 26016458-003 Texturized Hard Plaster and Skim Coat, C, West Rm, N Wall, Texture	White Non-Fibrous Homogeneous		100% Other	< 0.25% Chrysotile
7462-03-17-61 / 26016458-004 Window Glazing Compound, C Bathroom (NE) Window	Grey Non-Fibrous Homogeneous		99.25% Other	0.75% Chrysotile
7462-03-17-71 / 26016458-005 Drywall & Joint Compound, D, Restroom, Joint Compound Only, Joint Compound	Tan Non-Fibrous Homogeneous		95.75% Other	4.25% Chrysotile
7462-03-17-72 / 26016458-006 Texturized Drywall & Joint Compound, D, Restroom, Joint Comp, Joint Compound	Tan Non-Fibrous Homogeneous		97% Other	3% Chrysotile

Analyst:

Approved Signatory:

Analysis Date: 3/25/2026

Date: 3/25/2026

Disclaimer and Additional Information:
400 Point Count Method EPA 600/R-93/116

EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of
Asbestos in Bulk Insulation Samples

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

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Asbestos Accreditations, Certifications, and Licenses

National Voluntary Laboratory Accreditation Program (NVLAP) Lab Code 200870-0
City of Philadelphia Department of Public Health Air Management Services, Certification#ALL-460
Commonwealth of Pennsylvania Department of Environmental Protection Number 68-05397
California State Environmental Laboratory Accreditation Program Certificate Number 2915
Colorado Department of Public Health and Environment Registration Number AL-23143
Connecticut Department of Public Health Environmental Laboratory Registration Number PH-0105
Massachusetts Department of Labor Standards Asbestos Analytical Services License Number: AA000222
State of Maine Department of Environmental Protection License Number: LB-0075
New York State Department of Health Laboratory ID: 11983
State of Rhode Island Department of Health Certification No.: PLM00126
Texas Department of State Health Services License Number: 300440
Commonwealth of Virginia Department of Professional and Occupational Regulation Number: 3333000323
State of Washington Department of Ecology Laboratory ID: C989
State of West Virginia Bureau for Public Health Analytical Laboratory Number: LT000616
Vermont Department of Health License Number: Asb-Co-An-000006
Louisiana Department of Environmental Quality AI Number 212253, LELAP Lab ID #05088

26016458

From: Benjamin Froehlich <helix@helixenv.com>
Sent: Friday, March 20, 2026 4:38 PM
To: Lab Reports <labreports@sanair.com>
Subject: Re: Analysis Report for Job 26015698 is complete.

EXTERNAL EMAIL: DO NOT CLICK on links or attachments unless you recognize the sender and know the content is safe.

Hello,

May I have 48 hour turn-around EPA 400 point counts of the following samples?

-7462-03-17-38 (26015698-038)
 -7462-03-17-50 (26015698-050), joint compound only
 -7462-03-17-53 (26015698-053)
 -7462-03-17-61 (26015698-061)
 -7462-03-17-71 (26015698-071), joint compound only
 -7462-03-17-72 (26015698-072), joint compound only

Thanks,

Ben Froehlich
 Helix Environmental, Inc.
 (937) 226-0650

> On Mar 19, 2026, at 2:33 PM, SanAir Technologies Laboratory <labreports@sanair.com> wrote:

>

> ***IMPORTANT NOTICE***

> Beginning June 2, 2025, our selected shipping provider will be FedEx. Please visit our website for full details: https://urldefense.proofpoint.com/v2/url?u=https-3A_www.sanair.com_sanair-2Dswitching-2Dto-2Dfedex-2Deffective-2Djune-2D2_&d=DwlFAg&c=euGZstcaTDllvimEN8b7jXrwqOf-v5A_CdpgnVfiiMM&r=kmsHUf915vfjnsrzvBvAxeT6WeBZvbyJb88SYXE3ull&m=dhRpSdaxzli3cibkhxpNal2cDM6NCQNJt8_X-DHm3p-y2uQq_1b7aJaseV1oc2m4&s=sD6UDRZ9jCYGxic9T5YraobRDJtWzWcBwBTiYAekL9U&e=

>

> Your Analysis is complete. Your report in PDF format is attached. Information is periodically added to our additional information and disclaimer pages so please check them for updates.

>

> Thank you for your continued business, SanAir

>

> The information in this message may contain confidential information intended for use by the recipient only. If this information was received in error, please reply to the message and delete it.

>

> <26015698_App Architecture_202631914338.pdf>

RUB MAR 23 2026 10:00am

HELIX ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

RUSH - YES NO
SanAir ID Number
PLM 26015698
Received by KM on 3/18/26 at 10:25 AM

LABORATORY: SAN AIR
DATE SAMPLED: 3/17/2026
DATE REQUIRED: 24 TH TH
D/LOCATION: 1462 Dayton, OH
CLIENT: Any Architecture
BUILDING: 4000 Wilmington Pike
INSPECTOR: B. Freedland, RA Freedland
JOB NUMBER: 7462

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED: Asbestos PLM

HEIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	PIGMENT/ NON	CONDITION	COMMENTS
7462-03-17-01	1500	West Addition A, Coat Room E Wall at Entrance	Grey wall & Joint compound	N	F	
7462-03-17-02	—	West Addition A, Outside Corner of MLP	Grey wall & Joint compound	N	F	
7462-03-17-03	—	Restaurant A, Dining Area, NE Corner of Wall	Grey wall & Joint compound	N	F	
7462-03-17-04	—	Restaurant A, Dining Area, SE Corner of Kitchen	Grey wall & Joint compound	N	P	
7462-03-17-05	3 LF	Restaurant, Kitchen Chiller Room	Black Sweetwrap	N	G	
7462-03-17-06	—	Restaurant, Kitchen Chiller Room	Black Sweetwrap	N	G	
7462-03-17-07	—	West Addition A, Women's Restroom, SW Wall	2"x4" vinyl covered ceiling tile (rough)	N	F	74614
7462-03-17-08	—	West Addition A, Men's Restroom, SW Wall	2"x4" vinyl covered ceiling tile (rough)	N	F	
7462-03-17-09	—	West Addition A, Men's Restroom, West Wall	2"x4" vinyl covered ceiling tile (rough)	N	F	on All walls - 5-4 to 8-
7462-03-17-10	—	West Addition A, Women's Restroom, E Wall	2"x4" vinyl covered ceiling tile (rough)	N	F	
7462-03-17-11	SP	West Addition A, SE Lobby A, Central Hall	Grey Thinset Mortar	N	F	Also in Restrooms
7462-03-17-12	—	West Addition A, SE Lobby A, Central Hall	Grey Thinset Mortar	N	F	

THIS IS A CHAIN OF CUSTODY DOCUMENT. PLEASE COMPLETE SIGN AND DATE/PLEASE RETURN ORIGINAL TO HELIX ENVIRONMENTAL, INC.

Helix ID	7462-03-17-01	Company	Helix Env. Inc.	Date/Time	3/17/2026	Reinspected by		Company		Date/Time	
Received by		Company		Date/Time		Reinspected by		Company		Date/Time	

Plct 26016458

HELIX ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

LABORATORY: SanAir
DATE SAMPLED: 3/1/2026
RUSH - YES OR NO: NO
DATE REQUIRED: 24 HR TAT
JOB NO./LOCATION: 7462 / Dayton, OH
CLIENT: Any Architecture
BUILDING: 4600 Wilmington Pike
INSPECTOR: K. Knecht, R. A. Frohlich
JOB NUMBER: 7462

BULK SAMPLE DATA SHEET ANALYSES REQUESTED: Asbestos PLM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
7462-03-17-13		461 (A) Restaurant, Kitchen NW Ceiling	2' x 4' Vinyl covered ceiling tile (Rough)	N	F	
7462-03-17-14		A Restaurant, Kitchen Annex	2' x 4' vinyl covered ceiling tile (Rough)	N	F	
7462-03-17-15		A Restaurant Kitchen, S Wall in SW Area	Tan Adhesive behind milk boards	N	E	
7462-03-17-16		A Restaurant, Kitchen Annex	Tan Adhesive behind milk boards	N	F	
7462-03-17-17		A Restaurant, Kitchen above Entrance to Annex	Hard Plaster & Skin Coat	N	P	
7462-03-17-18		A Restaurant Kitchen, NE Corner N wall by Fryer	Hard Plaster & Skin Coat	N	P	
7462-03-17-19	2 SF	A, Cooler Vestibule by E Door	4" Block Core Base & Tan Adhesive	N	F	7 LF x 1/3 = 2 SF
7462-03-17-20	-	A Cooler, Vestibule, bottom of doorways to Kitchen	4" Block Core Base & Tan Adhesive	N	F	
7462-03-17-21		A Restaurant, SE Doorway to Kitchen	Ceramic Tile Mortar & Grout	N	G	DO NOT ANALYZE CERAMIC TILE
7462-03-17-22		A Restaurant, NE Outside Door Annex, bottom of wall	Ceramic Tile Mortar & Grout	N	G	
7462-03-17-23	50 SF	B BEB Room Corner	2' x 4' Ceiling Tile, Many Horizontal Fissures	F	F	
7462-03-17-24	-	BEB Room Ceiling on floor	2' x 4' Ceiling Tile, Many Horizontal Fissures	F	F	

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REC'D 1	Released by: <i>K. Knecht</i>	Order: <i>Helix Env. Inc.</i>	Date/Time: <i>3/1/2026 1700</i>	REC'D 3	Relinquished by:
REC'D 2	Received by:	Company:	Date/Time:	REC'D 4	Relinquished by:

SanAir ID Number
26015698
PLM

Received by KM on 3/18/26 at 10:25 AM

PACT 26016458



1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

LABORATORY: SanAir
DATE SAMPLED: 3/17/2026
RUSH - YES OR (NO) (NO) DATE REQUIRED: 24 Hrs TAT
JOB NO./LOCATION: 7462 / Dayton, OH
CLIENT: App Architecture
BUILDING: 4620+ Wilmington Pike
INSPECTOR: _____
JOB NUMBER: 7462

BULK SAMPLE DATA SHEET	ANALYSES REQUESTED: <u>Asbestos PLM</u>
------------------------	---

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
7462-03-17-25	300g	B Entrance Floor	Gray T. tile Sheet Flooring	N	F	
7462-03-17-26	<	B W Room, SE Corner Floor	Gray T. tile Sheet Flooring	N	F	
7462-03-17-27	#	B W Room, NW Corner Floor	9" x 9" Floor Tile Gray + Black mastic	N	P	
7462-03-17-28	-	B W Room, S Corner Floor	9" x 9" Floor Tile, Gray + Black mastic	N	P	
7462-03-17-29	150g BOSF	B W Room, SW Corner, bottom of S wall	4" Black Cove Base + White Adhesive	N	G	
7462-03-17-30	-	B W Room/Hall corner, bottom of N wall	4" Black Cove Base + White Adhesive	N	F	
7462-03-17-31	#	B, West Room, S. wall, West Area, 6' Ht.	Hard Plaster and Skin Layer	N	F	
7462-03-17-32	-	B, East Entry Room, West wall, 8' central Area, at ceiling, 4.5' Ht.	Brick wall and Joint Compound	N	P	
7462-03-17-33	80g	B, SE Restroom, East wall, center, 4' Ht.	2" x 4" Ceiling Tile Horizontal Plaster + Holes	F	F	
7462-03-17-34	-	B, SE Restroom, S. wall, center, 5' Ht.	2" x 4" Ceiling Tile Horizontal Plaster + Holes	F	F	
7462-03-17-35	24g	B, SE Restroom, E. wall, center, 4' Ht.	2" x 4" Ceiling Tile, Grout and Holes, Rosette	F	F	
7462-03-17-36	-	B, SE Restroom, E. wall, S. central Area, 6' Ht.	2" x 4" Ceiling Tile Grout and Holes, Rosette	F	F	

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REC'D 1 Received by: <u>[Signature]</u>	Company: <u>Helix Env. Inc.</u>	Date/Time: <u>3/17/2026 1:00</u>	REC'D 2 Received by: _____
REC'D 3 Received by: _____	Company: _____	Date/Time: _____	REC'D 4 Received by: _____

SanAir ID Number
PLM 26015698

Received by KM on 3/18/26 at 10:25 AM

PACF 26016458



1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

LABORATORY: SanAir
DATE SAMPLED: 3/17/2026
RUSH - YES OR NO: NO
DATE REQUIRED: 24 HR TAT
JOB NO./LOCATION: 7462 / Dayton, OH
CLIENT: Amy Architecture
BUILDING: 4650 Wilmington Pike
INSPECTOR: B. Froehlich / R. Froehlich
JOB NUMBER: 7462

BULK SAMPLE DATA SHEET ANALYSES REQUESTED: Asbestos PLM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
7462-03-17-37	SF	464, (B) Barber Shop, West Room/Hall Corner before Panel 3 1/4 ft.	Original and Joint compound	N	F	
7462-03-17-38	10 LF	B, 1st Fl. SE Wall, E. Wall, Center 9 ft.	Window glazing compound	N	P	
7462-03-17-39	SF	B, Furnace Room, inside furnace (NE) 4 1/4 ft.	White Fibrous Furnace Gasket	N	G	
7462-03-17-40	—	B, Furnace Room, inside furnace 4 1/4 ft.	White Fibrous Furnace Gasket	N	G	
7462-03-17-41	3 SF	B, Furnace Room, wall, N. Central Area 4.5 ft.	Dark grey pipe insulation plaster	N	G	
7462-03-17-42	—	B, FURNACE Rm, E. wall, N. Central Area 1 1/4 ft.	Dark Grey Pipe Insulation plaster	N	G	
7462-03-17-43	150 SF	B, South Wall in SW Corner 6 ft.	Tan Construction Adhesive	N	F	
7462-03-17-44	—	B West Room/Hall Corner before paneling 2 1/4 ft.	Tan Construction Adhesive	N	G	
7462-03-17-45	200 SF	B, West Room, Center N Floor	Tan Carpet Adhesive	N	F	
7462-03-17-46	—	B, West Room, NW Corner Floor	Tan Carpet Adhesive	N	F	
7462-03-17-47	SF	C, West Room, Hall corner ceiling NE 10 ft.	2' x 4' Ceiling Tile, Horizontal fissures & holes	F	F	
7462-03-17-48	—	C, Center Room, NW Area on Floor	2' x 4' Ceiling Tile, Horizontal fissures & holes	F	F	

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REC'D 1	Received by: <i>[Signature]</i>	Company: <i>Helix Env Inc</i>	Date/Time: <i>3/17/2026 1:00</i>	REC'D 3	Requested by:
REC'D 2	Received by:	Company:	Date/Time:	REC'D 4	Requested by:

SanAir ID Number
PLM 26015698

Received by KM on 3/18/26 at 10:25 AM

PHCT 26016458

HELIX ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

LABORATORY: SanAir
DATE SAMPLED: 3/1/2026
RUSH - YES OR (NO) NO DATE REQUIRED: 24 Hrs THT
JOB NO./LOCATION: 7462 / Dayton, OH
CLIENT: Arg Architecture
BUILDING: 4650 Wilmington Pike
INSPECTOR: B. Michael B. Frachet
JOB NUMBER: 7462

BULK SAMPLE DATA SHEET				ANALYSES REQUESTED: <u>Asbestos PLM</u>		
HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
7462-03-17-49		C, West Room, Hall Corner at Ceiling	Drywall Joint Compound	N	G	
7462-03-17-50		C, NE Room, Wall, West Central Room	Drywall Joint Compound	N	F	
7462-03-17-51		C, East Central Room, E. Wall, N. Room	Textured Layer	N	F	on Drywall
7462-03-17-52		C, West Room, N. Wall, Central Room	Textured Layer	N	F	↓
7462-03-17-53		C, West Room, N. Wall	Textured Hard Plaster and Skim Coat	N	F	
7462-03-17-54		C, East Central Room, West Central Room	Textured Hard Plaster and Skim Coat	N	F	
7462-03-17-55		C SE Furnace Room, SW Corner 1 Floor	9" x 9" Floor tile, Tan Streaked & Black	N	G	Mastic
7462-03-17-56		C, West Room, SE Corner Floor under carpet	9" x 9" Floor tile, Tan Streaked & Black	N	G	Mastic
7462-03-17-57		C, West Room, SE Corner Floor under carpet	Tan Carpet Adhesive	N	G	
7462-03-17-58		C, East Central Room, E. Center Floor under carpet	Tan Carpet Adhesive	N	G	
7462-03-17-59		C, East Central Room, NE Corner	4" Grey Concrete Base & Mastic Cream	N		
7462-03-17-60		C, West Room, S. Center Wall	4" Grey Concrete Base & Cream Mastic	N		

THIS IS A CHAIN OF CUSTODY DOCUMENT. PLEASE COMPLETE, SIGN, AND DATE. PLEASE RETURN ORIGINAL TO HELIX ENVIRONMENTAL, INC.

Received by: <u>B. Michael B. Frachet</u>	Company: <u>Helix Env./Inc</u>	Date/Time: <u>3/1/2026 1700</u>
Received by:	Company:	Date/Time:

SanAir ID Number
PLM 26015698

Date/Time:
Date/Time:

Received by KM on 3/18/26 at 10:25 AM

HELIX
ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

LABORATORY:

sanfir

DATE SAMPLED:

3	17	2026
---	----	------

RUSH - YES OR NO

DATE REQUIRED:

24 HA 740

JOB NO./LOCATION:

1462	Wayton, Or
------	------------

CLIENT:

Art Architecture

BUILDING:

4650 Wilmington Pike

INSPECTOR:

B. Noel R. Froese

JOB NUMBER:

7462

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED:

Asbestos PLM

HEIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FINABLE/ NON	CONDITION	COMMENTS
1462-03-17-61	8 LF 1 SF	C Bathroom (NE) Window	Window Glazing 8 1/4" Ht	N	P	8 LF x 0, 1 LF
1462-03-17-62	20 SF	C Bathroom, Doorway Area Floor	12" x 12" Floor Tile, Tan Streaked & Black Mosaic	N	G	
1462-03-17-63	—	C Bathroom, NE Corner Floor	12" x 12" Floor Tile, Tan Streaked & Black Mosaic	N	G	
1462-03-17-64	240 SF	D, South West Ceiling	2' x 4' Ceiling Tile 10' Ht	N	F	
1462-03-17-65	—	D, North East Ceiling	2' x 4' Ceiling Tile, Random Cracks & Holes 10' Ht	N	F	
1462-03-17-66	190 SF	D, South Wall in SE Corner Area	Hard Plaster & Skin Coat 3' Ht	N	F	
1462-03-17-67	—	D, South Wall in SW Area	Hard Plaster & Skin Coat 5' Ht	N	F	
1462-03-17-68	36 SF	D, Entry Area Floor, NE Corner	Grout & Mortar under 1' x 1' Ceramic Tile White	N	G	
1462-03-17-69	—	D, Entry Area Floor, SE Corner	Grout & Mortar under 1' x 1' Ceramic Tile White	N	G	
1462-03-17-70	900 SF	D, Restroom, West Wall, NE Area North	Drywall & Joint Compound 5' Ht	N	P	Remnants
1462-03-17-71	—	D, Restroom, West Wall at Corner	Drywall & Joint Compound 5' Ht	N	P	
1462-03-17-72	—	D, Restroom, Corner	Textured Drywall & Joint Compound 5' Ht	N	P	

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THIS IS A COPY OF CUSTODY DOCUMENT. PLEASE COMPLETE, SIGN, AND DATE. PLEASE RETURN ORIGINAL TO HELIX ENVIRONMENTAL, INC.					
REC'D 1	Received by: <i>[Signature]</i>	Company: <i>Helix Env Inc</i>	Date/Time: <i>3/17/2026 1712</i>	REC'D 3	Returned by:
REC'D 2	Received by:	Company:	Date/Time:	REC'D 4	Returned by:

SanAr ID Number

26015698

Date/Time:

late/Time:

Received by KIM on 3/18/26 at 10:25 AM



The Identification Specialists

Analysis Report
prepared for
Helix Environmental Inc

Report Date: 4/8/2026

**Project Name: App Architecture, 4620 Wilmington Pike, Dayton,
OH**

Project #: 7462

SanAir ID#: 26019918



NVLAP LAB CODE 200870-0

10501 Trade Court, North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | LabReports@SanAir.com | SanAir.com



SanAir ID Number

26019918

FINAL REPORT

4/8/2026 9:07:33 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: App Architecture, 4620 Wilmington Pike,
Dayton, OH
Collected Date: 3/17/2026
Received Date: 4/6/2026 11:45:00 AM

Dear Benjamin Froehlich,

We at SanAir would like to thank you for the work you recently submitted. The 3 sample(s) were received on Monday, April 06, 2026 via Fax or Email request. The final report(s) is enclosed for the following sample(s): 7462-03-17-50, 7462-03-17-71, 7462-03-17-72.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino". The signature is written in a cursive, flowing style.

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 3 samples in Good condition.



SanAir ID Number
26019918
FINAL REPORT
4/8/2026 9:07:33 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: App Architecture, 4620 Wilmington Pike,
Dayton, OH
Collected Date: 3/17/2026
Received Date: 4/6/2026 11:45:00 AM

Analyst: Pisula, Nicholas

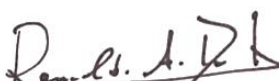
Asbestos Bulk EPA PLM 400 Point Count

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-17-50 / 26019918-001 Drywall & Joint Compound, Composite, C, NE Rm, S Wall, West	Various Non-Fibrous Heterogeneous		99.25% Other	0.75% Chrysotile
7462-03-17-71 / 26019918-002 Drywall & Joint Compound, Composite, D, Restroom, West Wall	Various Non-Fibrous Heterogeneous		99.25% Other	0.75% Chrysotile
7462-03-17-72 / 26019918-003 Drywall & Joint Compound, Composite, D, Restroom, Corner	Various Non-Fibrous Heterogeneous		99.25% Other	0.75% Chrysotile

Analyst: 

Analysis Date: 4/7/2026

Approved Signatory:


Date: 4/8/2026

Disclaimer and Additional Information:
400 Point Count Method EPA 600/R-93/116

EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of
Asbestos in Bulk Insulation Samples

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

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The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition in which they arrived at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, P.O. number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start - stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted. When the client requires samples to be tested that deviates from a specific method or condition, all reported results may be affected by the deviation. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted. The limit of detection is 0.25%. Samples are held for a period of 60 days.

This report does not constitute and shall not be used to claim product, process, system, or person certification, approval, or endorsement by NVLAP, NIST, NELAC, AIHA LAP, LLC or any other U.S. governmental agencies; all or some tests contained in this report may not be accredited by every local, state, and federal regulatory agency. Refer to the SanAir website at www.sanair.com for copies of current certificates and scopes of various accreditations, certifications, and licenses or contact the laboratory for inquiries regarding the status or scope of an accreditation or certification.

Asbestos Accreditations, Certifications, and Licenses

National Voluntary Laboratory Accreditation Program (NVLAP) Lab Code 200870-0
City of Philadelphia Department of Public Health Air Management Services, Certification#ALL-460
Commonwealth of Pennsylvania Department of Environmental Protection Number 68-05397
California State Environmental Laboratory Accreditation Program Certificate Number 2915
Colorado Department of Public Health and Environment Registration Number AL-23143
Connecticut Department of Public Health Environmental Laboratory Registration Number PH-0105
Massachusetts Department of Labor Standards Asbestos Analytical Services License Number: AA000222
State of Maine Department of Environmental Protection License Number: LB-0075
New York State Department of Health Laboratory ID: 11983
State of Rhode Island Department of Health Certification No.: PLM00126
Texas Department of State Health Services License Number: 300440
Commonwealth of Virginia Department of Professional and Occupational Regulation Number: 3333000323
State of Washington Department of Ecology Laboratory ID: C989
State of West Virginia Bureau for Public Health Analytical Laboratory Number: LT000616
Vermont Department of Health License Number: Asb-Co-An-000006
Louisiana Department of Environmental Quality AI Number 212253, LELAP Lab ID #05088

From: Benjamin Froehlich <bfroehlich@helixenv.com>
Sent: Monday, April 6, 2026 11:40 AM
To: Lab Reports <labreports@sanair.com>
Subject: Re: Analysis Report for Job 26016458 is complete.

26016458

EXTERNAL EMAIL: DO NOT CLICK on links or attachments unless you recognize the sender and know the content is safe.

Hello,

May I have the following sample reanalyzed as a composite sample with drywall AND joint compound EPA 400 Point Count with 48 hour Turn Around please?

7462-03-17-50
7462-03-17-71
7462-03-17-72

Thanks,
Ben Froehlich
Helix Environmental, Inc.
(937) 226-0650

> On Mar 25, 2026, at 10:35 AM, SanAir Technologies Laboratory <labreports@sanair.com> wrote:
>
> <26016458_App Architecture, 4620 Wilmington Ave_202632510350.pdf>

RMB APR 06 2026 11:45am

HELIX ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

Pct 26019918

LABORATORY: San Air
DATE SAMPLED: 3/17/2026
DATE REQUIRED: 24 TH TH
D/L LOCATION: 1462-17-03
CLIENT: Any Architectural
BUILDING: 4000 Wilburton Pike
INSPECTOR: B. Scobell, R. A. Froelich
JOB NUMBER: 7462

Received by KM on 3/18/26 at 10:25 AM

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED:

Asbestos PLM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
7462-03-17-01	1500	West Addition A, East Room E Wall at Entrance	Brick wall - Joint compound	N	F	
7462-03-17-02	—	West Addition A, Outside Corner of M.R.R.	Concrete & brick compound	N	F	
7462-03-17-03	—	Restaurant A, Dining Area, NE Corner of Dining Room	Concrete & brick compound	N	F	
7462-03-17-04	—	Restaurant A, Dining Area, SE Corner of Dining Room	Concrete & brick compound	N	F	
7462-03-17-05	3 LF	Restaurant, Kitchen Chiller Room	Black & white wall	N	P	
7462-03-17-06	—	Restaurant, Kitchen Chiller Room	Black & white wall	N	P	
7462-03-17-07	—	West Addition A, Women's Restroom, SW Wall	Black & white wall	N	G	
7462-03-17-08	—	West Addition A, Men's Restroom, SW Wall	Black & white wall	N	F	
7462-03-17-09	—	West Addition A, Men's Restroom, SW Wall	Black & white wall	N	F	
7462-03-17-10	—	West Addition A, Women's Restroom, E Wall	Black & white wall	N	F	
7462-03-17-11	SP	West Addition A, SE Lobby, Central Hall	Dark brown stain	N	F	
7462-03-17-12	—	West Addition A, SE Lobby, Central Hall	Dark brown stain	N	F	

THIS IS A CHAIN OF CUSTODY DOCUMENT. PLEASE COMPLETE SIGN AND DATE, PLEASE RETURN ORIGINAL TO HELIX ENVIRONMENTAL, INC.

Helix 1	Signature: <u>[Signature]</u>	Date/Time: <u>3/17/2026</u>	Helix 2	Signature: <u>[Signature]</u>	Date/Time: <u>3/17/2026</u>
Helix 3	Signature: <u>[Signature]</u>	Date/Time: <u>3/17/2026</u>	Helix 4	Signature: <u>[Signature]</u>	Date/Time: <u>3/17/2026</u>

PHG 26019918



1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445

Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

LABORATORY: SanAir
 DATE SAMPLED: 3/17/2026
 RUSH - YES OR NO: (NO) DATE REQUIRED: 24 Hrs
 JOB NO./LOCATION: 7462 / Dayton, OH
 CLIENT: Any Architecture
 BUILDING: 4620 Wilington Pike
 INSPECTOR:
 JOB NUMBER: 7462

BULK SAMPLE DATA SHEET	ANALYSES REQUESTED: <u>Asbestos PLM</u>
------------------------	---

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
7462-03-17-25	300g	B Entrance Floor	Gray T. & S. Sheet Flooring	N	F	
7462-03-17-26	<	B W Room, SE Corner Floor	Gray T. & S. Sheet Flooring	N	F	
7462-03-17-27	#	B W Room, NW Corner Floor	9" x 9" Floor Tile Gray + Black Mosaic	N	P	
7462-03-17-28	-	B W Room, S. Corner Floor	9" x 9" Floor Tile, Gray + Black Mosaic	N	P	
7462-03-17-29	150g 50g	B W Room, SW Corner, Bottom of S. Wall	4" Black Cove Base + White Adhesive	N	G	
7462-03-17-30	-	B W Room/Hall corner, bottom of N. Wall	4" Black Cove Base + White Adhesive	N	F	
7462-03-17-31	#	B, West Room, S. Wall, West Area, 6' Ht.	Hard Plaster and Skin Coat	N	F	
7462-03-17-32	-	B, East Writing Room, West Wall, s. central Area, at ceiling, 4.5' Ht.	Dry wall and joint compound	N	F	
7462-03-17-33	80g	B, SE Restroom, East Wall, Center, 4' Ht.	2' x 4' Ceiling tile Horizontal fissures + Holes	F	F	
7462-03-17-34	-	B, SE Restroom, s. wall, center, 5' Ht.	2' x 4' Ceiling tile Horizontal fissures + Holes	F	F	
7462-03-17-35	24g	B, SE Restroom, E. wall, center, 4' Ht.	2' x 4' Ceiling tile, grout and Holes, Rosette	F	F	
7462-03-17-36	-	B, SE Restroom, E. wall, s. central Area, 6' Ht.	2' x 4' Ceiling tile grout and Holes, Rosette	F	F	

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REC'D 1	Received by: <u>[Signature]</u>	Company: <u>Helix Env. Inc.</u>	Date/Time: <u>3/17/2026 1:00</u>	REC'D 3	Received by: <u>[Signature]</u>
REC'D 2	Received by:	Company:	Date/Time:	REC'D 4	Received by:

SanAir ID Number
26015698

Received by KM on 3/18/26 at 10:25 AM

HELIX ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

PFC-26019918

LABORATORY: SanAir
DATE SAMPLED: 3/17/2026
DATE REQUIRED: 24 HR TAT
JOB NO./LOCATION: 7462 / Dayton, OH
CLIENT: App Architecture
BUILDING: 4050 Wilmington Pike
INSPECTOR: B. Friedl / R. Friedl
JOB NUMBER: 7462

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED: Asbestos PLM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
7462-03-17-37	SF	A66, (B) Back Shop, West Room/Hall Corner behind panel 3 1/4'	Original Joint compound	N	F	
7462-03-17-38	10 LF	B, 1st Fl, SE Bathroom, E. Wall, center 9' Ht.	Window glazing compound	N	P	
7462-03-17-39	SF	B, Furnace Room, inside furnace (NE) 4' Ht.	White Fibrous Furnace Gasket	N	G	
7462-03-17-40	—	B, Furnace Room, inside furnace 4' Ht.	White Fibrous Furnace Gasket	N	G	
7462-03-17-41	3 SF	B, Furnace Hall, Wall, N. Central Area 4' Ht.	Dark grey Pipe Insulation Plaster	N	G	
7462-03-17-42	—	B, Furnace Hall, E. Wall, N. Central Area 4' Ht.	Dark grey Pipe Insulation Plaster	N	G	
7462-03-17-43	150 SF	B, South Wall in SW Corner 8' Ht.	Tan Construction Adhesive	N	F	
7462-03-17-44	—	B West Room/Hall Corner behind paneling 2' Ht.	Tan Construction Adhesive	N	G	
7462-03-17-45	200 SF	B, West Room, Center N Floor	Tan Carpet Adhesive	N	K	
7462-03-17-46	—	B, West Room, NW Corner Floor	Tan Carpet Adhesive	N	F	
7462-03-17-47	SF	C, West Room, Hall corner ceiling NE 10' Ht.	2' x 4' Ceiling Tile, Horizontal fissures? Hole	F	F	
7462-03-17-48	—	C, Center Room, NW Area on Floor	2' x 4' Ceiling Tile, Horizontal fissures? Hole	F	F	

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REC'D 1	Retained by: <i>[Signature]</i>	Company: <i>[Signature]</i>	Date/Time: 3/17/2026 1700	REC'D 2	Retained by:	Company:	Date/Time:	REC'D 3	Retained by:	Company:	Date/Time:	REC'D 4	Retained by:	Company:	Date/Time:
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SanAir ID Number
26015698

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PACT 26019918

HELIX ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

LABORATORY: SanAir
DATE SAMPLED: 3/1/2026
DATE REQUIRED: 24 Hrs TAT
JOB NO./LOCATION: 1462 / Dayton, OH
CLIENT: App Architectural
BUILDING: 4650 Wilmington Pike
INSPECTOR: B. Froehlich RA Froehlich
JOB NUMBER: 1462

BULK SAMPLE DATA SHEET				ANALYSES REQUESTED: <u>Asbestos PCM</u>		
HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
1462-03-17-49	SE	C, West Room, Hall Corner at Ceiling	Drywall & Joint Compound	N	G	
1462-03-17-50	—	C, NE Rm's Wall, West Central Rm, 4th fl.	Drywall & Joint Compound	N	F	
1462-03-17-51		C, East Central Rm, E. Wall, N. Rm, 4.5th fl.	Textured Layer	N	F	on Drywall
1462-03-17-52		C, West Room, N. Wall, Central Rm, 4th fl. 3rd fl.	Textured Layer	N	F	↓
1462-03-17-53		C, West Rm, N. Wall, 4.5th fl.	Textured Hard Water and Skin Coat	N	F	
1462-03-17-54		C, East Central Rm, West Central Rm, 4.5th fl.	Textured Hard Water and Skin Coat	N	F	
1462-03-17-55	SE	C SE Furnace Room, SW Corner 1 Floor	9" x 9" Floor tile, Tan Streaked & Black	N	G	Mastic
1462-03-17-56	—	C, West Room, SE Corner Floor under carpet	9" x 9" Floor tile, Tan Streaked & Black	N	G	Mastic
1462-03-17-57	SE	C, West Room, SE Corner Floor under carpet	Tan Carpet Adhesive	N	G	
1462-03-17-58	—	C, East Central Rm, E. Corner Floor under carpet	Tan Carpet Adhesive	N	G	
1462-03-17-59	SE	C, East Central Rm, NE Corner	4" Gray Core Base & Mastic Cream	N		
1462-03-17-60	—	C, West Room, S. Central Wall 8th fl.	4" Gray Core Base & Cream Mastic	N		

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REC'D 1	Received by: <u>B. Froehlich</u>	Company: <u>Helix Env./Inc</u>	Date/Time: <u>3/1/2026 1700</u>	REC'D 2	Received by:	Date/Time:
REC'D 2	Received by:	Company:	Date/Time:	REC'D 3	Received by:	Date/Time:

SanAir ID Number
26015698

Received by KM on 3/18/26 at 10:25 AM

HELIX ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

Ptct 26019918

LABORATORY: SanAir
DATE SAMPLED: 3/17/2026
RUSH - YES OR (NO) DATE REQUIRED: 24 Hrs
JOB NO./LOCATION: 7462 / Dayton, OH
CLIENT: Agg Architecture
BUILDING: 4650 Wilmington Pike
INSPECTOR: B. Fredrick R. Fredrick
JOB NUMBER: 7462

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED: Asbestos PLM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
7462-03-17-61	8 LF 1 SF	C Bathroom (NE) Window	Window Glazing	N	P	8LF x 0.1Kt
7462-03-17-62	20 SF	C Bathroom, Doorway Area Floor	12" x 12" Floor Tile, Tan Streaked & Black Mosaic	N	G	
7462-03-17-63	—	C Bathroom, NE Corner Floor	12" x 12" Floor Tile, Tan Streaked & Black Mosaic	N	G	
7462-03-17-64	20 SF	D, South West Ceiling	2' x 4' Ceiling Tile	N	F	
7462-03-17-65	—	D, North East Ceiling	2' x 4' Ceiling Tile, Random Cracks & Holes	N	F	
7462-03-17-66	1900 SF	D, South Wall in SE Corner Area	Hard Plaster & Skin Coat	N	F	
7462-03-17-67	—	D, South Wall in SW Area	Hard Plaster & Skin Coat	N	F	
7462-03-17-68	36 SF	D, Entry Area Floor, NE Corner	Grout & Mortar under 12" x 12" Ceramic Tile White	N	G	
7462-03-17-69	—	D, Entry Area Floor, SE Corner	Grout & Mortar under 12" x 12" Ceramic Tile White	N	G	
7462-03-17-70	900 SF	D, Restroom, West Wall, NW Area	Drywall & Joint Compound	N	P	Remnants
7462-03-17-71	—	D, Restroom, West Wall at Corner	Drywall & Joint Compound	N	P	
7462-03-17-72	—	D, Restroom, Corner	Textured Drywall & Joint Compound	N	P	

THIS IS A CHAIN OF CUSTODY DOCUMENT. PLEASE COMPLETE, SIGN, AND DATE. PLEASE RETURN ORIGINAL TO HELIX ENVIRONMENTAL, INC.

REC'D 1	Received by: <u>B. Fredrick</u>	Company: <u>Helix Env. Inc</u>	Date/Time: <u>3/17/2026 17:00</u>
REC'D 2	Received by:	Company:	Date/Time:
REC'D 3	Received by:	Company:	Date/Time:
REC'D 4	Received by:	Company:	Date/Time:

SanAir ID Number
26015698

Received by KM on 3/18/26 at 10:25 AM



The Identification Specialists

Analysis Report
prepared for
Helix Environmental Inc

Report Date: 3/25/2026

**Project Name: App Architecture, 4614 Wilmington Pike, Dayton,
OH**

Project #: 7462

SanAir ID#: 26017031



NVLAP LAB CODE 200870-0

10501 Trade Court, North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | LabReports@SanAir.com | SanAir.com



SanAir ID Number

26017031

FINAL REPORT

3/25/2026 10:08:19 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: App Architecture, 4614 Wilmington Pike,
Dayton, OH
Collected Date: 3/18/2026
Received Date: 3/23/2026 9:00:00 AM

Dear Benjamin Froehlich,

We at SanAir would like to thank you for the work you recently submitted. The 2 sample(s) were received on Monday, March 23, 2026 via Fax or Email request. The final report(s) is enclosed for the following sample(s): 7462-03-18-01, 7462-03-18-06.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino". The signature is written in a cursive, flowing style.

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 2 samples in Good condition.



SanAir ID Number

26017031

FINAL REPORT

3/25/2026 10:08:19 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: App Architecture, 4614 Wilmington Pike,
Dayton, OH
Collected Date: 3/18/2026
Received Date: 3/23/2026 9:00:00 AM

Analyst: Magalis, Lane

Asbestos Bulk EPA PLM 400 Point Count

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-18-01 / 26017031-001 Texturized Layer, D (4628), 1st Fl, NE Area, Bathroom, S	Tan Non-Fibrous Heterogeneous		98.75% Other	1.25% Chrysotile
7462-03-18-06 / 26017031-002 Drywall and Joint Compound, E, 1st Fl, Main Rm, Joint Comp	Tan Non-Fibrous Homogeneous		98.5% Other	1.5% Chrysotile

Analyst:

Approved Signatory:

Analysis Date: 3/25/2026

Date: 3/25/2026

Disclaimer and Additional Information:
400 Point Count Method EPA 600/R-93/116

EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of
Asbestos in Bulk Insulation Samples

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

This report is the sole property of the client named on the chain-of-custody (COC) submitted to SanAir Technologies Laboratory, Inc. (SanAir). Results in the report are confidential information intended only for the use by the customer listed on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission. The final report shall not be reproduced, except in full, without written approval of the laboratory to assure that parts of the report are not taken out of context. This report and any information contained within shall not be edited, altered, or modified in any way by any persons or agencies receiving, viewing, distributing, or otherwise possessing a copy of this final report. The laboratory reserves the right to perform amendments to any finalized report, of which shall supersede and make obsolete any previous editions. Such changes, modifications, additions, or deletions shall be effective immediately upon notice thereof, which may be given by means including but not limited to posting on the SanAir client portal website, electronic or conventional mail, or by any other means.

The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition in which they arrived at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, P.O. number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start - stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted. When the client requires samples to be tested that deviates from a specific method or condition, all reported results may be affected by the deviation. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted. The limit of detection is 0.25%. Samples are held for a period of 60 days.

This report does not constitute and shall not be used to claim product, process, system, or person certification, approval, or endorsement by NVLAP, NIST, NELAC, AIHA LAP, LLC or any other U.S. governmental agencies; all or some tests contained in this report may not be accredited by every local, state, and federal regulatory agency. Refer to the SanAir website at www.sanair.com for copies of current certificates and scopes of various accreditations, certifications, and licenses or contact the laboratory for inquiries regarding the status or scope of an accreditation or certification.

Asbestos Accreditations, Certifications, and Licenses

National Voluntary Laboratory Accreditation Program (NVLAP) Lab Code 200870-0
City of Philadelphia Department of Public Health Air Management Services, Certification#ALL-460
Commonwealth of Pennsylvania Department of Environmental Protection Number 68-05397
California State Environmental Laboratory Accreditation Program Certificate Number 2915
Colorado Department of Public Health and Environment Registration Number AL-23143
Connecticut Department of Public Health Environmental Laboratory Registration Number PH-0105
Massachusetts Department of Labor Standards Asbestos Analytical Services License Number: AA000222
State of Maine Department of Environmental Protection License Number: LB-0075
New York State Department of Health Laboratory ID: 11983
State of Rhode Island Department of Health Certification No.: PLM00126
Texas Department of State Health Services License Number: 300440
Commonwealth of Virginia Department of Professional and Occupational Regulation Number: 3333000323
State of Washington Department of Ecology Laboratory ID: C989
State of West Virginia Bureau for Public Health Analytical Laboratory Number: LT000616
Vermont Department of Health License Number: Asb-Co-An-000006
Louisiana Department of Environmental Quality AI Number 212253, LELAP Lab ID #05088

2607031

From: Benjamin Froehlich <helix@helixenv.com>
Sent: Friday, March 20, 2026 4:49 PM
To: Lab Reports <labreports@sanair.com>
Subject: Re: Analysis Report for Job 26016018 is complete.

EXTERNAL EMAIL: DO NOT CLICK on links or attachments unless you recognize the sender and know the content is safe.

Hello,

May I have 48 hour turn-around EPA 400 point counts of the following samples?

-7462-03-18-01 (26016018-001)
-7462-03-18-02 (26016018-002)
-7462-03-18-06 (26016018-006), joint compound only

Thanks,
Ben Froehlich
Helix Environmental, Inc.
(937) 226-0650

> On Mar 20, 2026, at 10:07 AM, SanAir Technologies Laboratory <labreports@sanair.com> wrote:

>

> ***IMPORTANT NOTICE***

> Beginning June 2, 2025, our selected shipping provider will be FedEx. Please visit our website for full details: https://urldefense.proofpoint.com/v2/url?u=https-3A__www.sanair.com_sanair-2Dswitching-2Dto-2Dfedex-2Deffective-2Djune-2D2_&d=DwIFAg&c=euGZstcaTDllvimEN8b7jXrwqOf-v5A_CdpgnVfiiMM&r=kmsHUf915vfjnsrzvBvAxeT6WeBZvbyJb88SYXE3ull&m=Au6-iVn1NsGAuzGEh2bX0nf1RGOW7frNZol1mBD6TLB156OV7XcbTmVxM0sBNfmX&s=WyT32XllhE0a7lhal5VB C2sO3JMFryv0YpgfmvP6990&e=

>

> Your Analysis is complete. Your report in PDF format is attached. Information is periodically added to our additional information and disclaimer pages so please check them for updates.

>

> Thank you for your continued business, SanAir

>

> The information in this message may contain confidential information intended for use by the recipient only. If this information was received in error, please reply to the message and delete it.

>

> <26016018_4614 Wilmington Pike Dayton, OH_202632010722.pdf>

RMB 3/23/26 9:00am

PHCF 26017031

HELIX ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 4541
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@he

SanAir ID Number
Pur 26016018
Received by MC on 3/19/26 at 10:25 AM

LABORATORY: SAHir
DATE SAMPLED: 3/18/2026
DATE REQUIRED: 24 HA TAT
JOB NO./LOCATION: 7462 / Dayton, OH
CLIENT: Axi Architecture
BUILDING: 46143 Wilburton Pike
INSPECTOR: Ben Froehel
JOB NUMBER: 7462

BULK SAMPLE DATA SHEET				ANALYSES REQUESTED: Asbestos PLM		
HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FIXABLE/ NON	CONDITION	COMMENTS
7462-03-18-01	120 SF	D(4629), 1st Fl, NE Area, Bathrooms, wall, SW exterior corner, 3' Ht.	Textured Layer	N	P	on Drywall
7462-03-18-02	1420 SF	D, 1st Fl, SW Area, On Floor, middle floor, 0' Ht.	Tan Carpet Mastiz	N	F	-
7462-03-18-03	-	D, 1st Fl, NE Central Area, On concrete floor, 0' Ht.	Tan Carpet Mastiz	N	F	
7462-03-18-04	1600 SF	E(4630), 1st Fl, SE Central Area, 10' Ht.	2" x 4" Ceiling tile Horizontal Fibers and Holes	F	P	33 x 6 = 198
7462-03-18-05	-	E(4630), 1st Fl, SW Central Area, 10' Ht.	2" x 4" Ceiling tile Horizontal Fibers and Holes	F	F	
7462-03-18-06	1400 SF	E, 1st Fl, Main Room, E. Wall, Black Ceiling Area, At corner of pipe chase, 5.5' Ht.	Drywall and Joint compound	N	P	1100 SF
7462-03-18-07	-	E, 1st Fl, Main Room, N. Wall, West corner Area, 4' Ht.	Drywall and joint compound	N	P	
7462-03-18-08	60 SF	E, 1st Fl, Main Room, S. Wall, West Area, 0' Ht.	4" Black Cove Base and Tan Mastiz	N	F	
7462-03-18-09	-	E, 1st Fl, Main Room, E. Wall, S. Area, 0' Ht.	4" Black Cove Base and Tan Mastiz	N	F	
7462-03-18-10	1450 SF	E, 1st Fl, Main Room, SE Central Area, 0' Ht.	12" x 12" Light and Dark Grey Mottled Floor tile, Tan Mastiz	N	MF	+ Black Mastiz
7462-03-18-11	-	E, 1st Fl, Main Room, NW Central Area, 0' Ht.	12" x 12" Light and Dark Grey Mottled Floor tile, Tan Mastiz	N	F	
7462-03-18-12		E, 1st Fl, Main Room, SE Area, Above 2nd fl floor penetration, 12' Ht.	Roofing concrete cement	N	F	over whole SF

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REC'D 1	Received by: Ben Froehel	Company: Helix Env, Inc.	Date/Time: 3/18/2026 17:00	REC'D 3	Received by:	Company:	Date/Time:
REC'D 2	Received by:	Company:	Date/Time:	REC'D 4	Received by:	Company:	Date/Time:

HELIX ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445

Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

SanAir ID Number: PLM 26016018
Received by MC on 3/19/26 at 10:25 AM

PACT 2607031

LABORATORY: SanAir

DATE SAMPLED: 3/18/2026

DATE REQUIRED: 24 HR TAT

JOB NO./LOCATION: 7462 / Dayton, OH

CLIENT: Any Architecture

BUILDING: 4650 Wilmington Pike

INSPECTOR: Ben Froehlich

JOB NUMBER: 7462

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED: Asbestos PLM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
7462-03-18-013	1600 SF	E, 1st Fl., N. Wall, E-Central Area, 14 ft	Hard Plaster and skim coat	N	P	
7462-03-18-14	16 SF	F (4634), 1st Fl., West Central Area, 10 ft	2"x4" ceiling tile, random holes and gouges, rosette	F	F	
7462-03-18-15	-	F, 1st fl., West Central Area, fallen tile, 6 ft	2"x4" ceiling tile, random holes and gouges, rosette	P	P	Random Holes and gouges
7462-03-18-16	1300 SF	F, 1st Fl., SW Area, main rm, 10 ft	2"x4" ceiling tile, random holes and shaft fissures	F	F	
7462-03-18-17	-	F, 1st Fl., Main Rm, NE Area, 10 ft	2"x4" ceiling tile, random holes and shaft fissures	F	F	
7462-03-18-18	160 SF	F, 1st Fl., Main Room, NW Central Area, 10 ft	2"x4" ceiling tile, horizontal fissures and holes	F	F	
7462-03-18-19	-	F, 1st Fl., SE Restroom, SW Area, 8 ft	2"x4" ceiling tile, horizontal fissures and holes	F	P	
7462-03-18-20	1700 SF	F, 1st Fl., Main Rm., S. Wall, West Central Area, above ceiling tile, 10 ft	dry wall and joint compound	N	G	
7462-03-18-21	-	F, 1st Fl., SE Restroom, West wall, N. Area, above CT, 6 ft	dry wall and joint compound	N	F	
7462-03-18-22	66 SF	F, 1st Fl., Main Sales Rm., West wall, N. Central Area, 0.5 ft	4" Black cake base; tan mastic	N	G	
7462-03-18-23	-	F, 1st Fl., Main Sales Rm., E. wall, 2nd ft entrance to SE Restroom, 6 ft	4" Black cake base; tan mastic	N	G	
7462-03-18-24	1400 SF	F, 1st Fl., Main Rm. Ceiling, 0.7 ft	12"x12" light grey plain joint compound	N	P	+ black mastic below

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1	Relinquished by: <u>Ben Froehlich</u>	Company: <u>Helix Env, Inc.</u>	Date/Time: <u>3/16/26 17:00</u>	2	Relinquished by:	Company:	Date/Time:
3	Received by:	Company:	Date/Time:	4	Relinquished by:	Company:	Date/Time:



The Identification Specialists

Analysis Report
prepared for
Helix Environmental Inc

Report Date: 4/8/2026

**Project Name: App Architecture, 4614 Wilmington Pike, Dayton,
OH**

Project #: 7462

SanAir ID#: 26019910



NVLAP LAB CODE 200870-0

10501 Trade Court, North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | LabReports@SanAir.com | SanAir.com



SanAir ID Number
26019910
FINAL REPORT
4/8/2026 9:09:17 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: App Architecture, 4614 Wilmington Pike,
Dayton, OH
Collected Date: 3/18/2026
Received Date: 4/6/2026 11:40:00 AM

Dear Benjamin Froehlich,

We at SanAir would like to thank you for the work you recently submitted. The 1 sample(s) were received on Monday, April 06, 2026 via Fax or Email request. The final report(s) is enclosed for the following sample(s): 7462-03-18-06.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino". The script is fluid and cursive.

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 1 samples in Good condition.



SanAir ID Number
26019910
FINAL REPORT
4/8/2026 9:09:17 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: App Architecture, 4614 Wilmington Pike,
Dayton, OH
Collected Date: 3/18/2026
Received Date: 4/6/2026 11:40:00 AM

Analyst: Magalis, Lane

Asbestos Bulk EPA PLM 400 Point Count

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-18-06 / 26019910-001 Drywall and Joint Compound, Composite, E, 1st Fl, Main Room, Composite	Various Non-Fibrous Heterogeneous		100% Other	< 0.25% Chrysotile

Analyst:

Analysis Date: 4/7/2026

Approved Signatory:

Date: 4/8/2026

Disclaimer and Additional Information:
400 Point Count Method EPA 600/R-93/116

EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of
Asbestos in Bulk Insulation Samples

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

This report is the sole property of the client named on the chain-of-custody (COC) submitted to SanAir Technologies Laboratory, Inc. (SanAir). Results in the report are confidential information intended only for the use by the customer listed on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission. The final report shall not be reproduced, except in full, without written approval of the laboratory to assure that parts of the report are not taken out of context. This report and any information contained within shall not be edited, altered, or modified in any way by any persons or agencies receiving, viewing, distributing, or otherwise possessing a copy of this final report. The laboratory reserves the right to perform amendments to any finalized report, of which shall supersede and make obsolete any previous editions. Such changes, modifications, additions, or deletions shall be effective immediately upon notice thereof, which may be given by means including but not limited to posting on the SanAir client portal website, electronic or conventional mail, or by any other means.

The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition in which they arrived at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, P.O. number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start - stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted. When the client requires samples to be tested that deviates from a specific method or condition, all reported results may be affected by the deviation. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted. The limit of detection is 0.25%. Samples are held for a period of 60 days.

This report does not constitute and shall not be used to claim product, process, system, or person certification, approval, or endorsement by NVLAP, NIST, NELAC, AIHA LAP, LLC or any other U.S. governmental agencies; all or some tests contained in this report may not be accredited by every local, state, and federal regulatory agency. Refer to the SanAir website at www.sanair.com for copies of current certificates and scopes of various accreditations, certifications, and licenses or contact the laboratory for inquiries regarding the status or scope of an accreditation or certification.

Asbestos Accreditations, Certifications, and Licenses

National Voluntary Laboratory Accreditation Program (NVLAP) Lab Code 200870-0
City of Philadelphia Department of Public Health Air Management Services, Certification#ALL-460
Commonwealth of Pennsylvania Department of Environmental Protection Number 68-05397
California State Environmental Laboratory Accreditation Program Certificate Number 2915
Colorado Department of Public Health and Environment Registration Number AL-23143
Connecticut Department of Public Health Environmental Laboratory Registration Number PH-0105
Massachusetts Department of Labor Standards Asbestos Analytical Services License Number: AA000222
State of Maine Department of Environmental Protection License Number: LB-0075
New York State Department of Health Laboratory ID: 11983
State of Rhode Island Department of Health Certification No.: PLM00126
Texas Department of State Health Services License Number: 300440
Commonwealth of Virginia Department of Professional and Occupational Regulation Number: 3333000323
State of Washington Department of Ecology Laboratory ID: C989
State of West Virginia Bureau for Public Health Analytical Laboratory Number: LT000616
Vermont Department of Health License Number: Asb-Co-An-000006
Louisiana Department of Environmental Quality AI Number 212253, LELAP Lab ID #05088

26019910

From: Benjamin Froehlich <bfroehlich@helixenv.com>
Sent: Monday, April 6, 2026 11:37 AM
To: Lab Reports <labreports@sanair.com>
Subject: Re: Analysis Report for Job 26017031 is complete.

EXTERNAL EMAIL: DO NOT CLICK on links or attachments unless you recognize the sender and know the content is safe.

Hello,

May I have the following sample reanalyzed as a composite sample with drywall AND joint compound EPA 400 Point Count with 48 hour Turn Around please?

7462-03-18-06

Thanks,
Ben Froehlich
Helix Environmental, Inc.
(937) 226-0650

> On Mar 25, 2026, at 10:08 AM, SanAir Technologies Laboratory, Inc. <labreports@sanair.com> wrote:
>
> <26017031_App Architecture, 4614 Wilmington Pike, Dayton, OH_202632510819.pdf>

RMB APR 06 2026 11:40am

PHGT 26019910

HELIX ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 4541
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@he

SanAir ID Number
PLM 26016018



Received by MC on 3/19/26 at 10:25 AM

OR/NO

LABORATORY: SanAir
DATE SAMPLED: 3/18/2026
DATE REQUIRED: 24 HR TAT
JOB NO./LOCATION: 7462 / Dayton, OH
CLIENT: Amy Architecture
BUILDING: 4660 W. Minuteman Pkwy
INSPECTOR: Dan Froehlich
JOB NUMBER: 7462

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED: Asbestos PLM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
7462-03-18-01	120 SF	D(4628), 1st Fl., NE Area, Bathrooms, Wall, 3rd corner, 3' Ht.	Textured layer	N	P	on Dymall
7462-03-18-02	1420 SF	D, 1st Fl., 9th Area, On Floor, middle floor, 0' Ht.	Tan Carpet Mastix	N	F	-
7462-03-18-03	-	D, 1st Fl., NE Central Area, On concrete floor, 0' Ht.	Tan Carpet Mastix	N	F	
7462-03-18-04	1600 SF	E(4630), 1st Fl., NE Central Area, 10' Ht.	2" x 4" Ceiling tile Horizontal fissures and holes	F	P	33 x 6 = 198
7462-03-18-05	-	E(4630), 1st Fl., SV Central Area, 10' Ht.	2" x 4" Ceiling tile Horizontal fissures and holes	F	F	
7462-03-18-06	1000 SF	E, 1st Fl., Main Room, E. wall, West Central Area, at corner of fire chase, 5.5' Ht.	Original ad joint comp and	N	P	1100 SF
7462-03-18-07	-	E, 1st Fl., Main Room, E. wall, West Central Area, 8' Ht.	Original ad joint comp and	N	P	
7462-03-18-08	60 SF	E, 1st Fl., Main Room, S. wall, West Area, 0' Ht.	4" Black Cove Base and Tan Mastix	N	F	
7462-03-18-09	-	E, 1st Fl., Main Room, E. wall, S. Area, 0' Ht.	4" Black Cove Base and Tan Mastix	N	F	
7462-03-18-10	1450 SF	E, 1st Fl., Main Room, Central Area, 0' Ht.	12" x 12" Light ad Dark grey mottled floor tile + Tan Mastix	N	AF	+ Black Mastix
7462-03-18-11	-	E, 1st Fl., Main Room, Central Area, 0' Ht.	12" x 12" Light ad Dark grey mottled floor tile + Tan Mastix	N	F	
7462-03-18-12	-	E, 1st Fl., Main Room, SE Area, Above CT, 12' Ht.	Roofing concrete concrete	N	F	over whole SF

THIS IS A CHAIN OF CUSTODY DOCUMENT. PLEASE COMPLETE, SIGN AND DATE. PLEASE RETURN ORIGINAL TO HELIX ENVIRONMENTAL, INC.

REC'D 1	Relinquished by: Dan Froehlich	Company: Helix Env, Inc.	Date/Time: 3/18/2026 17:00	REC'D 3	Relinquished by:	Company:	Date/Time:
REC'D 2	Received by:	Company:	Date/Time:	REC'D 4	Relinquished by:	Company:	Date/Time:

HELIX
ENVIRONMENTAL, INC.

SanAir ID Number: 26016018
Received by MC on 3/19/26 at 10:25 AM

LABORATORY:

DATE SAMPLED:

DATE REQUIRED:

JOB NO./LOCATION:

CLIENT:

BUILDING:

INSPECTOR:

JOB NUMBER:

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445

Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED:

HELY SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRABLE/ NON	CONDITION	COMMENTS
1462-03-18-013	1600 SF	E, 1st Fl., N. Wall, E-Central Area, 14 TH	Hard Plaster and skim coat	N	P	
1462-03-18-14	16 SF	F (4634), 4th Fl., West Central Area, 10 TH	2" x 4" ceiling tile, bond Random Holes and stuck fissures	F	F	
1462-03-18-15	-	F, 1st Fl., West Central Area, Falla tile, 6 TH	2" x 4" ceiling tile, Random Holes and stuck fissures, Raffle	P	P	Random Holes and "bangles"
1462-03-18-16	1300 SF	F, 1st Fl., SW Area, Main Rm, 10 TH	2" x 4" ceiling tile, Random Holes and stuck fissures	F	F	
1462-03-18-17	-	F, 1st Fl., Main Rm, NE Area, 10 TH	2" x 4" ceiling tile, Random Holes and stuck fissures	F	F	
1462-03-18-18	160 SF	F, 1st Fl., Main Room, NW Central Area, 10 TH	2" x 4" ceiling tile, Horizontal Fissures and Holes	F	F	
1462-03-18-19	-	F, 1st Fl., SE Restroom, SW Area, 8 TH	2" x 4" ceiling tile, Horizontal Fissures and Holes	F	P	
1462-03-18-20	1700 SF	F, 1st Fl., Main Rm, S. Wall, West Central Area, Above ceiling tile, 10 TH	Dry wall and joint compound	N	G	
1462-03-18-21	-	F, 1st Fl., SE Restroom, West wall, N. Area, Above CT, 6 TH	Dry wall and joint compound	N	F	
1462-03-18-22	66 SF	F, 1st Fl., Main Sales Rm, West wall, N. Central Area, 08 TH	4" Black cove Base; tan mastic	N	G	
1462-03-18-23	-	F, 1st Fl., Main Sales Rm, E. wall, 2nd fl entrance to SE Restroom, 08 TH	4" Black cove Base; tan mastic	N	G	
1462-03-18-24	1400 SF	F, 1st Fl., Main Rm, Ceiling, 08 TH	2" x 4" Light grey Plain joint mastic	N	P	+ black mastic below

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[illegible]



1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445

Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

SanAir ID Number: PLM 26016018
Received by MC on 3/19/26 at 10:25 AM

PTCT 26016018

LABORATORY: SanAir
DATE SAMPLED: 3/18/2026
DATE REQUIRED: 24 HR TAT
JOB NO./LOCATION: 1462 / Dayton, OH
CLIENT: APP Architecture
BUILDING: 4650 Wilmington Pike
INSPECTOR: Ben Froehlich
JOB NUMBER: 1462

BULK SAMPLE DATA SHEET ANALYSES REQUESTED: Asbestos PLM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
1462-03-18-25	1400 SF	F (463F), 1st Fl, NW Area	12" x 12" Light Grey Plain Floor tile, dark Ceramic tile thinset Mortar; Grout	N	G	+ Black Mastik
1462-03-18-26	35 SF	F, 1st Fl, SE Restroom, W. Central Area, At Entrance	Ceramic tile thinset Mortar; Grout	N	G	+ Black Mastik on bottom
1462-03-18-27	—	F, 1st Fl, SE Restroom, W. Central Area, At Entrance	Ceramic tile thinset Mortar; Grout	N	G	↓ under 8" square tile
1462-03-18-28	105 SF	F, 1st Fl, Main Room, West wall, On soffits	Hard plaster and skim Coat	N	P	No plaster except outer walls
1462-03-18-29	3500 SF	G Club, Entry Ceiling	2' x 4' Ceiling tile Random Holes & Gouges	F	P	44' x 80' = 3520
1462-03-18-30	—	G Club, Ceiling above bar	2' x 4' Ceiling tile Random Holes & Gouges	F	F	
1462-03-18-31	520 SF	G Club Entry Ceiling	10' H Vinyl covered plain	F	G	4 x 16 x 85 SF =
1462-03-18-32	—	G Club Ceiling above bar	10' H Vinyl covered plain	F	G	
1462-03-18-33	52 SF	G Club, West Center Post, N Side	Drywall & joint Compound	N	F	
1462-03-18-34	—	G Club, NE Corner by Restroom	Drywall & joint Compound	N	F	
1462-03-18-35	1800 SF	G Club, S Wall West Area	Hard Plaster & Skim Coat	A	F	
1462-03-18-36	—	G Club, Main Area, N. wall, East Area	Hard Plaster & Skim Coat	N	F	

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ECT-1	Retrieved by: <u>Ben Froehlich</u>	Helix ENV, Inc.	Date/Time: <u>3/18/26 17:00</u>	ECT-2	Retrieved by:	Company:	Date/Time:
ECT-2	Retrieved by:	Company:	Date/Time:	ECT-3	Retrieved by:	Company:	Date/Time:
ECT-4	Retrieved by:	Company:	Date/Time:	ECT-5	Retrieved by:	Company:	Date/Time:

HELIX ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

SanAir ID Number: PLM 26016018
Received by MC on 3/19/26 at 10:25 AM

PLCF 26019910

LABORATORY: SanAir
DATE SAMPLED: 3/18/2026
DATE REQUIRED: 24 HR TAT
JOB NO./LOCATION: 7462 / Dayton, OH
CLIENT: App Architecture
BUILDING: 4650 Wilmington Pike
INSPECTOR: B Prochuk
JOB NUMBER: 7462

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED: Asbestos PLM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FEASIBLE/ NON	CONDITION	COMMENTS
7462-03-18-37	1300 SF	G Club, Bar Area, SE Floor	Dark grey 1/2" thick Floor tile, Brown Mastic	N	F	180+ (89x25)-150
7462-03-18-38	—	G Club, Entry Area Center Floor	12" x 12" Floor Tile Grey & Brown Mastic	N	F	
7462-03-18-39	400 SF	G Club, Floor S of Bar Area	12" x 12" Floor Tile Aqua & Black Mastic	N	F	(12x6) (6x2) 7420 Kotted
7462-03-18-40	—	G Club, Bar Area MRR Floor Entry Area	15" x 12" Floor Tile Aqua & Black Mastic	N	F	
7462-03-18-41	6 SF	G Club, Women's Restroom, NE Corner NW Area, Above Ct	Black Vibration Isolation cloth	N	F	
7462-03-18-42	—	G Club, Women's Restroom, NW Area Above Ct	Black Vibration Isolation cloth	N	F	
7462-03-18-43	500 SF	G Club, Entry S of Door, SW Corner of Floor	4" Cove Base Black & Mastic	N	F	
7462-03-18-44	—	G Club, S Wall Bottom, 40' E of SW corner	4" Cove Base Black & Mastic	N	F	
7462-03-18-45	400 SF	G Club, SW Area Floor at edge of carpet	Tan Carpet Mastic over Black Mastic	N	F	
7462-03-18-46	—	G Club Area NE of Bar in NE Corner, Floor	Tan Carpet Mastic over Black Mastic	N	F	
7462-03-18-47	10 SF	G Club, SE Utility Room, West Wall 9' Area, Below Niche	Tan Construction Adhesive	N	G	
7462-03-18-48	—	G Club, SE Utility Room, West Wall 6' Area	Tan Construction Adhesive	N	G	

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RECEIVED 1	Relinquished by: <u>B Prochuk</u>	Company: <u>Helix Env, Inc</u>	Date/Time: <u>3/18/26 17:00</u>	RECEIVED 3	Relinquished by:	Company:	Date/Time:
RECEIVED 2	Received by:	Company:	Date/Time:	RECEIVED 4	Relinquished by:	Company:	Date/Time:

HELIX ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445

Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

SanAir ID Number: PLM 26016018
Received by MC on 3/19/26 at 10:25 AM

PACT 26017031

LABORATORY: SanAir
DATE SAMPLED: 3/18/2026
DATE REQUIRED: 24 HR TAT
JOB NO./LOCATION: 7462 / Dayton, OH
CLIENT: Any Architecture
BUILDING: 4650 Wilmington Pike
INSPECTOR: Ben Froehlich
JOB NUMBER: 7462

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED: Asbestos PLM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRIABLE/ NON	CONDITION	COMMENTS
7462-03-18-25	1400 SF	F (463F), 1st Fl, NW Area	12" x 12" Light Grey Thin Floor Tile; black mastic	N	G	+ Black Mastic
7462-03-18-26	35 SF	F, 1st Fl, SE Restroom, W. Central Area, At Entrance	Ceramic tile thinset mortar; grout	N	G	+ Black Mastic on bottom
7462-03-18-27	—	F, 1st Fl, SE Restroom, W. Central Area, At Entrance	Ceramic tile thinset mortar; grout	N	G	↓ under 8" square tile
7462-03-18-28	10 SF	F, 1st Fl, Main Room, West wall, On partition	Hard Plaster and skim coat	N	P	No Plaster except outer walls
7462-03-18-29	3500 SF	G Club, Entry Ceiling	2' x 4' Ceiling Tile, Random Holes & Gouges	F	P	44' x 30' = 3520
7462-03-18-30	—	G Club, Ceiling above Bar	2' x 4' Ceiling Tile, Random Holes & Gouges	F	F	
7462-03-18-31	520 SF	G Club Entry Ceiling	vinyl covered plain	F	G	4' x 16' x 8 SF =
7462-03-18-32	—	G Club Ceiling above Bar	vinyl covered plain	F	G	
7462-03-18-33	2 SF	G Club, West Center Post, N Side	Drywall & joint compound	N	F	
7462-03-18-34	—	G Club, NE Corner by Restrooms	Drywall & joint compound	N	F	
7462-03-18-35	1800 SF	G Club, S Wall West Area	Hard Plaster & Skim Coat	A	F	
7462-03-18-36	—	G Club, Main Area, N. wall, East Area	Hard Plaster & Skim Coat	N	F	

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MSD 1	Requisitioned by: <u>Ben Froehlich</u>	Company: <u>Helix Env. Inc.</u>	Date/Time: <u>3/18/26 17:00</u>	MSD 2	Requisitioned by:	Company:	Date/Time:
MSD 2	Received by:	Company:	Date/Time:	MSD 3	Requisitioned by:	Company:	Date/Time:
MSD 3	Received by:	Company:	Date/Time:	MSD 4	Requisitioned by:	Company:	Date/Time:

PTCT 26017031

HELIX ENVIRONMENTAL, INC.

SanAir ID Number: *PLM* 26016018
Received by MC on 3/19/26 at 10:25 AM

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

LABORATORY: *SanAir*
DATE SAMPLED: *3/18/2026*
DATE REQUIRED: *24 HR TAT*
JOB NO./LOCATION: *7462 / Dayton, OH*
CLIENT: *App Architecture*
BUILDING: *4650 Wilmington Pike*
INSPECTOR: *B Froehlich*
JOB NUMBER: *7462*

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED: *Asbestos PLM*

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
7462-03-18-37	1300 SF	G Club, Bar Area, SE Floor	Dark grey 12" x 12" Floor Tile, Brown Mastic	N	F	180+ (89x26)-150
7462-03-18-38	—	G Club, Entry Area Center Floor	12" x 12" Floor Tile, Grey & Brown Mastic	N	F	
7462-03-18-39	400 SF	G Club, Floor S of Bar Area	12" x 12" Floor Tile, Aqua 4.0 Black Mastic	N	F	(12x6) (6x12) 7420 Mottled
7462-03-18-40	—	G Club, Entry Area MRR Floor	12" x 12" Floor Tile, Aqua 4.0 Black Mastic	N	F	
7462-03-18-41	6 SF	G Club, Women's Restroom, NE Corridor, NW Area, Hand Ct	Black Vibration Isolation Cloth	N	F	
7462-03-18-42	—	G Club, Women's Restroom, NW Area, Hand Ct	Black Vibration Isolation Cloth	N	F	
7462-03-18-43	500 SF	G Club, Entry, S of Door, SW Corner of Floor	4" Cove Base Black & Mastic	N	F	
7462-03-18-44	—	G Club, S Wall Bottom, 40' E of SW Corner	4" Cove Base Black & Mastic	N	F	
7462-03-18-45	400 SF	G Club, SW Area Floor at edge of carpet	Tan Carpet Mastic over Black Mastic	N	F	
7462-03-18-46	—	G Club Area NE of Bar in NE Corner, Floor	Tan Carpet Mastic over Black Mastic	N	F	
7462-03-18-47	10 SF	G Club, SE Utility Room, West Wall, G. Area, Behind Rackboard	Tan Construction Adhesive	N	G	
7462-03-18-48	—	G Club, SE Utility Room, West Wall	Tan Construction Adhesive	N	G	

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RECEIVED 1	Relinquished by: <i>Ben Froehlich</i>	Company: <i>Helix Env, Inc</i>	Date/Time: <i>3/18/26 17:00</i>	RECEIVED 2	Relinquished by:	Company:	Date/Time:
RECEIVED 3	Received by:	Company:	Date/Time:	RECEIVED 4	Relinquished by:	Company:	Date/Time:



The Identification Specialists

Analysis Report
prepared for
Helix Environmental Inc

Report Date: 4/6/2026

**Project Name: App Architecture, 46-46 Wilmington Ave Dayton,
OH**

Project #: 7462

SanAir ID#: 26019193



NVLAP LAB CODE 200870-0

10501 Trade Court, North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | LabReports@SanAir.com | SanAir.com



SanAir ID Number

26019193

FINAL REPORT

4/6/2026 10:27:29 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: App Architecture, 46-46 Wilmington Ave
Dayton, OH
Collected Date: 3/31/2026
Received Date: 4/2/2026 10:45:00 AM

Dear Benjamin Froehlich,

We at SanAir would like to thank you for the work you recently submitted. The 3 sample(s) were received on Thursday, April 02, 2026 via Fax or Email request. The final report(s) is enclosed for the following sample(s): 7462-03-31-03, 7462-03-31-04, 7462-03-31-21.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino". The signature is written in a cursive, flowing style.

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 3 samples in Good condition.



SanAir ID Number
26019193
FINAL REPORT
4/6/2026 10:27:29 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: App Architecture, 46-46 Wilmington Ave
Dayton, OH
Collected Date: 3/31/2026
Received Date: 4/2/2026 10:45:00 AM

Analyst: Magalis, Lane

Asbestos Bulk EPA PLM 400 Point Count

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-31-03 / 26019193-001 2'x4' Ceiling Tile, Random Holes and Gouges, H, 1st Fl, Main	White Fibrous Homogeneous		100% Other	< 0.25% Amosite
7462-03-31-04 / 26019193-002 2'x4' Ceiling Tile, Random Holes and Gouges, H, 1st Fl, Main	White Fibrous Homogeneous		100% Other	< 0.25% Amosite
7462-03-31-21 / 26019193-003 Drywall and Joint Compound, H Center E Restrooms, Joint Comp	Tan Non-Fibrous Homogeneous		98.5% Other	1.5% Chrysotile

Analyst:

Analysis Date: 4/6/2026

Approved Signatory:

Date: 4/6/2026

Disclaimer and Additional Information:
400 Point Count Method EPA 600/R-93/116

EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of
Asbestos in Bulk Insulation Samples

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

This report is the sole property of the client named on the chain-of-custody (COC) submitted to SanAir Technologies Laboratory, Inc. (SanAir). Results in the report are confidential information intended only for the use by the customer listed on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission. The final report shall not be reproduced, except in full, without written approval of the laboratory to assure that parts of the report are not taken out of context. This report and any information contained within shall not be edited, altered, or modified in any way by any persons or agencies receiving, viewing, distributing, or otherwise possessing a copy of this final report. The laboratory reserves the right to perform amendments to any finalized report, of which shall supersede and make obsolete any previous editions. Such changes, modifications, additions, or deletions shall be effective immediately upon notice thereof, which may be given by means including but not limited to posting on the SanAir client portal website, electronic or conventional mail, or by any other means.

The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition in which they arrived at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, P.O. number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start - stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted. When the client requires samples to be tested that deviates from a specific method or condition, all reported results may be affected by the deviation. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted. The limit of detection is 0.25%. Samples are held for a period of 60 days.

This report does not constitute and shall not be used to claim product, process, system, or person certification, approval, or endorsement by NVLAP, NIST, NELAC, AIHA LAP, LLC or any other U.S. governmental agencies; all or some tests contained in this report may not be accredited by every local, state, and federal regulatory agency. Refer to the SanAir website at www.sanair.com for copies of current certificates and scopes of various accreditations, certifications, and licenses or contact the laboratory for inquiries regarding the status or scope of an accreditation or certification.

Asbestos Accreditations, Certifications, and Licenses

National Voluntary Laboratory Accreditation Program (NVLAP) Lab Code 200870-0
City of Philadelphia Department of Public Health Air Management Services, Certification#ALL-460
Commonwealth of Pennsylvania Department of Environmental Protection Number 68-05397
California State Environmental Laboratory Accreditation Program Certificate Number 2915
Colorado Department of Public Health and Environment Registration Number AL-23143
Connecticut Department of Public Health Environmental Laboratory Registration Number PH-0105
Massachusetts Department of Labor Standards Asbestos Analytical Services License Number: AA000222
State of Maine Department of Environmental Protection License Number: LB-0075
New York State Department of Health Laboratory ID: 11983
State of Rhode Island Department of Health Certification No.: PLM00126
Texas Department of State Health Services License Number: 300440
Commonwealth of Virginia Department of Professional and Occupational Regulation Number: 3333000323
State of Washington Department of Ecology Laboratory ID: C989
State of West Virginia Bureau for Public Health Analytical Laboratory Number: LT000616
Vermont Department of Health License Number: Asb-Co-An-000006
Louisiana Department of Environmental Quality AI Number 212253, LELAP Lab ID #05088

26019193

From: Benjamin Froehlich <helix@helixenv.com>
Sent: Thursday, April 2, 2026 10:37 AM
To: Lab Reports <labreports@sanair.com>
Subject: Re: Analysis Report for Job 26019013 is complete.

EXTERNAL EMAIL: DO NOT CLICK
on links or attachments unless you
recognize the sender and know the
content is safe.

Hello,

May I have 48 hour point counts of the following samples?

-

7462-03-31-03 / 26019013-003

7462-03-31-04 / 26019013-004

7462-03-31-21 / 26019013-021, Joint Compound only

Thanks,
Ben Froehlich
Helix Environmental, Inc.
(937) 226-0650

On Apr 2, 2026, at 10:11 AM, SanAir Technologies Laboratory <labreports@sanair.com> wrote:

<26019013_46 - 46 Wilmington Avenue Dayton, OH_20264210114.pdf>

RMB

APR 02 2026 10:45am

SanAir ID Number
PLM 26019013

PTCT 26019193

HELIX

ENVIRONMENTAL, INC.



Received by MC on 4/1/26 at 10:30 AM

ES OR NO

LABORATORY: SanAir
DATE SAMPLED: 3/31/2026
DATE REQUIRED: 24 HR TAT
JOB NO./LOCATION: 1462 / Dayton, OH
CLIENT: App Architecture
BUILDING: 46 - 46 Wilmington Avenue
INSPECTOR: B. Fruehlich
JOB NUMBER: 1462

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

BULK SAMPLE DATA SHEET ANALYSES REQUESTED: Asbestos PCM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
1462-03-31-01	4500 SF	H, 1st Fl, Main Large North Room, 10' Ht.	2' x 4' Ceiling tile Random holes and gouges	F	F	Throughout N. Hall
1462-03-31-02	-	H, 1st Fl, Main Large North Room, NE Area, 10' Ht.	2' x 4' Ceiling tile Random holes and gouges	F	F	
1462-03-31-03	-	H, 1st Fl, Main Large S. Room, NE Central Area, 10' Ht.	2' x 4' Ceiling tile Random holes and gouges	F	F	
1462-03-31-04	180 SF	H, 1st Fl, Main Large N. Room, NE Area, 10' Ht.	2' x 4' Ceiling tile Longways Fishers and Holes	F	F	
1462-03-31-05	-	H, 1st Fl, NW Customer Services, E. Central Area, 10' Ht.	2' x 4' Ceiling tile Longways Fishers and Holes	F	F	
1462-03-31-06	840 SF	H, 1st Fl, N. Hallway, West Area, 10' Ht.	2' x 4' Ceiling tile Smooth, with pinholes	F	P	Fibershed
1462-03-31-07	-	H, 1st Fl, N. Hallway, East Area, 10' Ht.	2' x 4' Ceiling tile Smooth, with pinholes	F	P	↓
1462-03-31-08	320 SF	H, 1st Fl, Main Large N. Room, E. Central Area, 10' Ht.	2' x 4' Ceiling tile, Rough with pinholes	F	P	
1462-03-31-09	-	H, 1st Fl, Main Large N. Room, NE Central Area, 10' Ht.	2' x 4' Ceiling tile, Rough with pinholes	F	P	Above notes of
1462-03-31-10	1080 SF	H, 1st Fl, N. Hallway, NE Central Area, 4.5' Ht.	2' x 4' Ceiling tile, Rough Directional Fishers, Reveal	F	F	on pallets 1080 SF + Aluminizing
1462-03-31-11	-	H, 1st Fl, N. Hallway, NE Area, 4' Ht.	2' x 4' Ceiling tile, Rough Directional Fishers, Reveal	F	P	↓ Backing
1462-03-31-12	45 SF	H, 1st Fl, N. Hallway, NE Area, 4.5' Ht.	2' x 4' Ceiling tile, Rough Reveal	F	F	

THIS IS A CHAIN OF CUSTODY DOCUMENT. PLEASE COMPLETE, SIGN, AND DATE. PLEASE RETURN ORIGINAL TO HELIX ENVIRONMENTAL, INC.

RECEIVED 1	Relinquished by: <u>B. Fruehlich</u>	Company: <u>Helix Env, Inc.</u>	Date/Time: <u>3/31/26 11:00</u>	RECEIVED 2	Relinquished by:	Company:	Date/Time:
RECEIVED 2	Received by:	Company:	Date/Time:	RECEIVED 3	Relinquished by:	Company:	Date/Time:

HELIX ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

SanAir ID Number
PLM 26019013
Received by MC on 4/1/26 at 10:30 AM

5 OR NO

PLCT 26019193

LABORATORY: SunAir
DATE SAMPLED: 3/31/2026
DATE REQUIRED: 24 HR TAT
JOB NO./LOCATION: 1462 Dayton, OH
CLIENT: App Architecture
BUILDING: 46 - 46 Wilmington Avenue
INSPECTOR: B. Froehlich RA Froehlich
JOB NUMBER: 1462

BULK SAMPLE DATA SHEET ANALYSES REQUESTED: Asbestos PCM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
1462-03-31-13	1800 SF	H Entrance Area Floor,	Black Mastic	N	P	under 9"x9" floor tiles (missing) throughout
1462-03-31-14	-	H South Center Floor, about 6' N of S. Wall Center	Black Mastic	N	P	"
1462-03-31-15	90 SF	H Elevated Office Floor, Doorway Center at top of Steps	12" x 12" Floor Tiles, Grey Stained over	N	F	White Flooring w/ Black Mastic or Wood
1462-03-31-16	-	H Elevated Office Floor, Center E Floor	12" x 12" Floor Tiles Grey Stained over	N	F	White Flooring w/ Black Mastic or Wood
1462-03-31-17	1000 SF	H West Entrance Area, S of Doors	Drywall Joint Compound	N	F	
1462-03-31-18	-	H South Wall at E Archway NE Corner of Concrete Column	Drywall Joint Compound	N	F	
1462-03-31-19	1000 SF	H North E Wall at E Archway West Entrance Area S of Doors	Drywall	N	F	
1462-03-31-20	-	H North E Wall at E Archway Center	Drywall and Joint Compound	N	F	
1462-03-31-21	-	H Center E Restrooms, SW Corner	Drywall and Joint Compound	N	F	
1462-03-31-22	-	H Center E Restrooms, S Wall by MRR Door	Drywall	N	F	
1462-03-31-23	1900 SF	H SE Roof over Compressors	Black Tar Roofing	N	P	
1462-03-31-24	-	H SE Roof over Compressors	Black Tar Roofing	N	P	with Silver Roof Bunt

THIS IS A CHAIN OF CUSTODY DOCUMENT. PLEASE COMPLETE, SIGN, AND DATE. PLEASE RETURN ORIGINAL TO HELIX ENVIRONMENTAL, INC.

Received by: <i>B. Froehlich</i>	Company: <i>Helix Env. Inc.</i>	Date/Time: <i>3/31/2026 1700</i>	Received by:	Company:	Date/Time:
Received by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

SanAir ID Number

Plan 26019013

PCT 26019193

HELIX

ENVIRONMENTAL, INC.

Received by MC on 4/1/26 at 10:30 AM

S OR NO

LABORATORY:

SunAir

DATE SAMPLED:

3/31/2026

DATE REQUIRED:

24 HR TAT

JOB NO./LOCATION:

7462 Dayton, OH

CLIENT:

Ago Architecture

BUILDING:

4650 - 4690 Wilmington Avenue

INSPECTOR:

B. Froelich RA Froelich

JOB NUMBER:

7462

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445

Phone: (937) 226-0650 Fax: (937) 226-0853 Email: helix@helixenv.com

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED:

Asbestos PCM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
7462-03-31-25	4 SF	H. 1st Fl. N. Hallway, NE Area, 4.5' H.	2'x4' ceiling tile, rough, loose	F	F	Non-Humidified
7462-03-31-26	16 SF	H. 1st Fl. N. Hallway, SE Area, 12' H.	2'x4' ceiling tile, rough, loose	N	F	Corrected for Potholes
7462-03-31-27	16 SF	H. 1st Fl. N. Hallway, SE Area, 4' H.	2'x4' brick concrete floor, rough, loose	N	F	Loose
7462-03-31-28	4 SF	H. 1st Fl. N. Hallway, SE Area, 4' H.	1/8" thick 2'x4' brick concrete floor, rough	N	F	2'x4' = 5x8 = 40 2'x3' = 2x6 = 72
7462-03-31-29	4 SF	H. 1st Fl. N. Hallway, SE Area, 4' H.	1/8" thick 2'x4' brick concrete floor, rough	N	F	
7462-03-31-30	4 SF	H. 1st Fl. NW Entry Room, S. Corridor, 10' H.	1/8" thick 2'x4' brick concrete floor, rough	N	F	
7462-03-31-31	60 SF	H-W Entrance under Windows at Floor	4" Brown concrete base and Brown Mastic	N	F	180 LF x 1/3 = 60 SF
7462-03-31-32	-	H Office Area, E Wall at Half Door to Office	4" Brown concrete base and Brown Mastic	N	F	
7462-03-31-33	35 SF	H-Large S Room, West Wall, SW Area V	4" Black Concrete Base & Brown Mastic	N	F	180 LF x 1/5 = 35 SF
7462-03-31-34	-	H-Large S Room, West Wall, SW Area V	4" Black Concrete Base & Brown Mastic	N	F	
7462-03-31-35	1 SF	H-Large S Room, SW Corner Area at W. Wall	9" x 9" Floor Tile, Grey/Reddish & Black Mastic	N	P	
7462-03-31-36	-	H-Large S Room, SW Corner Area at W. Wall, South	9" x 9" Floor Tile, Grey/Reddish & Black Mastic	N	P	

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Received by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
B. Froelich	Helix Env. Inc.	3/31/2026			
Received by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

SanAir ID Number
PLM 26019013

PLC+ 26019193

HELIX ENVIRONMENTAL, INC.

Received by MC on 4/1/26 at 10:30 AM

ES OR (NO)

LABORATORY: SunAir

DATE SAMPLED: 3/31/2026

DATE REQUIRED: 2+HR YAT

JOB NO./LOCATION: 1462 Dayton, OH

CLIENT: App Architecture

BUILDING: 46 - 46 Wilmington Avenue

INSPECTOR: B. Fricklik B. Fricklik

JOB NUMBER: 1462

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445

Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED: Asbestos PCM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
1462-03-31-37		H, 1st Fl, Large S. Hwy, West Wall, S. 0.5 ft	Hard Plaster and skim coat	N	F	
1462-03-31-38	-	H, Large S. Hwy S. Wall, Central Hwy 5.5 ft	Hard Plaster and skim coat	N	R	
1462-03-31-39	-	H, 1st Fl, Large N. Hwy S. Wall, West end of room, 5 ft	Hard Plaster and skim coat	N	F	
1462-03-31-40	20g	H, 1st Fl, Large N. Hwy West Hwy 6 ft	Brown construction adhesive	N	F	
1462-03-31-41	-	H, 1st Fl, Large N. Hwy West Hwy 6 ft	Brown construction adhesive	N	F	
1462-03-31-						
1462-03-31-						
1462-03-31-						
1462-03-31-						
1462-03-31-						
1462-03-31-						
1462-03-31-						
1462-03-31-						

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Received by: B. Fricklik	Company: Helix Env. Inc.	Date/Time: 3/31/2026 1:00	Received by:	Company:	Date/Time:
Received by:	Company:	Date/Time:	Received by:	Company:	Date/Time:



The Identification Specialists

Analysis Report
prepared for
Helix Environmental Inc

Report Date: 4/8/2026

**Project Name: App Architecture, 46-46 Wilmington Avenue,
Dayton**

Project #: 7462

SanAir ID#: 26019896



NVLAP LAB CODE 200870-0

10501 Trade Court, North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | LabReports@SanAir.com | SanAir.com



SanAir ID Number
26019896
FINAL REPORT
4/8/2026 9:03:45 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: App Architecture, 46-46 Wilmington Avenue,
Dayton
Collected Date: 3/31/2026
Received Date: 4/6/2026 11:30:00 AM

Dear Benjamin Froehlich,

We at SanAir would like to thank you for the work you recently submitted. The 1 sample(s) were received on Monday, April 06, 2026 via Fax or Email request. The final report(s) is enclosed for the following sample(s): 7462-03-31-21.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino". The signature is written in a cursive, flowing style.

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 1 samples in Good condition.



SanAir ID Number
26019896
FINAL REPORT
4/8/2026 9:03:45 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: App Architecture, 46-46 Wilmington Avenue,
Dayton
Collected Date: 3/31/2026
Received Date: 4/6/2026 11:30:00 AM

Analyst: Magalis, Lane

Asbestos Bulk EPA PLM 400 Point Count

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-03-31-21 / 26019896-001 Drywall and Joint Compound, Composite, H Center E Restrooms, Composite	Various Non-Fibrous Heterogeneous		100% Other	< 0.25% Chrysotile

Analyst:

Analysis Date: 4/7/2026

Approved Signatory:

Date: 4/8/2026

Disclaimer and Additional Information:
400 Point Count Method EPA 600/R-93/116

EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of
Asbestos in Bulk Insulation Samples

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

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The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition in which they arrived at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, P.O. number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start - stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted. When the client requires samples to be tested that deviates from a specific method or condition, all reported results may be affected by the deviation. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted. The limit of detection is 0.25%. Samples are held for a period of 60 days.

This report does not constitute and shall not be used to claim product, process, system, or person certification, approval, or endorsement by NVLAP, NIST, NELAC, AIHA LAP, LLC or any other U.S. governmental agencies; all or some tests contained in this report may not be accredited by every local, state, and federal regulatory agency. Refer to the SanAir website at www.sanair.com for copies of current certificates and scopes of various accreditations, certifications, and licenses or contact the laboratory for inquiries regarding the status or scope of an accreditation or certification.

Asbestos Accreditations, Certifications, and Licenses

National Voluntary Laboratory Accreditation Program (NVLAP) Lab Code 200870-0
City of Philadelphia Department of Public Health Air Management Services, Certification#ALL-460
Commonwealth of Pennsylvania Department of Environmental Protection Number 68-05397
California State Environmental Laboratory Accreditation Program Certificate Number 2915
Colorado Department of Public Health and Environment Registration Number AL-23143
Connecticut Department of Public Health Environmental Laboratory Registration Number PH-0105
Massachusetts Department of Labor Standards Asbestos Analytical Services License Number: AA000222
State of Maine Department of Environmental Protection License Number: LB-0075
New York State Department of Health Laboratory ID: 11983
State of Rhode Island Department of Health Certification No.: PLM00126
Texas Department of State Health Services License Number: 300440
Commonwealth of Virginia Department of Professional and Occupational Regulation Number: 3333000323
State of Washington Department of Ecology Laboratory ID: C989
State of West Virginia Bureau for Public Health Analytical Laboratory Number: LT000616
Vermont Department of Health License Number: Asb-Co-An-000006
Louisiana Department of Environmental Quality AI Number 212253, LELAP Lab ID #05088

26019896

From: Benjamin Froehlich <helix@helixenv.com>
Sent: Monday, April 6, 2026 11:26 AM
To: Lab Reports <labreports@sanair.com>
Subject: Re: Analysis Report for Job 26019193 is complete.

EXTERNAL EMAIL: DO NOT CLICK on links or attachments unless you recognize the sender and know the content is safe.

Hello,

May I have the following sample reanalyzed as a composite sample with drywall AND joint compound EPA 400 Point Count with 48 hour Turn Around please?

7462-03-31-21

Thanks,
Ben Froehlich
Helix Environmental, Inc.
(937) 226-0650

> On Apr 6, 2026, at 10:27 AM, SanAir Technologies Laboratory <labreports@sanair.com> wrote:
>
> <26019193_App Architecture, 46-46 Wilmington Ave Dayton, OH_202646102729.pdf>

RMB APR 06 2026 11:30am

SanAir ID Number
 Please 26019013

ACT 26019896



Received by MC on 4/1/26 at 10:30 AM

ES OR NO

LABORATORY: SanAir
 DATE SAMPLED: 3/31/2026
 DATE REQUIRED: 2+ HR TAT
 JOB NO./LOCATION: 7462 Dayton, OH
 CLIENT: Ap Architecture
 BUILDING: 46 - 46 Wilmington Avenue
 INSPECTOR: B. Fruehlich
 JOB NUMBER: 7462

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
 Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

BULK SAMPLE DATA SHEET ANALYSES REQUESTED: Asbestos PCM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
7462-03-31-01	4800 SF	H, 1st Fl, Main North Room, 10' Ht.	2'x4' Ceiling tile Random holes and gouges	F	F	Throughout N. Hall A
7462-03-31-02	-	H, 1st Fl, Main Large North Room, NE Area, 10' Ht.	2'x4' Ceiling tile Random holes and gouges	F	F	
7462-03-31-03	-	H, 1st Fl, Main Large S. Room, NE Central Area, 10' Ht.	2'x4' Ceiling tile Random holes and gouges	F	F	
7462-03-31-04	180 SF	H, 1st Fl, Main Large R. Room, NE Area, 10' Ht.	2'x4' Ceiling tile Longways Fishers and Holes	F	F	
7462-03-31-05	-	H, 1st Fl, NW Customer Services, E. Central Area, 10' Ht.	2'x4' Ceiling tile Longways Fishers and Holes	F	F	
7462-03-31-06	840 SF	H, 1st Fl, N. Hallway, West Area, 10' Ht.	2'x4' Ceiling tile Smooth, with pinholes	F	P	Fiberless
7462-03-31-07		H, 1st Fl, N. Hallway, East Area, 10' Ht.	2'x4' Ceiling tile Smooth, with pinholes	F	P	↓
7462-03-31-08	320 SF	H, 1st Fl, Main Large N. Room, E. Central Area, 10' Ht.	2'x4' Ceiling tile, rough with pinholes	F	P	
7462-03-31-09		H, 1st Fl, Main Large N. Room, NE Central Area, 10' Ht.	2'x4' Ceiling tile, rough with pinholes	F	P	Above notes of
7462-03-31-10	1040 SF	H, 1st Fl, N. Hallway, NE Central Area, 4.5' Ht.	2'x4' Ceiling tile, rough Discolored Fishers, reveal	F	F	on pallets A/urminizing
7462-03-31-11	-	H, 1st Fl, N. Hallway, NE Area, 4' Ht.	2'x4' Ceiling tile, rough Fishers, reveal	F	P	↓ Backing
7462-03-31-12	43 SF	H, 1st Fl, N. Hallway, NE Area, 4.5' Ht.	2'x4' Ceiling tile, rough Reveal	F	F	

THIS IS A CHAIN OF CUSTODY DOCUMENT. PLEASE COMPLETE, SIGN, AND DATE. PLEASE RETURN ORIGINAL TO HELIX ENVIRONMENTAL, INC.

REC'D 1	Received by: <u>B. Fruehlich</u>	Company: <u>Helix Env, Inc.</u>	Date/Time: <u>3/31/26 1:00</u>	REC'D 2	Received by:	Company:	Date/Time:
REC'D 3	Received by:	Company:	Date/Time:	REC'D 4	Received by:	Company:	Date/Time:

SanAir ID Number
Pur 26019013

Pfct 26019896

HELIX ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445

Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

Received by MC on 4/1/26 at 10:30 AM

S OR NO

LABORATORY:

SanAir

DATE SAMPLED:

3/31/2026

DATE REQUIRED:

24 HR TAT

JOB NO./LOCATION:

1462 Dayton, OH

CLIENT:

Agg Architecture

BUILDING:

46 - 46 Wilmington Avenue

INSPECTOR:

B. Froehlich R. Froehlich

JOB NUMBER:

1462

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED:

Asbestos PCM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
1462-03-31-13	18,000 SF	H Entrance Area Floor,	Black Mastic	N	P	under 9"x9" floor tiles (missing) throughout
1462-03-31-14	-	H South Center Floor, about 6' N of S. Wall Center	Black Mastic	N	P	"
1462-03-31-15	90 SF	H Elevated Office Floor, Doorway Center at top of Steps	12" x 12" Floor Tiles, 2" H Gypsum Struck over	N	F	White Flooring w/ Black Mastic on Wood
1462-03-31-16	-	H Elevated Office Floor, Center E Floor	12" x 12" Floor Tiles, 2" H Gypsum Struck over	N	F	White Flooring w/ Black Mastic on Wood
1462-03-31-17	10,000 SF	H West Entrance Area, S of Doors	Drywall, Joint Compound	N	F	
1462-03-31-18	-	H South E/W Wall at E Archway NE Corner of Concrete Column + H	Drywall Joint Compound	N	F	
1462-03-31-19	10,000 SF	H North E/W Wall at E Archway or West Entrance Area, S of Doors	Drywall	N	F	
1462-03-31-20	-	H North E/W Wall at E Archway Center	Drywall and Joint Compound	N	F	
1462-03-31-21	-	H Center E Restrooms, S/W Corner	Drywall and Joint Compound	N	F	
1462-03-31-22	-	H Center E Restrooms, S Wall by MRR Door	Drywall	N	F	
1462-03-31-23	19,000 SF	H SE Roof over Compressors	Black Tar Roofing	N	P	
1462-03-31-24	-	H SE Roof over Compressors	Black Tar Roofing	N	P	with Silver Roof Paint

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Requisitioned by:	Helix Env. Inc.	3/31/2026	Company:	Date/Time:
Received by:			Company:	Date/Time:

SanAir ID Number
PLM 26019013

PG 26019896

HELIX ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

Received by MC on 4/1/26 at 10:30 AM

S OR NO

LABORATORY:

DATE SAMPLED:

DATE REQUIRED:

JOB NO./LOCATION:

CLIENT:

BUILDING:

INSPECTOR:

JOB NUMBER:

SanAir

3/31/2026

24 HR TAT

7462/Dayton, OH

App Architecture

4650 - 465001/Minister Avenue

B. Froehlich RA Froehlich

7462

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED:

Asbestos PCM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
7462-03-31-25	4 SF	H. 1st Fl., W. Hallway, NE Area, 4.5 Hli	2'x2' Ceiling tile, Loose, Kevlar	F	F	Non-Asphaltized
7462-03-31-26	16 SF	H. 1st Fl., N. Hallway, SE Area, 12 Hli	2'x4' Dry Cementitious Panel, Dry Cementitious Panel, Rough	N	F	Corrected for Pooling
7462-03-31-27	16 SF	H. 1st Fl., N. Hallway, SE Area, 4 Hli	2'x4' Dry Cementitious Panel, Dry Cementitious Panel, Rough	N	F	Loose
7462-03-31-28	4 SF	H. 1st Fl., N. Hallway, SE Area, 4 Hli	1/8" Thick 2'x4' Dry Cementitious Panel, Rough	N	F	2'x4' = 5x8 = 40 2'x3' = 12x6 = 72
7462-03-31-29	4 SF	H. 1st Fl., N. Hallway, SE Area, 4 Hli	1/8" Thick 2'x4' Dry Cementitious Panel, Rough	N	F	
7462-03-31-30	10 SF	H. 1st Fl., NW Entry Room, S. Corridor, 10 Hli	1/8" Thick 2'x4' Dry Cementitious Panel, Rough	N	F	
7462-03-31-31	60 SF	H-W Entrance under Windows at Floor	4" Brown Cor Base and Brown Mastic	N	F	180 LF x 1/3 = 60 SF
7462-03-31-32	-	H Office Area, E Wall at Half Door to Office	4" Brown Cor Base and Brown Mastic	N	F	
7462-03-31-33	35 SF	H-Large S Room, West Wall, 35 SF Area V	4" Black Cor Base and Brown Mastic	N	F	100 LF x 1/3 = 35 SF
7462-03-31-34	-	H-Large S Room, West Wall, 4 Hli	4" Black Cor Base and Brown Mastic	N	F	
7462-03-31-35	1 SF	H-Large S Room, SW Corner Area at W. Wall	9" x 9" Floor Tile, Gray/Mottled Black Mastic	N	P	
7462-03-31-36	-	H-Large S Room, SW Corner Area at W. Wall, South	9" x 9" Floor Tile, Gray/Mottled Black Mastic	N	P	

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Received by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
B. Froehlich	Helix Env. Inc.	3/31/2026			
Received by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

SanAir ID Number
PLM 26019013

Pfct: 26019896

HELIX ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

Received by MC on 4/1/26 at 10:30 AM

ES OR NO

LABORATORY:

SanAir

DATE SAMPLED:

3/31/2026

DATE REQUIRED:

2+ HR TAT

JOB NO./LOCATION:

1462 / Dayton, OH

CLIENT:

App Architecture

BUILDING:

46 - 46 Wilmington Avenue

INSPECTOR:

B. Froelich B. Froelich

JOB NUMBER:

1462

BULK SAMPLE DATA SHEET

ANALYSES REQUESTED:

Asbestos PCM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
1462-03-31-37		H, 1st Fl, Large S. Rm, West wall, S. corner area	Hard Plaster and skim coat	N	F	
1462-03-31-38	-	H, Large S. Rm, S. Wall, Central area	Hard Plaster and skim coat	N	P	
1462-03-31-39	-	H, 1st Fl, Large N. Rm, S. Wall, West corner area	Hard Plaster and skim coat	N	F	
1462-03-31-40	20 g	H, 1st Fl, Large N. Rm, West wall	Brown construction adhesive	N	F	
1462-03-31-41	-	H, 1st Fl, Large N. Rm, West wall	Brown construction adhesive	N	F	
1462-03-31-						
1462-03-31-						
1462-03-31-						
1462-03-31-						
1462-03-31-						
1462-03-31-						
1462-03-31-						
1462-03-31-						

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Retrieved by: <i>B. Froelich</i>	Company: <i>Helix Env. Inc.</i>	Date/Time: <i>3/31/2026 1:00</i>	Retrieved by:	Company:	Date/Time:
Retrieved by:	Company:	Date/Time:	Retrieved by:	Company:	Date/Time:



The Identification Specialists

Analysis Report
prepared for
Helix Environmental Inc

Report Date: 5/7/2026

Project Name: 4614-4650 Wilmington Pike, Dayton, OH

Project #: 7462

SanAir ID#: 26026172



NVLAP LAB CODE 200870-0

10501 Trade Court, North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | LabReports@SanAir.com | SanAir.com



SanAir ID Number

26026172

FINAL REPORT

5/7/2026 9:49:17 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: 4614-4650 Wilmington Pike, Dayton, OH
Collected Date: 4/30/2026
Received Date: 5/5/2026 10:25:00 AM

Dear Benjamin Froehlich,

We at SanAir would like to thank you for the work you recently submitted. The 1 sample(s) were received on Tuesday, May 05, 2026 via Fax or Email request. The final report(s) is enclosed for the following sample(s): 7462-04-30-16.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

A handwritten signature in black ink that reads "Sandra Sobrino". The signature is written in a cursive, flowing style.

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:

- 1 samples in Good condition.



SanAir ID Number
26026172
FINAL REPORT
5/7/2026 9:49:17 AM

Name: Helix Environmental Inc
Address: 1 Elizabeth Place
Suite 160
Dayton, OH 45417
Phone: 937-226-0650

Project Number: 7462
P.O. Number:
Project Name: 4614-4650 Wilmington Pike, Dayton, OH
Collected Date: 4/30/2026
Received Date: 5/5/2026 10:25:00 AM

Analyst: Hogrefe, Sarah

Asbestos Bulk EPA PLM 400 Point Count

SanAir ID / Description	Stereoscopic	Components		Asbestos Fibers
	Appearance	% Fibrous	% Non-fibrous	
7462-04-30-16 / 26026172-001 Exterior Caulk, H Grocery, Entrance Corner	Grey Non-Fibrous Homogeneous		100% Other	< 0.25% Chrysotile

Analyst:

Approved Signatory:

Analysis Date: 5/7/2026

Date: 5/7/2026

Disclaimer and Additional Information:
400 Point Count Method EPA 600/R-93/116

EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of
Asbestos in Bulk Insulation Samples

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

This report is the sole property of the client named on the chain-of-custody (COC) submitted to SanAir Technologies Laboratory, Inc. (SanAir). Results in the report are confidential information intended only for the use by the customer listed on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission. The final report shall not be reproduced, except in full, without written approval of the laboratory to assure that parts of the report are not taken out of context. This report and any information contained within shall not be edited, altered, or modified in any way by any persons or agencies receiving, viewing, distributing, or otherwise possessing a copy of this final report. The laboratory reserves the right to perform amendments to any finalized report, of which shall supersede and make obsolete any previous editions. Such changes, modifications, additions, or deletions shall be effective immediately upon notice thereof, which may be given by means including but not limited to posting on the SanAir client portal website, electronic or conventional mail, or by any other means.

The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition in which they arrived at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, P.O. number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start - stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted. When the client requires samples to be tested that deviates from a specific method or condition, all reported results may be affected by the deviation. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted. The limit of detection is 0.25%. Samples are held for a period of 60 days.

This report does not constitute and shall not be used to claim product, process, system, or person certification, approval, or endorsement by NVLAP, NIST, NELAC, AIHA LAP, LLC or any other U.S. governmental agencies; all or some tests contained in this report may not be accredited by every local, state, and federal regulatory agency. Refer to the SanAir website at www.sanair.com for copies of current certificates and scopes of various accreditations, certifications, and licenses or contact the laboratory for inquiries regarding the status or scope of an accreditation or certification.

Asbestos Accreditations, Certifications, and Licenses

National Voluntary Laboratory Accreditation Program (NVLAP) Lab Code 200870-0
City of Philadelphia Department of Public Health Air Management Services, Certification#ALL-460
Commonwealth of Pennsylvania Department of Environmental Protection Number 68-05397
California State Environmental Laboratory Accreditation Program Certificate Number 2915
Colorado Department of Public Health and Environment Registration Number AL-23143
Connecticut Department of Public Health Environmental Laboratory Registration Number PH-0105
Massachusetts Department of Labor Standards Asbestos Analytical Services License Number: AA000222
State of Maine Department of Environmental Protection License Number: LB-0075
New York State Department of Health Laboratory ID: 11983
State of Rhode Island Department of Health Certification No.: PLM00126
Texas Department of State Health Services License Number: 300440
Commonwealth of Virginia Department of Professional and Occupational Regulation Number: 3333000323
State of Washington Department of Ecology Laboratory ID: C989
State of West Virginia Bureau for Public Health Analytical Laboratory Number: LT000616
Vermont Department of Health License Number: Asb-Co-An-000006
Louisiana Department of Environmental Quality AI Number 212253, LELAP Lab ID #05088

26026172

From: Benjamin Froehlich <helix@helixenv.com>
Sent: Tuesday, May 5, 2026 10:22 AM
To: Lab Reports <labreports@sanair.com>
Subject: Re: Analysis Report for Job 26025788 is complete.

EXTERNAL EMAIL: DO NOT CLICK on links or attachments unless you recognize the sender and know the content is safe.

Hello,

May I please have 2 day turn-around on a EPA PLM Point Count or EPA PLM NOB for the following sample?

7462-04-30-16 (26025788-016)

Thanks,
Ben Froehlich
Helix Environmental, Inc.
(937) 226-0650

> On May 4, 2026, at 9:53 AM, SanAir Technologies Laboratory <labreports@sanair.com> wrote:
>
> <26025788_4614-4650 Wilmington Pike_20265495313.pdf>

RMB MAY 05 2026 10:25 am

PLC- 26026172

HELIX ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

LABORATORY: SanAir
DATE SAMPLED: 4/30/26
RUSH - YES OR NO: (NO)
DATE REQUIRED: 24 Hr TAT
JOB NO./LOCATION: 7462 / Dayton, OH
CLIENT: App Architecture
BUILDING: 4614 → 4650 Wilmington Pike
INSPECTOR: B. Franklin
JOB NUMBER: 7462

BULK SAMPLE DATA SHEET ANALYSES REQUESTED: Asbestos PLM

HELIX SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
7462-04-30-01		H Grocery Roof, Parapet wall, W side, West Area, 1.5' H	Silverized Black Roofing	N	F	
7462-04-30-02		H Grocery Roof, Parapet Wall S. Side, West Area, 1.5' H	Silverized Black Roofing	N	F	2' around 2 sides
7462-04-30-03		H Grocery Roof, 66 Central Ave, 0' H	Brown Roof Insulation Built up Roof Coatings	NF	F	
7462-04-30-04		H Grocery Roof NW Central Ave, 0' H	Brown Roof Insulation Bituminous Built up Roof	NF	F	
7462-04-30-05		H Grocery Roof, NE Area, on Duct Exhaust, 1' H	Black Roof Patching Compound	N	F	
7462-04-30-06		H, Grocery, SE Area, on Exhaust Duct, 0.5' H	Black Roof Patching Compound	N	F	
7462-04-30-07		B Grocery, West, NW Area, West Parapet Wall, 1' Area, 2.5' H	Bituminous Roofing, Black Seam Sealant	N	F	
7462-04-30-08		H Grocery Roof, S. Parapet Wall West Area, 2.5' H	Bituminous Roofing, Black Seam Sealant	N	F	
7462-04-30-09		H Grocery Roof, N. Area SE Area, 0' H	Black Built up Bituminous Roofing	N	F	
7462-04-30-10		B SW Area, 0' H	Black Bituminous Built up Roofing	N	F	
7462-04-30-11		B NW Area, North Parapet wall, E. Area, on Metal cap, 3.5' H	Grey Sheet Metal Flashing	N	G	
7462-04-30-12		B, South Area, NW Area, NW Corner, on Top of Parapet Wall, 4' H	Grey Sheet Metal Flashing	N	G	

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Relinquished by: <u>B. Franklin</u>	Company: <u>Helix Env. Inc.</u>	Date/Time: <u>4/30/26 12:00</u>	Relinquished by:	Company:	Date/Time:
Received by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

SanAir ID Number
26025788



Received by EDR on 5/1/26 at 10:30 AM

HELIX ENVIRONMENTAL, INC.

1 Elizabeth Place, Suite 160 • Dayton, Ohio 45417-3445
Phone: (937) 226-0650 Fax: (937) 226-0653 Email: helix@helixenv.com

PtC+ 26026172

RUSH - YES OR NO ☒

LABORATORY: Safty
DATE SAMPLED: 4/30/26
DATE REQUIRED: 24 Hr. TAT
JOB NO./LOCATION: 7462 / Porton, OH
CLIENT: App. Architecture
BUILDING: 464 - 4650 Wilmington Ave
INSPECTOR: B. French
JOB NUMBER: 7462

BULK SAMPLE DATA SHEET

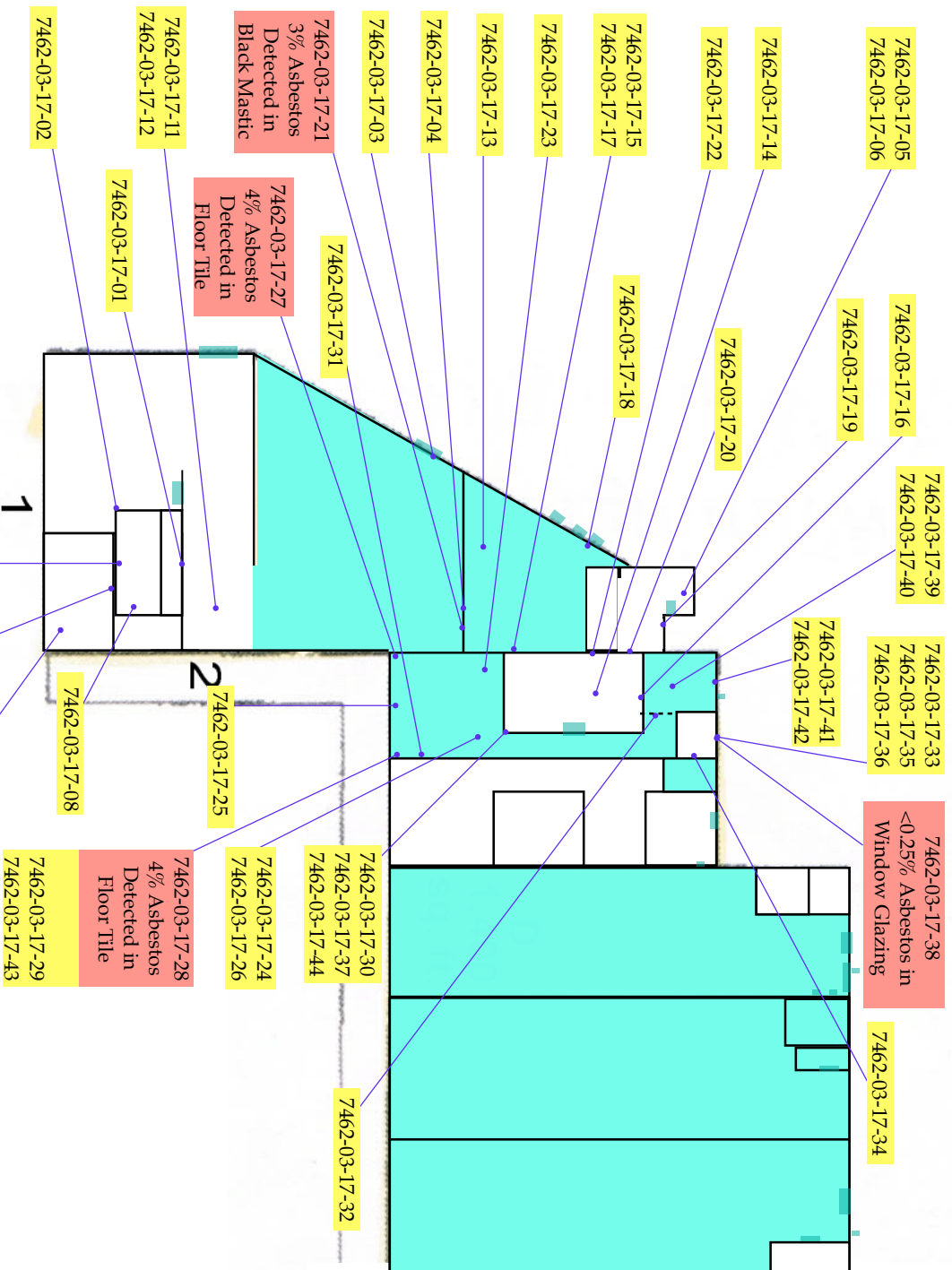
ANALYSES REQUESTED:

Asbestos PLM

HELM SAMPLE ID NUMBER	AMOUNT	REPRESENTATIVE SAMPLE LOCATION	MATERIAL DESCRIPTION	FRAGILE/ NON	CONDITION	COMMENTS
7462-04-30-13	17LF 2.5F	D Rear Door	Gray Exterior Caulk	N	G	17LF x 0.25" x 12" = 51"
7462-04-30-14	18LF 2.5F	H Rear Door	Gray Exterior Caulk	N	F	
7462-04-30-15	105F 60LF	D Stairfront, N Edge of Window	Gray Exterior Caulk	N	G	60' x 0.25" x 12" = 120" = 10'
7462-04-30-16	245F 100LF	H Gracery, Entrance Corner	Gray Exterior Caulk	N	F	100' x 1.25" x 12" = 300" = 25'
7462-04-30-17	35F 10LF	H Gracery, Front Corner Window	Brown Exterior Caulk	N	F	10' x 0.25" x 12" = 30" = 3'
7462-04-30-18	4	H Gracery, Front Corner Window 3 Edge	Brown Exterior Caulk	N	F	Top, Bottom & Side corner by wood mulling
7462-04-30-						
7462-04-30-						
7462-04-30-						
7462-04-30-						
7462-04-30-						
7462-04-30-						

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Received by: <u>B. French</u>	Helix Env, Inc.	4/30/26	4/30/26	4/30/26	4/30/26
Signature	Company	Date/Time	Date/Time	Date/Time	Date/Time
Received by: <u>Rm</u>	Safty ID Number	26025788			
Signature	Company				



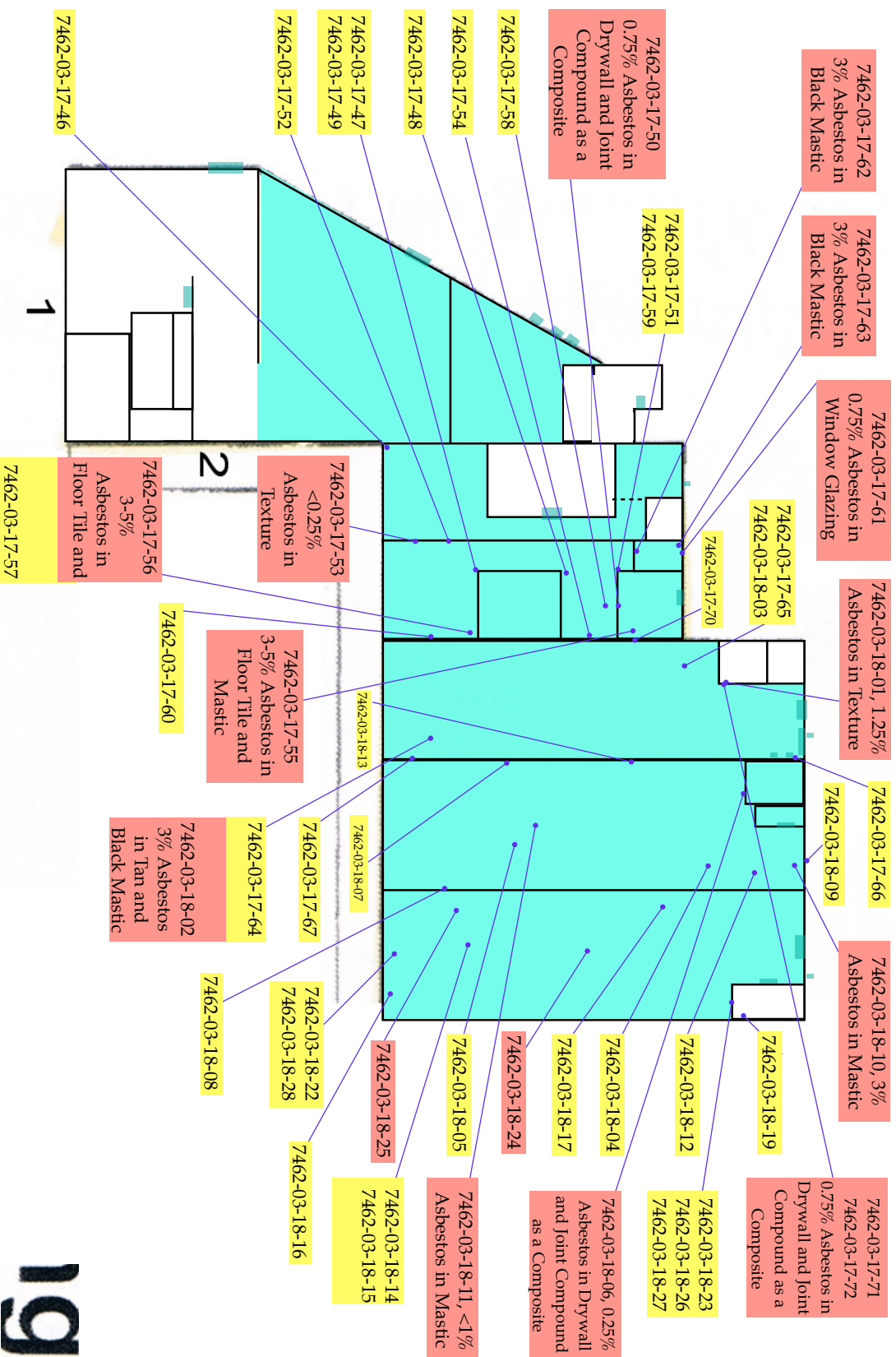
LEGEND

- Asbestos-Containing Material
- Non Asbestos-Containing Material
- Asbestos-Containing Material Present
- Assumed Asbestos-Containing Material
- No Access- No Inspection Performed

ASBESTOS SAMPLE LOCATIONS
1ST FLOOR, NORTH
4650 WILMINGTON PIKE
KETERING, OH

HELIXXXXX
ENVIRONMENTAL, INC.

1 ELIZABETH PLACE, SUITE 160H
DAYTON, OHIO 45417
937-226-0650



igt

ASBESTOS SAMPLE LOCATIONS

1ST FLOOR, CENTER

4650 WILMINGTON PIKE

KETTERING, OH

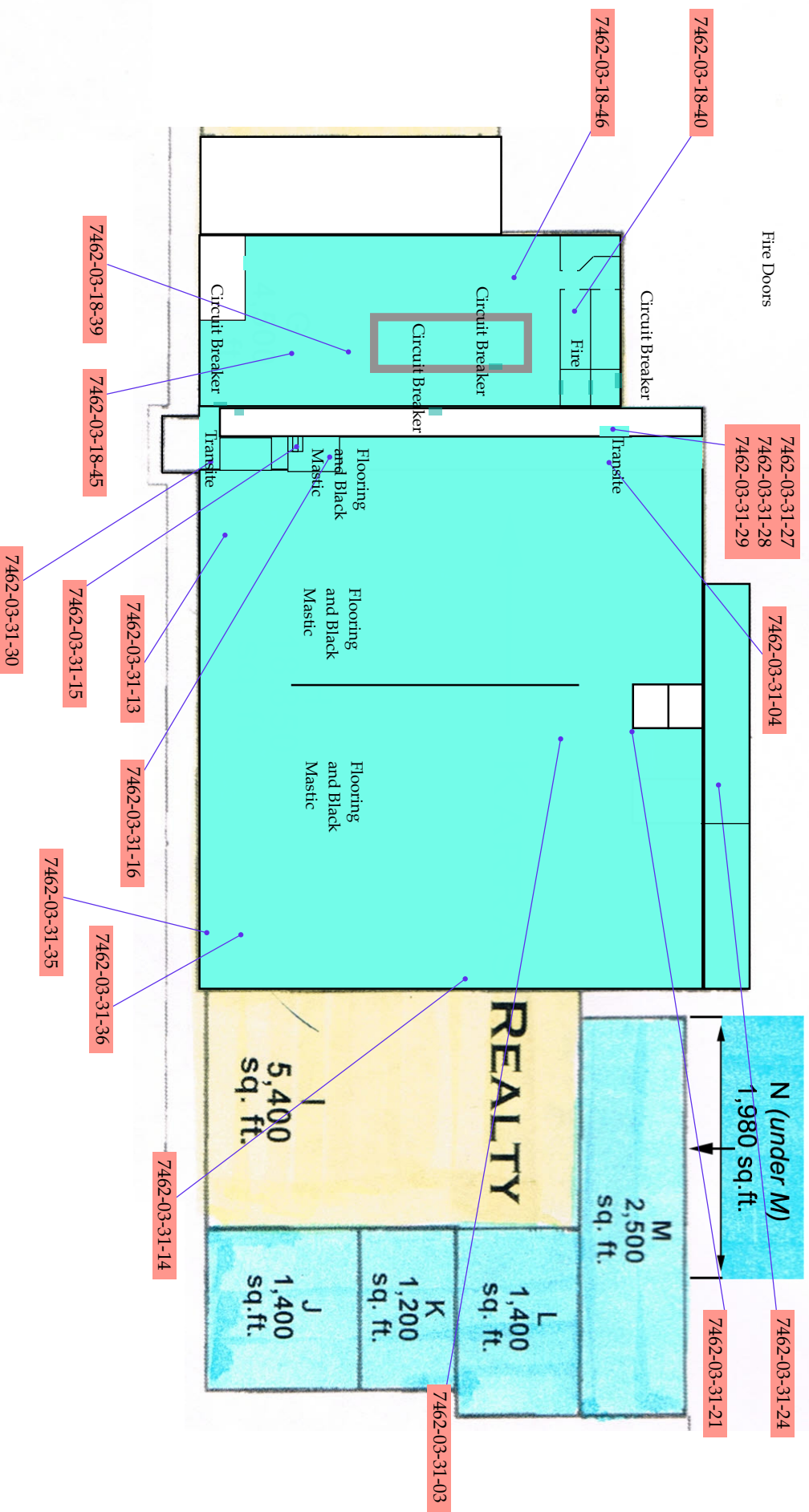
HELIXXXXXX

ENVIRONMENTAL, INC.

1 ELIZABETH PLACE, SUITE 160H

DAYTON, OHIO 45417

937-226-0650



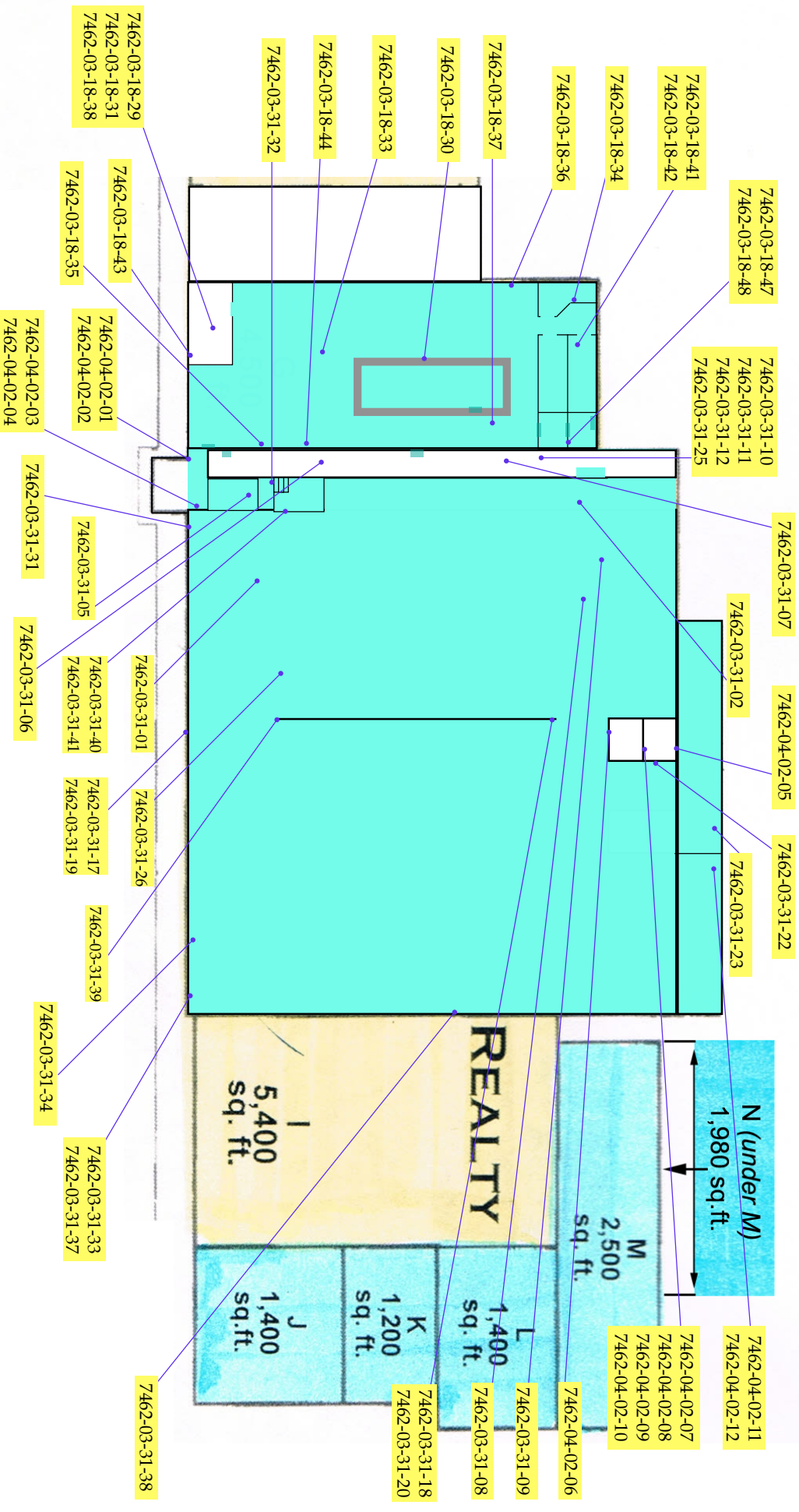
LEGEND

- Asbestos-Containing Material
- Non Asbestos-Containing Material
- Asbestos-Containing Material Present
- Assumed Asbestos-Containing Material
- No Access- No Inspection Performed

ASBESTOS SAMPLE LOCATIONS
1ST FLOOR, SOUTH
4650 WILMINGTON PIKE
KETTERING, OH

HELIXXXXXX
ENVIRONMENTAL, INC.

1 ELIZABETH PLACE, SUITE 160H
DAYTON, OHIO 45417
937-226-0650



LEGEND

- Asbestos-Containing Material
- Non Asbestos-Containing Material
- Asbestos-Containing Material Present
- Assumed Asbestos-Containing Material
- No Access- No Inspection Performed

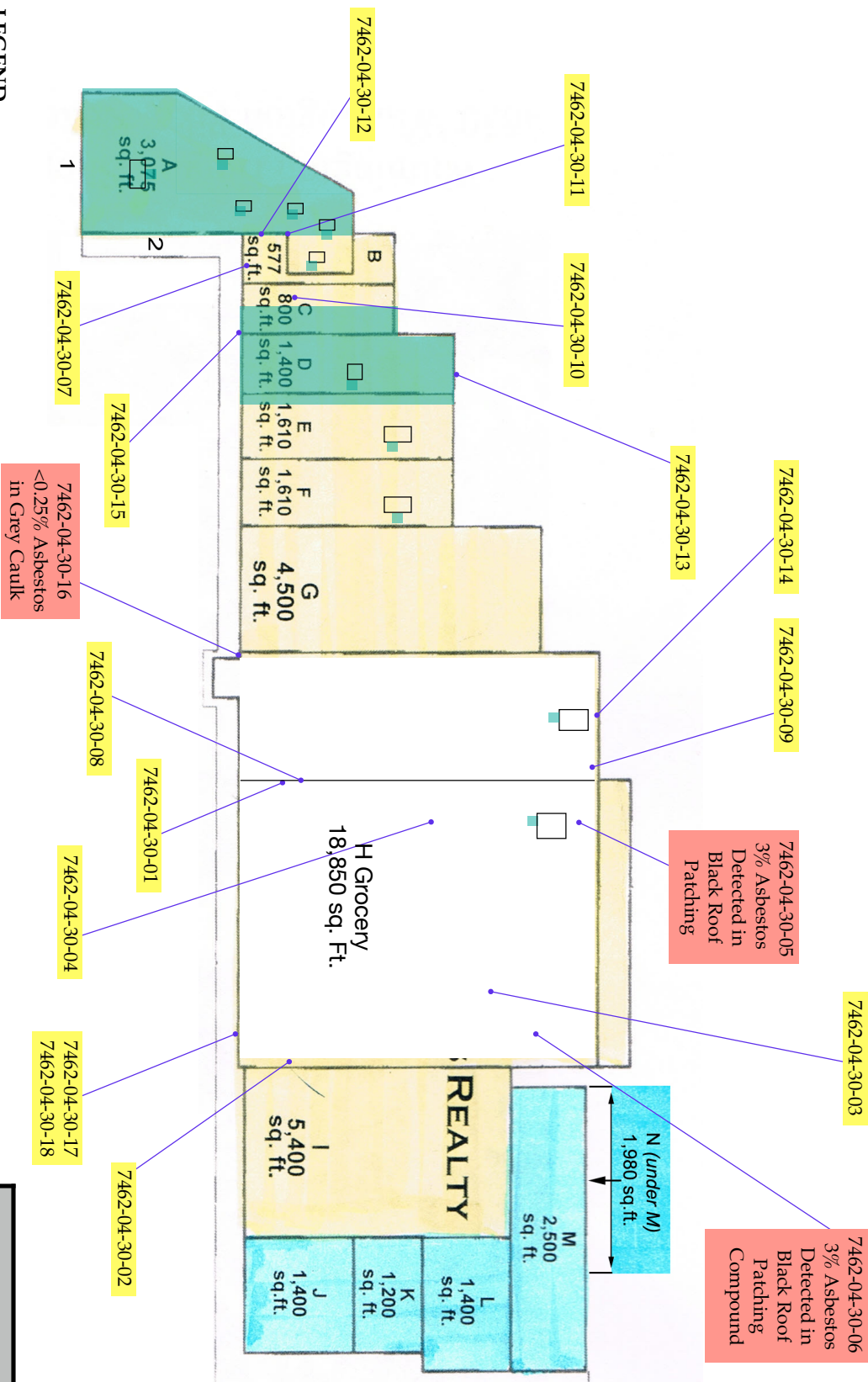
ASBESTOS SAMPLE LOCATIONS

1ST FLOOR, SOUTH
4650 WILMINGTON PIKE
KETTERING, OH

HELIXXXXX
ENVIRONMENTAL, INC.

1 ELIZABETH PLACE, SUITE 160H
DAYTON, OHIO 45417
937-226-0650

- LEGEND**
- Asbestos-Containing Material
 - Non Asbestos-Containing Material
 - Asbestos-Containing Material Present
 - Assumed Asbestos-Containing Material



ASBESTOS SAMPLE LOCATIONS
EXTERIOR
4650 WILMINGTON PIKE
KETTERING, OH

ENVIRONMENTAL, INC.

1 ELIZABETH PLACE, SUITE 160H
DAYTON, OHIO 45417
937-226-0650



Photo 01- Sample 7462-03-17-01, No Asbestos Detected in Drywall and Joint Compound



Photo 02- Sample# 7462-03-17-02, No Asbestos Detected in Drywall and Joint Compound



Photo 03- Sample 7462-03-17-03, No Asbestos Detected in Drywall and Joint Compound



Photo 04- Sample 7462-03-17-04, No Asbestos Detected in Drywall and Joint Compound



Photo 05- Sample 7462-03-17-05, No Asbestos Detected in Black Sweat Wrap



Photo 06- Sample# 7462-03-17-06, No Asbestos Detected in Black Sweat Wrap



Photo 07- Sample# 7462-03-17-07, No Asbestos Detected in Ceiling Tile

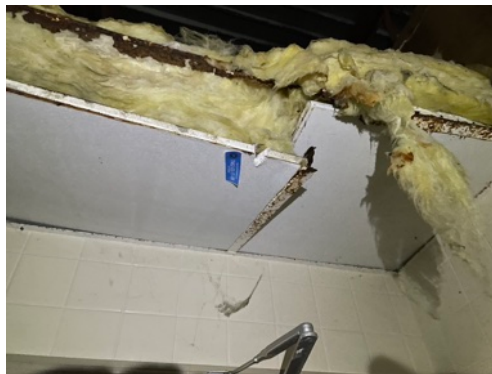


Photo 08- Sample# 7462-03-17-08, No Asbestos Detected in Ceiling Tile



Photo 09- Sample# 7462-03-17-09, No Asbestos Detected in grout or adhesive



Photo 10- Sample 7462-03-17-10, No Asbestos Detected in grout or adhesive



Photo 11 - Samples 7462-03-17-11or -12 with no asbestos



Photo 12- Sample 7462-03-17-13, No Asbestos Detected in Ceiling Tile



Photo 13- Sample 7462-03-17-14, No Asbestos Detected in Ceiling Tile



Photo 14 - Sample 7462-03-17-15, No Asbestos Detected in Tan adhesive



Photo 15- Sample 7462-03-17-16, No Asbestos Detected in Tan adhesive



Photo 16 - Sample 7462-03-17-17, No Asbestos Detected



Photo 17- Sample 7462-03-17-18, No Asbestos Detected



Photo 18 - Sample 7462-03-17-19, No Asbestos Detected



Photo 19 - Sample 7462-03-17-20, No Asbestos Detected



Photo 20 - Sample 7462-03-17-21, No Asbestos Detected



Photo 21 - Sample 7462-03-17-22, No Asbestos Detected



Photo 22 - Sample 7462-03-17-25, No Asbestos Detected



Photo 23 - Sample 7462-03-17-26, No Asbestos Detected



Photo 24 - Sample 7462-03-17-27, 4% Asbestos Detected in tile only



Photo 25 - Samples 7462-03-17-28, -29, 4% Asbestos Detected in tile only



Photo 26 - Sample 7462-03-17-30, No Asbestos Detected

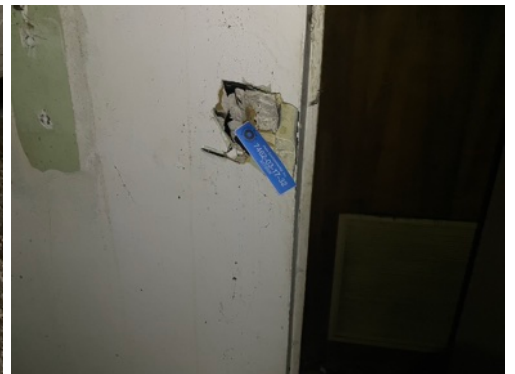


Photo 27 - Sample 7462-03-17-32, No Asbestos Detected



Photo 28 - Samples 7462-03-17-33, -35, No Asbestos Detected



Photo 29 - Sample 7462-03-17-34, No Asbestos Detected



Photo 30 - Sample 7462-03-17-36, No Asbestos Detected



Photo 31 - Sample 7462-03-17-37, No Asbestos Detected



Photo 32 - Sample 7462-03-17-38, <1% Asbestos Detected



Photo 33 - Samples 7462-03-17-39, -40, No Asbestos Detected



Photo 34 - Sample 7462-03-17-41, No Asbestos Detected



Photo 35 - Sample 7462-03-17-42, No Asbestos Detected



Photo 36 - Sample 7462-03-17-45 with no detectable asbestos



Photo 37 - Samples 7462-03-17-27 and -46 with no detectable asbestos



Photo 38 - Sample 7462-03-17-47, No Asbestos Detected in Ceiling Tile



Photo 39 - Sample 7462-03-17-50, 4% Asbestos Detected in Joint Compound only



Photo 40 - Sample 7462-03-17-51, No Asbestos Detected



Photo 41 - Sample 7462-03-17-53, <1% Asbestos in Texture only



Photo 42 - Sample 7462-03-17-54, No Asbestos Detected



Photo 43 - Sample 7462-03-17-55 with 5% asbestos in tile and 3% asbestos in mastic



Photo 44 - Samples 7462-03-17-56 and -57 with no detectable asbestos



Photo 45 - Sample 7462-03-17-58, No Asbestos Detected



Photo 46 - Sample 7462-03-17-59,
No Asbestos



Photo 47 - Sample 7462-03-17-60,
No Asbestos



Photo 48 - Sample 7462-03-17-61,
2% Asbestos



Photo 49 - Sample 7462-03-17-62, 3%
Asbestos in mastic only



Photo 50 - Sample 7462-03-17-63, 3%
Asbestos in mastic only



Photo 51- Sample 7462-03-17-64, No
Asbestos Detected in Ceiling Tile



Photo 52- Sample 7462-03-17-65, No
Asbestos Detected in Ceiling Tile

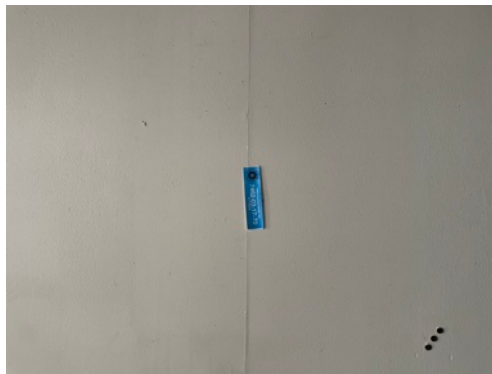


Photo 53- Sample 7462-03-17-70, No
Asbestos Detected



Photo 54 - Samples 7462-03-17-71 and
-72 with 3% asbestos in joint compound
only

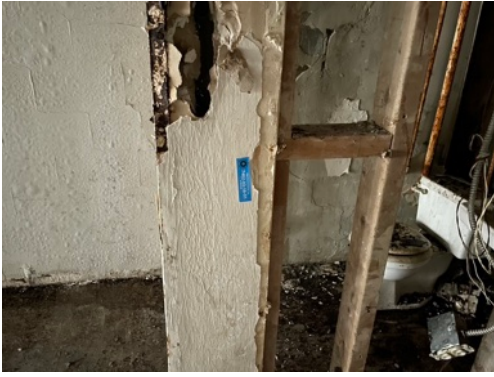


Photo 55 - Sample 7462-03-18-01,
2% Asbestos



Photo 56 - Sample 7462-03-18-02,
3% Asbestos



Photo 57 - Sample 7462-03-18-05,
No Asbestos



Photo 58 - Sample 7462-03-18-08,
No Asbestos



Photo 59 - Sample 7462-03-18-09,
No Asbestos



Photo 60 - Sample 7462-03-18-10, 3%
Asbestos in mastic only



Photo 61 - Sample 7462-03-18-12,
No Asbestos



Photo 62 - Sample 7462-03-18-13,
No Asbestos



Photo 63 - Sample 7462-03-18-14,
No Asbestos



Photo 64 - Sample 7462-03-18-15,
No Asbestos



Photo 65 - Sample 7462-03-18-16,
No Asbestos



Photo 66 - Sample 7462-03-18-17,
No Asbestos



Photo 67 - Sample 7462-03-18-18,
No Asbestos



Photo 68 - Sample 7462-03-18-19,
No Asbestos



Photo 69 - Sample 7462-03-18-20,
No Asbestos



Photo 70 - Sample 7462-03-18-21,
No Asbestos



Photo 71 - Sample 7462-03-18-22,
No Asbestos



Photo 72 - Sample 7462-03-18-23,
No Asbestos



Photo 73 - Sample 7462-03-18-24, 3% Asbestos in mastic only



Photo 74 - Sample 7462-03-18-25, 3% Asbestos in mastic only



Photo 75 - Samples 7462-03-18-26, -27, No Asbestos



Photo 76 - Sample 7462-03-18-28, No Asbestos



Photo 77 - Sample 7462-03-18-29, No Asbestos



Photo 78 - Samples 7462-03-18-30, -32, No Asbestos



Photo 79 - Sample 7462-03-18-31, No Asbestos



Photo 80 - Sample 7462-03-18-33, No Asbestos



Photo 81 - Sample 7462-03-18-34, No Asbestos



Photo 82 - Sample 7462-03-18-35,
No Asbestos



Photo 83 - Sample 7462-03-18-36,
No Asbestos



Photo 84 - Sample 7462-03-18-39, 3%
Asbestos in mastic only



Photo 85 - Sample 7462-03-18-40, 3%
Asbestos in mastic only



Photo 86 - Samples 7462-03-18-41,
-42, No Asbestos



Photo 87 - Sample 7462-03-18-43,
No Asbestos



Photo 88 - Sample 7462-03-18-44,
No Asbestos



Photo 89 - Sample 7462-03-18-45 with
2% asbestos

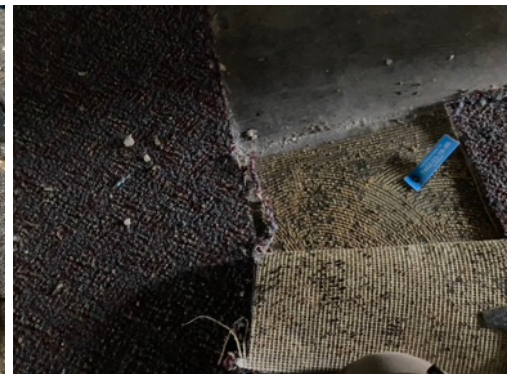


Photo 90 - Sample 7462-03-18-46 with
2% asbestos



Photo 91 - Sample 7462-03-18-47,
No Asbestos



Photo 92 - Sample 7462-03-18-48,
No Asbestos



Photo 93 - Explosion-proof light in
cooler assumed to contain asbestos

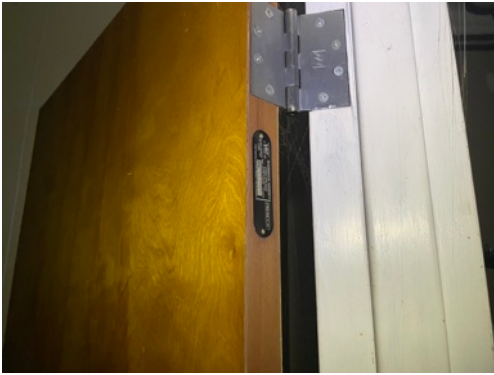


Photo 94 - Fire Door assumed to
contain asbestos



Photo 95 - Sample 7462-03-31-01 with no detectable asbestos



Photo 96 - Sample 7462-03-31-02 with no detectable asbestos



Photo 97 - Sample 7462-03-31-03 with <1% amosite asbestos



Photo 98 - Sample 7462-03-31-04 with <1% amosite asbestos



Photo 99 - Sample 7462-03-31-05 with no detectable asbestos



Photo 100 - Sample 7462-03-31-06 with no detectable asbestos



Photo 101 - Sample 7462-03-31-07 with no detectable asbestos



Photo 102 - Sample 7462-03-31-08 with no detectable asbestos

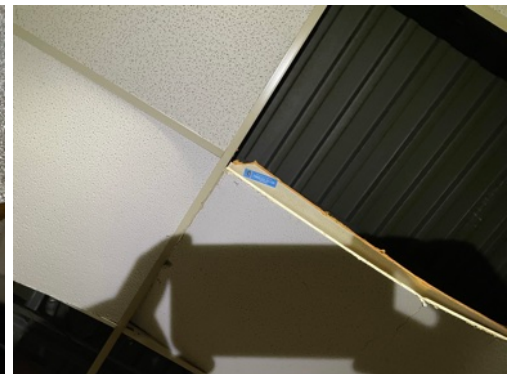


Photo 103 - Sample 7462-03-31-09 with no detectable asbestos



Photo 104 - Sample 7462-03-31-11 with no detectable asbestos



Photo 105 - Sample 7462-03-31-12 with no detectable asbestos



Photo 106 - Sample 7462-03-31-13 with 3% asbestos



Photo 107 - Sample 7462-03-31-14 with 3% asbestos



Photo 108 - Sample 7462-03-31-15 with 2% asbestos in tile and 3% asbestos in mastic



Photo 109 - Sample 7462-03-31-16 with 2% asbestos in tile and 3% asbestos in mastic



Photo 110 - Sample 7462-03-31-17 with no detectable asbestos



Photo 111 - Samples 7462-03-31-17 and -19 with no detectable asbestos



Photo 112 - Sample 7462-03-31-18 with no detectable asbestos



Photo 113 - Sample 7462-03-31-21 with 2% asbestos in Joint Compound only



Photo 114 - Sample 7462-03-31-23 with no detectable asbestos



Photo 115 - Sample 7462-03-31-25 with no detectable asbestos



Photo 116 - Sample 7462-03-31-26 with no detectable asbestos



Photo 117 - Sample 7462-03-31-27 with 15% asbestos

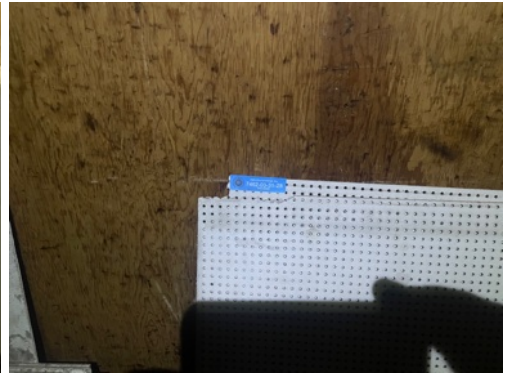


Photo 118 - Sample 7462-03-31-28 with 15% asbestos



Photo 119 - Sample 7462-03-31-29 with 15% asbestos



Photo 120 - Sample 7462-03-31-31 with no detectable asbestos

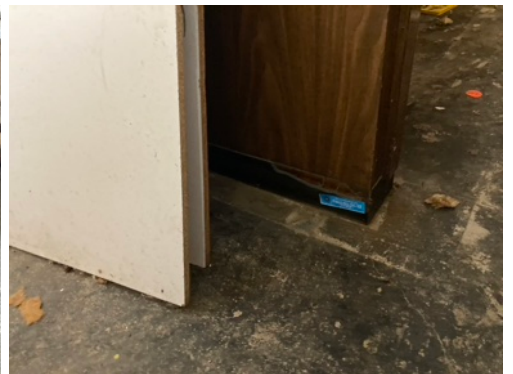


Photo 121 - Sample 7462-03-31-32 with no detectable asbestos



Photo 122 - Sample 7462-03-31-33
with no detectable asbestos



Photo 123 - Sample 7462-03-31-34
with no detectable asbestos



Photo 124 - Sample 7462-03-31-36
with 2% asbestos in tile and 3%
asbestos in mastic



Photo 125 - Sample 7462-03-31-37
with no detectable asbestos



Photo 126 - Sample 7462-03-31-38
with no detectable asbestos



Photo 127 - Sample 7462-03-31-39
with no detectable asbestos



Photo 128 - Sample 7462-03-31-40
with no detectable asbestos



Photo 129 - Sample 7462-03-31-41
with no detectable asbestos



Photo 130 - Mercury-containing
thermostats



Photo 131 - Sample 7462-04-02-05
with no detectable asbestos



Photo 132 - Sample 7462-04-02-06
with no detectable asbestos



Photo 133 - Samples 7462-04-02-07,
-09 with no detectable asbestos



Photo 134 - Sample 7462-04-02-08
with no detectable asbestos



Photo 135 - Sample 7462-04-02-09
with no detectable asbestos



Photo 136 - Sample 7462-04-02-10
with no detectable asbestos



Photo 137 - Sample 7462-04-02-11 with
no detectable asbestos



Photo 138 - Sample 7462-04-02-12
with no detectable asbestos



Photo 139 - H Grocery safe with no
detectable asbestos



Photo 140 - H Grocery safe with no detectable asbestos



Photo 141 - H Grocery compressed gas cylinders



Photo 142 - Sample 7462-04-30-01
with no detectable asbestos



Photo 143 - Sample 7462-04-30-03
with no detectable asbestos



Photo 144 - Sample 7462-04-30-05
with 3% asbestos



Photo 145 - Sample 7462-04-30-06
with 3% asbestos



Photo 146 - Sample 7462-04-30-07
with no detectable asbestos



Photo 147 - Sample 7462-04-30-08
with no detectable asbestos



Photo 148 - Sample 7462-04-30-09
with no detectable asbestos



Photo 149 - Sample 7462-04-30-11
with no detectable asbestos



Photo 150 - Sample 7462-04-30-12
with no detectable asbestos



Photo 151 - Sample 7462-04-30-13
with no detectable asbestos



Photo 152 - Sample 7462-04-30-14
with no detectable asbestos

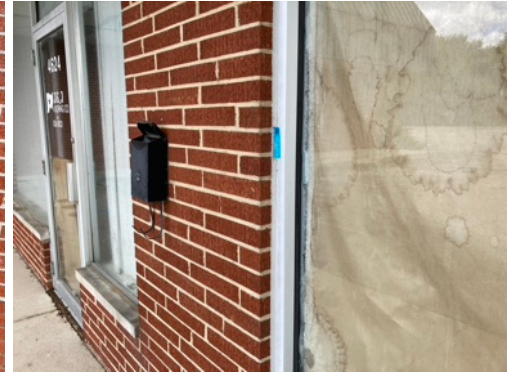


Photo 153 - Sample 7462-04-30-15
with no detectable asbestos



Photo 154 - Sample 7462-04-30-16
with <1% asbestos



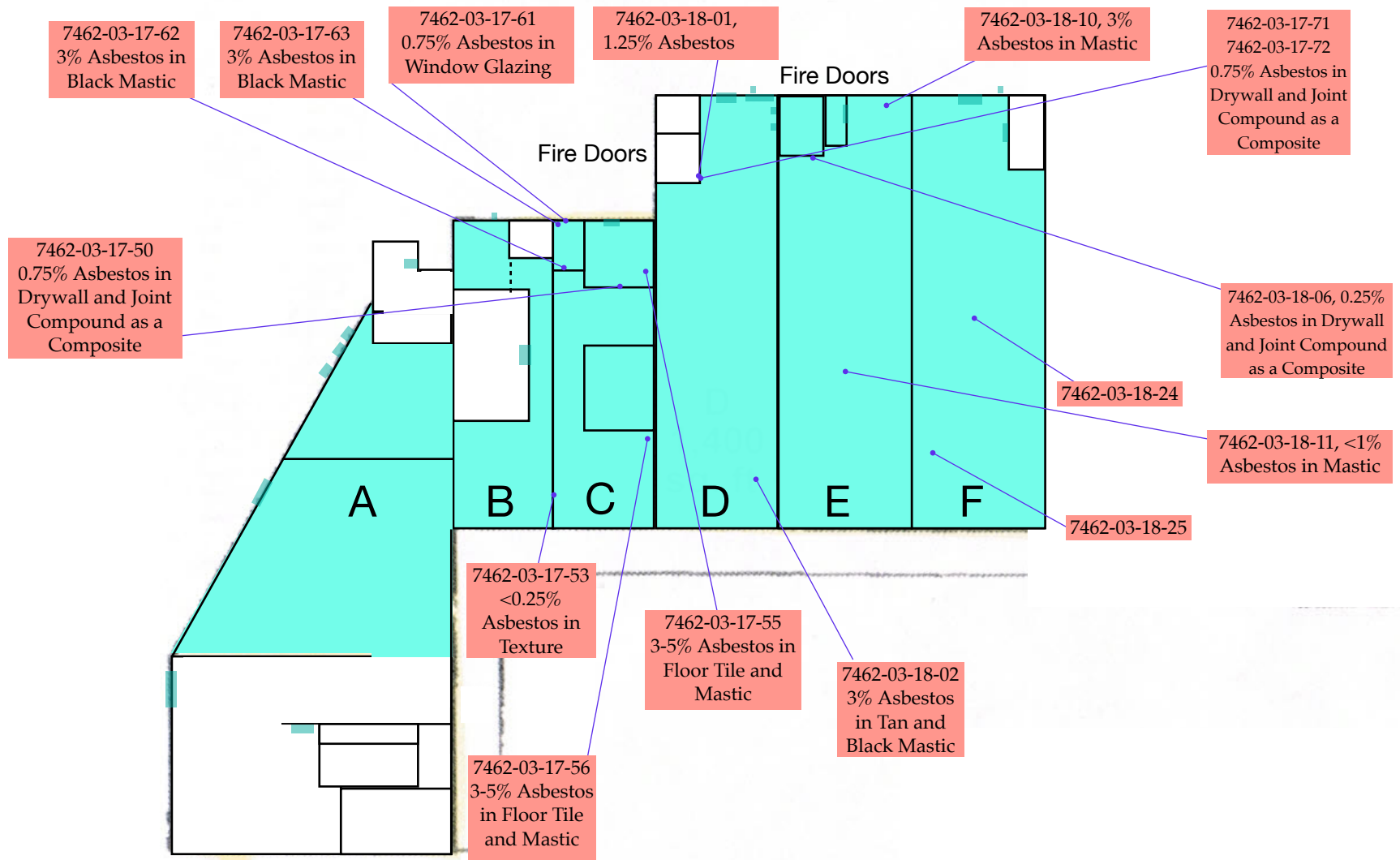
Photo 155 - Sample 7462-04-30-17
with no detectable asbestos



Photo 156 - Samples 7462-04-30-17,
-18 with no detectable asbestos



Photo 157 - A Restaurant Windows with
Gaskets - No Caulk or Glazing



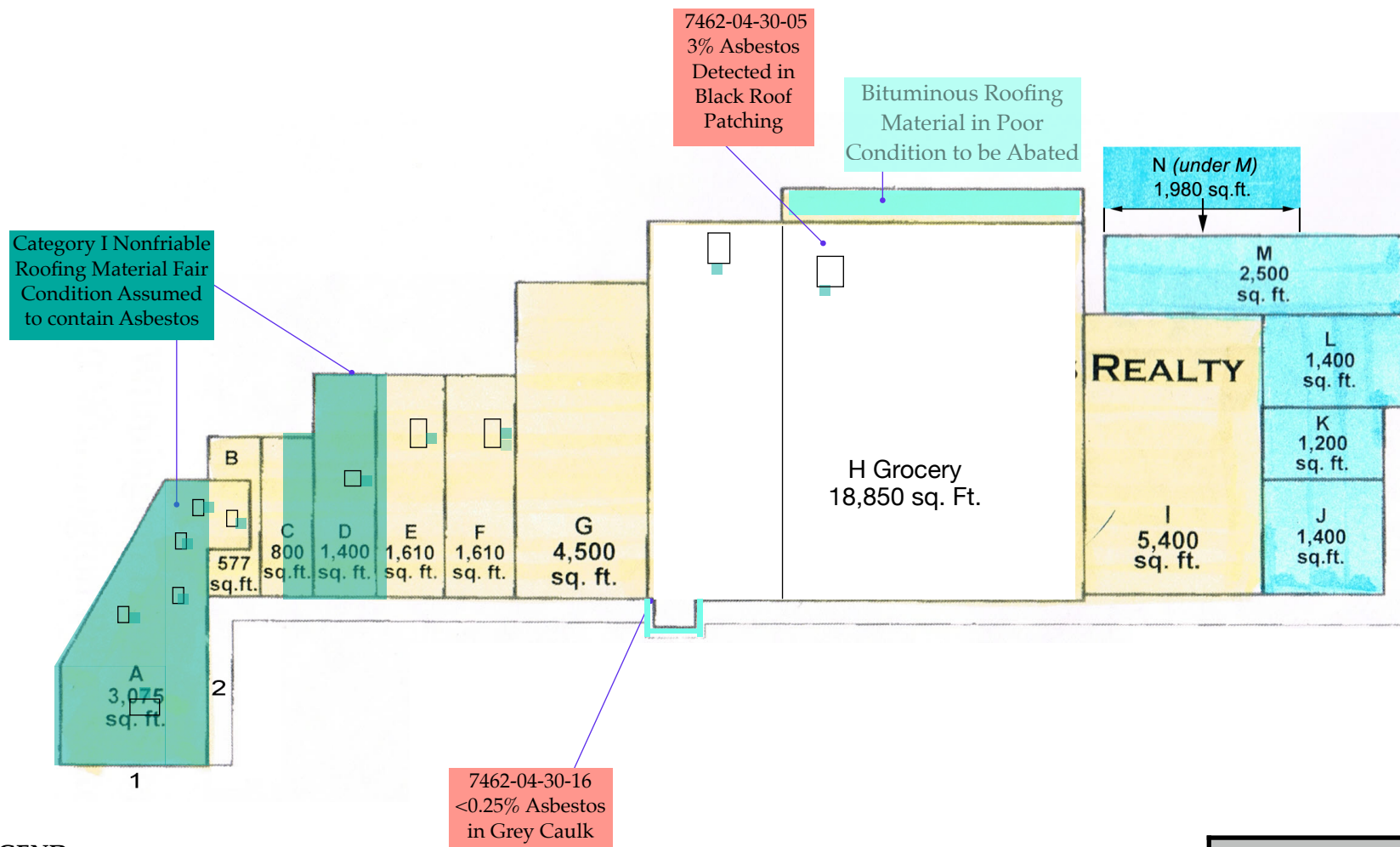
LEGEND

- Asbestos-Containing Material
- Asbestos-Containing Material Present
- Assumed Asbestos-Containing Material

ASBESTOS ABATEMENT LOCATIONS
1ST FLOOR, CENTER
4650 WILMINGTON PIKE
KETTERING, OH

HELIX ENVIRONMENTAL, INC.

1 ELIZABETH PLACE, SUITE 160H
DAYTON, OHIO 45417
937-226-0650



LEGEND

- Asbestos-Containing Material
- Asbestos-Containing Material Present
- Assumed Asbestos-Containing Material

ASBESTOS aBATEMENT LOCATIONS
EXTERIOR
4650 WILMINGTON PIKE
KETTERING, OH

HELIX ENVIRONMENTAL, INC.

1 ELIZABETH PLACE, SUITE 160H
DAYTON, OHIO 45417
937-226-0650

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Construction Stormwater Pollution Prevention Plan (SWP3) Checklist

Use of this checklist requires working knowledge of Ohio EPA's Construction Stormwater General Permit (CGP). Standard criteria of the permit are listed below. The user must affirm that a SWP3 fulfills all applicable conditions of the CGP. Certain items listed below may be not applicable (N/A) to your project. Nonstandard items that are not listed in this checklist may apply.

Project Name: <u>Wilmington Heights Shopping Center Renovation</u>	Date Received:
Checked By:	Date Reviewed:

Contact Information	Yes	N/A
Does a cover or title page identify the name and location of the site, the name and contact information for site operator(s) and SWP3 authorization agent(s)? (III.G.1.I)	✓	
Does a cover page identify an estimated construction start and completion date? (III.G.1.I)	✓	
Comments:		

Site and Construction Activity Assessment	Yes	N/A
Is the location of the construction activity sufficiently identified? (III.G.1.I)	✓	
Does the SWP3 describe:		
▪ The nature and type of construction activity (III.G.1.a)	✓	
▪ Prior and existing land use? (III.G.1.f)	✓	
▪ Existing site drainage? (III.G.1.n.iii)	✓	
▪ Site soil types and conditions? (III.G.1.e)	✓	
▪ Contaminated soils? (III.G.1.n.ii)	✓	
▪ Any on-site streams or wetlands? (III.G.1.n.vi)	✓	
▪ Activities required to be authorized under Section 401 and subject to anti-degradation review? (III.A)		✓
Is the point(s) of discharge and receiving water(s) fully identified? (III.G.1.i)	✓	
Does the SWP3 indicate:		
▪ Size of property? (III.G.1.b)	✓	
▪ Total area expected to be disturbed by construction activity? (III.G.1.b)	✓	
▪ Impervious area before construction? (III.G.1.c)	✓	
▪ Runoff coefficient (Rv) before construction? (III.G.1.c)	✓	
▪ Proposed on-site impervious area? (III.G.1.c)	✓	
▪ Proposed runoff coefficient (Rv)? (III.G.1.c)	✓	
Does the SWP3 account for any construction support activities (e.g., concrete or asphalt batch plants, equipment staging yards, material storage areas, spoil or borrow areas)? (III.G.1.b)		✓
Does the SWP3 identify and ensure implementation of appropriate BMPs for non-stormwater discharges? (I.B.4)	✓	
Does the SWP3 identify pollutant-generating construction activities with their associated potential sources of pollutants or pollutant sources? (I.B.4)	✓	
Does the SWP3 include a BMP implementation schedule that describes the sequence of major construction operations and the BMPs to be employed during each operation of the sequence? (III.G.1.h)	✓	
Comments:		

Preservation Methods	Yes	N/A
Does SWP3 make use of practices that preserve the existing natural condition as much as feasible? (III.G.2.a)	✓	
Does the SWP3 include preservation BMPs (soil restoration, vegetative buffer strips, etc.) with their description, installation timing, maintenance, and responsible party? (III.G.2)	✓	
Do construction activities fifty feet from a surface water of the state comply with the buffer or stabilization non-numeric effluent limitation? (III.G.2.a)		✓
Do the practices meet <i>Rainwater and Land Development</i> or other acceptable standards? (III.G.2)	✓	
Comments:		

Soil Stabilization and Erosion Control	Yes	N/A
Does the SWP3 minimize the amount of soil exposed during construction activity? (II.A.3)	✓	
Does the SWP3 plan effective controls to minimize:		
▪ Off-site vehicle tracking? (III.G.2.g.ii)	✓	
▪ Dust generation? (III.G.2.g.ii)	✓	
Does the SWP3 describe controls designed to re-establish permanent vegetation or suitable cover on disturbed areas after grading in accordance with Table 1? (III.G.2.b.i)	✓	
Does the SWP3 describe controls designed to re-establish temporary vegetation or suitable cover on disturbed areas after grading in accordance with Table 2? (III.G.2.g.i)	✓	
Does the SWP3 guide the method of stabilization to use by time of the year? (III.G.2.b)	✓	
Do maps show areas likely to require temporary stabilization during site development? (III.G.1.n.vii)		✓
Will stabilization and erosion controls minimize the erosion of conveyance channels? (III.G.2.g.ii)	✓	
Will stabilization and erosion controls minimize:		
▪ Erosion of outlets? (III.G.2.g.ii)		✓
▪ Erosion of soil stockpiles? (III.G.1.n.vii)		✓
▪ The disturbance of steep slopes? (II.A.4)	✓	
Does the SWP3 identify:		
▪ The general timing that the erosion controls will be implemented? (III.G.2)	✓	
▪ Who is responsible for implementing erosion controls? (III.G.2)	✓	
▪ Maintenance procedures needed to ensure the continued performance of erosion controls? (III.G.2.h)	✓	
Do the practices meet <i>Rainwater and Land Development</i> or other acceptable standards? (III.G.2)	✓	
Comments:		

Runoff Controls	Yes	N/A
Does the SWP3 include measures to control the flow of runoff from disturbed areas to prevent erosion? (III.G.2.c)	✓	
Do BMPs divert runoff away from disturbed areas and steep slopes where practicable? (III.G.2.c)	✓	
Are velocity dissipation measures placed at discharge locations and along any outfall channel to provide non-erosive flow velocity from the structure to a water course? (III.G.2.c)		✓
Does the SWP3 identify:		
▪ The general timing runoff controls will be implemented? (III.G.2)	✓	
▪ Who is responsible for implementing runoff controls? (III.G.2)	✓	
▪ Maintenance procedures needed to ensure the continued performance of runoff controls? (III.G.2.h)	✓	
Do the practices meet <i>Rainwater and Land Development</i> or other acceptable standards? (III.G.2)	✓	
Comments:		

Sediment Controls	Yes	N/A
Does the SWP3 include structural measures to capture sediment in runoff? (III.G.2.d)	✓	
Will sediment controls be functional within 14 days of clearing throughout earth disturbing activity? (III.G.2.d.i)	✓	
Will controls address changing topography and drainage patterns as construction progresses? (III.G.2.d.i)	✓	
Are sediment settling ponds used to control concentrated flow in accordance with the permit? (III.G.2.d.ii)		✓
Do sediment settling ponds meet the following design criteria:		
▪ Dewatering (detention) volume of 1800 cu. ft. per drainage acre? (III.G.2.d.ii)		✓
▪ Sediment storage volume of 1000 cu. ft. per disturbed acre? (III.G.2.d.ii)		✓
▪ Depth ≤ 5 feet? (III.G.2.d.ii)		✓
▪ Length:width ratio ≥ 2:1? (III.G.2.d.ii)		✓
▪ Discharges from the surface? (skimmer device) (III.G.2.d.ii)		✓
▪ Dewatering volume drain time ≥ 48 hours?		✓
Are sediment barriers used to control sheet flow in accordance with the permit? (III.G.2.d.iii)	✓	
Is inlet protection used at storm drain inlets in accordance with the permit? (III.G.2.d.iv)	✓	
Adjacent surface waters are protected with structural controls and buffer/stabilization requirements? (III.G.2.d.v)		✓
Does the SWP3 identify:		
▪ The general timing sediment controls will be implemented? (III.G.2)	✓	
▪ Who is responsible for implementing sediment controls? (III.G.2)	✓	
▪ Maintenance procedures needed to ensure the continued performance of sediment controls? (III.G.2.h)	✓	
Do the practices meet <i>Rainwater and Land Development</i> or other acceptable standards? (III.G.2)	✓	
Comments:		

Post-Construction Stormwater Management	Yes	N/A
Does the SWP3 describe the post-construction BMPs to be installed during construction? (III.G.2.e)	✓	
Is the rationale for its selection included that addresses the anticipated impacts on the channel and floodplain morphology, hydrology, and water quality? (III.G.2.e)	✓	
Is the BMP(s) sized to treat the WQv associated with its drainage area using Equations 1 or Equation 3? (III.G.2.e)		✓
Does the BMP(s) meet the minimum or maximum drain time given in Tables 4a and 4b? (III.G.2.e)		✓
Does the BMP meet <i>Rainwater and Land Development</i> or other acceptable standards? (III.G.2)		✓
Are appropriate design calculations included? (WQv, Rv, storage capacity, drain times, etc.) (III.G.1.d)		✓
Does the SWP3 provide design details? (drainage area, capacity, elevations, outlet details, etc.) (III.G.1.d)	✓	
Does the SWP3 include a stand-alone Operation and Maintenance plan in accordance with the permit? (III.G.2.e.i)		✓
Comments:		

Other Pollutant Controls	Yes	N/A
Does the SWP3 provide a description, installation timing, maintenance, and responsible party of BMPs to prevent the discharge of the following non-sediment pollutants to the drainage system, waters of the state, or an MS4:		
▪ Dewatering and groundwater control? (III.G.2.g)	✓	
▪ Washout of concrete stucco, paint, and other materials? (III.G.2.g)	✓	
▪ Fueling and maintenance of equipment or vehicles? (III.G.2.g)	✓	
▪ Construction wastes and trash? (III.G.2.g)	✓	
▪ Pesticides, herbicides, insecticides, and fertilizers? (III.G.2.g)	✓	
▪ Diesel fuel, oil, hydraulic fluids, and other petroleum products? (III.G.2.g)	✓	
▪ Hazardous or toxic chemicals? (III.G.2.g)	✓	
▪ Sanitary waste? (III.G.2.g)	✓	
Does the SWP3 indicate spill prevention and response measures? (III.G.2.g)	✓	

Comments:

BMP Maintenance and Inspection	Yes	N/A
Is the SWP3 designed to minimize maintenance requirements? (III.G.2.h)	✓	
Does the SWP3 include procedures that provide all BMPs are inspected once every 7 calendar days and after every ≥ 0.5-inch rain event per 24-hour period by the end of the next calendar day (excluding non-working weekends and holidays)? (III.G.2.i)	✓	
Comments:		

Certification	Yes	N/A
Is the certification statement signed by the appropriate person as defined in Part V.G? (III.C.1) (V.G.1) (V.H)	✓	
Does the SWP3 include certification that it complies with the requirements of the MS4's stormwater management program (if applicable)? (III.G.3)	✓	
Does the SWP3 include a document for the signatures of all contractors and subcontractors involved in implementing the SWP3 acknowledging they reviewed and understand the SWP3? (III.E)	✓	
Comments:		

Site Maps and Drawings	Yes	N/A
Do maps and drawings indicate the location and details of the following:		
Limits of earth-disturbing activity? (III.G.1.n.i)	✓	
Soil types for all areas of the site? (III.G.1.n.ii)	✓	
Existing ground contours and a delineation of drainage watersheds? (III.G.1.n.iii)	✓	
Proposed ground contours and a delineation of drainage watersheds expected during and after grading? (III.G.1.n.iii)	✓	
Locations of proposed buildings, roads, parking facilities, and utilities? (III.G.1.n.vii)	✓	
Location of existing buildings, roads, parking facilities, and utilities? (III.G.1.n.vii)	✓	
The limits of any riparian setbacks, conservation easements, or areas designated as open space, preserved vegetation or otherwise protected from earth-disturbing activities? (III.G.1.n.v)		✓
Surface water locations (springs, wetlands, streams, lakes, water wells) on or within 200 feet of the site? (III.G.1.n.vi)		✓
The boundaries of wetlands or stream channels the permittee intends to fill or relocate under approval from the Army Corps of Engineers and/or Ohio EPA? (III.G.1.n.vi)		✓
Drainage features including catch basins, culverts, ditches, swales, surface inlets, and outlet structures (new and existing)? (III.G.1.n.x)	✓	
Areas of proposed floodplain fill or excavation? (III.G.1.n.xiii)		✓
Temporary or permanent stream crossings? (III.G.1.n.xiii)		✓
Permanent post-construction stormwater management practices (new and existing)? (III.G.1.n.x)		✓
All erosion and sediment control practices? (III.G.1.n.viii)	✓	
Areas likely to require temporary stabilization during construction? (III.G.1.n.viii)		✓
The contributing drainage area of all sediment basins? (III.G.1.n.ix)		✓
Areas designated for the storage or disposal of solid, sanitary, and toxic wastes, including dumpster areas, areas designated for cement truck washout, and vehicle fueling? (III.G.1.n.xi)	✓	
Construction entrances where the vehicles will access the site? (III.G.1.n.xii)	✓	

Comments:

Forms

Yes

N/A

Does the SWP3 include a grading and stabilization activities log? (III.G.1.m)



Does the SWP3 include a log of amendments after construction activities commence? (III.G.1.m)



Comments:

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Stormwater Pollution Prevention Plan (SWP3)

For Construction Activities At:

Wilmington Heights Shopping Center Renovation
4618 Wilmington Pike,
Kettering, OH 45440

SWP3 Prepared For:

TBD

SWP3 Prepared By:

The Kleingers Group
Michael George
6219 Centre Park Drive
West Chester, OH 45269
513-779-7851
Michael.george@kleingers.com

SWP3 Preparation Date:

05/06/2026

Estimated Project Start Date:

07/01/2026

Estimated Project Completion Date:

12/01/2026

Spill Emergency

Spills or other unintended releases in excess of reportable quantities that discharge hazardous substances into surface waters of the state shall be contained and reported as required within section 40 of the Code of Federal Regulations Part 117 and Part 302. Spills are to be immediately reported to the **Ohio EPA Emergency Spill Hotline (1-800-282-9378)**. Petroleum product spills of 25 gallons or more shall be immediately reported to the Ohio EPA and the local fire department.

Plan Availability

This plan shall be kept onsite and shall be made available immediately upon request of the Ohio EPA director or his authorized representative and MS4 operators or their authorized representative during working hours.

The permittee must provide the most recent copy of the SWP3 within 7 days upon written request by the Ohio EPA director or the director's authorized representative; the local agency approving sediment and erosion plans, grading plans, or stormwater management plans; or in the case of a stormwater discharge associated with construction activity which discharges through a municipal separate storm sewer system with an NPDES permit, to the operator of the system.

Notice to the public: All NOIs, general permit approval for coverage letters, and SWP3s are considered reports that shall be available to the public in accordance with the Ohio Public Records law. The permittee shall make documents available to the public upon request or provide a copy at public expense, at cost, in a timely manner. However, the permittee may claim to Ohio EPA any portion of an SWP3 as confidential in accordance with Ohio law.

Amendment Log

This SWP3 shall be amended whenever there is a change in design, construction, operation, schedule, or maintenance, which has a significant effect on the potential for the discharge of pollutants to surface waters of the state or if the SWP3 proves to be ineffective in achieving the general objectives of controlling pollutants in stormwater discharges or to correct deficiencies as directed by Ohio EPA or the local MS4. The signature of the authorized operator attests that the amendment information is true and accurate. Previous authors are not responsible for the revisions by operators.

[illegible]

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SECTION 1: CONTACT INFORMATION

Operator(s):

TBD

[Repeat table as necessary.]

SWP3 Site Coordinator/Primary Contact:

TBD

Emergency 24-Hour Contact:

TBD

SECTION 2: SITE AND CONSTRUCTION ACTIVITY ASSESSMENT

2.1 SITE LOCATION

Project Name and Address

Project/Site Name: [Wilmington Heights Shopping Center Renovation](#)

Street Address or Physical Location: [4618 Wilmington Pike](#)

City/Township: [Kettering, OH](#)

County: [Montgomery County](#)

Project Latitude/Longitude

Latitude: 39.6769° N
(decimal degrees)

Longitude: - 84.1173 ° W
(decimal degrees)

Project Location Map

Refer to Site Maps in Appendix A.

2.2 SITE DETAILS

Description of Prior and Existing Land Use

[The existing site consists of a retail shopping center and associated parking fields.](#)

Description of Existing Site Drainage

[The existing site primarily drains from southeast to northwest to existing catch basins in front of the existing building.](#)

Description of Soil Types and Conditions

[Generally, no hydric or highly erodible soils exists on site.](#)

Soil Map Unit	HSG	Hydric Rating	Soil Erosion K Factor	Flooding Freq. Class
MoB – Miamian-urban land complex, undulating	C	No		None
MoC – Miamian-urban land complex, rolling	C	No		None
Rt – Ross-urban land complex	B	No		Occasional

[Add or delete rows as necessary.]

Contaminated Soils

Construction activities on sites with soil contamination from previous activities may result in stormwater discharges exceeding Ohio Water Quality Standards. Such discharges are not authorized under the NPDES general permit.

There are no known locations of contaminated soils.

Description of On-site Streams

There are no known on-site streams.

Description of On-site Wetlands

There are no on-site wetlands.

Surface Water Protection

Sections 404 and 401 of the Clean Water Act (CWA) regulate the discharge of dredged or fill material into surface waters and the impacts of such activities on water quality, respectively. Construction activities in surface waters may be subject to CWA regulation and/or state isolated wetland permit requirements. The following activities require authorization under Section 401 and are subject to an antidegradation review by Ohio EPA:

N/A

2.3 RECEIVING WATERS

Point of Discharge ID as reflected in the plans	The name or description of the first receiving surface water or municipal separate storm sewer system (MS4) and first named surface water that receives stormwater directly from the point of discharge and/or from the MS4 that the point discharges into.
Ex CB	Little Sugar Creek

[Add rows as necessary.]

2.4 CONSTRUCTION ACTIVITY DETAILS

Type of construction: ☒ New development
☐ Redevelopment of existing impervious surfaces originally constructed: Insert Date

General Description of the Construction Activity

Partial demolition of a retail strip mall and parking lot and renovation to affected structures.

Construction Site Summary

Size of Property (acres)	3.27 acres
Total Area Expected to be Disturbed by Construction Activities (acres)	2.09 acres
Maximum area expected to be disturbed at any one time, including on-site and off-site construction support areas (acres)	2.09 acres
Impervious area before construction (acres)	2.09 acres
Runoff coefficient (Rv) before construction	0.95
Proposed on-site impervious area (acres)	0.00 acres
Proposed runoff coefficient (Rv)	0.35

Construction Support Activities

N/A.

2.5 IDENTIFICATION OF POTENTIAL SOURCES OF POLLUTION

The following sources of pollution may affect the quality of stormwater discharges from the site. Operators shall implement the Best Management Practices (BMPs) described later in this SWP3 to reduce the pollutants and impact of stormwater discharges during construction and pollutants associated with the post-construction land use to ensure compliance with ORC Section 6111.04, OAC Chapter 3745-1, and Ohio EPA's NPDES Construction Stormwater General Permit.

Pollutant-Generating Construction Activity (e.g., grading, paving, painting, roofing, landscaping operations)	Pollutants or Pollutant Sources (e.g., sediment, fertilizers, pesticides, paints, caulks, sealants, solvents, fuels)
Grading	Sediment, fuel

[Add or delete rows as necessary.]

2.6 AUTHORIZED NON-STORMWATER DISCHARGES

All discharges must be composed entirely of stormwater except for the following authorized non-stormwater discharges. Discharges of material other than stormwater or the authorized non-stormwater discharges listed above must comply with an individual NPDES permit or an alternative NPDES general permit issued for the discharge. All authorized non-stormwater discharges must be discharged in a manner that will not cause erosion and will not come into contact with other pollutant sources.

Authorized Non-Stormwater Discharge	Proposed BMP to address Discharge
Landscape irrigation and lawn watering	Not expected to occur

Authorized Non-Stormwater Discharge	Proposed BMP to address Discharge
Water used to wash vehicles and equipment (soaps/solvents are not used)	Designated washing area where water is contained and eliminating discharges to storm drains by infiltrating the wash water.
Water used to control dust	Silt fence, inlet protection
Potable water including uncontaminated water line flushing	Not expected to occur
Routine external building washdown (soaps/solvents are not used and external surfaces do not contain hazardous substances)	Inlet protection
Pavement wash waters (where spills or leaks of toxic or hazardous materials have not occurred unless all spilled material has been removed and where detergents are not used)	Inlet protection
Uncontaminated air conditioning or compressor condensate	Not expected to occur
Uncontaminated, non-turbid discharges of groundwater or spring water	Not expected to occur
Foundation or footing drains where flows are not contaminated with process materials such as solvents	Not expected to occur
Uncontaminated construction trench, excavation, or well point dewatering water	Not expected to occur

2.7 SEQUENCE OF MAJOR CONSTRUCTION OPERATIONS AND BMP IMPLEMENTATION SCHEDULE

This BMP implementation schedule describes the sequence of major construction operations and the BMPs that are to be implemented during each operation in the sequence. See sections 3 through 8 for detailed descriptions of each BMP.

Estimated Timeline	Construction Operation and description of BMPS to be implemented
	Site Preparation
	1. Construct stabilized construction entrance & staging area 2. Establish trash dumpsters and vehicle fueling/maintenance areas 3. Install perimeter silt fences
	Mass Grading
	1. Conduct clearing and grubbing operations 2. Remove and stockpile topsoil 3. Install silt fences around stockpiles and stabilize stockpiles 4. Conduct site grading operations 5. Stabilize disturbed areas where construction will cease for more than 14 days
	Utility and Storm Drain Installation
	1. Install storm drains, sanitary sewers, water services, and utilities 2. Install storm drain inlet protection

[Add, repeat, or delete rows as necessary.]

SECTION 3: PRESERVATION METHODS

Operators shall minimize the disturbed area, preserve natural features, and preserve soil quality as much as feasible. [Add text as necessary]

BMP	Description	Installation Timing	Maintenance	Responsible Party
Soil Restoration	Soil restoration re-establishes pervious area within a development where the soil has been disturbed by clearing, grading, excavation, equipment traffic, or other construction activity. Soil restoration can be achieved through adequate topsoil replacement.	After the area will be fully protected from further disturbance throughout construction. Under soil moisture conditions sufficient to ease tillage, but not excessively wet. When seeding or planting will immediately follow during ideal conditions that ensure rapid establishment (March 15 through June 1 or August 1 through October 15).	Immediately seed or plant the restored area with vegetation appropriate for its land use, the regional climate, and local site conditions. Install sediment control measures on the restored area as necessary.	Site Operator

[Add, repeat, or delete BMP rows as necessary.]

SECTION 4: EROSION CONTROLS AND SOIL STABILIZATION

4.1 VEHICLE TRACKOUT CONTROL

Operators shall control the trackout of dirt and mud from the site onto paved roads, sidewalks, or other paved areas outside of the site by vehicles to the extent feasible. Remove any track-out that occurs by sweeping, shoveling, or vacuuming these surfaces, or by using other similarly effective means of sediment removal. Operators are prohibited from hosing or sweeping trackout sediment into any constructed or natural site drainage feature, storm drain inlet, or receiving water. [Add text as necessary]

BMP	Description	Installation Timing	Maintenance	Responsible Party
Construction Entrance	BMP will be utilized at the ingress/egress drive to reduce the amount of mud tracked off-site with construction traffic. Any area used as ingress-egress will require a track out pad.	The construction entrance shall be installed as soon as is practicable before major grading activities.	The entrance shall be maintained in a condition that will prevent tracking or flow of mud onto the public roadway. This may require periodic top dressing with additional stone or the washing and reworking of existing stone as conditions demand and repair and/or cleanout of any structures used to trap sediment. All materials spilled, dropped, washed, or tracked from vehicles onto roadways or into storm drains must be removed immediately. The use of water trucks to	Site Operator

			remove materials dropped, washed or tracked onto roadways will not be permitted under any circumstances.	
Street Sweeping	Street sweeper shall be used as needed to clean construction sediment that has accumulated on paved areas.	Street sweeping shall be performed as needed.	Paved areas that have accumulated sediment from construction should be cleaned daily, or as needed, utilizing a street sweeper or bucket – type end loader or scraper.	Site Operator

[Add, repeat, or delete BMP rows as necessary.]

4.2 DUST CONTROL

Operators shall control fugitive dust from leaving the site to the extent feasible. Operators are prohibited from using oil as dust control. [Add text as necessary]

BMP	Description	Installation Timing	Maintenance	Responsible Party
Dust Control (temporary/permanent seeding, watering, etc.)	Dust control shall be utilized as needed to prevent or reduce dust from exposed soils or other sources during earth moving activities to reduce the presence of air-borne substances which may present health hazards, traffic safety problems or harm animal or plant life.	As needed during earth moving activities.	Most dust control measures, such as applications of water or road treatments will require monitoring and repeat applications as needed to accomplish good control.	Site Operator

[Add, repeat, or delete BMP rows as necessary.]

4.3 SOIL STABILIZATION

Soil Stabilization is the most effective means to minimize erosion and the discharge of sediment from construction activity. Stabilized soils have vegetation or other types of cover left during construction or replaced immediately following disturbance. The operator shall re-establish vegetation or suitable cover on all disturbed areas of the site in accordance with the methods and timeframes below.

TEMPORARY STABILIZATION		
Description	Temporary seeding and mulching stabilization shall be provided per OEPA guidelines as set forth in Part II.B of Ohio EPA permit no. OHC000006. Refer to Table 2 on Sheet C701.	
Installation Timing	Any disturbed areas within 50 feet of a surface water of the state and not at final grade	Within two days of the most recent disturbance if the area will remain idle for more than 14 days
	Any disturbed areas that will be dormant for more than 14 days but less than one year, and not within 50 feet of surface waters of the state	Within seven days of the most recent disturbance within the area For residential subdivisions, disturbed areas must be stabilized at least seven days prior to transfer of permit coverage for the individual lot(s).
	Disturbed areas that will be idle over winter	Prior to the onset of winter weather

Maintenance	Areas failing to establish vegetative cover adequate to prevent erosion shall be reseeded as soon as such areas are identified. Seeding performed during hot and dry summer months shall be watered at a rate of 1 inch per week.
Responsible Party	Site Operator
Areas likely to require temporary stabilization during site development:	
Operators shall make use of erosion controls that provide cover over all disturbed areas of the site. Describe the erosion control and stabilization plan here.	
Guidance as to which stabilization method will be employed according to time of the year:	
Operators shall make use of erosion controls that provide cover over all disturbed areas of the site. Describe the erosion control and stabilization plan here.	

PERMANENT STABILIZATION		
Description	Permanent seeding and mulching stabilization shall be provided per OEPA guidelines as set forth in Part II.B of Ohio EPA permit no. OHC000006. Refer to Table 1 on Sheet C701.	
Installation Timing	Any areas that will lie dormant for one year or more	Within seven days of the most recent disturbance
	Any areas within 50 feet of surface waters of the state and at final grade	Within two days of reaching final grade
	Other areas at final grade	Within seven days of reaching final grade within that area

Maintenance	Expect emergence within 4 to 28 days after seeding, with legumes typically following grasses. Check permanent seedlings within 4 to 6 weeks after planting. Look for: • Vigorous seedlings; • Uniform ground surface coverage with at least 30% growth density; • Uniformity with legumes and grasses well intermixed; • Green, not yellow, leaves. Perennials should remain green throughout the summer, at least at the plant bases. Permanent seeding shall not be considered established for at least full year from the time of planting. Inspect the seeding for soil erosion or plant loss during this first year. Repair bare and sparse areas. Fill gullies. Re-fertilize, re-seed, and re-mulch if required. Consider no-till planting. A minimum of 70% growth density, based on a visual inspection, must exist for an adequate permanent vegetative planting. • If stand is inadequate or plant cover is patchy, identify the cause of failure and take corrective action: choice of plant materials, lime and fertilizer quantities, poor seedbed preparation, or weather. If vegetation fails to grow, have the soil tested to determine whether pH is in the correct range or nutrient deficiency is a problem. • Depending on stand conditions, repair with complete seedbed preparation, then over-seed or re-seed. • If it is the wrong time of year to plant desired species, over-seed with small grain cover crop to thicken the stand until timing is right to plant perennials or use temporary seeding. See Temporary Seeding standard. Satisfactory establishment may require re-fertilizing the stand in the second growing season. Do not fertilize cool season grasses in late May through July (i.e. Kentucky Bluegrass, Orchardgrass, Perennial Ryegrass, Smooth Brome, Fescues, Timothy, Reed Canarygrass and Garrison Grass). • Grass that looks yellow may be nitrogen deficient. In lieu of a soil test, an application of 50 lbs. of N-P-K per acre in early spring will help cool season grasses compete against weeds or grow more successfully. • Do not use nitrogen fertilizer if the stand contains more than 20 percent legumes. Long-term maintenance fertilization rates shall be established by following soil test recommendations or by using the rates shown in Ohio Rainwater Land Development Manual. Consider mowing after plants reach a height of to inches. Mow grasses tall, at least inches in height and minimize compaction during the mowing process. Vegetation on structural practices such as embankments and grass-lined channels need to be mowed only to prevent woody plants from invading the stand.
Responsible Party	Site Operator

STABILIZATION OF CRITICAL EROSION AREAS

BMP	Description	Installation Timing	Maintenance	Responsible Party
Soil Stockpile Stabilization	Excess soil and topsoil shall be stockpiled on site where it will not interfere with construction activity and is distanced from surface waters.	Silt Fencing shall be installed around temporary spoil stockpiles. These stockpiles shall be straw mulched and/or temporarily seeded within 7 working days if	Applied sediment controls will need regular inspection and appropriate repairs as needed.	Site Operator

		left dormant for 14 days or longer.		
Grade Treatment	Surface roughening creates horizontal depressions in the soil surface that help reduce erosion by reducing runoff velocity and increasing infiltration.	Install at the beginning of project or after areas are rough graded.	Roughened areas shall be seeded and mulched within seven (7) days of last disturbance to obtain optimum seed germination and seedling growth.	Site Operator
Temporary Rolled Erosion Control Matting	Temporary Rolled Erosion Control Products reduce soil erosion and assist vegetative growth by providing temporary cover from the erosive action of rainfall and runoff while providing soil-seed contact.	Install after areas are rough graded. Temporary Matting shall be installed per manufacturer's specifications.	All rolled erosion control products should be inspected regularly after installation, especially after storms to check for erosion or undermining of the product. Make needed repairs immediately, addressing rills or gullies that have developed prior to replacing the RECP. In the case erosion repairs, assure that subsequent runoff across the area is dispersed or adequately spread.	Site Operator

[Add, repeat, or delete BMP rows as necessary.]

SECTION 5: RUNOFF CONTROLS

Operators shall control the flow of runoff from disturbed areas to prevent erosion from occurring. The following runoff control practices shall be implemented. [Add text as necessary]

Controls / BMPs	Description	Installation Timing	Maintenance	Responsible Party
Check Dams	Rock Check Dams are constructed in swales , grassed waterways or diversions to reduce the velocity of concentrated flows, thereby reducing erosion within the swale or waterway.	Install after rough grading.	Sediment shall be removed from behind check dam once it accumulates to one-half the original height of the check dam.	Site Operator
Outfall Velocity Dissipation	A rock or riprap apron typically needed at the outlet of storm drains, culverts, or open channels. Rock Outlet Protection provides and erosion resistant transition where concentrated or high velocity flows enters less modified channels or natural streams.	Construction shall be sequenced so that outlet protection is placed and functional when the storm drain, culvert, or open channel above it become operational.	A maintenance program shall be established to maintain riprap, vegetative cover above the riprap, and associated structural components such as pipe outlets, and tile lines. Items to consider in the maintenance program include: • Missing riprap should be replaced as soon as possible. • Protect the outlet protection from damage by equipment and traffic. • Fertilize the vegetated area annually to and maintain a vigorous stand of grass. • Mow the vegetated area to maintain a healthy and vigorous stand of grass.	Site Operator

			• Seed and mulch any bare areas that develop. • Remove sediment and debris that have accumulated. • Easements, or other means, should be obtained to ensure the channel is maintained as constructed.	
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[Add, repeat, or delete BMP rows as necessary.]

SECTION 6: SEDIMENT CONTROLS

Operators shall use structural practices to trap sediment in stormwater runoff. Sediment control practices must be capable of ponding runoff. [Add text as necessary]

Controls / BMPs	Description	Installation Timing	Maintenance	Responsible Party
Silt Fence	Silt fence is used where runoff occurs as sheet flow or where flow through small rills can be converted to sheet flow. Silt fence shall be utilized around the perimeter of the site to reduce runoff's ability to transport sediment by ponding runoff and dissipating small rills of concentrated flow into uniform sheet flow.	Silt fence shall be constructed before upslope land disturbance begins.	Silt Fence requires regular inspection and maintenance to ensure its effectiveness. Silt fences must be inspected after each rainfall and at least daily during prolonged rainfall. Silt fence found damaged or improperly installed shall be replaced or repaired immediately. Sediment deposits shall be routinely removed when they reach approximate one-half the height of the silt fence.	Site Operator
Storm Drain Inlet Protection	Storm Drain Inlet Protection devices remove sediment from storm water before it enters storm sewers and downstream areas. Inlet Protection shall be installed on all storm inlets on site that receive surface drainage.	Install at the beginning of the project, prior to any earthmoving activities. Install with the installation of site storm sewer.	Effective storm drain inlet protection collects sediment and therefore must be cleaned regularly to prevent clogging and subsequent flooding conditions, piping, or overtopping of the control structures. Sediment barriers that sag, fall over, or are not properly secured, must be promptly repaired or replaced. Inlet protection shall be inspected weekly and after each rainfall event. Areas where there is active traffic shall be inspected daily. Repairs shall be made as needed to assure the practice is performing as intended. Sediment shall be removed when accumulation is one-half the height of the trap. Sediment shall not be washed into the inlet. Sediment shall be removed and placed in a location where it is stable and not subject to erosion. Once the contributing drainage area has been properly stabilized, all filter material collected sediment shall be removed and properly disposed.	Site Operator

[Add, repeat, or delete rows as necessary.]

SECTION 7: POST-CONSTRUCTION STORMWATER MANAGEMENT

Post-construction stormwater practices provide long-term management of runoff quality and quantity so that the receiving stream's physical, chemical, and biological characteristics are protected, and stream functions are maintained.

7.1 POST-CONSTRUCTION STORMWATER MANAGEMENT PLAN

Post-Construction stormwater management will be conveyed via the on-site storm sewer system to the existing storm sewer system which outlets into the nearby creek.

SECTION 8: OTHER POLLUTANT CONTROLS

No solid (other than sediment) or liquid waste, including building materials, shall be discharged in stormwater runoff. BMPs must be implemented to prevent the discharge of non-sediment pollutants to the drainage system of the site or surface waters of the state or an MS4 as follows.

8.1 DEWATERING AND GROUNDWATER CONTROL

There shall be no turbid discharges to surface waters of the state resulting from dewatering activities. Trench or groundwater that contains sediment shall pass through a sediment settling pond, filter bag, or other equally effective sediment control device. Groundwater that does not contain sediment or other pollutants is not required to be treated prior to discharge; however, care must be taken that discharging groundwater does not become pollutant-laden by traversing over disturbed soils or other pollutant sources.

8.2 WASHOUT OF CONCRETE, STUCCO, PAINT, AND OTHER MATERIALS

Under no circumstance shall wastewater from the washout of concrete trucks, stucco, paint, form release oils, curing compounds, and other construction materials be discharged directly into a drainage channel, storm sewer, or surface waters of the state.

Description	Temporary Concrete Washout shall be provided on site near the point of ingress/egress. Washout must be 50' minimum from an installed or existing catch basin.
Installation Timing	At the conclusion of mass grading
Maintenance	Monitor on site concrete waste storage and disposal procedures at least weekly. Monitor concrete working tasks, such as saw cutting, coring, grinding and grooving to ensure proper methods are employed.
Responsible Party	Site Operator

8.3 FUELING AND MAINTENANCE OF EQUIPMENT OR VEHICLES

No pollutants from vehicle fuel, oils, or other fluids can be discharged to surface waters of the state.

Description	Equipment Maintenance Procedures
Installation Timing	At the beginning of the project

Maintenance	Maintain waste fluid containers in leak proof condition. Vehicle and equipment maintenance areas should be inspected regularly. Vehicles and equipment should be inspected on each day of use. Leaks should be repaired immediately, or the problem vehicle(s) or equipment should be removed from the project site. Inspect equipment for damaged hoses and leaky gaskets routinely. Repair or replace as needed. Fueling and Maintenance shall be performed away from watercourses, ditches or storm drains, in an area designated for that purpose.
Responsible Party	Site Operator

8.4 STORAGE, HANDLING, AND DISPOSAL OF CONSTRUCTION WASTES AND TRASH

Operators must minimize the exposure of construction wastes and trash (e.g., packaging materials, scrap construction materials, demolition debris, and other trash or discarded materials to precipitation, stormwater runoff, and snow melt. Waste disposal by open burning is prohibited.

Description	Construction Waste Management
Installation Timing	At the beginning of the project
Maintenance	Onsite Trash should be collected and disposed of on a regular basis. Where possible provide cover for waste containers to prevent the entry of rainwater and loss of contents by wind. Maintain a contingency plan in the case that hazardous or toxic materials are discovered onsite.
Responsible Party	Site Operator

8.5 STORAGE, HANDLING, AND DISPOSAL OF PESTICIDES, HERBICIDES, INSECTICIDES, AND FERTILIZERS

Operators must minimize the exposure of fertilizers, pesticides, insecticides, and herbicides, to precipitation, stormwater runoff, and snow melt. No exposure to stormwater is recommended.

Description	Handling Construction Chemicals
Installation Timing	At the beginning of the project
Maintenance	Mixing, pumping, transferring or other handling of construction chemicals shall be performed in an area away from any watercourse, ditch or storm drain. Containers shall be covered and not leaking. All waste material shall be disposed of at facilities approved for that material.
Responsible Party	Site Operator

8.6 STORAGE, HANDLING, AND DISPOSAL OF DIESEL FUEL, OIL, HYDRAULIC FLUIDS, AND OTHER PETROLEUM PRODUCTS

Description	Handling Construction Chemicals and Fuels
Installation Timing	At the beginning of the project
Maintenance	Mixing, pumping, transferring or other handling of construction chemicals shall be performed in an area away from any watercourse, ditch or storm drain. Containers shall be covered and not leaking. All waste material shall be disposed of at facilities approved for that material. Secondary containment shall be provided for all fuel oil storage tanks. These areas must be inspected every seven days and within 24 hrs. of a 0.5 inch or greater rain event to ensure there are no exposed materials which would contaminate storm water.
Responsible Party	Site Operator

8.7 STORAGE, HANDLING, AND DISPOSAL OF HAZARDOUS OR TOXIC CHEMICALS

Operators must minimize the exposure of hazardous or toxic chemicals (e.g., paints, caulks, sealants, fluorescent light ballasts, solvents, petroleum-based products, wood preservatives, additives, curing compounds, and acids) to precipitation, stormwater runoff, and snow melt.

Description	Handling Construction Chemicals
--------------------	---------------------------------

Installation Timing	At the beginning of the project
Maintenance	Mixing, pumping, transferring or other handling of construction chemicals shall be performed in an area away from any watercourse, ditch or storm drain. Containers shall be covered and not leaking. All waste material shall be disposed of at facilities approved for that material.
Responsible Party	Site Operator

8.8 SANITARY WASTE

Operators must minimize the exposure of sanitary waste to precipitation, stormwater runoff, and snow melt.

Description	Sanitary Waste Storage and Disposal
Installation Timing	At the beginning of the project
Maintenance	Waste disposal containers shall be provided for the proper collection of all waste material including sanitary garbage. Containers shall be covered and not leaking. All waste material shall be disposed of at facilities approved for that material.
Responsible Party	Site Operator

8.9 SPILL PREVENTION AND RESPONSE

Operators shall use measures to prevent and respond to chemical spills and leaks. Reference the Spill Prevention Control and Countermeasure (SPCC) prepared for this project and kept on site.

Various Components of a Chemical Management program must be continually maintained and revised:

- Educating Workers
 - Safety procedures for proper construction site chemical storage and management.
 - Identification of potential sources of chemical pollutants.
 - Spill prevention and response procedures.
 - Potential dangers to humans and the environment from chemical pollutants.
 - Establish a continuing education program to educate new employees.
- Quality Assurance
 - Foreman and/or construction supervisor should monitor onsite chemical storage and disposal procedures
 - Educate and if necessary, retain and/or discipline workers who violate procedures.
 - Ensure that hazardous waste disposal contractor is reputable and licensed.
- Emergency Response Plan
 - As specified by the local Fire Department, revisions may be necessary to the Protected Chemical and Materials Storage Area Plan during the course of construction based upon materials to be stored on site. If a spill occurs which equals or exceeds the reportable quantity (RQ) for a 24-hour period as defined by the EPA in 40 CFR Part 110, 40 CFR Part 117, and 40 CFR Part 302, then:
 - Report spill to the National Response Center, 1-800-424-8802, within 24 hours. Also notify the Arizona Emergency Response Commission and the Cochise County.
 - Revise the Stormwater Pollution Prevention Plan (SWPPP) to show corrective actions.
 - Notify the local EPA Regional office within 14 days.

SECTION 9: INSPECTION, MAINTENANCE, AND CORRECTIVE ACTION

9.1 INSPECTION PERSONNEL

The operator shall assign qualified inspection personnel to conduct inspections to ensure that the control practices directed under this SWP3 are functional, adequate, and properly implemented or whether additional control measures are required. Inspection personnel shall be knowledgeable in the principles and practice of erosion and sediment controls, possessing the skills to assess all conditions at the construction site that could impact stormwater quality and the effectiveness of any

sediment and erosion control measures selected to control the quality of stormwater discharges from the construction activity.

9.2 INSPECTION SCHEDULE

At a minimum, all controls on the site must be inspected:

- after any storm event greater than one-half inch of rain per 24-hour period by the end of the next calendar day, excluding weekends and holidays unless work is scheduled; and
- once every seven calendar days.

The inspection frequency may be reduced to at least once every month for dormant sites if the entire site is temporarily stabilized or runoff is unlikely due to weather conditions for extended periods (e.g., the site is covered with snow or ice, or the ground is frozen). The beginning and ending dates of any reduced inspection frequency shall be documented in the grading and stabilization log.

Once a definable area has achieved final stabilization, the area may be marked on the SWP3, and no further inspection requirements shall apply to that portion of the site.

9.3 INSPECTION PROCEEDURE

At a minimum, the inspection shall include the following.

- Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of or the potential for pollutants entering the drainage system.
- Erosion and sediment control measures identified in this SWP3 shall be observed to ensure that those are operating correctly.
- Discharge locations shall be inspected to ascertain whether erosion and sediment control measures are effective in preventing significant impacts to the receiving waters.
- Locations where vehicles enter or exit the site shall be inspected for evidence of off-site vehicle tracking.

During each inspection, the checklist included in Appendix E must be completed and signed by the qualified inspection personnel representative. Inspection reports may be prepared, signed, and kept electronically, rather than in paper form, if the records are: (a) in a format that can be read similarly to a paper record; (b) legally dependable with no less evidentiary value than their paper equivalent; and (c) immediately accessible to the inspector during an inspection to the same extent as a paper copy stored at the site would be if the records were stored in paper form. For additional guidance on the proper practices to follow for the electronic retention of inspection report records, refer to this general permit's Fact Sheet at <https://epa.ohio.gov/divisions-and-offices/surface-water/permitting/storm-water-discharges-from-small-and-large-construction-activities--general-permit>.

9.4 CORRECTIVE ACTION DEADLINES

If the inspection reveals that a control practice needs repair or maintenance, with the exception of a sediment settling pond, it shall be repaired or maintained within **3 days** of the inspection. Sediment settling ponds shall be repaired or maintained within **10 days** of the inspection.

If the inspection reveals that a control practice fails to perform its intended function and that another, more appropriate control practice is required, the SWP3 shall be amended, and the new control practice shall be installed within **10 days** of the inspection.

If the inspection reveals that a control practice has not been implemented in accordance with this SWP3, the control practice shall be implemented within **10 days** from the date of the inspection. If the inspection reveals that the planned control practice is not needed, the record shall contain a statement of explanation as to why the control practice is not needed.

9.5 RECORD KEEPING

The NPDES permittee shall maintain for three years following the submittal of a notice of termination form, a record summarizing the results of the inspection, names(s), and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the SWP3 and a certification as to whether the facility complies with the SWP3 and the permit and identify any incidents of non-compliance. The record and certification shall be signed.

SECTION 10: CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I certify this document complies with the requirements of the stormwater management plan of [The City of Kettering](#).

Name: Michael George Title: Engineer

Signature:  Date: 2026-05-07

SWP3 APPENDICES

Appendix A – NOI and Ohio EPA Letter Granting Coverage

Appendix B – Site Maps and Drawings

Appendix C – BMP Design Calculations

Appendix D – Grading and Stabilization Activities Log

Appendix E – Site Inspection Forms

Appendix F – Corrective Action Log

Appendix G – Subcontractor Identification and Certification

Appendix H – Delegation of Authority

Appendix I – SWP3 Training Log

Appendix J – Operation and Maintenance Plan for Post-Construction BMP

[Add or delete appendix as necessary.]

Appendix A – NOI and Ohio EPA Letter Granting Coverage

Appendix B – Site Maps and Drawings

GENERAL NOTES

1. THE CITY OF KETTERING, AND THE CURRENT EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (DOT CMS), INCLUDING ALL SUPPLEMENTS, SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THIS PLAN. IGNORE REFERENCES TO MEASUREMENT AND PAYMENT IN THE DOT CMS UNLESS NOTED OTHERWISE. IN THE CASE OF CONFLICTS BETWEEN THE DOT CMS AND THE CITY OF KETTERING REQUIREMENTS, THE CITY OF KETTERING REQUIREMENTS SHALL PREVAIL.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (1-811 OR 1-800-362-2764) 48 HOURS (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES WHO ARE NON-MEMBERS OF THE OHIO UTILITIES PROTECTION SERVICE AT LEAST 48 HOURS (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.
3. CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS. A RIGHT OF WAY PERMIT AND INSPECTIONS FROM THE CITY OF KETTERING ENGINEERING DEPARTMENT ARE REQUIRED FOR ALL WORK WITHIN THE PUBLIC RIGHT OF WAY OR PUBLIC EASEMENTS. CALL 937-296-2436 AT LEAST 24 HOURS PRIOR TO COMMENCING ANY WORK IN THE RIGHT OF WAY OR CITY-RELATED EASEMENTS.
4. THE CONTRACTOR IS TO PERFORM ALL INSPECTIONS AS REQUIRED BY THE OHIO EPA FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND FURNISH OWNERS REPRESENTATIVE WITH WRITTEN REPORTS. CONTRACTOR SHALL NOTIFY THE CITY OF KETTERING ENGINEERING DEPARTMENT PRIOR TO ANY EARTH DISTURBING ACTIVITY SO THAT INSPECTION OF EROSION CONTROL MEASURES CAN BE PERFORMED.
5. THE CONTRACTOR IS REQUIRED TO VISIT THE SITE AND FULLY INFORM THEMSELVES CONCERNING ALL CONDITIONS AFFECTING THE SCOPE OF THE WORK. FAILURE TO VISIT THE SITE SHALL NOT RELIEVE THEM FROM ANY RESPONSIBILITY IN THE PERFORMANCE OF THE CONTRACT.
6. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR EXPENSES INCURRED DUE TO SOIL CONDITIONS, GROUNDWATER, AND/OR ROCK EXCAVATION, ALL OF THESE ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
7. THE COST OF ALL Dewatering REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
8. THE DIRECT OR INDIRECT DISCHARGE OR PUMPING OF UNFILTERED SEDIMENT-LADEN WATER INTO THE STORM DRAINAGE SYSTEM OR WATERCOURSE IS ILLEGAL AND PROHIBITED.
9. ANY WELL, WELL POINT, PIT, OR OTHER DEVICE INSTALLED FOR THE PURPOSE OF LOWERING THE GROUND WATER TO FACILITATE CONSTRUCTION OF THIS PROJECT SHALL BE PROPERLY ABANDONED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 3745-9-10 OF THE OHIO ADMINISTRATIVE CODE OR IN ACCORDANCE WITH THE PROVISIONS OF THIS PLAN AS DIRECTED BY THE DIRECTOR OF PUBLIC UTILITIES OR HIS REPRESENTATIVE.
10. ANY CONTRACTOR INSTALLING ANY WELL, WELL POINT, PIT, OR OTHER DEVICE USED FOR THE PURPOSE OF REMOVING GROUND WATER FROM AN ADJUTER SHALL COMPLETE AND FILE A WELL LOG AND DRILLING REPORT FORM WITH THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR), DIVISION OF WATER, WITHIN 30 DAYS OF THE WELL COMPLETION IN ACCORDANCE WITH THE OHIO REVISED CODE SECTION 1521.01 AND 1521.05 IN ADDITION, ANY SUCH FACILITY IS COMPLETED IN ACCORDANCE WITH SECTION 1521.16 OF THE OHIO REVISED CODE. FOR COPIES OF THE NECESSARY WELL LOG, DRILLING REPORT, OR REGISTRATION FORMS, PLEASE CONTACT: OHIO DEPARTMENT OF NATURAL RESOURCES, 2045 MORSE ROAD, COLUMBUS, OHIO 43229, 614-265-6576.

11. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO THE OONR FOR THE REGISTRY, MAINTENANCE AND ABANDONMENT OF ANY WITHDRAWAL DEVICE USED IN CONSTRUCTION OF THIS PROJECT.
12. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT AND/OR FACE OF CURB, UNLESS OTHERWISE NOTED.
13. ALL SITE SIGNAGE, STRIPING COLOR AND WIDTH SHALL BE PER THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
14. ALL EXISTING PAVEMENTS, WALKS, CURBS, ETC. SHALL BE FULL DEPTH SAWCUT BEFORE REMOVAL. IF, DURING CONSTRUCTION, THE PAVEMENT, WALKWAY, CURB, ETC. IS DAMAGED BEYOND THE ORIGINAL SAWCUT, THE DAMAGED AREA SHALL BE RECUT TO NEAT LINES AS DIRECTED BY THE ENGINEER. PAYMENT FOR SAWCUTTING SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
15. THE CONTRACTOR SHALL FULL DEPTH SAWCUT EXISTING PAVEMENT TO PROVIDE A SMOOTH VERTICAL FULL DEPTH BUTT JOINT BETWEEN THE EXISTING PAVEMENT OR CURB AND THE PROPOSED PAVEMENT. CONTRACTOR SHALL LOCATE SOUND PAVEMENT EDGE AND CUT AND TRIM PAVEMENT TO A NEAT LINE. INCLUDE THE COST OF PAVEMENT REMOVAL AND DISPOSAL IN THE PRICE BID FOR THE PROJECT.

GRADING NOTES

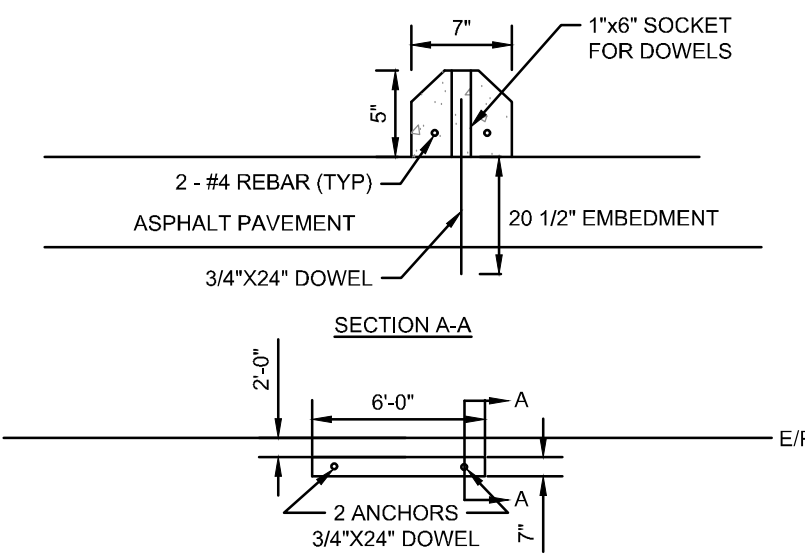
1. CONTRACTOR TO REMOVE TREES AND CLEAR AREAS AS NECESSARY TO PERFORM ALL SITE WORK INCLUDING GRADING AND UTILITY WORK.
2. PROTECTION OF EXISTING TREES AND VEGETATION: PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND VEGETATION TO BE LEFT STANDING.
3. ALL ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.
4. SITE BUILDING PAD EXCAVATION AND CONSTRUCTION TO BE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. BUILDING PAD PREPARATION SHALL BEGIN BY CLEARING & STRIPPING UNSUITABLE MATERIAL FROM PAD SITE. THEN PLACE & COMPACT BACKFILL MATERIAL AT GEOTECHNICAL ENGINEER'S AND ARCHITECT'S RECOMMENDATIONS. ALL BACKFILL MATERIAL MUST BE ACCEPTABLE TO THE GEOTECHNICAL ENGINEER.
5. ALL FILL UNDER PAVEMENT SHALL BE COMPACTED TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
6. THE CONTRACTOR IS RESPONSIBLE FOR BALANCING THE SITE EARTHWORK ON SITE. THE CONTRACTOR IS RESPONSIBLE FOR BURY/BORROW PITS AS NEEDED TO BALANCE THE SITE. GEOTECH AND ENGINEER MUST APPROVE AREAS PRIOR TO BURY/BORROW OPERATIONS. AS-BUILT OF BURY/BORROW PIT WILL BE REQUIRED AT COMPLETION OF CONTRACTOR WORK AND MUST BE SUBMITTED TO THE CONSTRUCTION MANAGER.
7. CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL PRACTICES REQUIRED BY CITY OF KETTERING AND THE OHIO EPA.
8. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. IF NO SPECIFICATIONS ARE SUPPLIED, USE ODOT ITEM 659.
9. CONTRACTOR TO LAYOUT BUILDING BASED ON ARCHITECTURAL/FOUNDATION PLANS. SITE PLAN IS FOR CONCEPTUAL PURPOSES ONLY.

UTILITY NOTES

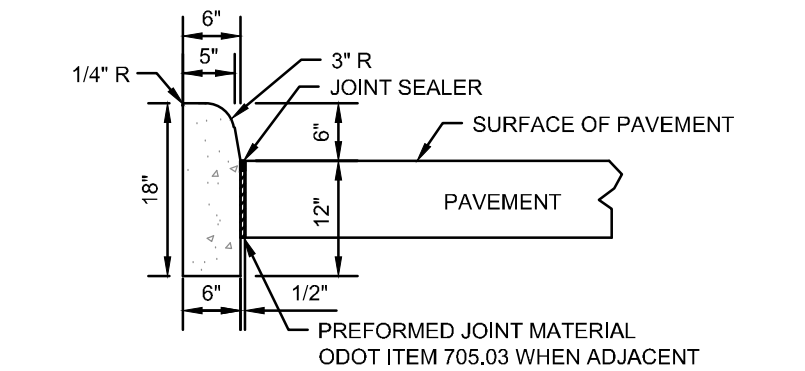
1. ALL DRAIN TILE AND STORM SEWERS DAMAGED, DISTURBED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH THE SAME QUALITY PIPE OR BETTER, MAINTAINING THE SAME GRADIENT AS EXISTING. THE DRAIN TILE AND/OR STORM SEWER SHALL BE CONNECTED TO THE CURB SUBDRAIN, STORM SEWER SYSTEM OR OUTLETTED INTO THE ROADWAY DITCH AS APPLICABLE. REPLACED DRAIN TILE/STORM SEWER SHALL BE Laid ON COMPACTED BEDDING EQUAL IN DENSITY TO SURROUNDING STRATUM. REPLACEMENT SHALL BE DONE AT THE TIME OF THE BACKFILL OPERATION. COST OF THIS WORK TO BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
2. ALL EXISTING UTILITIES KNOWN TO EXIST HAVE BEEN SHOWN ON THESE PLANS IN THEIR APPROXIMATE LOCATION. PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS, THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF THE UTILITIES SHOWN. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE PROTECTION AND/OR RELOCATION OF ANY UTILITIES THAT MAY EXIST AND ARE NOT SHOWN.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION AND/OR PROTECTION OF ANY UTILITIES AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY.
4. UTILITY POLES WITHIN INFLUENCE OF THE UTILITY OPERATIONS SHALL BE REINFORCED BY THE UTILITY COMPANY PRIOR TO THESE CONSTRUCTION ACTIVITIES. NOTIFICATION OF THE UTILITY COMPANY PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. COMPACTED FILLS ARE TO BE MADE TO A MINIMUM OF THREE FEET ABOVE THE CROWN OF ANY PROPOSED SEWER PRIOR TO CUTTING OF TRENCHES FOR PLACEMENT OF SAID SEWERS. ALL FILLS SHALL BE CONTROLLED, COMPACTED, AND INSPECTED BY AN APPROVED TESTING LABORATORY OR AN INSPECTOR FROM THE APPROPRIATE GOVERNMENTAL AGENCY.
6. CONTRACTOR TO REPLACE ANY PAVEMENT OR UTILITIES DAMAGED WHICH ARE NOT SPECIFIED TO BE REMOVED ON THESE PLANS.
7. ALL CATCH BASINS PLACED WITHIN THE PAVEMENT SHALL HAVE HEAVY DUTY FRAMES AND GRATES. CATCH BASINS WITHIN AN ACCESSIBLE ROUTE SHALL CONFORM TO ADA REQUIREMENTS.
8. ADJUST ALL EXISTING CASTINGS AND CLEANOUTS WITHIN PROJECT AREA TO GRADE AS REQUIRED.
9. ALL CATCH BASINS WITH DEPTH GREATER THAN 6' SHALL BE PROVIDED WITH STEPS. STEPS SHALL MEET THE REQUIREMENTS OF ODOT ITEM 611.
10. ALL STORM AND SANITARY SEWER MANHOLES WITH A DEPTH GREATER THAN 6' SHALL BE PROVIDED WITH STEPS. STEPS SHALL MEET THE REQUIREMENTS OF ODOT ITEM 611.
11. DISTANCES SHOWN FOR BOTH SANITARY AND STORM SEWER PIPES ARE MEASURED FROM CENTER OF STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL FIELD CUT LENGTH COORDINATES FOR STORM AND SANITARY STRUCTURES ARE SHOWN TO THE CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
12. IMMEDIATELY AFTER PLACEMENT OF ANY CONDUITS, THE CONTRACTOR SHALL CONSTRUCT THE END TREATMENTS REQUIRED BY THE PLANS AT BOTH THE OUTLET AND INLET ENDS. THIS SHALL INCLUDE HEADWALLS, CONCRETE, RIP RAP, ROCK CHANNEL PROTECTION, SODDING, POURING BOTTOMS, MUDDING LIFT HOLES, ETC.
13. ALL PROPOSED STORM SEWERS, SURFACE OR OTHER DRAINAGE FACILITIES ARE TO BE PRIVATE AND MAINTAINED BY THE OWNER. EROSION CONTROL MEASURES MUST PROVIDE PROTECTION UNTIL COMPLETION OF THE PROJECT AND VEGETATIVE STABILIZATION.
14. THE CONTRACTOR IS TO CONSTRUCT CURBS, CATCH BASINS, DOWNSPOUTS, PIPING AND CONNECTIONS ETC. AS REQUIRED TO CONVEY THE ROOF AND PAVED SURFACE DRAINAGE TO THE DETENTION BASIN.
15. ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.
16. SITE CONTRACTOR SHALL PICK UP ALL UTILITIES, WITH THE EXCEPTION OF DOWNSPOUTS, 5' OUTSIDE BUILDING WALL. COORDINATE WITH CONSTRUCTION MANAGER.
17. ALL STORM STRUCTURES ARE ODOT TYPES UNLESS OTHERWISE INDICATED.
18. STORM SEWER PIPE LABELED "STW" SHALL BE ONE OF THE FOLLOWING: PVC SDR-35 PER ODOT ITEM 707.45, PVC PROFILE PIPE PER ODOT ITEM 707.43, HIGH DENSITY POLYETHYLENE PER ODOT ITEM 707.33, ALUMINIZED CORRUGATED METAL, ODOT ITEM 707.01, 707.02, OR REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. STORM SEWER PIPE LABELED "KCP" SHALL BE REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. ALL STORM IS TO BE INSTALLED PER ODOT ITEM 611. ALL STORM PIPE USED MUST HAVE A MANUFACTURER SPECIFIED FRICTION FACTOR OF 0.013 (N=0.013) OR LESS.
19. ALL CATCH BASINS IN THE PAVEMENT ARE TO HAVE 4, 4" PERFORATED UNDERDRAINS EXTENDING 10 LF FROM THE CATCH BASIN IN THE UPHILL DIRECTION AND CAPPED. ALL CATCH BASINS IN THE CURB ARE TO HAVE 2, 4" PERFORATED UNDERDRAINS EXTENDING 10 LF FROM THE CATCH BASIN IN THE UPHILL DIRECTION AND CAPPED.
20. FOR EXACT LOCATION OF DOWN SPOUTS & ROOF DRAINS, COORDINATE WITH CONSTRUCTION MANAGER. ALL ROOF DRAINS ARE TO BE 8" UNLESS OTHERWISE NOTED.
21. ALL YARD DRAINS SHALL BE ONE OF THE FOLLOWING: NYLOPLAST-ADS DRAIN BASIN, NOS DURACAST FABRICATED PVC CATCH BASIN, AGRI-DRAIN CATCH BASIN, OR APPROVED EQUAL.
22. ALL EXISTING INVERTS ALONG PROPOSED PIPE ALIGNMENTS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF THE SEWER.
23. ANY FIELD TILE CUT IN EXCAVATION WHICH DRAINS IN AN OFFSITE AREA MUST BE TIED INTO THE STORM DRAINAGE SYSTEM.
24. THE FLOW IN ALL SEWERS, DRAINS, FIELD TILES AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND WHENEVER SUCH WATERCOURSES AND DRAINS ARE DISTURBED OR DESTROYED DURING THE PROSECUTION OF THE WORK, THEY SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE TO A CONDITION SATISFACTORY TO THE ENGINEER.
25. SANITARY SEWER SHALL BE SDR-35 OR APPROVED EQUAL AND CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF KETTERING. PIPE MUST MEET MINIMUM SLOPE REQUIREMENTS OF THE CITY OF KETTERING AND OHIO EPA. SANITARY SEWER SHALL BE INSTALLED AT A MINIMUM DEPTH OF FOUR FEET (4') UNLESS OTHERWISE NOTED. A MINIMUM OF 18" CLEARANCE SHALL BE MAINTAINED AT ALL WATERLINE CROSSINGS. SANITARY SERVICE JOINTS SHALL CONFORM TO ASTM D-3212.
26. SANITARY SEWER IS TO BE BEDDED WITH CLEAN GRANULAR MATERIAL-AGGREGATES NOT TO BE LARGER THAN 3/4" AND NOT SMALLER THAN NO. 8 SIEVE, FREE OF SILT AND FINE, ASHSTO M43 SIZE #67, 7 OR 8. BEDDING TO BE MINIMUM OF 6" BELOW & 12" ABOVE THE PIPE.
27. ALL WATERLINE CROSSINGS SHALL MAINTAIN A VERTICAL SEPARATION OF 18" MINIMUM. SANITARY SEWER SHALL BE LOCATED A MINIMUM OF 18" BELOW WATERLINE AT ALL CROSSINGS. WATERLINE SHALL BE LOCATED A MINIMUM OF 10" HORIZONTALLY FROM ANY SANITARY SEWER. ALL MEASUREMENTS SHALL BE TAKEN FROM OUTSIDE OF SEWER PIPE TO THE OUTSIDE OF WATERLINE PIPE. ONE FULL LENGTH OF WATERLINE PIPE SHALL BE LOCATED AT ALL CROSSINGS TO ENABLE BOTH JOINTS TO BE LOCATED AS FAR FROM SEWER AS POSSIBLE. ALL WATER SHALL HAVE A MINIMUM OF 4" OF COVER.
28. WATERLINE 4 INCHES AND LARGER SHALL BE DUCTILE IRON PIPE CLASS 52, MINIMUM 250 PSI, ANWWA C151 OR PVC ANWWA C900, DR 14, PRESSURE CLASS 305 PSI. FIRE SERVICE PIPING SHALL MEET THE REQUIREMENTS OF NFPA 24. WATERLINE 2 INCHES AND UNDER TO BE TYPE "C" SOFT COPPER TUBING, ASTM B 88, OR APPROVED POLYETHYLENE.



NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A
COMPILED OF AVAILABLE RECORD INFORMATION AND
SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND
MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE
EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES
CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY
PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY
PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.



PLAN VIEW
**PRECAST CONCRETE
WHEEL STOP DETAIL**
N.T.S.



SECTION A-A
BARRIER CURB DETAIL
N.T.S.



**THE
KLEINGERS
GROUP**

CIVIL ENGINEERING
SURVEYING
LANDSCAPE
ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 43089
513.779.7851

SEAL:

NO.	DATE	DESCRIPTION
	04/24/26	95% REVIEW SET

**WILMINGTON
HEIGHTS
SHOPPING
CENTER
RENOVATION**
KETTERING, OHIO

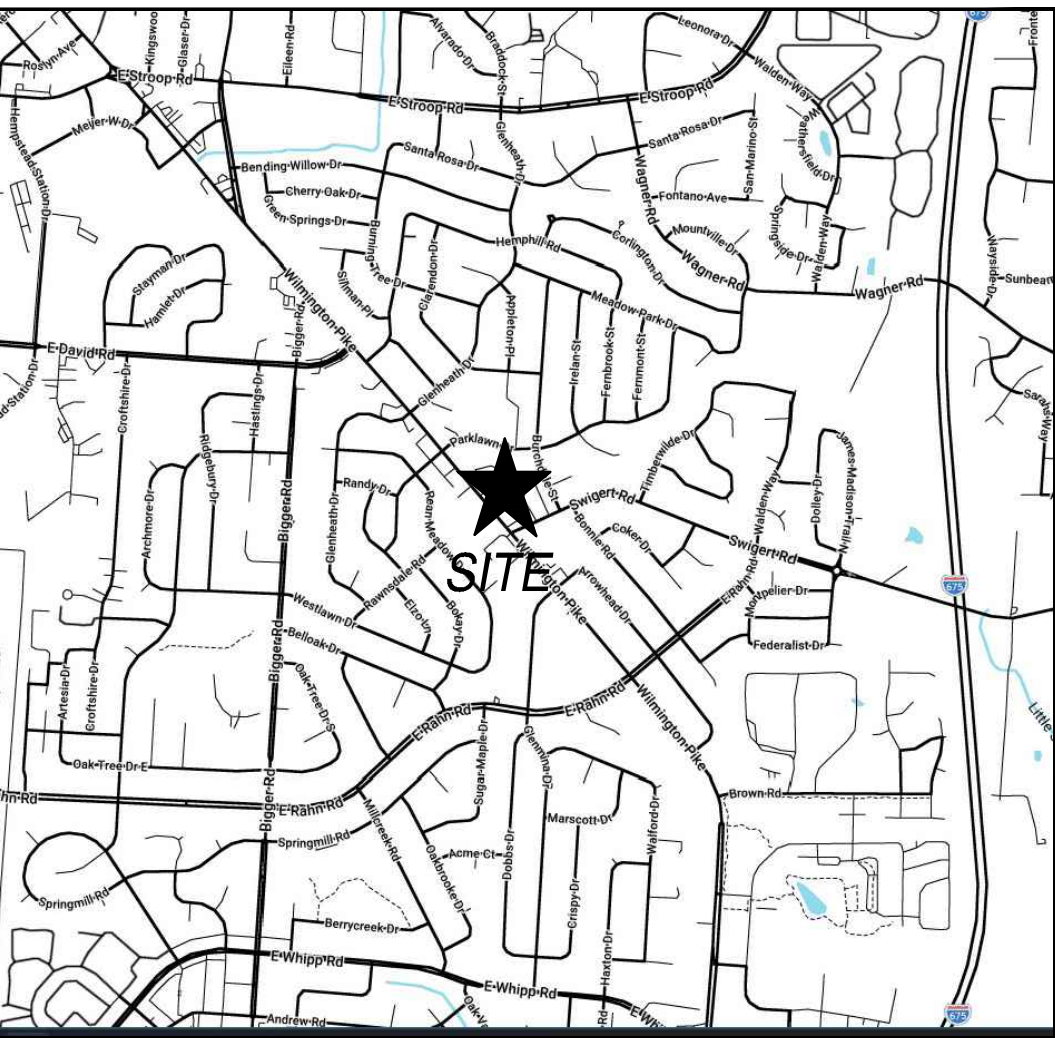
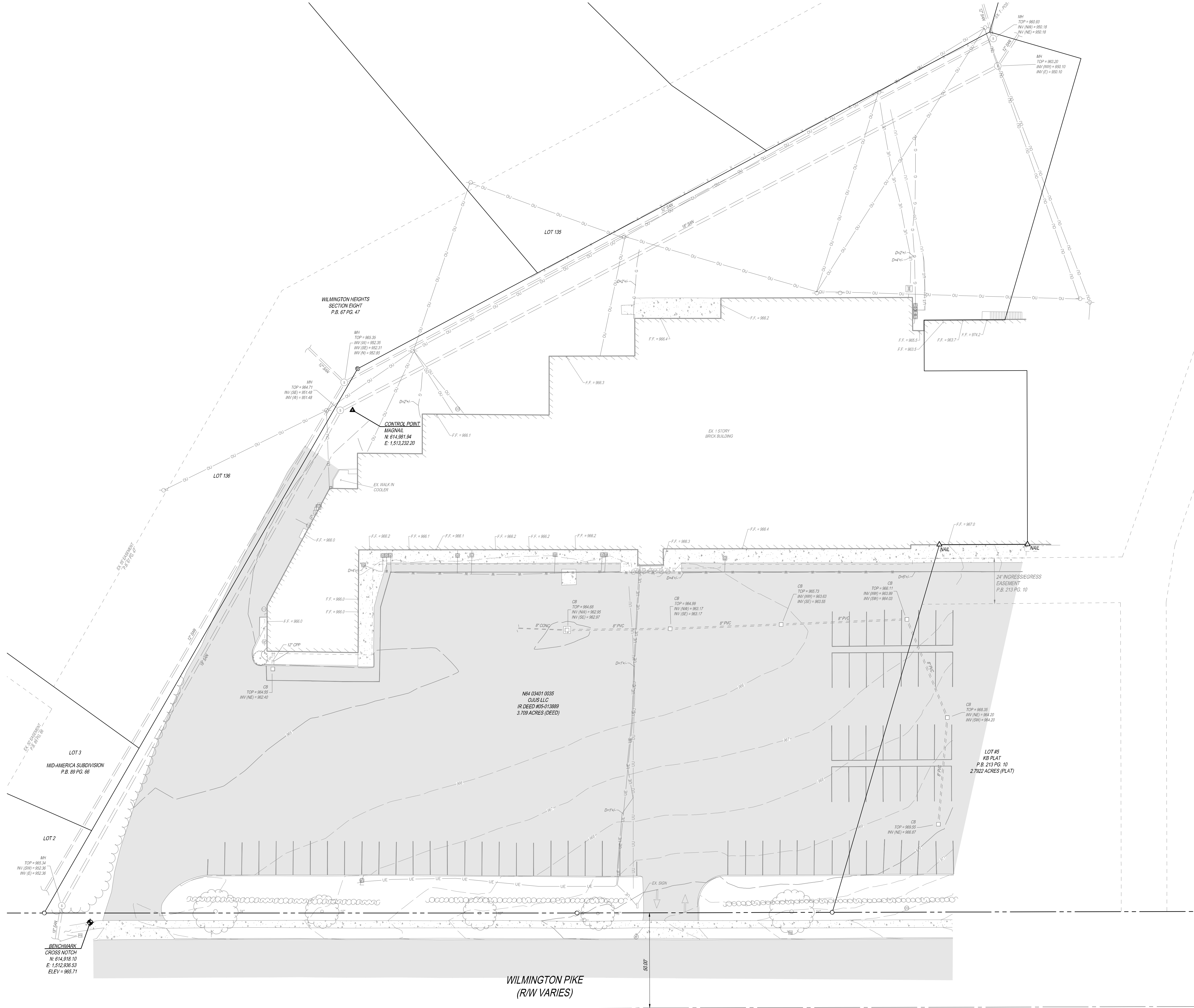
PROJECT NO:	251048-000
DATE:	2026-04-23
SCALE:	

SHEET NAME:

**GENERAL NOTES
& DETAILS**

SHEET NO.

C100



VICINITY MAP
N.T.S.

LEGEND:

- BENCHMARK
- 5/8" IRON PIN FOUND (UNLESS NOTED OTHERWISE)
- IRON PIPE FOUND (SIZE AS NOTED)
- MAGNAIL FOUND
- SANITARY MANHOLE
- CLEANOUT
- STORM MANHOLE
- CATCH BASIN
- DOWNSPOUT
- ELECTRIC BOX
- ELECTRIC OUTLET
- LIGHT POLE
- TRANSFORMER
- CABLE BOX
- PULL BOX
- SATELLITE DISH
- GAS METER
- FIRE HYDRANT
- WATER VALVE
- WATER METER
- GUARD POST
- SINGLE POST SIGN
- FENCE LINE
- BUSH LINE
- WATER LINE
- GAS LINE
- UNDERGROUND ELECTRIC
- UNDERGROUND UTILITIES
- OVERHEAD ELECTRIC
- OVERHEAD UTILITIES
- STORM SEWER
- SANITARY SEWER
- DECIDUOUS TREE
- ASPHALT
- CONCRETE

NOTES:

- SOURCE DOCUMENTS AS NOTED.
- OCCUPATION IN GENERAL FITS SURVEY.
- MONUMENTATION IS IN GOOD CONDITION UNLESS OTHERWISE NOTED.
- DISTANCE UNITS ARE BASED ON THE US SURVEY FOOT DEFINITION (1" = 1200/3937 METERS).
- BEARINGS SHOWN HEREON ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, AND NORTH AMERICAN DATUM OF 1983 (2011) AS ESTABLISHED FROM A GPS SURVEY ORIGINATING ON ODOT CORS STATION "LEBA" WITH A BEARING OF N326°40'W ALONG THE RIGHT OF WAY LINE OF WILMINGTON PIKE.
- PROJECT COORDINATES ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM AND HAVE BEEN SCALED TO GROUND BY USING A PROJECT ADJUSTMENT FACTOR OF 1.00002246903205 APPLIED AT A BASE POINT OF N 614774.00 E 1513313.00 GRID AND GROUND COORDINATES ARE IDENTICAL AT THE BASE POINT.
- ALL ELEVATIONS ARE ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AS ESTABLISHED FROM A GPS SURVEY ORIGINATING ON ODOT CORS STATION "LEBA" USING GEOID CONUS 18 WITH REFERENCE TO THE FOLLOWING CONTROL MONUMENT(S) NGS JZ3656.
- SITE BENCHMARK AS SHOWN HEREON.
- DEPTHS LISTED FOR ANY UTILITY LINES HEREON ARE APPROXIMATIONS ONLY AND MAY NOT REPRESENT ACTUAL DEPTHS OF LINES. DEPTHS WERE PROVIDED BY A PRIVATE UTILITY LOCATING COMPANY UTILIZING SUBSURFACE UTILITY ENGINEERING QUALITY LEVEL C. THERE ARE MANY FACTORS THAT CAN COMPLICATE THE ACQUISITION OF THESE DEPTHS INCLUDING BUT NOT LIMITED TO SOIL TYPES, SOIL COMPACTION, EQUIPMENT USED TO PROVIDE DEPTHS, AND TYPE OF PIPE AND/OR UTILITY IN THE GROUND. FOR A MORE ACCURATE DEPTH OF ANY UTILITY LINES, IT MAY BE NECESSARY TO INCORPORATE SUBSURFACE UTILITY ENGINEERING QUALITY LEVEL A (EXPOSURE OF UTILITY LINES) VIA VACUUM EXCAVATION OR OTHER CONSTRUCTION MEANS. THE KLEINGERS GROUP MAKES NO GUARANTEES OF THESE DEPTHS LISTED HERE ON.

SEAL:

NO.	DATE	DESCRIPTION
1	04/24/26	95% SURVEY SET

WILMINGTON HEIGHTS SHOPPING CENTER RENOVATION
KETTERING, OHIO

PROJECT NO:	251048.000
DATE:	2026-04-23
SCALE:	



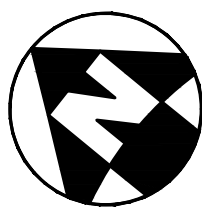
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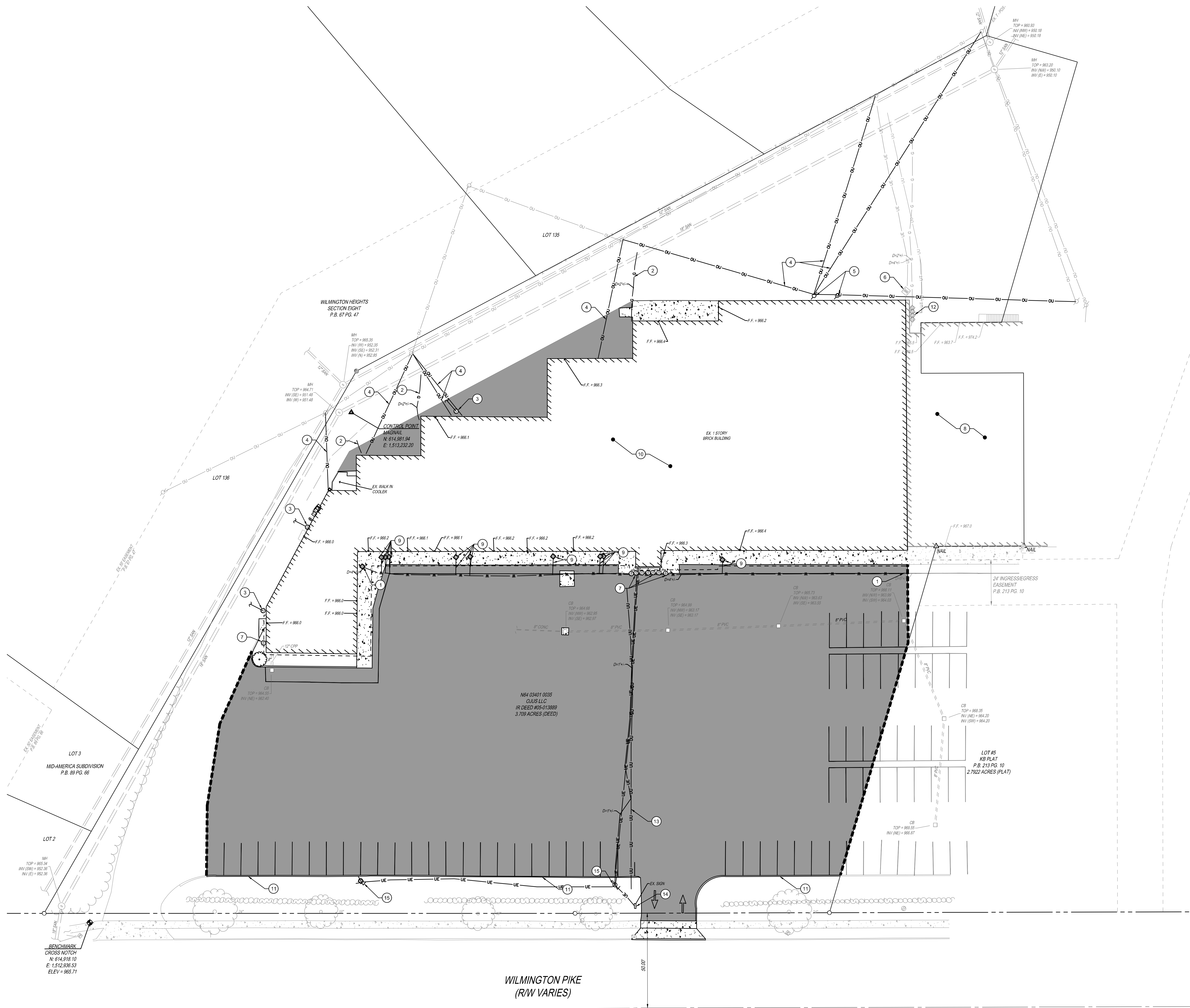
SURVEY BASEMAP

SHEET NO.

C200

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILED LIST OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON-EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.





DEMOLITION LEGEND

- REMOVE CONCRETE
- REMOVE ASPHALT
- SAWCUT LINE

CODED NOTES

- WATER LINE TO BE CAPPED AND REMOVED
- GAS LINE TO BE REMOVED AND CAPPED BY OTHERS
- SEWER LATERAL SERVICE TO BE REMOVED AND CAPPED AT THE PROPERTY LINE
- ELECTRIC FEED TO BUILDING TO BE REMOVED
- UTILITY POLE TO BE REMOVED
- TRANSFORMER TO REMAIN
- BOLLARDS TO BE REMOVED
- EXISTING BUILDING TO REMAIN
- WATER SERVICE TO BE REMOVED
- EXISTING BUILDING TO BE DEMOLISHED
- REMOVE CURB
- CONTRACTOR TO COORDINATE WITH MEP TO DETERMINE WHICH GAS METERS TO BE REMOVED.
- REMOVE UNDERGROUND UTILITY TO PROPERTY LINE.
- REMOVE SIGN
- REMOVE LIGHT FIXTURE

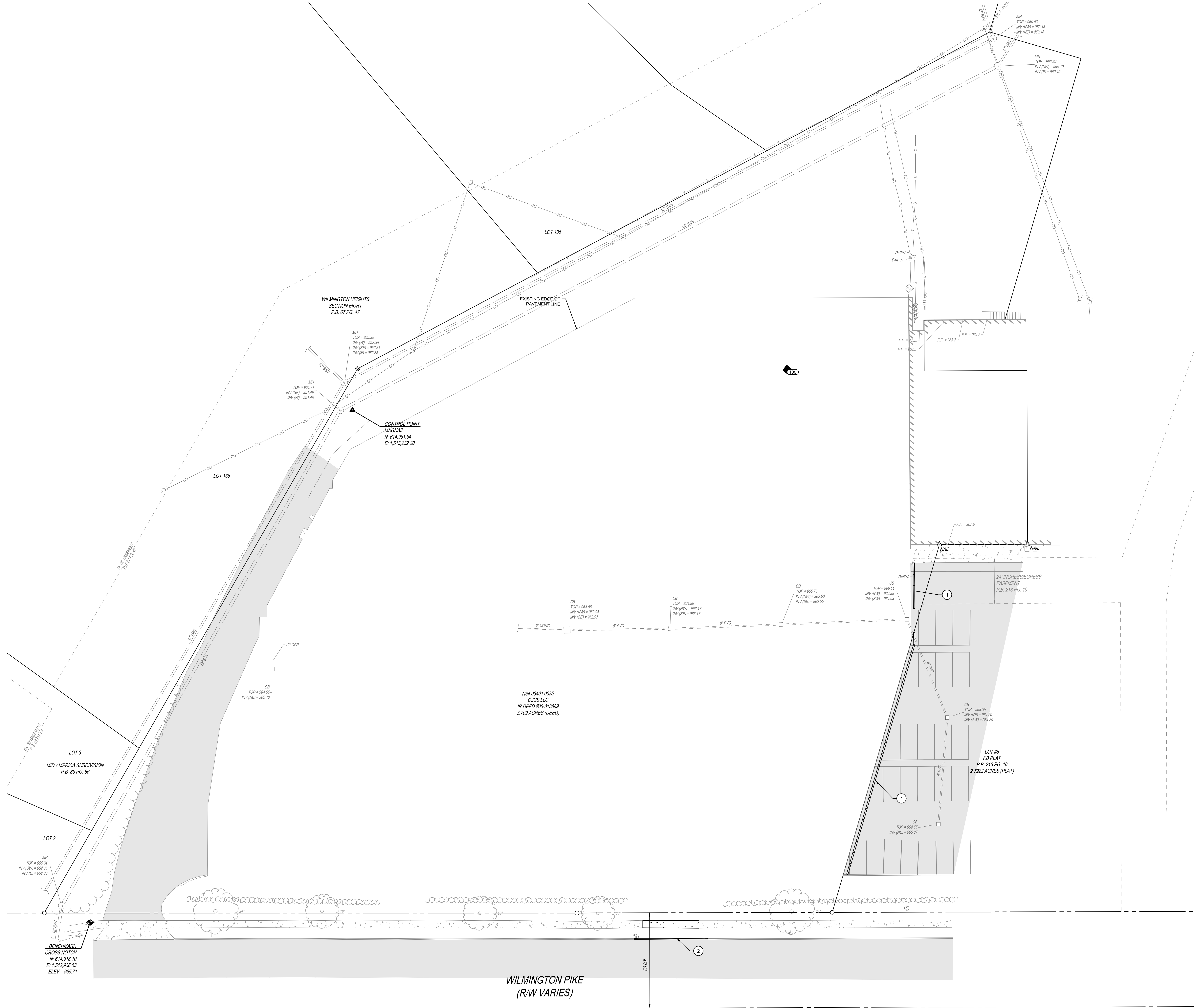
NOTES

- OPTIONAL: CONTRACTOR TO GRIND DOWN AND MILL THE PAVING AND RECYCLE AT ASPHALT PLANT.

SEAL:

NO. DATE DESCRIPTION
04/24/26 95% REVIEW SET

WILMINGTON HEIGHTS SHOPPING CENTER RENOVATION
Kettering, Ohio
PROJECT NO: 251048.000
DATE: 2026-04-23
SCALE:
0 10 20 40
SHEET NAME:
DEMOLITION PLAN
SHEET NO.:
C300



PROPOSED LEGEND

- CATCH BASIN
- CONCRETE WALK

CODED NOTES

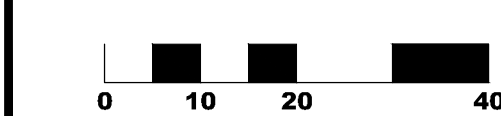
- 1 WHEELS STOPS TO BE INSTALLED END TO END WITH NO DRAINAGE SLOTS TO PROMOTE DRAINAGE TO THE NORTH.
- 2 BARRIER CURB

SEAL:

NO.	DATE	DESCRIPTION
	04/24/26	95% REVIEW SET

WILMINGTON HEIGHTS SHOPPING CENTER RENOVATION
KETTERING, OHIO

PROJECT NO:	251048.000
DATE:	2026-04-23
SCALE:	



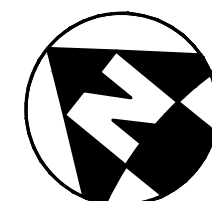
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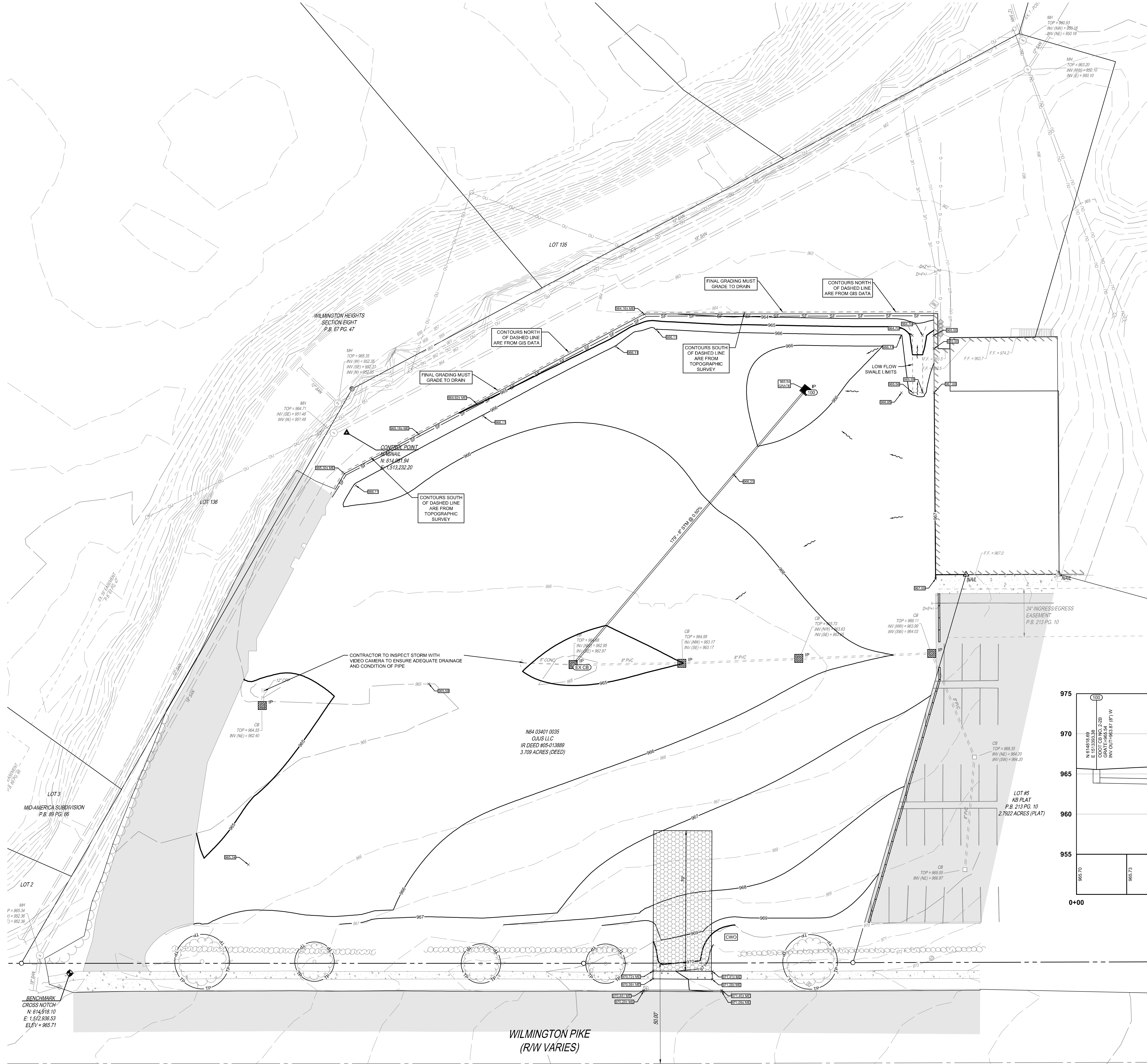
LOCATION PLAN

SHEET NO.

C400

NOTE: UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.





PROPOSED LEGEND

- STM STORM SEWER PIPE
- CATCH BASIN

GRADING LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- FLOW ARROW

SPOT ELEVATION LEGEND

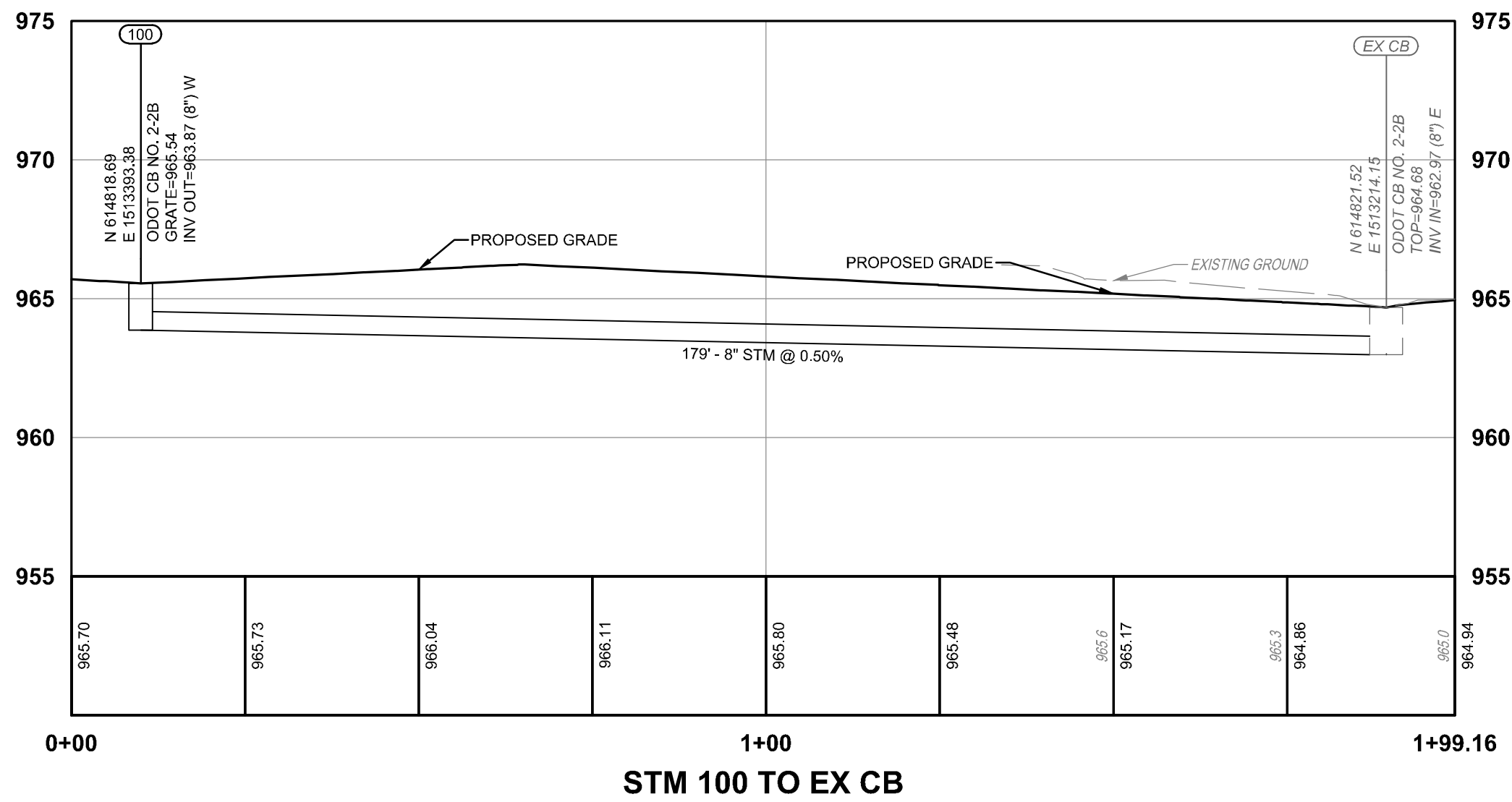
- FINISHED GRADE ELEVATION
- CATCH BASIN GRATE ELEVATION
- MATCH EXISTING ELEVATION

PROPOSED EROSION CONTROL LEGEND

- INLET PROTECTION
- SILT FENCE
- TREE PROTECTION
- CONCRETE WASHOUT
- CONSTRUCTION ENTRANCE

NOTES

- CONTRACTOR TO STRAW AND SEED ENTIRE DEMOLITION AREA



NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A
COMPILATION OF AVAILABLE RECORD INFORMATION AND
SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND
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PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY
PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.



SEAL:

NO. DATE DESCRIPTION
04/24/26 95% REVIEW SET

WILMINGTON HEIGHTS SHOPPING CENTER RENOVATION
KETTERING, OHIO

PROJECT NO: 251048.000
DATE: 2026-04-23
SCALE:

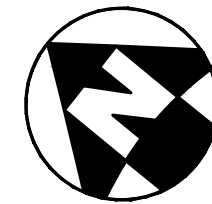


SHEET NAME:

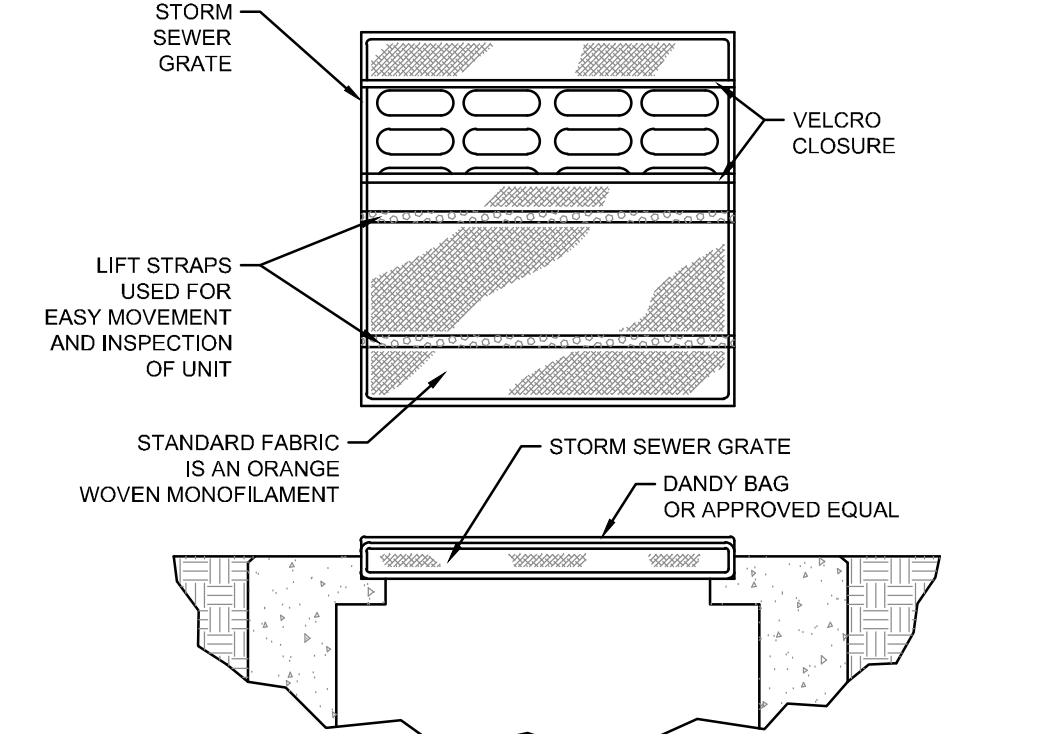
UTILITY & GRADING PLAN

SHEET NO.

C500



NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A
COMPILATION OF AVAILABLE RECORD INFORMATION AND
SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND
MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE
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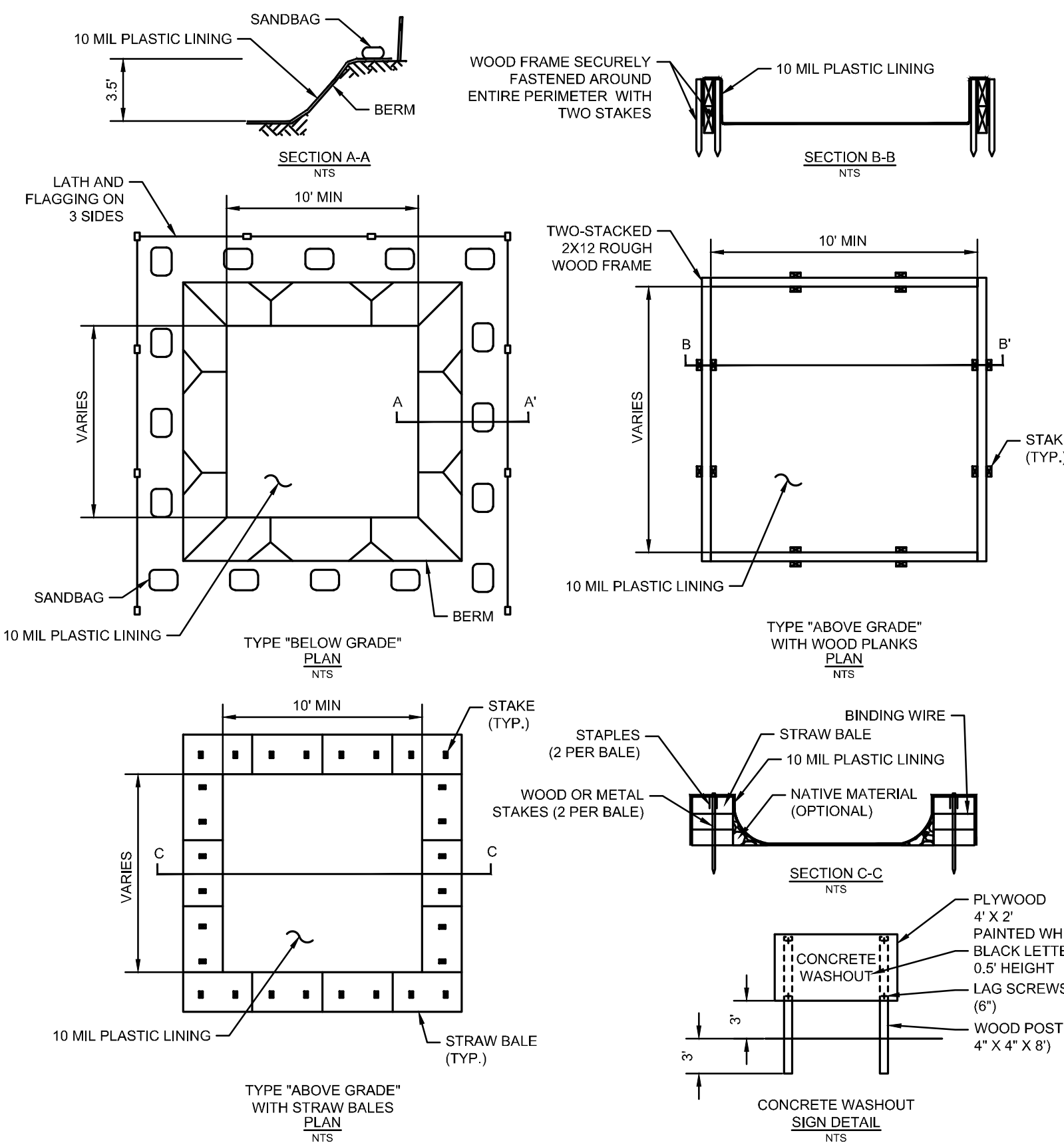


SPECIFICATIONS			
MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARY
GRAB TENSILE STRENGTH	ASTM D 4832	KN (LBS)	1.62 (365) X 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4832	%	24 X 10
PUNCTURE STRENGTH	ASTM D 4833	KN (LBS)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3766	KPA (PSI)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	KN (LBS)	0.51 (115) X 0.33 (75)
UV RESISTANCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	MM (US STD SIEVE)	0.425 (40)
FLOW RATE	ASTM D 4491	L/MIN (GAL/MIN FT)	5907 (145)
PERMITTIVITY	ASTM D 4491	SEC	2.1

INSTALLATION: THE EMPTY DANDY BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS, PLACE ABSORBENT PILLOW IN POUCH, ON THE BOTTOM (BELOW-GRADE SIDE) OF THE UNIT. ATTACH ABSORBENT PILLOW TO TETHER LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.

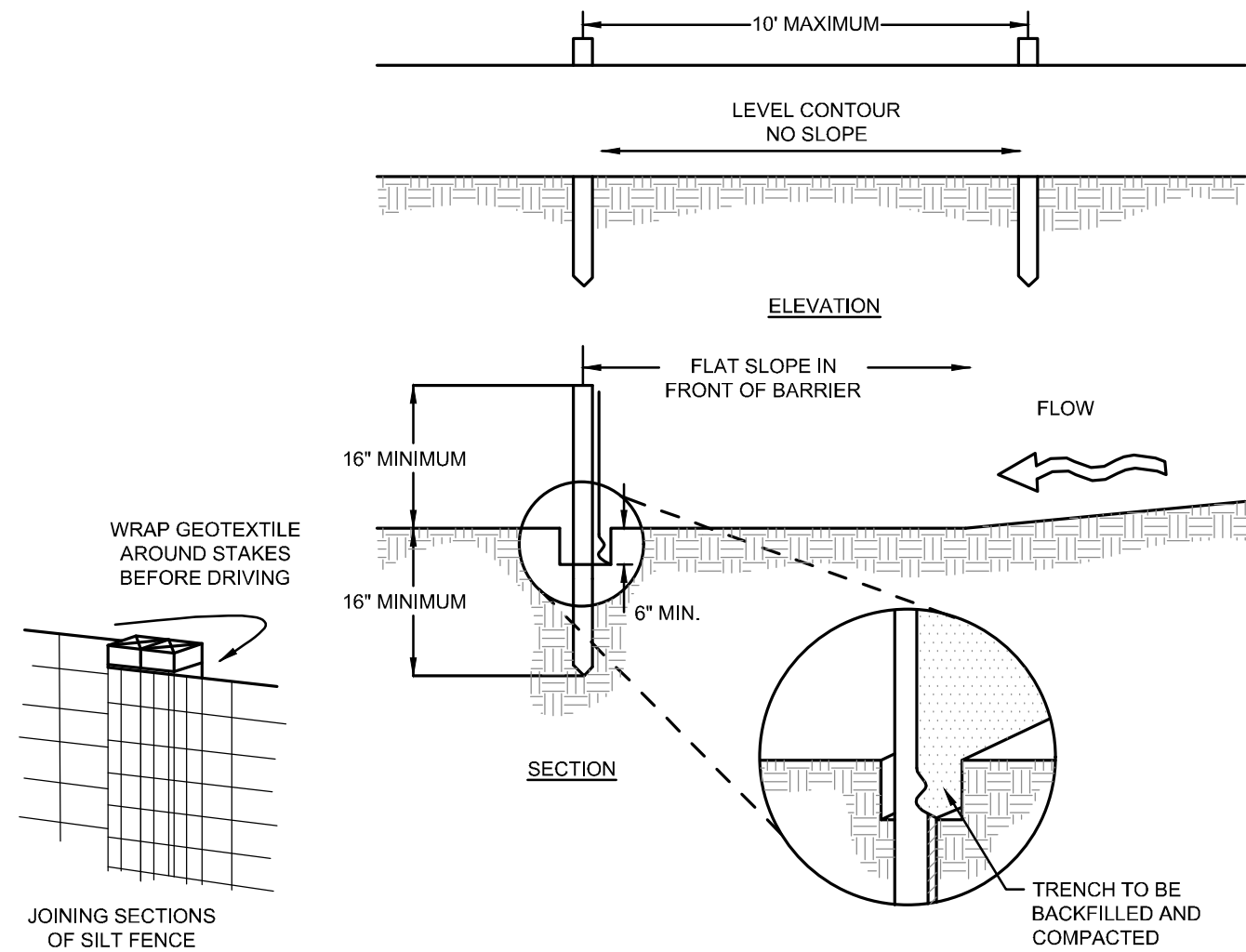
MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG AS NEEDED. IF USING OPTIONAL OIL ABSORBENTS, REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

1 DANDY BAG DETAIL
N.T.S.



- NOTES:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
 2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

4 CONCRETE WASHOUT DETAIL
N.T.S.



NOTES:

1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
3. ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
4. SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE RE-ESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
7. THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE. A MINIMUM OF 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6-INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.
9. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-IN. OVERLAP PRIOR TO DRIVING INTO THE GROUND.
10. MAINTENANCE—SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER THE FABRIC OR AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.

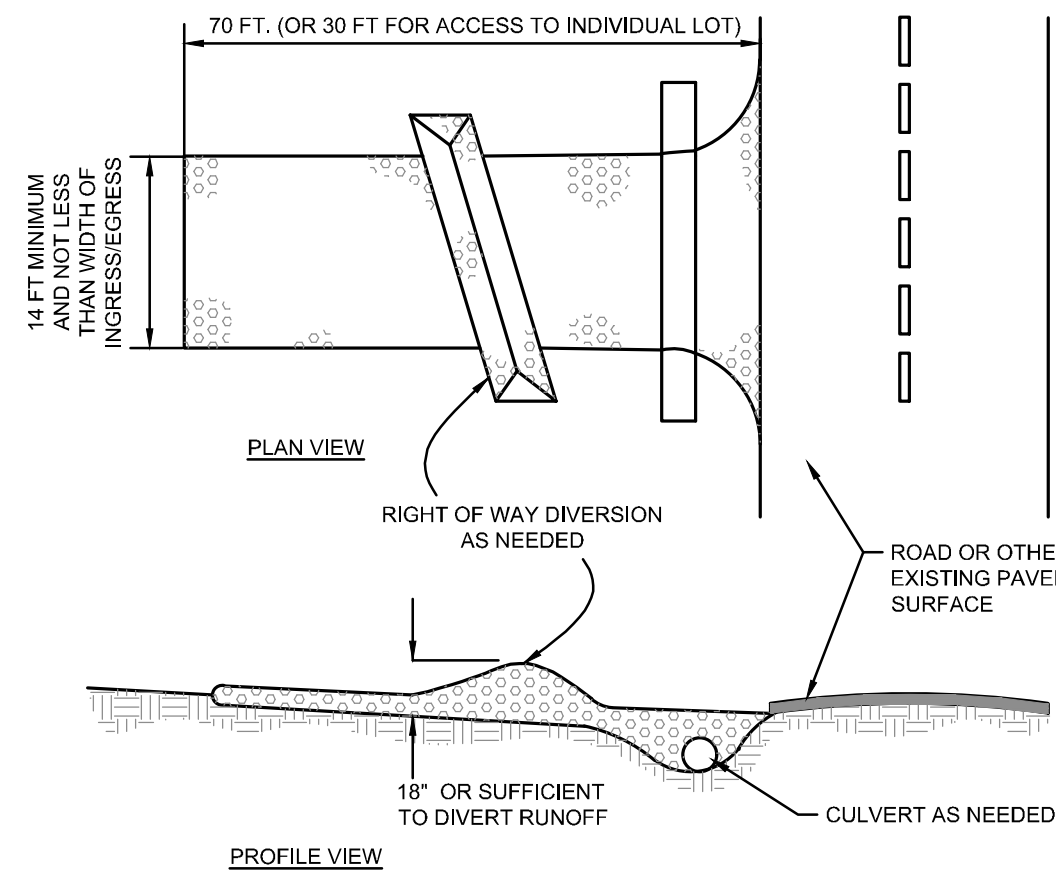
SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE SILT FENCE.

SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

CRITERIA FOR SILT FENCE MATERIALS

FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LBS. (535 N)	ASTM D 4832
MINIMUM ELONGATION AT 60 LBS	80%	ASTM D 4832
MINIMUM PUNCTURE STRENGTH	50 LBS. (225 N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 LBS. (180 N)	ASTM D 4533
APPARENT OPENING SIZE	<0.54 MM	ASTM D 4751
MINIMUM PERMITTIVITY	1X10 ⁻² SEC-1	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM G 4355

2 SILT FENCE DETAIL
N.T.S.

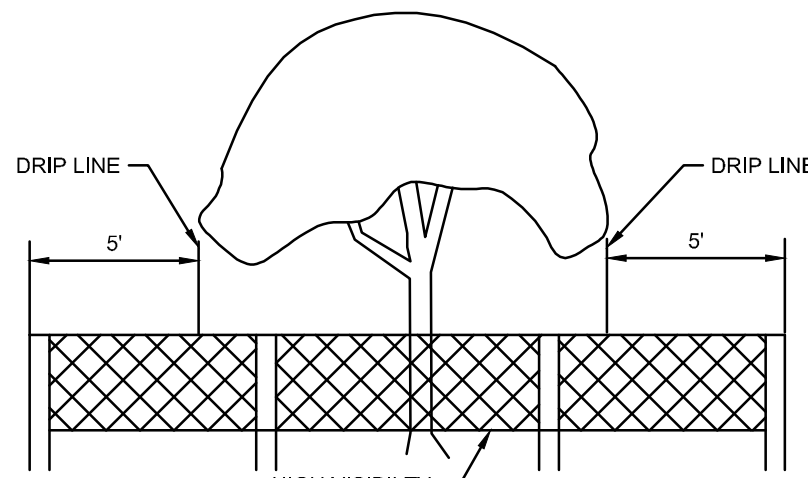


NOTES:

1. STONE SIZE - 0-007 (2 1/2-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS).
3. THICKNESS - THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
4. WIDTH - THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. GEOTEXTILE - A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE ARE PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

MINIMUM TENSILE STRENGTH.....	200 LBS
MINIMUM PUNCTURE STRENGTH.....	80 LBS
MINIMUM TEAR STRENGTH.....	50 LBS
MINIMUM BURST STRENGTH.....	320 PSI
MINIMUM ELONGATION.....	20%
EQUIVALENT OPENING SIZE.....	EQS<0.08MM
PERMITTIVITY.....	1X10 ⁻² CM/SEC
6. TIMING - THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
7. CULVERT - A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
8. WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
9. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES. TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
10. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
11. REMOVAL - THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

5 CONSTRUCTION ENTRANCE DETAIL
N.T.S.



NOTES:

1. PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK. SMOOTHING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE. EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND VEGETATION TO BE LEFT STANDING.
2. SIGNAGE SHALL CLEARLY IDENTIFY THE TREE AND NATURAL PRESERVATION AREA AND STATE THAT NO CLEARING OR EQUIPMENT IS ALLOWED WITHIN IT.
3. TREE AND NATURAL PRESERVATION AREA SHALL BE FENCED PRIOR TO BEGINNING CLEARING OPERATIONS.
4. FENCE MATERIALS SHALL BE METAL FENCE POSTS WITH SNOW FENCE.
5. FENCE SHALL BE PLACED AS SHOWN ON PLANS AND BEYOND THE DRIP LINE OR CANOPY OF TREES TO BE PROTECTED.
6. IF ANY CLEARING IS DONE AROUND SPECIMEN TREES IT SHALL BE DONE BY CUTTING AT GROUND LEVEL WITH HAND HELD TOOLS AND SHALL NOT BE GRUBBED OR PULLED OUT. NO CLEARING SHALL BE DONE IN BUFFER STRIPS OR OTHER PRESERVED FORESTED AREAS.
7. NO FILLING OR STOCKPILING OF MATERIALS SHALL OCCUR WITHIN THE TREE PROTECTION AREA, INCLUDING DEPOSITION OF SEDIMENT.
8. WHERE UTILITIES MUST RUN THROUGH A TREE'S DRIP LINE, TUNNELING SHOULD BE USED TO MINIMIZE ROOT DAMAGE. TUNNELING SHOULD BE AT A MINIMUM DEPTH OF 24 INCHES FOR TREES LESS THAN 12 INCHES IN DIAMETER OR AT A MINIMUM DEPTH OF 36 INCHES FOR LARGER DIAMETER TREES.
9. WHERE TUNNELING WILL BE PERFORMED WITHIN THE DRIP LINE OF A TREE, THE TUNNEL SHOULD BE PLACED A MINIMUM OF 2 FEET AWAY FROM THE TREE TRUNK TO AVOID TAPROOTS.
10. MINIMIZE EXCAVATION OR TRENCHING WITHIN THE DRIP LINE OF THE TREE. ROUTE TRENCHES AROUND THE DRIP LINE OF TREES.
11. ROOTS 2 INCHES OR LARGER THAT ARE SEVERED BY TRENCHING SHOULD BE SAWN OFF NEATLY IN ORDER TO ENCOURAGE NEW GROWTH AND DISCOURAGE DECAY.
12. SOIL EXCAVATED DURING TRENCHING SHALL BE PILED ON THE SIDE AWAY FROM THE TREE.
13. ROOTS SHALL BE KEPT MOIST WHILE TRENCHES ARE OPEN AND REFILLED IMMEDIATELY AFTER UTILITIES ARE INSTALLED OR REPAIRED.

3 TREE PROTECTION DETAIL
N.T.S.

SEAL:

NO. DATE DESCRIPTION
04/24/26 95% REVIEW SET

WILMINGTON HEIGHTS SHOPPING CENTER RENOVATION
KETTERING, OHIO
PROJECT NO: 251048.000
DATE: 2026-04-23
SCALE:

SHEET NAME:
EROSION CONTROL DETAILS

SHEET NO.
C601

Soil Map—Montgomery County, Ohio



Soil Map may not be valid at this scale.

Map Scale: 1:934 if printed on A landscape (11" x 8.5") sheet.

0 10 20 40 60 Meters

0 45 90 180 270 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84



**Natural Resources
Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

4/16/2026
Page 1 of 3

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Montgomery County, Ohio

Survey Area Data: Version 24, Sep 2, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 18, 2023—Aug 4, 2023

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
MoB	Miamian-Urban land complex, undulating	0.5	20.3%
MoC	Miamian-Urban land complex, rolling	0.0	0.1%
Rt	Ross-Urban land complex	1.9	79.6%
Totals for Area of Interest		2.3	100.0%



Appendix C – Design Calculations

Design calculations and data support the preparer's decisions and demonstrate regulatory compliance to reviewers. Ohio EPA recommends the use of its data sheets and spreadsheets to exhibit compliance with BMP design requirements including storage volumes and drawdown requirements. [delete from submittal]

Appendix D – Grading and Stabilization Activities Log

Wilmington Heights Shopping Center Renovation

Description and Location of Grading Activity	Date Grading Activity Initiated	Date Grading Activity Ceased	Date When Stabilization Measures Initiated and Type		Description of Stabilization Measure
				☐ Temporary ☐ Permanent	
				☐ Temporary ☐ Permanent	
				☐ Temporary ☐ Permanent	
				☐ Temporary ☐ Permanent	
				☐ Temporary ☐ Permanent	
				☐ Temporary ☐ Permanent	
				☐ Temporary ☐ Permanent	

[This form is a sample. It may be modified or replaced by the SWP3 writer as necessary]

Appendix E – Site Inspection Forms

[The following form is a sample. It may be modified or replaced by the SWP3 writer as necessary]

Construction General Permit Site Inspection Report

Project Name: _____

NPDES ID Number: _____

Section A – General Information		
<i>(If necessary, complete additional inspection reports for each separate inspection location.)</i>		
Inspector Information		
Inspector Name:		Email:
Qualifications:		Phone Number:
Inspection Details		
Inspection Date:	Inspection Start Time:	Inspection End Time:
Location Inspected:		Current Phase of Construction:
Weather Conditions for the period since the last inspection:		
Weather Conditions During Inspection:		
Required Frequency Basis for This Inspection: ☐ after any storm event greater than one-half inch of rain per 24-hour period (by the end of the next calendar day, excluding weekends and holidays unless work is scheduled) As determined by ☐ On-site rain gauge ☐ Weather station report (Source: _____) Storm event date and start time: _____ Storm Event Duration : _____ Total Rainfall (inches): _____ Did a discharge occur? ☐ Yes ☐ No ☐ Unknown ☐ once every seven calendar days ☐ once every month for dormant sites: ☐ the entire site is temporarily stabilized) ☐ runoff is unlikely due to extended periods of snow or ice cover, or the ground is frozen		
Section B – Description of Discharges		
Discharge Location	Is a discharge occurring during the inspection?	Observations for each point of discharge ¹ :
	☐ Yes ☐ No	
	☐ Yes ☐ No	
	☐ Yes ☐ No	

1. Describe the visual quality of the discharge including color; odor; floating, settled, or suspended solids; foam; oil sheen; and other indicators of stormwater pollutants. Include signs of the above pollutant characteristics that are visible from your site and attributable to your discharge.

Construction General Permit Site Inspection Report

Project Name: _____

NPDES ID Number: _____

Section C – Overall Site Conditions		
Are all BMPs in the SWP3 are properly implemented in accordance with the proposed schedule?	☐ Yes ☐ No	Notes:
Are all BMPs installed are adequate?	☐ Yes ☐ No	Notes:
Are additional BMPs needed that do not exist at the time of the inspection?	☐ Yes ☐ No	Notes:
Is there evidence of or the potential for pollutants to discharge?	☐ Yes ☐ No	Notes:
Requires Corrective Action? ☐ Yes ☐ No	Describe Actions Needed:	

Section D – Erosion and Sediment Controls		
Construction Entrance		
Description of Conditions Observed:		
Is a construction entrance installed per plan?	☐ Yes ☐ No	Notes:
Is sediment being tracked off-site?	☐ Yes ☐ No	Notes:
Does sediment need to be removed from the surface?	☐ Yes ☐ No	Notes:
Does the runoff drain properly away from the entrance?	☐ Yes ☐ No	Notes:
Requires Routine Maintenance? ☒ Yes ☐ No	Describe Maintenance Items Needed:	
Requires Corrective Action? ☐ Yes ☐ No	Describe Actions Needed:	

Construction General Permit Site Inspection Report

Project Name: _____

NPDES ID Number: _____

Permanent Stabilization		
Description of Conditions Observed:		
Are all areas of the site at final grade permanently stabilized?	☐ Yes ☐ No	Notes:
Have proper methods for seedbed preparation, fertilizer application, and mulching utilized?	☐ Yes ☐ No	Notes:
Are critical areas (conveyance channels, outlets, steep slopes, etc.) stabilized?	☐ Yes ☐ No	Notes:
Requires Routine Maintenance? ☐ Yes ☐ No	Describe Maintenance Items Needed:	
Requires Corrective Action? ☐ Yes ☐ No	Describe Actions Needed:	

Temporary Stabilization		
Description of Conditions Observed:		
Are all disturbed areas of the site that will lie dormant for over 14 days temporarily stabilized?	☐ Yes ☐ No	Notes:
Have all stockpiles been temporarily stabilized?	☐ Yes ☐ No	Notes:
Does existing temporary stabilization provide sufficient and effective cover?	☐ Yes ☐ No	Notes:
Requires Routine Maintenance? ☐ Yes ☐ No	Describe Maintenance Items Needed:	
Requires Corrective Action? ☐ Yes ☐ No	Describe Actions Needed:	

Construction General Permit Site Inspection Report

Project Name: _____

NPDES ID Number: _____

Sediment Settling Pond		
Description of Conditions Observed:		
Is a sediment settling pond installed per plan?	☐ Yes ☐ No	Notes:
Does runoff enter the pond without causing erosion or bypassing the control?	☐ Yes ☐ No	Notes:
Are the banks stabilized?	☐ Yes ☐ No	Notes:
Is the skimmer installed and functioning properly?	☐ Yes ☐ No	Notes:
Does the Dewatering volume drain entirely through the skimmer?	☐ Yes ☐ No	Notes:
Is the outlet free of obstructions?	☐ Yes ☐ No	Notes:
Does the pond have sediment storage capacity?	☐ Yes ☐ No	Notes:
Requires Routine Maintenance? ☐ Yes ☐ No	Describe Maintenance Items Needed:	
Requires Corrective Action? ☐ Yes ☐ No	Describe Actions Needed:	

Construction General Permit Site Inspection Report

Project Name: _____

NPDES ID Number: _____

Sediment Barriers		
Description of Conditions Observed:		
Are sediment barriers installed as planned in the SWP3?	☐ Yes ☐ No	Notes:
Is the barrier sealed to the ground with ends upturned and without gaps or openings such that water ponds behind it?	☐ Yes ☐ No	Notes:
Does captured sediment need to be removed from behind the barrier?	☐ Yes ☐ No	Notes:
Requires Routine Maintenance? ☐ Yes ☐ No	Describe Maintenance Items Needed:	
Requires Corrective Action? ☐ Yes ☐ No	Describe Actions Needed:	

Storm Drain Inlet Protection		
Description of Conditions Observed:		
Is storm drain inlet protection installed as planned in the SWP3?	☐ Yes ☐ No	Notes:
Are all operational inlets receiving sediment-laden water protected?	☐ Yes ☐ No	Notes:
Does runoff bypass the device through tears, seams, gaps, or holes?	☐ Yes ☐ No	Notes:
Does captured sediment need to be removed from the device?	☐ Yes ☐ No	Notes:
Requires Routine Maintenance? ☐ Yes ☐ No	Describe Maintenance Items Needed:	
Requires Corrective Action? ☐ Yes ☐ No	Describe Actions Needed:	

Construction General Permit Site Inspection Report

Project Name: _____

NPDES ID Number: _____

OTHER CONTROL: _____	
Description of Conditions Observed:	
Requires Routine Maintenance? ☐ Yes ☐ No	Describe Maintenance Items Needed:
Requires Corrective Action? ☐ Yes ☐ No	Describe Actions Needed:

OTHER CONTROL: _____	
Description of Conditions Observed:	
Requires Routine Maintenance? ☐ Yes ☐ No	Describe Maintenance Items Needed:
Requires Corrective Action? ☐ Yes ☐ No	Describe Actions Needed:

OTHER CONTROL: _____	
Description of Conditions Observed:	
Requires Routine Maintenance? ☐ Yes ☐ No	Describe Maintenance Items Needed:
Requires Corrective Action? ☐ Yes ☐ No	Describe Actions Needed:

Section D – Pollution Controls

Construction General Permit Site Inspection Report

Project Name: _____

NPDES ID Number: _____

Are all controls to prevent the following pollutants from entering the drainage system or discharging installed, maintained, and operating effectively?		
Dewatering	☐ Yes ☐ No ☐ N/A	Notes:
Washout of Concrete and other materials	☐ Yes ☐ No ☐ N/A	Notes:
Fuel Storage & Handling	☐ Yes ☐ No ☐ N/A	Notes:
Trash Storage & Handling	☐ Yes ☐ No ☐ N/A	Notes:
Agrichemical Storage & Handling	☐ Yes ☐ No ☐ N/A	Notes:
Petroleum Product Storage & Handling	☐ Yes ☐ No ☐ N/A	Notes:
Toxic Materials Storage & Handling	☐ Yes ☐ No ☐ N/A	Notes:
Sanitary Waste	☐ Yes ☐ No ☐ N/A	Notes:
Requires Routine Maintenance? ☐ Yes ☐ No	Describe Maintenance Items Needed:	
Requires Corrective Action? ☐ Yes ☐ No	Describe Actions Needed:	

Section E – Site Compliance Summary

Construction General Permit Site Inspection Report

Project Name: _____

NPDES ID Number: _____

☐ I certify that on the date of this inspection, the site was found to be in compliance with the terms of the applicable Construction General Permit.☐ The following corrective actions are required by the established completion date¹.

Corrective Action:	Complete By:

Section F – Signature and Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Inspector or "Duly Authorized Representative:"

Signature:	Date:
Printed Name:	Affiliation:

¹ If the inspection reveals that a control practice needs repair or maintenance, it shall be repaired or maintained within 3 days of the inspection. Sediment settling ponds shall be repaired or maintained within 10 days of the inspection. If the inspection reveals that a control practice fails to perform its intended function and that another, more appropriate control practice is required, the SWP3 shall be amended, and the new control practice shall be installed within 10 days of the inspection. If the inspection reveals that a control practice has not been implemented in accordance with the schedule, the control practice shall be implemented within 10 days from the date of the inspection. If the inspection reveals that the planned control practice is not needed, the record shall contain a statement of explanation as to why the control practice is not needed.

Appendix F – Corrective Action Log

Wilmington Heights Shopping Center Renovation

Date of Inspection	Description of Corrective Action	Date Completed	Completed by [Name(s) and Title]

[This form is a sample. It may be modified or replaced by the SWP3 writer as necessary]

Appendix G – Subcontractor Identification and Certification

Wilmington Heights Shopping Center Renovation

Subcontractor	Contact [Name and Phone Number]	Work Activities

[This form is a sample. It may be modified or replaced by the SWP3 writer as necessary]

**SUBCONTRACTOR CERTIFICATION
STORMWATER POLLUTION PREVENTION PLAN**

Project Number: _____

Project Title: _____

Operator(s): _____

As a subcontractor, you are required to comply with the Stormwater Pollution Prevention Plan (SWP3) for any work that you perform on-site. Any person or group who violates any condition of the SWP3 may be subject to substantial penalties or loss of contract. You are encouraged to advise each of the employees working on this project of the requirements of the SWP3. A copy of the SWP3 is available for review at the office trailer.

Each subcontractor engaged in activities at the construction site that could impact stormwater must be identified and sign the following certification statement:

I certify under the penalty of law that I have read and understand the terms and conditions of the SWP3 for the above designated project and agree to follow the practices described in the SWP3.

This certification is hereby signed in reference to the above-named project:

Company: _____

Address: _____

Telephone number: _____

Type of construction service to be provided: _____

Signature: _____

Title: _____

Date: _____

Appendix H – Delegation of Authority

Delegation of Authority

I, _____ (name), hereby designate the person or specifically described position below to be a duly authorized representative for the purpose of overseeing compliance with environmental requirements, including Ohio EPA's Construction General Permit (CGP), at the _____ construction site. The designee is authorized to sign any reports, stormwater pollution prevention plans, and all other documents required by the permit.

(name of person or position)
(company)
(address)
(city, state, zip)
(phone)

By signing this authorization, I confirm that I meet the requirements to make such a designation as set forth in Part V.G.2 of Ohio EPA's CGP.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: _____

Company: _____

Title: _____

Signature: _____

Date: _____

APPENDIX I – SWP3 Training Log

Wilmington Heights Shopping Center Renovation

Date of Training	Description of Training	Attendees

[This form is a sample. It may be modified or replaced by the SWP3 writer as necessary]

Appendix J - Post-Construction Operation and Maintenance Plan

[The following form is a sample. It may be modified or replaced by the SWP3 writer as necessary]

STORMWATER MANAGEMENT SYSTEM OPERATION AND MAINTENANCE PLAN

FOR

Wilmington Heights Shopping Center Renovation
4618 Wilmington Pike
Kettering, OH 45440

Insert Company or Organization Name
Insert Name
Insert Address
Insert City, State, Zip Code
Insert Telephone Number
Insert Email

Prepared By:

Insert Company or Organization Name
Insert Name
Insert Address
Insert City, State, Zip Code
Insert Telephone Number
Insert Email

Table of Contents

- 1.0 Designated Entity Responsible for Maintenance
 - 2.0 Stormwater Management System Overview
 - 3.0 Inspection Procedure
 - 4.0 Maintenance Tasks
 - 5.0 Legal Documents
 - 6.0 As-Built Construction Drawing#
 - 7.0 Location and Access Map
 - 8.0 Pollutant Removal and Disposal Procedure
-

1.0 DESIGNATED ENTITY RESPONSIBLE FOR MAINTENANCE

[Identify the entity designated to conduct/oversee inspections and maintenance responsibilities of the stormwater management system after construction. This entity may be the post-construction operator, owner, or a contracted party. Include their contact information such as name, mailing address, phone, and email.]

2.0 STORMWATER MANAGEMENT SYSTEM OVERVIEW

[Detail the post-construction stormwater management system describing all the stormwater management practices including any riparian setback areas, mitigation areas, disconnection areas, or conservation areas. If multiples of the same practice exist (i.e., two stormwater ponds), make sure they are consistently and clearly labeled in the narrative, construction drawings, and site maps.]

3.0 INSPECTION PROCEDURE

[Describe the inspection procedure for each stormwater management practice and the frequency at which the inspections should occur. This may involve the creation of an inspection checklist and the specifications for reports if required locally.]

4.0 MAINTENANCE TASKS AND SCHEDULE

[For each stormwater management practice identified in Section 3.0, list the routine and non-routine maintenance tasks that must be performed to ensure proper function of the BMP and the approximate frequency at which the task is expected to occur. Additionally, detail any other indicators of maintenance needs (i.e., accumulated sediment depth). Maintenance tasks should be specific to each type of BMP.]

5.0 LEGAL DOCUMENT

[Include a copy of any legal documents associated with the stormwater management practices including easements, maintenance agreements, environmental covenants, or deed restrictions.]

6.0 AS-BUILT CONSTRUCTION DRAWINGS

[Include a copy of the as-built construction drawings (spec. sheets, shop drawings) of the stormwater management system. Details pertaining to the specific design of each BMP should be present and summary information should be present. For example, this may include basin outlet drawings that specify invert elevations and sizes, as well as summary tables that identify basin capacity and orifice size.]

7.0 LOCATION AND ACCESS MAP

[Describe both in narrative and visual form the preferred access routes to the BMPs. This prevents trespass and encourages safety. A map should be included to help identify the site, the BMP locations, and the route to access each BMP.]

8.0 POLLUTANT REMOVAL AND DISPOSAL PROCEDURE

All pollutants collected within structural post-construction practices shall be disposed of in accordance with local, state, and federal regulations.

[Describe the planned procedure to remove and dispose of captured pollutants such as accumulated sediment, trash, and harvested vegetation. If on-site disposal is planned, provide detailed instructions.]

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**SECTION 01 1000
SUMMARY**

PART 1 GENERAL

1.01 PROJECT

- A. Project Name: 4410.00 Wilmington Heights Nuisance Abatement
- B. Client's Name: City of Kettering.
- C. Architect's Name: App Architecture, Inc..
- D. The Project consists of the partial demolition of the retail strip center and renovation to affected structures located at 4650 Wilmington pike, Kettering, oh 45440. The city of Kettering has decided to demolish retail suites A through H along with associated parking fields leaving a clean pad for future development. The remaining portion of the retail center shall be renovated with a new EIFS facade treatment where the current demising wall becomes exposed.

1.02 OWNER OCCUPANCY

- A. Adjacent tenants intend to continue to occupy adjacent portions of the existing building during the entire construction period.
- B. Cooperate with Client to minimize conflict and to facilitate the tenant's operations.

1.03 CONTRACTOR USE OF SITE AND PREMISES

- A. Construction Operations: Limited to areas noted on Drawings.
 - 1. Locate and conduct construction activities in ways that will limit disturbance to site.
- B. Provide access to and from site as required by law and by Client:
 - 1. Emergency Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.
- C. Time Restrictions:
 - 1. Limit conduct of the hours of 7:00 a.m. to 5:00 p.m..
 - 2. Weekend Hours: As approved by Owner..
 - 3. Early Morning Hours: As approved by Owner..

END OF SECTION 01 1000

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**SECTION 01 2300
ALTERNATES**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Description of Alternates.

1.02 ACCEPTANCE OF ALTERNATES

- A. Alternates quoted on Bid Forms will be reviewed and accepted or rejected at Client's option. Accepted Alternates will be identified in the Owner-Contractor Agreement.
- B. Coordinate related work and modify surrounding work to integrate the Work of each Alternate.

1.03 SCHEDULE OF ALTERNATES

- A. As noted or shown in the Contract Documents and Bid Packages.
 - 1. Alternate No. 1
 - a. Base Bid: Building demolition, exterior renovation and site restoration at building pad only. Existing paved areas, site features and underground utilities shall remain.
 - b. Alternate : Removal of site paving, site features and underground utilities.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 01 2300

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**SECTION 01 2500
SUBSTITUTION PROCEDURES**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Procedural requirements for proposed substitutions.

1.02 RELATED REQUIREMENTS

- A. Section 01 3000 - Administrative Requirements: Submittal procedures, coordination.
- B. Section 01 6000 - Product Requirements: Fundamental product requirements, product options, delivery, storage, and handling.

1.03 DEFINITIONS

- A. Substitutions: Changes from Contract Documents requirements proposed by Contractor to materials, products, assemblies, and equipment.
 - 1. Substitutions for Cause: Proposed due to changed Project circumstances beyond Contractor's control.
 - a. Unavailability.
 - b. Regulatory changes.
 - c. Unavailability of required warranty terms.
 - 2. Substitutions for Convenience: Proposed due to possibility of offering substantial advantage to the Project.
 - a. Substitution requests offering advantages solely to the Contractor will not be considered.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 GENERAL REQUIREMENTS

- A. A Substitution Request for products, assemblies, materials, and equipment constitutes a representation that the submitter:
 - 1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product, equipment, assembly, or system.
 - 2. Agrees to provide the same warranty for the substitution as for the specified product.
 - 3. Agrees to provide same or equivalent maintenance service and source of replacement parts, as applicable.
 - 4. Agrees to coordinate installation and make changes to other work that may be required for the work to be complete, with no additional cost to Client.
 - 5. Waives claims for additional costs or time extension that may subsequently become apparent.
 - 6. Agrees to reimburse Client and Architect for review or redesign services associated with re-approval by authorities.
- B. A Substitution Request for specified installer constitutes a representation that the submitter:
 - 1. Has acted in good faith to obtain services of specified installer, but was unable to come to commercial, or other terms.
- C. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents. Burden of proof is on proposer.
 - 1. Note explicitly any non-compliant characteristics.

- D. Content: Include information necessary for tracking the status of each Substitution Request, and information necessary to provide an actionable response.
1. No specific form is required. Contractor's Substitution Request documentation must include the following:
 - a. Project Information:
 - 1) Official project name and number, and any additional required identifiers established in Contract Documents.
 - 2) Client's, Architect's, and Contractor's names.
 - b. Substitution Request Information:
 - 1) Discrete and consecutive Substitution Request number, and descriptive subject/title.
 - 2) Indication of whether the substitution is for cause or convenience.
 - 3) Issue date.
 - 4) Reference to particular Contract Document(s) specification section number, title, and article/paragraph(s).
 - 5) Description of Substitution.
 - 6) Reason why the specified item cannot be provided.
 - 7) Differences between proposed substitution and specified item.
 - c. Attached Comparative Data: Provide point-by-point, side-by-side comparison addressing essential attributes specified, as appropriate and relevant for the item:
 - 1) Physical characteristics.
 - 2) In-service performance.
 - 3) Expected durability.
 - 4) Visual effect.
 - 5) Warranties.
 - 6) Other salient features and requirements.
 - 7) Include, as appropriate or requested, the following types of documentation:
 - (a) Product Data:
 - (b) Samples.
 - (c) Certificates, test, reports or similar qualification data.
 - (d) Drawings, when required to show impact on adjacent construction elements.
 - d. Impact of Substitution:
 - 1) Savings to Client for accepting substitution.
 - 2) Change to Contract Time due to accepting substitution.
- E. Limit each request to a single proposed substitution item.
1. Submit an electronic document, combining the request form with supporting data into single document.

3.02 SUBSTITUTION PROCEDURES DURING CONSTRUCTION

- A. Architect will consider requests for substitutions only within 15 days after date of Agreement.
- B. Submit request for Substitution for Cause within 14 days of discovery of need for substitution, but not later than 14 days prior to time required for review and approval by Architect, in order to stay on approved project schedule.
- C. Submit request for Substitution for Convenience within 14 days of discovery of its potential advantage to the project, but not later than 14 days prior to time required for review and approval by Architect, in order to stay on approved project schedule.
 1. In addition to meeting general documentation requirements, document how the requested substitution benefits the Client through cost savings, time savings, greater energy conservation, or in other specific ways.
 2. Document means of coordinating of substitution item with other portions of the work, including work by affected subcontractors.
 3. Bear the costs engendered by proposed substitution of:

- a. Client's compensation to the Architect for any required redesign, time spent processing and evaluating the request.
 - b. Other construction by Client.
 - c. Other unanticipated project considerations.
- D. Substitutions will not be considered under one or more of the following circumstances:
 - 1. When they are indicated or implied on shop drawing or product data submittals, without having received prior approval.
 - 2. Without a separate written request.
 - 3. When acceptance will require revisions to Contract Documents.

3.03 RESOLUTION

- A. Architect may request additional information and documentation prior to rendering a decision. Provide this data in an expeditious manner.
- B. Architect will notify Contractor in writing of decision to accept or reject request.
 - 1. Architect's decision following review of proposed substitution will be noted on the submitted form cover sheet.

3.04 ACCEPTANCE

- A. Accepted substitutions change the work of the Project. They will be documented and incorporated into work of the project by Change Order, Construction Change Directive, Architectural Supplementary Instructions, or similar instruments provided for in the Conditions of the Contract.

3.05 CLOSEOUT ACTIVITIES

- A. See Section 01 7800 - Closeout Submittals, for closeout submittals.

END OF SECTION 01 2500

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**SECTION 01 3000
ADMINISTRATIVE REQUIREMENTS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. General administrative requirements.
- B. Preconstruction meeting.
- C. Progress meetings.
- D. Construction progress schedule.
- E. Contractor's daily reports.
- F. Submittals for review, information, and project closeout.
- G. Number of copies of submittals.
- H. Requests for Information (RFI) procedures.
- I. Submittal procedures.

1.02 RELATED REQUIREMENTS

- A. Section 01 6000 - Product Requirements: General product requirements.
- B. Section 01 7000 - Execution and Closeout Requirements: Additional coordination requirements.
- C. Section 01 7800 - Closeout Submittals: Project record documents; operation and maintenance data; warranties and bonds.

1.03 REFERENCE STANDARDS

1.04 PROJECT COORDINATOR

- A. Project Coordinator: General Contractor.
- B. Cooperate with the Project Coordinator in allocation of mobilization areas of site; for field offices and sheds, for access, traffic, and parking facilities.
- C. During construction, coordinate use of site and facilities through the Project Coordinator.
- D. Comply with Project Coordinator's procedures for intra-project communications; submittals, reports and records, schedules, coordination drawings, and recommendations; and resolution of ambiguities and conflicts.
- E. Comply with instructions of the Project Coordinator for use of temporary utilities and construction facilities. Responsibility for providing temporary utilities and construction facilities is identified in Section 01 1000 - Summary.
- F. Make the following types of submittals to Architect through the Project Coordinator:
 - 1. Requests for Information.
 - 2. Requests for substitution.
 - 3. Shop drawings, product data, and samples.
 - 4. Test and inspection reports.
 - 5. Design data.
 - 6. Manufacturer's instructions and field reports.
 - 7. Applications for payment and change order requests.
 - 8. Progress schedules.
 - 9. Correction Punch List and Final Correction Punch List for Substantial Completion.
 - 10. Closeout submittals.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PRECONSTRUCTION MEETING

- A. Project Coordinator will schedule a meeting no later than 10 days after the execution of the Agreement.
- B. Attendance Required:
 - 1. Client.
 - 2. Architect.
 - 3. Contractor.
- C. Agenda:
 - 1. Execution of Client-Contractor Agreement.
 - 2. Submission of executed bonds and insurance certificates.
 - 3. Distribution of Contract Documents.
 - 4. Submission of list of subcontractors, list of products, schedule of values, and progress schedule.
 - 5. Submission of initial Submittal schedule.
 - 6. Designation of personnel representing the parties to Contract, Construction Manager and Architect.
 - 7. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
 - 8. Scheduling.
- D. Record minutes and distribute copies within two days after meeting to participants, and those affected by decisions made.

3.02 PROGRESS MEETINGS

- A. Schedule and administer meetings throughout progress of the work at maximum bi-weekly intervals.
- B. Project Coordinator will make arrangements for meetings, prepare agenda with copies for participants, preside at meetings.
- C. Attendance Required:
 - 1. Contractor.
 - 2. Client.
 - 3. Contractor's superintendent.
 - 4. Major subcontractors.
- D. Agenda:
 - 1. Review minutes of previous meetings.
 - 2. Review of work progress.
 - 3. Field observations, problems, and decisions.
 - 4. Identification of problems that impede, or will impede, planned progress.
 - 5. Review of submittals schedule and status of submittals.
 - 6. Review of RFIs log and status of responses.
 - 7. Maintenance of progress schedule.
 - 8. Corrective measures to regain projected schedules.
 - 9. Planned progress during succeeding work period.
 - 10. Maintenance of quality and work standards.
 - 11. Effect of proposed changes on progress schedule and coordination.
 - 12. Other business relating to work.

- E. Record minutes and distribute copies within two days after meeting to participants, and those affected by decisions made.

3.03 CONSTRUCTION PROGRESS SCHEDULE

- A. Within 10 days after date of the Agreement, submit preliminary schedule defining planned operations for the first 60 days of work, with a general outline for remainder of work.
- B. If preliminary schedule requires revision after review, submit revised schedule within 10 days.
- C. Within 20 days after review of preliminary schedule, submit draft of proposed complete schedule for review.
 - 1. Include written certification that major contractors have reviewed and accepted proposed schedule.
- D. Within 10 days after joint review, submit complete schedule.
- E. Submit updated schedule with each Application for Payment.

3.04 DAILY CONSTRUCTION REPORTS

- A. Include only factual information. Do not include personal remarks or opinions regarding operations and/or personnel.
- B. Prepare a daily construction report recording the following information concerning events at Project site and project progress:
 - 1. Date.
 - 2. High and low temperatures, and general weather conditions.
 - 3. List of subcontractors at Project site.
 - 4. List of separate contractors at Project site.
 - 5. Approximate count of personnel at Project site.
 - 6. Major equipment at Project site.
 - 7. Material deliveries.
 - 8. Safety, environmental, or industrial relations incidents.
 - 9. Meetings and significant decisions.
 - 10. Unusual events (submit a separate special report).
 - 11. Stoppages, delays, shortages, and losses. Include comparison between scheduled work activities (in Contractor's most recently updated and published schedule) and actual activities. Explain differences, if any. Note days or periods when no work was in progress and explain the reasons why.
 - 12. Testing and/or inspections performed.
 - 13. Signature of Contractor's authorized representative.

3.05 REQUESTS FOR INFORMATION (RFI)

- A. Preparation: Prepare an RFI immediately upon discovery of a need for interpretation of Contract Documents. Failure to submit a RFI in a timely manner is not a legitimate cause for claiming additional costs or delays in execution of the work.
 - 1. Prepare a separate RFI for each specific item.
 - a. Review, coordinate, and comment on requests originating with subcontractors and/or materials suppliers.
 - b. Do not forward requests which solely require internal coordination between subcontractors.
 - 2. Prepare in a format and with content acceptable to Architect.
- B. Reason for the RFI: Prior to initiation of an RFI, carefully study all Contract Documents to confirm that information sufficient for their interpretation is definitely not included.
 - 1. Include in each request Contractor's signature attesting to good faith effort to determine from Contract Documents information requiring interpretation.

2. Unacceptable Uses for RFIs: Do not use RFIs to request the following:
 - a. Approval of submittals (use procedures specified elsewhere in this section).
 - b. Approval of substitutions (see Section - 01 6000 - Product Requirements)
 - c. Changes that entail change in Contract Time and Contract Sum (comply with provisions of the Conditions of the Contract).
 - d. Different methods of performing work than those indicated in the Contract Drawings and Specifications (comply with provisions of the Conditions of the Contract).
3. Improper RFIs: Requests not prepared in compliance with requirements of this section, and/or missing key information required to render an actionable response. They will be returned without a response, with an explanatory notation.
4. Frivolous RFIs: Requests regarding information that is clearly indicated on, or reasonably inferable from, Contract Documents, with no additional input required to clarify the question. They will be returned without a response, with an explanatory notation.
 - a. The Client reserves the right to assess the Contractor for the costs (on time-and-materials basis) incurred by the Architect, and any of its consultants, due to processing of such RFIs.
- C. Content: Include identifiers necessary for tracking the status of each RFI, and information necessary to provide an actionable response.
 1. Official Project name and number, and any additional required identifiers established in Contract Documents.
 2. Client's, Architect's, and Construction Manager's names.
 3. Discrete and consecutive RFI number, and descriptive subject/title.
 4. Issue date, and requested reply date.
 5. Reference to particular Contract Document(s) requiring additional information/interpretation. Identify pertinent drawing and detail number and/or specification section number, title, and paragraph(s).
 6. Annotations: Field dimensions and/or description of conditions which have engendered the request.
 7. Contractor's suggested resolution: A written and/or a graphic solution, to scale, is required in cases where clarification of coordination issues is involved, for example; routing, clearances, and/or specific locations of work shown diagrammatically in Contract Documents. If applicable, state the likely impact of the suggested resolution on Contract Time or the Contract Sum.
- D. Attachments: Include sketches, coordination drawings, descriptions, photos, submittals, and other information necessary to substantiate the reason for the request.
- E. RFI Log: Prepare and maintain a tabular log of RFIs for the duration of the project.
 1. Indicate current status of every RFI. Update log promptly and on a regular basis.
 2. Note dates of when each request is made, and when a response is received.
 3. Highlight items requiring priority or expedited response.
 4. Highlight items for which a timely response has not been received to date.
- F. Review Time: Architect will respond and return RFIs to Contractor within seven calendar days of receipt. For the purpose of establishing the start of the mandated response period, RFIs received after 12:00 noon will be considered as having been received on the following regular working day.
 1. Response period may be shortened or lengthened for specific items, subject to mutual agreement, and recorded in a timely manner in progress meeting minutes.
- G. Responses: Content of answered RFIs will not constitute in any manner a directive or authorization to perform extra work or delay the project. If in Contractor's belief it is likely to lead to a change to Contract Sum or Contract Time, promptly issue a notice to this effect, and follow up with an appropriate Change Order request to Client.
 1. Response may include a request for additional information, in which case the original RFI will be deemed as having been answered, and an amended one is to be issued forthwith. Identify the amended RFI with an R suffix to the original number.

2. Do not extend applicability of a response to specific item to encompass other similar conditions, unless specifically so noted in the response.
3. Upon receipt of a response, promptly review and distribute it to all affected parties, and update the RFI Log.
4. Notify Architect within seven calendar days if an additional or corrected response is required by submitting an amended version of the original RFI, identified as specified above.

3.06 SUBMITTAL SCHEDULE

- A. Submit to Architect for review a schedule for submittals in tabular format.
 1. Submit at the same time as the preliminary schedule specified in Section - 01 3216 - Construction Progress Schedule.
 2. Coordinate with Contractor's construction schedule and schedule of values.
 3. Arrange information to include scheduled date for initial submittal, specification number and title, submittal category (for review or for information), description of item of work covered, and role and name of subcontractor.
 4. Account for time required for preparation, review, manufacturing, fabrication and delivery when establishing submittal delivery and review deadline dates.
 - a. For assemblies, equipment, systems comprised of multiple components and/or requiring detailed coordination with other work, allow for additional time to make corrections or revisions to initial submittals, and time for their review.

3.07 SUBMITTALS FOR REVIEW

- A. When the following are specified in individual sections, submit them for review:
 1. Product data.
 2. Shop drawings.
 3. Samples for selection.
 4. Samples for verification.
- B. Submit to Architect for review for the limited purpose of checking for compliance with information given and the design concept expressed in Contract Documents.
- C. Samples will be reviewed for aesthetic, color, or finish selection.
- D. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article below and for record documents purposes described in Section 01 7800 - Closeout Submittals.

3.08 SUBMITTALS FOR INFORMATION

- A. When the following are specified in individual sections, submit them for information:
 1. Design data.
 2. Certificates.
 3. Test reports.
 4. Inspection reports.
 5. Manufacturer's instructions.
 6. Manufacturer's field reports.
 7. Other types indicated.
- B. Submit for Architect's knowledge as contract administrator or for Client.

3.09 SUBMITTALS FOR PROJECT CLOSEOUT

- A. Submit Correction Punch List for Substantial Completion.
- B. Submit Final Correction Punch List for Substantial Completion.
- C. When the following are specified in individual sections, submit them at project closeout in compliance with requirements of Section 01 7800 - Closeout Submittals:
 1. Project record documents.

2. Operation and maintenance data.
 3. Warranties.
 4. Bonds.
 5. Other types as indicated.
- D. Submit for Client's benefit during and after project completion.

3.10 NUMBER OF COPIES OF SUBMITTALS

- A. Electronic Documents: Submit one electronic copy in PDF format; an electronically-marked up file will be returned. Create PDFs at native size and right-side up; illegible files will be rejected.
- B. Extra Copies at Project Closeout: See Section 01 7800.
- C. Samples: Submit the number specified in individual specification sections; one of which will be retained by Architect.
 1. After review, produce duplicates.
 2. Retained samples will not be returned to Contractor unless specifically so stated.

3.11 SUBMITTAL PROCEDURES

- A. General Requirements:
 1. Use a separate Project Submittal Cover Sheet for each item. Form included at end of this specification section.
 2. Submit separate packages of submittals for review and submittals for information, when included in the same specification section.
 3. Sequentially identify each item. For revised submittals use original number and a sequential numerical suffix.
 4. Identify: Project; Contractor; subcontractor or supplier; pertinent drawing and detail number; and specification section number and article/paragraph, as appropriate on each copy.
 5. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of products required, field dimensions, adjacent construction work, and coordination of information is in accordance with the requirements of the work and Contract Documents.
 - a. Submittals from sources other than the Contractor, or without Contractor's stamp will not be acknowledged, reviewed, or returned.
 6. Deliver each submittal on date noted in submittal schedule, unless an earlier date has been agreed to by all affected parties, and is of the benefit to the project.
 - a. Upload submittals in electronic form to Electronic Document Submittal Service website.
 7. Schedule submittals to expedite the Project, and coordinate submission of related items.
 - a. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.
 - b. For sequential reviews involving Architect's consultants, Client, or another affected party, allow an additional 15 days.
 8. Identify variations from Contract Documents and product or system limitations that may be detrimental to successful performance of the completed work.
 9. When revised for resubmission, identify all changes made since previous submission.
 10. Distribute reviewed submittals. Instruct parties to promptly report inability to comply with requirements.
 11. Incomplete submittals will not be reviewed, unless they are partial submittals for distinct portion(s) of the work, and have received prior approval for their use.
- B. Product Data Procedures:
 1. Submit only information required by individual specification sections.
 2. Collect required information into a single submittal.
 3. Submit concurrently with related shop drawing submittal.
 4. Do not submit (Material) Safety Data Sheets for materials or products.
- C. Shop Drawing Procedures:

1. Prepare accurate, drawn-to-scale, original shop drawing documentation by interpreting Contract Documents and coordinating related work.
 2. Do not reproduce Contract Documents to create shop drawings.
 3. Generic, non-project-specific information submitted as shop drawings do not meet the requirements for shop drawings.
- D. Samples Procedures:
1. Transmit related items together as single package.
 2. Identify each item to allow review for applicability in relation to shop drawings showing installation locations.

3.12 SUBMITTAL REVIEW

- A. Submittals for Review: Architect and Consultants will review each submittal, and approve, or take other appropriate action.
- B. Submittals for Information: Architect will acknowledge receipt and review. See below for actions to be taken.
- C. Architect's actions will be reflected by marking each returned submittal using virtual stamp on electronic submittals.
1. Notations may be made directly on submitted items and/or listed on appended Submittal Review cover sheet.
- D. Architect's and consultants' actions on items submitted for review:
1. Authorizing purchasing, fabrication, delivery, and installation:
 - a. "Reviewed", or language with same legal meaning.
 - b. "Reviewed as Noted, Resubmission not required", or language with same legal meaning.
 - 1) At Contractor's option, submit corrected item, with review notations acknowledged and incorporated.
 - c. "Reviewed as Noted, Resubmit for Record", or language with same legal meaning.
 2. Not Authorizing fabrication, delivery, and installation:
- E. Architect's and consultants' actions on items submitted for information:
1. Items for which no action was taken:
 - a. "Received" - to notify the Contractor that the submittal has been received for record only.
 2. Items for which action was taken:
 - a. "Reviewed" - no further action is required from Contractor.

END OF SECTION 01 3000

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**SECTION 01 4000
QUALITY REQUIREMENTS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Submittals.
- B. Quality assurance.
- C. References and standards.
- D. Control of installation.
- E. Tolerances.
- F. Defect Assessment.

1.02 RELATED REQUIREMENTS

- A. Section 01 3000 - Administrative Requirements: Submittal procedures.
- B. Section 01 6000 - Product Requirements: Requirements for material and product quality.

1.03 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Certificates: When specified in individual specification sections, submit certification by the manufacturer and Contractor or installation/application subcontractor to Architect, in quantities specified for Product Data.
 - 1. Indicate material or product complies with or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.

1.04 REFERENCES AND STANDARDS

- A. For products and workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
- B. Comply with reference standard of date of issue current on date of Contract Documents, except where a specific date is established by applicable code.
- C. Obtain copies of standards where required by product specification sections.
- D. Maintain copy at project site during submittals, planning, and progress of the specific work, until Substantial Completion.
- E. Should specified reference standards conflict with Contract Documents, request clarification from Architect before proceeding.
- F. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of Architect shall be altered from Contract Documents by mention or inference otherwise in any reference document.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 CONTROL OF INSTALLATION

- A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of specified quality.
- B. Comply with manufacturers' instructions, including each step in sequence.
- C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.
- D. Comply with specified standards as minimum quality for the work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- E. Have work performed by persons qualified to produce required and specified quality.
- F. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.
- G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and disfigurement.

3.02 TOLERANCES

- A. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.
- B. Comply with manufacturers' tolerances. Should manufacturers' tolerances conflict with Contract Documents, request clarification from Architect before proceeding.
- C. Adjust products to appropriate dimensions; position before securing products in place.

3.03 DEFECT ASSESSMENT

- A. Replace Work or portions of the Work not complying with specified requirements.
- B. If, in the opinion of Architect, it is not practical to remove and replace the work, Architect will direct an appropriate remedy or adjust payment.

END OF SECTION 01 4000

**SECTION 01 6000
PRODUCT REQUIREMENTS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. General product requirements.
- B. Transportation, handling, storage and protection.
- C. Product option requirements.
- D. Substitution limitations.

1.02 RELATED REQUIREMENTS

- A. Section 01 1000 - Summary: Identification of Client-supplied products.
- B. Section 01 2500 - Substitution Procedures: Substitutions made during procurement and/or construction phases.
- C. Section 01 4000 - Quality Requirements: Product quality monitoring.

1.03 DEFINITIONS

- A. Products: Items obtained for incorporating into the Work, whether purchased for Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.
- B. Basis-of-Design Product Specification: A specification in which a single manufacturer's product is named and accompanied by the words "basis-of-design product," including make or model number or other designation. Published attributes and characteristics of basis-of-design product establish salient characteristics of products.

1.04 SUBMITTALS

- A. Product Data Submittals: Submit manufacturer's standard published data. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.
- B. Shop Drawing Submittals: Prepared specifically for this Project; indicate utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.
- C. Sample Submittals: Illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
 - 1. For selection from standard finishes, submit samples of the full range of the manufacturer's standard colors, textures, and patterns.

PART 2 PRODUCTS

2.01 NEW PRODUCTS

- A. Provide new products unless specifically required or permitted by Contract Documents.
- B. See Section 01 4000 - Quality Requirements, for additional source quality control requirements.
- C. Use of products having any of the following characteristics is not permitted:
 - 1. Made using or containing CFC's or HCFC's.
- D. Where other criteria are met, Contractor shall give preference to products that:

1. If used on interior, have lower emissions.
2. If wet-applied, have lower VOC content.

2.02 PRODUCT OPTIONS

- A. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.
- B. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, no options or substitutions allowed.
- C. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not named.

2.03 MAINTENANCE MATERIALS

- A. Furnish extra materials, spare parts, tools, and software of types and in quantities specified in individual specification sections.
- B. Deliver to Project site; obtain receipt prior to final payment.

PART 3 EXECUTION

3.01 SUBSTITUTION LIMITATIONS

- A. See Section 01 2500 - Substitution Procedures.

3.02 TRANSPORTATION AND HANDLING

- A. Package products for shipment in manner to prevent damage; for equipment, package to avoid loss of factory calibration.
- B. If special precautions are required, attach instructions prominently and legibly on outside of packaging.
- C. Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.
- D. Transport and handle products in accordance with manufacturer's instructions.
- E. Transport materials in covered trucks to prevent contamination of product and littering of surrounding areas.
- F. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.
- G. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage, and to minimize handling.
- H. Arrange for the return of packing materials, such as wood pallets, where economically feasible.

3.03 STORAGE AND PROTECTION

- A. Provide protection of stored materials and products against theft, casualty, or deterioration.
- B. Designate receiving/storage areas for incoming products so that they are delivered according to installation schedule and placed convenient to work area in order to minimize waste due to excessive materials handling and misapplication.
 1. Structural Loading Limitations: Handle and store products and materials so as not to exceed static and dynamic load-bearing capacities of project floor and roof areas.
- C. Store and protect products in accordance with manufacturers' instructions.
- D. Store with seals and labels intact and legible.

- E. Arrange storage of materials and products to allow for visual inspection for the purpose of determination of quantities, amounts, and unit counts.
- F. Store sensitive products in weathertight, climate-controlled enclosures in an environment favorable to product.
- G. For exterior storage of fabricated products, place on sloped supports above ground.
- H. Protect products from damage or deterioration due to construction operations, weather, precipitation, humidity, temperature, sunlight and ultraviolet light, dirt, dust, and other contaminants.
- I. Comply with manufacturer's warranty conditions, if any.
- J. Do not store products directly on the ground.
- K. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.
- L. Prevent contact with material that may cause corrosion, discoloration, or staining.
- M. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.
- N. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

END OF SECTION 01 6000

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**SECTION 01 7000
EXECUTION AND CLOSEOUT REQUIREMENTS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Examination, preparation, and general installation procedures.
- B. Cutting and patching.
- C. Cleaning and protection.
- D. Closeout procedures, including Contractor's Correction Punch List, except payment procedures.

1.02 RELATED REQUIREMENTS

- A. Section 01 3000 - Administrative Requirements: Submittals procedures.
- B. Section 01 4000 - Quality Requirements: Testing and inspection procedures.
- C. Section 01 7800 - Closeout Submittals: Project record documents, operation and maintenance data, warranties, and bonds.

1.03 REFERENCE STANDARDS

- A. NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations; 2022, with Errata (2021).

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

1.05 COORDINATION

- A. Coordinate scheduling, submittals, and work of the various sections of the Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.
- B. Coordinate space requirements, supports, and installation of mechanical and electrical work that are indicated diagrammatically on drawings. Follow routing indicated for pipes, ducts, and conduit, as closely as practicable; place runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.
- C. In finished areas except as otherwise indicated, conceal pipes, ducts, and wiring within the construction. Coordinate locations of fixtures and outlets with finish elements.
- D. Coordinate completion and clean-up of work of separate sections.
- E. Coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of Client's activities.

PART 2 PRODUCTS

2.01 PATCHING MATERIALS

- A. New Materials: As specified in product sections; match existing products and work for patching and extending work.
- B. Type and Quality of Existing Products: Determine by inspecting and testing products where necessary, referring to existing work as a standard.
- C. Product Substitution: For any proposed change in materials, submit request for substitution described in Section 01 6000 - Product Requirements.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.
- B. Verify that existing substrate is capable of structural support or attachment of new work being applied or attached.
- C. Examine and verify specific conditions described in individual specification sections.
- D. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or misfabrication.
- E. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.

3.02 PREPARATION

- A. Clean substrate surfaces prior to applying next material or substance.
- B. Seal cracks or openings of substrate prior to applying next material or substance.
- C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.

3.03 GENERAL INSTALLATION REQUIREMENTS

- A. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste due to necessity for replacement.
- B. Make vertical elements plumb and horizontal elements level, unless otherwise indicated.
- C. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless otherwise indicated.
- D. Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated.
- E. Make neat transitions between different surfaces, maintaining texture and appearance.

3.04 CUTTING AND PATCHING

- A. Whenever possible, execute the work by methods that avoid cutting or patching.
- B. Perform whatever cutting and patching is necessary to:
 - 1. Complete the work.
 - 2. Fit products together to integrate with other work.
 - 3. Provide openings for penetration of mechanical, electrical, and other services.
 - 4. Match work that has been cut to adjacent work.
 - 5. Repair areas adjacent to cuts to required condition.
 - 6. Repair new work damaged by subsequent work.
 - 7. Remove samples of installed work for testing when requested.
 - 8. Remove and replace defective and non-complying work.
- C. Execute work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing work, minimize damage and restore to original condition.
- D. Restore work with new products in accordance with requirements of Contract Documents.
- E. Patching:

1. Finish patched surfaces to match finish that existed prior to patching. On continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.
2. Match color, texture, and appearance.
3. Repair patched surfaces that are damaged, lifted, discolored, or showing other imperfections due to patching work. If defects are due to condition of substrate, repair substrate prior to repairing finish.

3.05 PROGRESS CLEANING

- A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.
- B. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing the space.
- C. Collect and remove waste materials, debris, and trash/rubbish from site periodically and dispose off-site.

3.06 PROTECTION OF INSTALLED WORK

- A. Protect installed work from damage by construction operations.
- B. Provide special protection where specified in individual specification sections.
- C. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
- D. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.
- E. Protect work from spilled liquids. If work is exposed to spilled liquids, immediately remove protective coverings, dry out work, and replace protective coverings.
- F. Remove protective coverings when no longer needed; reuse or recycle coverings if possible.
- G. Comply with manufacturer's written instructions for temperature and relative humidity.

3.07 FINAL CLEANING

- A. Execute final cleaning prior to Substantial Completion.
- B. Remove waste, surplus materials, trash/rubbish, and construction facilities from the site; dispose of in legal manner; do not burn or bury.

3.08 CLOSEOUT PROCEDURES

- A. Make submittals that are required by governing or other authorities.
 1. Provide copies to Architect.
- B. Notify Architect when work is considered ready for Architect's Substantial Completion inspection.
- C. Conduct Substantial Completion inspection and create Final Correction Punch List containing Architect's and Contractor's comprehensive list of items identified to be completed or corrected.
- D. Correct items of work listed in Final Correction Punch List and comply with requirements for access to Client-occupied areas.

END OF SECTION 01 7000

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**SECTION 01 7419
CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL**

PART 1 GENERAL

1.01 WASTE MANAGEMENT REQUIREMENTS

- A. Employ processes that ensure the generation of as little waste as possible due to error, poor planning, breakage, mishandling, contamination, or other factors.
- B. Minimize trash/waste disposal in landfills; reuse, salvage, or recycle as much waste as economically feasible.
- C. Contractor Reporting Responsibilities: Submit periodic Waste Disposal Reports; report landfill disposal, incineration, recycling, salvage, and reuse regardless of to whom the cost or savings accrues; use the same units of measure on required reports.
- D. Methods of trash/waste disposal that are not acceptable are:
 - 1. Burning on the project site.
 - 2. Burying on the project site.
 - 3. Dumping or burying on other property, public or private.
 - 4. Other illegal dumping or burying.
- E. Regulatory Requirements: Contractor is responsible for knowing and complying with regulatory requirements, including but not limited to Federal, state and local requirements, pertaining to legal disposal of all construction and demolition waste materials.

1.02 RELATED REQUIREMENTS

- A. Section 01 3000 - Administrative Requirements: Additional requirements for project meetings, reports, submittal procedures, and project documentation.
- B. Section 01 5000 - Temporary Facilities and Controls: Additional requirements related to trash/waste collection and removal facilities and services.
- C. Section 01 6000 - Product Requirements: Waste prevention requirements related to delivery, storage, and handling.
- D. Section 01 7000 - Execution and Closeout Requirements: Trash/waste prevention procedures related to demolition, cutting and patching, installation, protection, and cleaning.

1.03 DEFINITIONS

- A. Clean: Untreated and unpainted; not contaminated with oils, solvents, caulk, or the like.
- B. Construction and Demolition Waste: Solid wastes typically including building materials, packaging, trash, debris, and rubble resulting from construction, remodeling, repair and demolition operations.
- C. Hazardous: Exhibiting the characteristics of hazardous substances, i.e., ignitibility, corrosivity, toxicity or reactivity.
- D. Nonhazardous: Exhibiting none of the characteristics of hazardous substances, i.e., ignitibility, corrosivity, toxicity, or reactivity.
- E. Nontoxic: Neither immediately poisonous to humans nor poisonous after a long period of exposure.
- F. Recyclable: The ability of a product or material to be recovered at the end of its life cycle and remanufactured into a new product for reuse by others.
- G. Recycle: To remove a waste material from the project site to another site for remanufacture into a new product for reuse by others.

- H. Recycling: The process of sorting, cleansing, treating and reconstituting solid waste and other discarded materials for the purpose of using the altered form. Recycling does not include burning, incinerating, or thermally destroying waste.
- I. Return: To give back reusable items or unused products to vendors for credit.
- J. Reuse: To reuse a construction waste material in some manner on the project site.
- K. Salvage: To remove a waste material from the project site to another site for resale or reuse by others.
- L. Sediment: Soil and other debris that has been eroded and transported by storm or well production run-off water.
- M. Source Separation: The act of keeping different types of waste materials separate beginning from the first time they become waste.
- N. Toxic: Poisonous to humans either immediately or after a long period of exposure.
- O. Trash: Any product or material unable to be reused, returned, recycled, or salvaged.
- P. Waste: Extra material or material that has reached the end of its useful life in its intended use. Waste includes salvageable, returnable, recyclable, and reusable material.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Waste Disposal Reports: Submit at specified intervals, with details of quantities of trash and waste, means of disposal or reuse, and costs; show both totals to date and since last report.
 - 1. Submit updated Report with each Application for Progress Payment; failure to submit Report will delay payment.
 - 2. Submit Report on a form acceptable to Client.
 - 3. Landfill Disposal: Include the following information:
 - a. Identification of material.
 - b. Amount, in tons or cubic yards (cubic meters), of trash/waste material from the project disposed of in landfills.
 - c. State the identity of landfills, total amount of tipping fees paid to landfill, and total disposal cost.
 - d. Include manifests, weight tickets, receipts, and invoices as evidence of quantity and cost.
 - 4. Incinerator Disposal: Include the following information:
 - a. Identification of material.
 - b. Amount, in tons or cubic yards (cubic meters), of trash/waste material from the project delivered to incinerators.
 - c. State the identity of incinerators, total amount of fees paid to incinerator, and total disposal cost.
 - d. Include manifests, weight tickets, receipts, and invoices as evidence of quantity and cost.
 - 5. Recycled and Salvaged Materials: Include the following information for each:
 - a. Identification of material, including those retrieved by installer for use on other projects.
 - b. Amount, in tons or cubic yards (cubic meters), date removed from the project site, and receiving party.
 - c. Transportation cost, amount paid or received for the material, and the net total cost or savings of salvage or recycling each material.
 - d. Include manifests, weight tickets, receipts, and invoices as evidence of quantity and cost.
 - e. Certification by receiving party that materials will not be disposed of in landfills or by incineration.
 - 6. Material Reused on Project: Include the following information for each:
 - a. Identification of material and how it was used in the project.
 - b. Amount, in tons or cubic yards (cubic meters).
 - c. Include weight tickets as evidence of quantity.

7. Other Disposal Methods: Include information similar to that described above, as appropriate to disposal method.

PART 3 EXECUTION

2.01 WASTE MANAGEMENT PROCEDURES

- A. See Section 01 3000 for additional requirements for project meetings, reports, submittal procedures, and project documentation.
- B. See Section 01 5000 for additional requirements related to trash/waste collection and removal facilities and services.
- C. See Section 01 6000 for waste prevention requirements related to delivery, storage, and handling.
- D. See Section 01 7000 for trash/waste prevention procedures related to demolition, cutting and patching, installation, protection, and cleaning.

2.02 WASTE MANAGEMENT PLAN IMPLEMENTATION

- A. Manager: Designate an on-site person or persons responsible for instructing workers and overseeing and documenting results of the Waste Management Plan.
- B. Communication: Distribute copies of the Waste Management Plan to job site foreman, each subcontractor, Client, and Architect.
- C. Instruction: Provide on-site instruction of appropriate separation, handling, and recycling, salvage, reuse, and return methods to be used by all parties at the appropriate stages of the project.
- D. Meetings: Discuss trash/waste management goals and issues at project meetings.
 1. Prebid meeting.
 2. Preconstruction meeting.
 3. Regular job-site meetings.
- E. Facilities: Provide specific facilities for separation and storage of materials for recycling, salvage, reuse, return, and trash disposal, for use by all contractors and installers.
 1. Provide containers as required.
 2. Provide adequate space for pick-up and delivery and convenience to subcontractors.
 3. Keep recycling and trash/waste bin areas neat and clean and clearly marked in order to avoid contamination of materials.
- F. Hazardous Wastes: Separate, store, and dispose of hazardous wastes according to applicable regulations.
- G. Recycling: Separate, store, protect, and handle at the site identified recyclable waste products in order to prevent contamination of materials and to maximize recyclability of identified materials. Arrange for timely pickups from the site or deliveries to recycling facility in order to prevent contamination of recyclable materials.
- H. Reuse of Materials On-Site: Set aside, sort, and protect separated products in preparation for reuse.

END OF SECTION 01 7419

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**SECTION 01 7800
CLOSEOUT SUBMITTALS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Project record documents.
- B. Warranties and bonds.

1.02 RELATED REQUIREMENTS

- A. Section 01 3000 - Administrative Requirements: Submittals procedures, shop drawings, product data, and samples.
- B. Section 01 7000 - Execution and Closeout Requirements: Contract closeout procedures.
- C. Individual Product Sections: Warranties required for specific products or Work.

1.03 SUBMITTALS

- A. Project Record Documents: Submit documents to Architect with claim for final Application for Payment.
- B. Warranties and Bonds:
 - 1. For equipment or component parts of equipment put into service during construction with Client's permission, submit documents within 10 days after acceptance.
 - 2. Make other submittals within 10 days after Date of Substantial Completion, prior to final Application for Payment.
 - 3. For items of Work for which acceptance is delayed beyond Date of Substantial Completion, submit within 10 days after acceptance, listing the date of acceptance as the beginning of the warranty period.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PROJECT RECORD DOCUMENTS

- A. Maintain on site one set of the following record documents; record actual revisions to the Work:
 - 1. Drawings.
 - 2. Specifications.
 - 3. Addenda.
 - 4. Change Orders and other modifications to the Contract.
 - 5. Reviewed shop drawings, product data, and samples.
 - 6. Manufacturer's instruction for assembly, installation, and adjusting.
- B. Ensure entries are complete and accurate, enabling future reference by Client.
- C. Store record documents separate from documents used for construction.
- D. Record information concurrent with construction progress.
- E. Specifications: Legibly mark and record at each product section description of actual products installed, including the following:
 - 1. Manufacturer's name and product model and number.
 - 2. Product substitutions or alternates utilized.
 - 3. Changes made by Addenda and modifications.

- F. Record Drawings and Shop Drawings: Legibly mark each item to record actual construction including:
 - 1. Measured depths of foundations in relation to finish first floor datum.
 - 2. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
 - 3. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.
 - 4. Field changes of dimension and detail.
 - 5. Details not on original Contract drawings.
- G. Submit PDF electronic files of scanned record prints, specifications and product data, including addenda and contract modifications.

3.02 WARRANTIES AND BONDS

- A. Obtain warranties and bonds, executed in duplicate by responsible Subcontractors, suppliers, and manufacturers, within 10 days after completion of the applicable item of work. Except for items put into use with Client's permission, leave date of beginning of time of warranty until Date of Substantial completion is determined.
- B. Verify that documents are in proper form, contain full information, and are notarized.
- C. Co-execute submittals when required.
- D. Retain warranties and bonds until time specified for submittal.
- E. Manual: Bind in commercial quality 8-1/2 by 11 inch (216 by 279 mm) three D side ring binders with durable plastic covers.
- F. Cover: Identify each binder with typed or printed title WARRANTIES AND BONDS, with title of Project; name, address and telephone number of Contractor and equipment supplier; and name of responsible company principal.
- G. Table of Contents: Neatly typed, in the sequence of the Table of Contents of the Project Manual, with each item identified with the number and title of the specification section in which specified, and the name of product or work item.
- H. Separate each warranty or bond with index tab sheets keyed to the Table of Contents listing. Provide full information, using separate typed sheets as necessary. List Subcontractor, supplier, and manufacturer, with name, address, and telephone number of responsible principal.
- I. Provide warranties and bonds in PDF format. Assemble complete warranty and bond submittal package into a single electronic PDF file with bookmarks enabling navigation to each item. Provide bookmarked table of contents at the beginning of each document.

END OF SECTION 01 7800

**SECTION 02 4100
DEMOLITION**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Building demolition.
- B. Selective demolition of built site elements.
- C. Selective demolition of building elements for alteration purposes.

1.02 RELATED REQUIREMENTS

- A. Section 00 3100 - Available Project Information: Existing building survey conducted by Client; information about known hazardous materials.
- B. Section 01 1000 - Summary: Sequencing and staging requirements.
- C. Section 01 6000 - Product Requirements: Handling and storage of items removed for salvage and relocation.
- D. Section 01 7000 - Execution and Closeout Requirements: Project conditions; protection of bench marks, survey control points, and existing construction to remain; reinstallation of removed products; temporary bracing and shoring.
- E. Section 01 7419 - Construction Waste Management and Disposal: Limitations on disposal of removed materials; requirements for recycling.
- F. Section 31 1000 - Site Clearing: Vegetation and existing debris removal; earth stripping and stockpiling.

1.03 DEFINITIONS

- A. Demolish: Dismantle, raze, destroy, or wreck any building or structure or any part thereof.
- B. Remove: Detach or dismantle items from existing construction and dispose of them off site, unless items are indicated to be salvaged or reinstalled.
- C. Remove and Salvage: Detach or dismantle items from existing construction in a manner to prevent damage. Clean, package, label and deliver salvaged items to Client in ready-for-reuse condition.
- D. Remove and Reinstall: Detach or dismantle items from existing construction in a manner to prevent damage. Clean and prepare for reuse and reinstall where indicated.
- E. Existing to Remain: Designation for existing items that are not to be removed and that are not otherwise indicated to be salvaged or reinstalled.

1.04 REFERENCE STANDARDS

- A. 29 CFR 1926 - Safety and Health Regulations for Construction; Current Edition.
- B. NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations; 2022, with Errata (2021).

1.05 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Demolition Plan: Submit demolition plan as required by OSHA and local AHJs.
 - 1. Indicate extent of demolition, removal sequencing, bracing and shoring, and location and construction of barricades and fences.

2. Summary of safety procedures.
3. Demolition firm qualifications.
- C. Project Record Documents: Accurately record actual locations of capped and active utilities and subsurface construction.

1.06 QUALITY ASSURANCE

- A. Demolition Firm Qualifications: Company specializing in the type of work required.

PART 3 EXECUTION

2.01 DEMOLITION

- A. Remove portions of existing buildings as indicated on the drawings.
- B. Remove all paving and curbs as indicated on drawings.
- C. Remove concrete slabs on grade including footing and foundations as indicated on drawings.
- D. Remove underground utilities below slab on grade.
- E. Fill excavations, open pits, and holes in ground areas generated as result of removals, using specified fill; compact fill as specified in Section 31 2200.

2.02 GENERAL PROCEDURES AND PROJECT CONDITIONS

- A. Comply with requirements in Section 01 7000.
- B. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
 1. Obtain required permits.
 2. Comply with applicable requirements of NFPA 241.
 3. Use of explosives is not permitted.
 4. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential collapse of unstable structures.
 5. Provide, erect, and maintain temporary barriers and security devices.
 6. Use physical barriers to prevent access to areas that could be hazardous to workers or the public.
 7. Conduct operations to minimize effects on and interference with adjacent structures and occupants.
 8. Do not close or obstruct roadways or sidewalks without permits from authority having jurisdiction.
 9. Conduct operations to minimize obstruction of public and private entrances and exits. Do not obstruct required exits at any time. Protect persons using entrances and exits from removal operations.
 10. Obtain written permission from owners of adjacent properties when demolition equipment will traverse, infringe upon, or limit access to their property.
- C. Do not begin removal until receipt of notification to proceed from Client.
- D. Protect existing structures and other elements to remain in place and not removed.
 1. Provide bracing and shoring.
 2. Prevent movement or settlement of adjacent structures.
 3. Stop work immediately if adjacent structures appear to be in danger.
- E. Minimize production of dust due to demolition operations. Do not use water if that will result in ice, flooding, sedimentation of public waterways or storm sewers, or other pollution.
- F. Hazardous Materials:

1. If hazardous materials are discovered during removal operations, stop work and notify Architect and Client; hazardous materials include regulated asbestos containing materials, lead, PCBs, and mercury.
2. Hazardous Materials: Comply with 29 CFR 1926 and state and local regulations.
- G. Perform demolition in a manner that maximizes salvage and recycling of materials.
 1. Comply with requirements of Section 01 7419 - Construction Waste Management and Disposal.
 2. Dismantle existing construction and separate materials.
 3. Set aside reusable, recyclable, and salvageable materials; store and deliver to collection point or point of reuse.
- H. Partial Removal of Paving and Curbs: Neatly saw cut at right angle to surface.

2.03 EXISTING UTILITIES

- A. Coordinate work with utility companies. Notify utilities before starting work, comply with their requirements, and obtain required permits.
- B. Protect existing utilities to remain from damage.
- C. Do not disrupt public utilities without permit from authority having jurisdiction.
- D. Do not close, shut off, or disrupt existing utility branches or take-offs that are in use without at least 3 days prior written notification to Client.
- E. Locate and mark utilities to remain; mark using highly visible tags or flags, with identification of utility type; protect from damage due to subsequent construction, using substantial barricades if necessary.
- F. Remove exposed piping, valves, meters, equipment, supports, and foundations of disconnected and abandoned utilities.
- G. Prepare building demolition areas by disconnecting and capping utilities outside the demolition zone. Identify and mark, in same manner as other utilities to remain, utilities to be reconnected.

2.04 SELECTIVE DEMOLITION FOR ALTERATIONS

- A. Existing construction and utilities indicated on drawings are based on casual field observation and existing record documents only.
 1. Verify construction and utility arrangements are as indicated.
 2. Report discrepancies to Architect before disturbing existing installation.
 3. Beginning of demolition work constitutes acceptance of existing conditions that would be apparent upon examination prior to starting demolition.
- B. Remove existing work as indicated and required to accomplish new work.
 1. Remove items indicated on drawings.
- C. Services including, but not limited to, HVAC, Plumbing, Fire Protection, Electrical, and Telecommunications: Remove existing systems and equipment as indicated.
 1. Maintain existing active systems to remain in operation, and maintain access to equipment and operational components.
 2. Remove abandoned pipe, ducts, conduits, and equipment, including those above accessible ceilings. Remove back to source of supply where possible, otherwise cap stub and tag with identification.
- D. Protect existing work to remain.
 1. Prevent movement of structure. Provide shoring and bracing as required.
 2. Perform cutting to accomplish removal work neatly and as specified for cutting new work.
 3. Repair adjacent construction and finishes damaged during removal work.
 4. Patch to match new work.

2.05 DEBRIS AND WASTE REMOVAL

- A. Remove debris, junk, and trash from site.
- B. Remove materials not to be reused on site; comply with requirements of Section 01 7419 - Waste Management.

END OF SECTION 02 4100

**SECTION 04 0100
MAINTENANCE OF MASONRY**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Detergent cleaning of existing CMU surfaces.
- B. Repointing mortar joints.
- C. Repair of damaged masonry.

1.02 RELATED REQUIREMENTS

- A. Section 04 0511 - Masonry Mortaring and Grouting.

1.03 REFERENCE STANDARDS

- A. TMS 402/602 - Building Code Requirements and Specification for Masonry Structures; 2022, with Errata (2024).

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on repointing products..

1.05 FIELD CONDITIONS - MASONRY WORK

- A. Cold and Hot Weather Requirements: Comply with requirements of TMS 402/602 or applicable building code, whichever is more stringent.
- B. Maintain materials and surrounding air temperature to maximum 90 degrees F (32 degrees C) prior to, during, and 48 hours after completion of masonry work.

PART 2 PRODUCTS

2.01 CLEANING MATERIALS

- A. Cleaning Agent: Detergent type.

2.02 MORTAR MATERIALS

- A. Comply with requirements of Section 04 0511.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces to be cleaned are ready for work of this section.

3.02 PREPARATION

- A. Protect surrounding elements from damage due to restoration procedures.
- B. Carefully remove and store removable items located in areas to be restored, including fixtures, fittings, finish hardware, and accessories; reinstall upon completion.
- C. Separate areas to be protected from restoration areas using means adequate to prevent damage.

- D. Mask immediately adjacent surfaces with material that will withstand cleaning and restoration procedures.

3.03 REPOINTING

- A. Perform repointing prior to cleaning masonry surfaces.
- B. Cut out loose or disintegrated mortar in joints to minimum 1/2 inch (6 mm) depth or until sound mortar is reached.
- C. Use power tools only after test cuts determine no damage to masonry units will result.
- D. Do not damage masonry units.
- E. When cutting is complete, remove dust and loose material by brushing.
- F. Premoisten joint and apply mortar. Pack tightly in maximum 1/4 inch (6 mm) layers. Form a smooth, compact concave joint to match existing.

3.04 CLEANING EXISTING MASONRY

- A. Cleaning Detergent: Brush clean masonry surfaces with cleaning agent in accordance with the manufacturer's instructions. Saturate masonry with clean water and flush loose mortar and dirt.

3.05 CLEANING

- A. Immediately remove stains, efflorescence, or other excess resulting from the work of this section.
- B. Remove excess mortar, smears, and droppings as work proceeds and upon completion.
- C. Clean surrounding surfaces.

END OF SECTION 04 0100

**SECTION 04 0511
MASONRY MORTARING AND GROUTING**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Mortar for masonry.

1.02 RELATED REQUIREMENTS

- A. Section 04 0100 - Maintenance of Masonry: Bedding and pointing mortar for masonry restoration work.

1.03 REFERENCE STANDARDS

- A. ASTM C5 - Standard Specification for Quicklime for Structural Purposes; 2024.
- B. ASTM C91/C91M - Standard Specification for Masonry Cement; 2025.
- C. ASTM C144 - Standard Specification for Aggregate for Masonry Mortar; 2025.
- D. ASTM C207 - Standard Specification for Hydrated Lime for Masonry Purposes; 2024.
- E. ASTM C270 - Standard Specification for Mortar for Unit Masonry; 2025b.
- F. ASTM C780 - Standard Test Methods for Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry; 2025a.
- G. ASTM C1714/C1714M - Standard Specification for Preblended Dry Mortar Mix for Unit Masonry; 2025.
- H. TMS 402/602 - Building Code Requirements and Specification for Masonry Structures; 2022, with Errata (2024).

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Include design mix and indicate whether the Proportion or Property specification of ASTM C270 is to be used. Also include required environmental conditions and admixture limitations.
- C. Reports: Submit reports on mortar indicating compliance of mortar to property requirements of ASTM C270 and test and evaluation reports per ASTM C780.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Maintain packaged materials clean, dry, and protected against dampness, freezing, and foreign matter.

1.06 FIELD CONDITIONS

- A. Cold and Hot Weather Requirements: Comply with requirements of TMS 402/602 or applicable building code, whichever is more stringent.

PART 2 PRODUCTS

2.01 MORTAR AND GROUT APPLICATIONS

- A. At Contractor's option, mortar and grout may be field-mixed from packaged dry materials, made from factory premixed dry materials with addition of water only, or ready-mixed.

- B. Mortar Color: Natural gray unless otherwise indicated.
- C. Mortar Mix Designs: ASTM C270, Property Specification.
 - 1. Exterior Repointing Mortar: Type N with maximum 2 percent ammonium stearate or calcium stearate per cement weight.

2.02 MATERIALS

- A. Packaged Dry Material for Mortar for Unit Masonry: Premixed Portland cement, hydrated lime, and sand; complying with ASTM C1714/C1714M and capable of producing mortar of the specified strength in accordance with ASTM C270 with the addition of water only.
 - 1. Color: Standard gray.
- B. Portland Cement: ASTM C150/C150M.
 - 1. Type: Type I - Normal; ASTM C150/C150M.
 - 2. Color: Standard gray.
- C. Masonry Cement: ASTM C91/C91M.
 - 1. Type: Type N; ASTM C91/C91M.
- D. Hydrated Lime: ASTM C207, Type S.
- E. Quicklime: ASTM C5, non-hydraulic type.
- F. Mortar Aggregate: ASTM C144.
- G. Water: Clean and potable.
- H. Bonding Agent: Latex type.

2.03 MORTAR MIXING

- A. Thoroughly mix mortar ingredients using mechanical batch mixer, in accordance with ASTM C270 and in quantities needed for immediate use.
- B. Maintain sand uniformly damp immediately before the mixing process.
- C. Do not use anti-freeze compounds to lower the freezing point of mortar.
- D. If water is lost by evaporation, re-temper only within two hours of mixing.

PART 3 EXECUTION

3.01 PREPARATION

- A. Apply bonding agent to existing concrete surfaces.

3.02 INSTALLATION

- A. Install mortar to requirements of section(s) in which masonry work is specified.

END OF SECTION 04 0511

**SECTION 06 1000
ROUGH CARPENTRY**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Roofing nailers.
- B. Preservative treated wood materials.
- C. Fire retardant treated wood materials.

1.02 RELATED REQUIREMENTS

- A. Section 07 6200 - Sheet Metal Flashing and Trim: Sill flashings.

1.03 REFERENCE STANDARDS

- A. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2023.
- B. AWWA U1 - Use Category System: User Specification for Treated Wood; 2023.
- C. PS 2 - Performance Standard for Wood Structural Panels; 2018.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide technical data on wood preservative materials.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. General: Cover wood products to protect against moisture. Support stacked products to prevent deformation and to allow air circulation.

PART 2 PRODUCTS

2.01 CONSTRUCTION PANELS

- A. Roofing Nailers & Sheathing: PS 2 type, rated Structural I Sheathing.
 - 1. Bond Classification: Exposure 1.
 - 2. Fire Retardant Treated.
 - 3. Pressure Treated

2.02 ACCESSORIES

- A. Fasteners and Anchors:
 - 1. Metal and Finish: Hot-dipped galvanized steel complying with ASTM A153/A153M for high humidity and preservative-treated wood locations, unfinished steel elsewhere.
 - 2. Anchors: Toggle bolt type for anchorage to hollow masonry.

2.03 FACTORY WOOD TREATMENT

- A. Treated Lumber and Plywood: Comply with requirements of AWWA U1 - Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.
 - 1. Fire-Retardant Treated Wood: Mark each piece of wood with producer's stamp indicating compliance with specified requirements.

2. Preservative-Treated Wood: Provide lumber and plywood marked or stamped by an ALSC-accredited testing agency, certifying level and type of treatment in accordance with AWPA standards.
- B. Preservative Treatment:
 1. Preservative Pressure Treatment of Plywood Above Grade: AWPA U1, Use Category UC2 and UC3B, Commodity Specification F using waterborne preservative.
 - a. Kiln dry plywood after treatment to maximum moisture content of 19 percent.

PART 3 EXECUTION

3.01 INSTALLATION - GENERAL

- A. Select material sizes to minimize waste.
- B. Reuse scrap to the greatest extent possible; clearly separate scrap for use on site as accessory components, including: shims, bracing, and blocking.
- C. Where treated wood is used on interior, provide temporary ventilation during and immediately after installation sufficient to remove indoor air contaminants.

END OF SECTION 06 1000

**SECTION 07 2400
EXTERIOR INSULATION AND FINISH SYSTEMS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Composite wall and soffit cladding of rigid insulation and reinforced finish coating, Class PB.
- B. Drainage and water-resistive barriers behind insulation board.

1.02 RELATED REQUIREMENTS

- A. Section 07 9200 - Joint Sealants: Sealing joints between EIFS and adjacent construction and penetrations through EIFS.

1.03 REFERENCE STANDARDS

- A. ASTM B117 - Standard Practice for Operating Salt Spray (Fog) Apparatus; 2019.
- B. ASTM C177 - Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus; 2019, with Editorial Revision (2023).
- C. ASTM C297/C297M - Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions; 2016 (Reapproved 2024).
- D. ASTM C578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation; 2023.
- E. ASTM C1397 - Standard Practice for Application of Class PB Exterior Insulation and Finish Systems (EIFS) and EIFS with Drainage; 2025.
- F. ASTM D968 - Standard Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive; 2025.
- G. ASTM D2247 - Standard Practice for Testing Water Resistance of Coatings in 100 % Relative Humidity; 2015 (Reapproved 2020).
- H. ASTM D3273 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber; 2021.
- I. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023d.
- J. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference; 2000 (Reapproved 2023).
- K. ASTM E2273 - Standard Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Wall Assemblies; 2018.
- L. ASTM G153 - Standard Practice for Operating Enclosed Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials; 2013 (Reapproved 2021).
- M. ASTM G155 - Standard Practice for Operating Xenon Arc Lamp Apparatus for Exposure of Materials; 2021.
- N. ICC-ES AC219 - Acceptance Criteria for Exterior Insulation and Finish Systems; 2009, with Editorial Revision (2022).
- O. ICC-ES AC235 - Acceptance Criteria for EIFS Clad Drainage Wall Assemblies; 2015, with Editorial Revision (2022).
- P. NFPA 259 - Standard Test Method for Potential Heat of Building Materials; 2023, with Errata.

- Q. NFPA 268 - Standard Test Method for Determining Ignitability of Exterior Wall Assemblies Using a Radiant Heat Energy Source; 2022.
- R. NFPA 285 - Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components; 2023.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide data on system materials, product characteristics, performance criteria, and system limitations.
- C. Shop Drawings: Indicate wall and soffit joint patterns, joint details, and molding profiles.
- D. Selection Samples: Submit manufacturer's standard range of samples illustrating available coating colors and textures.
- E. Manufacturer's Installation Instructions: Indicate preparation required, installation techniques, and jointing requirements.
- F. Installer's qualification statement.

1.05 QUALITY ASSURANCE

- A. Maintain copy of specified installation standard and manufacturer's installation instructions at project site during installation.
- B. Installer Qualifications: Company specializing in the type of work specified and with at least three years of documented experience.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to project site in manufacturer's original, unopened containers with labels intact. Inspect materials and notify manufacturer of any discrepancies.
- B. Storage: Store materials as directed by manufacturer's written instructions.

1.07 FIELD CONDITIONS

- A. Do not prepare materials or apply EIFS under conditions other than those described in the manufacturer's written instructions.
- B. Do not prepare materials or apply EIFS during inclement weather unless areas of installation are protected. Protect installed EIFS areas from inclement weather until dry.
- C. Do not install coatings or sealants when ambient temperature is below 40 degrees F (5 degrees C).
- D. Do not leave installed insulation board exposed to sunlight for extended periods of time.

1.08 WARRANTY

- A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.
- B. Provide manufacturer's standard material warranty, covering a period of not less than 5 years.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Basis of Design:
 - 1. Dryvit Systems, Inc; Dryvit Outsulation MD EIFS, Class PB with Engineered Moisture Drainage: www.dryvit.com/#sle.
- B. Other Acceptable Exterior Insulation and Finish Systems Manufacturers:

1. Master Wall, Inc; Aggre-flex Drainage System - Class PB Drainage EIFS:
www.masterwall.com/#sle.
2. Sika Corporation; Parex Standard WaterMaster EIFS with Moisture Drainage:
www.usa.sika.com/en/construction/eifs-stucco.html/#sle.
3. Sto Corp; StoTherm ci: www.stocorp.com/#sle.
4. Substitutions: See Section 01 6000 - Product Requirements.

2.02 EXTERIOR INSULATION AND FINISH SYSTEM

- A. Exterior Insulation and Finish System: DRAINAGE type; reinforced finish coating on flat-backed insulation board adhesive-applied directly to water-resistive coating over substrate; provide a complete system that has been tested to show compliance with the following characteristics; include all components of specified system and substrate(s) in tested samples.
- B. Fire Characteristics:
 1. Flammability: Pass, when tested in accordance with NFPA 285.
 2. Ignitibility: No sustained flaming when tested in accordance with NFPA 268.
 3. Potential Heat of Foam Plastic Insulation Tested Independently of Assembly: No portion of the assembly having potential heat that exceeds that of the insulation sample tested for flammability (above), when tested in accordance with NFPA 259 with results expressed in Btu per square foot (mJ/sq m).
- C. Adhesion of Water-Resistive Coating to Substrate: For each combination of coating and substrate, minimum flatwise tensile bond strength of 15 psi (105 kPa), when tested in accordance with ASTM C297/C297M.
- D. Adhesion to Water-Resistive Coating: For each combination of insulation board and substrate, when tested in accordance with ASTM C297/C297M, maximum adhesive failure of 25 percent unless flatwise tensile bond strength exceeds 15 psi (105 kPa) in all samples.
- E. Water Penetration Resistance: No water penetration beyond the plane of the base coat/insulation board interface after 15 minutes, when tested in accordance with ASTM E331 at 6.24 psf (299 Pa) differential pressure with tracer dye in the water spray; include in tested sample at least two vertical joints and one horizontal joint of same type to be used in construction; disassemble sample if necessary to determine extent of water penetration.
- F. Drainage Efficiency: Average minimum efficiency of 90 percent, when tested in accordance with ASTM E2273 for 75 minutes.
- G. Salt Spray Resistance: No cracking, checking, crazing, erosion, blistering, peeling, delamination, or corrosion of finish coating after 300 hours exposure in accordance with ASTM B117, using at least three samples matching intended assembly, at least 4 by 6 inches (100 by 150 mm) in size.
- H. Freeze-Thaw Resistance: No cracking, checking, crazing, erosion, blistering, peeling, delamination, or corrosion of finish coating when viewed under 5x magnification after 10 cycles, when tested in accordance with ICC-ES AC219 or ICC-ES AC235.
- I. Weathering Resistance: No cracking, checking, crazing, erosion, blistering, peeling, delamination, or corrosion of finish coating when viewed under 5x magnification after 2000 hours of accelerated weathering conducted in accordance with ASTM G153 Cycle 1 or ASTM G155 Cycles 1, 5, or 9.
- J. Water Degradation Resistance: No cracking, checking, crazing, erosion, blistering, peeling, delamination, or corrosion of finish coating after 14 days exposure, when tested in accordance with ASTM D2247.
- K. Mildew Resistance: No growth supported on finish coating during 28 day exposure period, when tested in accordance with ASTM D3273.
- L. Abrasion Resistance Of Finish: No cracking, checking or loss of film integrity when tested in accordance with ASTM D968 with 113.5 gallons (500 liters) of sand.

2.03 MATERIALS

- A. Finish Coating Top Coat: Water-based, air curing, acrylic or polymer-based finish with integral color and texture.
 - 1. Texture: Fine.
 - 2. Color: As selected by Architect from manufacturer's standard range.
- B. Base Coat: Fiber-reinforced, acrylic or polymer-based product compatible with insulation board and reinforcing mesh, Class PB.
- C. Expanded Polystyrene (EPS) Board Insulation: Complies with ASTM C578.
 - 1. Grooved Board: Back side of board adjacent to substrate grooved with vertical channels designed to allow moisture to drain; at drainage points provide board configuration that permits drainage to the exterior.
 - 2. Board Size: 24 by 48 inches (610 by 1220 mm).
 - 3. Board Size Tolerance: Plus/minus 1/16 inch (1.5 mm) from square and dimension.
 - 4. Board Thickness: As indicated on drawings.
 - 5. Board Edges: Square.
 - 6. Type and Thermal Resistance, R-value (RSI-value): Type XI, 3.1 (0.55) per 1 inch (25.4 mm) thickness at 75 degrees F (24 degrees C) mean temperature using ASTM C177 test method.
 - 7. Type and Board Density: Type XI, 0.70 pcf (12 kg/cu m), minimum.
 - 8. Type and Compressive Resistance: Type XI, 5 psi (35 kPa), minimum.
 - 9. Surface Burning Characteristics: Flame spread/Smoke developed index of 25/450, when tested in accordance with ASTM E84.
- D. Water-Resistive Barrier Coating: Fluid-applied air and water barrier membrane; applied to substrate; furnished or approved by EIFS manufacturer.

2.04 ACCESSORIES

- A. Insulation Adhesive: Type required by EIFS manufacturer for project substrate.
- B. Metal Flashings: Pre-Finished Aluminum: ASTM B209/B209M, 3005 alloy, H12 or H14 temper; 18 gauge, 0.040 inch (1.02 mm) thick; plain finish shop pre-coated with silicone modified polyester coating.
 - 1. Fluoropolymer Coating: High performance organic powder coating, AAMA 2604; multiple coat, thermally cured fluoropolymer finish system.
 - 2. Color: As selected by Architect from manufacturer's standard colors.
- C. Trim: EIFS manufacturer's standard PVC or galvanized steel trim accessories, as required for a complete project and including starter track and drainage accessories.
- D. Sealant Materials: Compatible with EIFS materials and as recommended by EIFS manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that substrate is sound and free of oil, dirt, other surface contaminants, efflorescence, loose materials, or protrusions that could interfere with EIFS installation and is of a type and construction that is acceptable to EIFS manufacturer. Do not begin work until substrate and adjacent materials are complete and thoroughly dry.
- B. Verify that substrate surface is flat, with no deviation greater than 1/4 in (6 mm) when tested with a 10 ft (3 m) straightedge.

3.02 PREPARATION

- A. Apply primer to substrate as recommended by EIFS manufacturer for project conditions.

3.03 INSTALLATION - GENERAL

- A. Install in accordance with EIFS manufacturer's instructions and ASTM C1397.
 - 1. Where different requirements appear in either document, comply with the most stringent.
 - 2. Neither of these documents supercedes provisions of Contract Documents that defines contractual relationships between parties or scope of this work.

3.04 INSTALLATION - INSULATION

- A. Install in accordance with manufacturer's instructions.
- B. Prior to installation of boards, install starter track and other trim level and plumb and securely fastened. Install only in full lengths, to minimize moisture intrusion; cut horizontal trim tight to vertical trim.
- C. Install back wrap reinforcing mesh at all openings and terminations that are not to be protected with trim.
- D. On wall surfaces, install boards horizontally. On horizontal surfaces, install boards parallel to wall .
- E. Place boards in a method to maximize tight joints. Stagger vertical joints and interlock at corners. Butt edges and ends tight to adjacent board and to protrusions. Achieve a continuous flush insulation surface, with no gaps in excess of 1/16 inch (1.6 mm).
- F. Fill gaps greater than 1/16 inch (1.6 mm) with strips or shims cut from the same insulation material.
- G. Rasp irregularities off surface of installed insulation board.

3.05 INSTALLATION - CLASS PB FINISH

- A. Base Coat: Apply in thickness as necessary to fully embed reinforcing mesh, wrinkle free, including back-wrap at terminations of EIFS. Install reinforcing fabric as recommended by EIFS manufacturer.
 - 1. Lap reinforcing mesh edges and ends a minimum of 2-1/2 inches (64 mm).
 - 2. Allow base coat to dry a minimum of 24 hours before next coating application.
- B. Apply finish coat after base coat has dried not less than 24 hours, embed finish aggregate, and finish to a uniform texture and color.
- C. Finish Coat Thickness: As recommended by manufacturer.
- D. Seal control and expansion joints within the field of exterior finish and insulation system, using procedures recommended by sealant and finish system manufacturers.

3.06 CLEANING

- A. See Section 01 7000 - Execution and Closeout Requirements for additional requirements.
- B. Clean EIFS surfaces and work areas of foreign materials resulting from EIFS operations.

3.07 PROTECTION

- A. Protect completed work from damage and soiling by subsequent work.

END OF SECTION 07 2400

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**SECTION 07 7100
ROOF SPECIALTIES**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Manufactured roof specialties, including copings.

1.02 REFERENCE STANDARDS

- A. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2022.
- B. ANSI/SPRI/FM 4435/ES-1 - Test Standard for Edge Systems Used with Low Slope Roofing Systems; 2022.
- C. ASTM D4586/D4586M - Standard Specification for Asphalt Roof Cement, Asbestos-Free; 2007 (Reapproved 2018).
- D. NRCA (RM) - The NRCA Roofing Manual; 2026.

1.03 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide data on shape of components, materials and finishes, anchor types and locations.
- C. Shop Drawings: Indicate configuration and dimension of components, adjacent construction, required clearances and tolerances, and other affected work.
- D. Samples: Submit two , illustrating component finish, and color.
- E. Manufacturer's Installation Instructions: Indicate special procedures, fasteners, supporting members, and perimeter conditions requiring special attention.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Roof Edge Flashings and Copings:
 - 1. ATAS International, Inc: www.atas.com/#sle.
 - 2. Hickman Edge Systems: www.hickmanedgesystems.com/#sle.
 - 3. Metal-Era Inc: www.metalera.com/#sle.
 - 4. Substitutions: See Section 01 6000 - Product Requirements.

2.02 COMPONENTS

- A. Copings: Factory fabricated to sizes required; corners mitered; concealed fasteners.
 - 1. Configuration: Concealed continuous hold down cleat at both legs; internal splice piece at joints of same material, thickness, and finish as cap; concealed stainless steel fasteners.
 - 2. Pull-Off Resistance: Tested in accordance with ANSI/SPRI/FM 4435/ES-1 using test method RE-3 to positive and negative design wind pressure as defined by applicable local building code.
 - 3. Wall Width: As indicated on drawings.
 - 4. Outside Face Height: As indicated on drawings.
 - 5. Material: Formed aluminum sheet, 0.040 inch (1.01 mm) thick, minimum.
 - 6. Finish: 70 percent polyvinylidene fluoride.

7. Color: As selected by Architect from manufacturer's standard range.

2.03 FINISHES

- A. PVDF (Polyvinylidene Fluoride) Coating: Superior Performance Organic Finish, AAMA 2605; multiple coat, thermally cured fluoropolymer finish system; color as indicated.

2.04 ACCESSORIES

- A. Sealant for Joints in Linear Components: As recommended by component manufacturer.
B. Asphalt Roof Cement: ASTM D4586/D4586M, Type I, asbestos-free.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that deck, curbs, roof membrane, base flashing, and other items affecting work of this Section are in place and positioned correctly.

3.02 INSTALLATION

- A. Install components in accordance with manufacturer's instructions and NRCA (RM) applicable requirements.
B. Seal joints within components when required by component manufacturer.
C. Anchor components securely.
D. Coordinate installation of components of this section with installation of roofing membrane and base flashings.
E. Coordinate installation of sealants and roofing cement with work of this section to ensure water tightness.

END OF SECTION 07 7100

**SECTION 07 9200
JOINT SEALANTS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Nonsag gunnable joint sealants.
- B. Joint backings and accessories.

1.02 REFERENCE STANDARDS

- A. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2018.
- B. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2016 (Reapproved 2023).
- C. ASTM C1248 - Standard Test Method for Staining of Porous Substrate by Joint Sealants; 2022.

1.03 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Product Data: Submit manufacturer's technical datasheets for each product to be used; include the following:
 - 1. Physical characteristics, including movement capability, VOC content, hardness, cure time, and color availability.
 - 2. List of backing materials approved for use with the specific product.
 - 3. Backing material recommended by sealant manufacturer.
 - 4. Substrates that product is known to satisfactorily adhere to and with which it is compatible.
 - 5. Substrates the product should not be used on.
 - 6. Substrates for which use of primer is required.
 - 7. Installation instructions, including precautions, limitations, and recommended backing materials and tools.
 - 8. Sample product warranty.
 - 9. Certification by manufacturer indicating that product complies with specification requirements.
- C. Product Data for Accessory Products: Submit manufacturer's technical data sheet for each product to be used, including physical characteristics, installation instructions, and recommended tools.
- D. Color Cards for Selection: Where sealant color is not specified, submit manufacturer's color cards showing standard colors available for selection.
- E. Executed warranty.

1.04 QUALITY ASSURANCE

- A. Maintain one copy of each referenced document covering installation requirements on site.
- B. Installer Qualifications: Company specializing in performing the work of this section and with at least three years of documented experience.

1.05 WARRANTY

- A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.
- B. Manufacturer Warranty: Provide 2-year manufacturer warranty for installed sealants and accessories that fail to achieve a watertight seal, exhibit loss of adhesion or cohesion, or do not cure. Complete forms in Client's name and register with manufacturer.

- C. Extended Correction Period: Correct defective work within 2-year period commencing on Date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Nonsag Sealants:
1. Bostik Inc: www.bostik-us.com/#sle.
 2. Dow: www.dow.com/#sle.
 3. Pecora Corporation: www.pecora.com/#sle.
 4. Sika Corporation: www.usa.sika.com/#sle.
 5. Tremco Commercial Sealants & Waterproofing: www.tremcosealants.com/#sle.
 6. W. R. Meadows, Inc: www.wrmeadows.com/#sle.
 7. Substitutions: See Section 01 6000 - Product Requirements.

2.02 JOINT SEALANT APPLICATIONS

- A. Scope:
1. Exterior Joints:
 - a. Seal the following joints:
 - 1) Wall expansion and control joints.
 - 2) Joints between doors, windows, and other frames or adjacent construction.
 - 3) Joints between different exposed materials. (Horizontal and vertical joints)
- B. Exterior Joints: Use nonsag nonstaining silicone sealant, unless otherwise indicated.
1. Control and Expansion Joints in Concrete Paving: Self-leveling polyurethane traffic-grade sealant.

2.03 JOINT SEALANTS - GENERAL

- A. Colors: As selected by Architect from manufacturer's standard colors.

2.04 NONSAG JOINT SEALANTS

- A. Nonstaining Silicone Sealant: ASTM C920, Grade NS, Uses M and A; not expected to withstand continuous water immersion or traffic.
1. Movement Capability: Plus and minus 50 percent, minimum.
 2. Nonstaining to Porous Stone: Nonstaining to light-colored natural stone when tested in accordance with ASTM C1248.
 3. Dirt Pick-Up: Reduced dirt pick-up compared to other silicone sealants.
 4. Products:
 - a. Pecora Corporation: www.pecora.com/#sle.
 - b. Sika Corporation: www.usa.sika.com/#sle.
 - c. Tremco Commercial Sealants & Waterproofing; Spectrem 3: (Basis of Design) www.tremcosealants.com/#sle.

2.05 ACCESSORIES

- A. Sealant Backing Materials, General: Materials placed in joint before applying sealants; assists sealant performance and service life by developing optimum sealant profile and preventing three-sided adhesion; type and size recommended by sealant manufacturer for compatibility with sealant, substrate, and application.
- B. Joint Cleaner: Noncorrosive and nonstaining type, type recommended by sealant manufacturer; compatible with joint forming materials.
- C. Primers: Type recommended by sealant manufacturer to suit application; nonstaining.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that joints are ready to receive work.
- B. Verify that backing materials are compatible with sealants.
- C. Verify that backer rods are of the correct size.

3.02 PREPARATION

- A. Remove loose materials and foreign matter that could impair adhesion of sealant.
- B. Clean joints, and prime as necessary, in accordance with manufacturer's instructions.
- C. Perform preparation in accordance with manufacturer's instructions and ASTM C1193.
- D. Mask elements and surfaces adjacent to joints from damage and disfigurement due to sealant work; be aware that sealant drips and smears may not be completely removable.

3.03 INSTALLATION

- A. Install this work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.
- B. Provide joint sealant installations complying with ASTM C1193.
- C. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated.
- D. Install bond breaker backing tape where backer rod cannot be used.
- E. Install sealant free of air pockets, foreign embedded matter, ridges, and sags, and without getting sealant on adjacent surfaces.
- F. Do not install sealant when ambient temperature is outside manufacturer's recommended temperature range, or will be outside that range during the entire curing period, unless manufacturer's approval is obtained and instructions are followed.
- G. Nonsag Sealants: Tool surface concave, unless otherwise indicated; remove masking tape immediately after tooling sealant surface.

END OF SECTION 07 9200

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**SECTION 09 9113
EXTERIOR PAINTING**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Surface preparation.
- B. Field application of paints.
- C. Scope: Finish exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:
- D. Do Not Paint or Finish the Following Items:
 - 1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
 - 2. Items indicated to receive other finishes.
 - 3. Items indicated to remain unfinished.
 - 4. Glass.

1.02 REFERENCE STANDARDS

- A. 40 CFR 59, Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings; U.S. Environmental Protection Agency; Current Edition.
- B. ASTM D4258 - Standard Practice for Surface Cleaning Concrete for Coating; 2023.
- C. ASTM D4259 - Standard Practice for Preparation of Concrete by Abrasion Prior to Coating Application; 2024.
- D. MPI (APSM) - Master Painters Institute Architectural Painting Specification Manual; Current Edition.
- E. SSPC-SP 1 - Solvent Cleaning; 2015, with Editorial Revision (2016).

1.03 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide complete list of products to be used, with the following information for each:
 - 1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
 - 2. MPI product number (e.g. MPI #47).
 - 3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.
- C. Manufacturer's Instructions: Indicate special surface preparation procedures.
- D. Maintenance Data: Submit data including finish schedule showing where each product/color/finish was used, product technical data sheets, material safety data sheets (MSDS), care and cleaning instructions, touch-up procedures, repair of painted and finished surfaces, and color samples of each color and finish used.
- E. Maintenance Materials: Furnish the following for Client's use in maintenance of project.
 - 1. See Section 01 6000 - Product Requirements, for additional provisions.
 - 2. Extra Paint and Finish Materials: 1 gallon (4 L) of each color; from the same product run, store where directed.
 - 3. Label each container with color in addition to the manufacturer's label.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.

- B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
- C. Paint Materials: Store at minimum ambient temperature of 45 degrees F (7 degrees C) and a maximum of 90 degrees F (32 degrees C), in ventilated area, and as required by manufacturer's instructions.

1.05 FIELD CONDITIONS

- A. Do not apply materials when surface and ambient temperatures are outside the paint product manufacturer's temperature ranges.
- B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
- C. Do not apply exterior paint and finishes during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.
- D. Minimum Application Temperatures for Latex Paints: 50 degrees F (10 degrees C) for exterior; unless required otherwise by manufacturer's instructions.
- E. Provide lighting level of 80 ft candles (860 lx) measured mid-height at substrate surface.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Provide paints and finishes used in any individual system from the same manufacturer; no exceptions.
- B. Paints:
 - 1. Subject to compliance with requirements, provide products by the following.
 - 2. Behr Paint Company: www.behr.com.
 - 3. Sherwin-Williams Company: www.sherwin-williams.com. (Basis of Design)
 - 4. Benjamin Moore: www.benjaminmoore.com.
- C. Primer Sealers: Same manufacturer as top coats.
- D. Substitutions: See Section 01 6000 - Product Requirements.

2.02 PAINTS AND FINISHES - GENERAL

- A. Paints and Finishes: Ready-mixed, unless required to be a field-catalyzed paint.
 - 1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
 - 2. Supply each paint material in quantity required to complete entire project's work from a single production run.
 - 3. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is described explicitly in manufacturer's product instructions.
- B. Volatile Organic Compound (VOC) Content:
 - 1. Provide paints and finishes that comply with the most stringent requirements specified in the following:
 - a. 40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings.
 - 2. Determination of VOC Content: Testing and calculation in accordance with 40 CFR 59, Subpart D (EPA Method 24), exclusive of colorants added to a tint base and water added at project site; or other method acceptable to authorities having jurisdiction.

- C. Sheens: Provide the sheens specified; where sheen is not specified, sheen will be selected later by Architect from the manufacturer's full line.
- D. Colors: .

2.03 PAINT SYSTEMS - EXTERIOR

- A. Exterior Surfaces to be Painted, Unless Otherwise Indicated: Including concrete masonry units and galvanized steel.
 - 1. Two top coats and one coat primer.
 - 2. Top Coat(s): Exterior Light Industrial Coating, Water Based; MPI #161, 163, or 164.
 - a. Products:
 - 1) Sherwin-Williams Pro Industrial DTM Acrylic, Semi-Gloss. (MPI #163)

2.04 PRIMERS

- A. Primers: Provide the following unless other primer is required or recommended by manufacturer of top coats.
 - 1. Alkali-Resistant Water-Based Primer; MPI #3.
 - a. Products:
 - 1) Sherwin-Williams Loxon Concrete and Masonry Primer Sealer, LX02W50. (MPI #3)

2.05 ACCESSORY MATERIALS

- A. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of painted surfaces.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces are ready to receive work as instructed by the product manufacturer.
- B. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.
- C. Test shop-applied primer for compatibility with subsequent cover materials.

3.02 PREPARATION

- A. Clean surfaces thoroughly and correct defects prior to application.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Masonry:
 - 1. Prepare surface as recommended by top coat manufacturer.
 - 2. Clean surfaces with pressurized water. Use pressure range of 600 to 1,500 psi (4,140 to 10,350 kPa) at 6 to 12 inches (150 to 300 mm). Allow to dry.
- D. Galvanized Surfaces:
 - 1. Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.

3.03 APPLICATION

- A. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".
- B. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- C. Apply each coat to uniform appearance.

3.04 PROTECTION

- A. Protect finishes until completion of project.
- B. Touch-up damaged finishes after Substantial Completion.

END OF SECTION 09 9113

SECTION 31 10 00

SITE CLEARING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Protecting existing trees, shrubs, groundcovers, plants, and grass, to remain.
 - 2. Removing existing trees, shrubs, groundcovers, plants, and grass as indicated on drawings.
 - 3. Clearing and grubbing.
 - 4. Removing above- and below-grade site improvements.
 - 5. Disconnecting, capping or sealing, and removing site utilities.
 - 6. Temporary erosion and sedimentation control measures.
- B. Related Sections include the following:
 - 1. Division 31 Section "Earth Moving" for soil materials, excavating, backfilling, and site grading.

1.3 DEFINITIONS

- A. Tree Protection Zone: Area surrounding individual trees or groups of trees to be protected during construction, and defined by the drip line of individual trees or the perimeter drip line of groups of trees, unless otherwise indicated.

1.4 QUALITY ASSURANCE

- A. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination."

1.5 PROJECT CONDITIONS

- A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations.
 - 1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
 - 2. Provide alternate routes around closed or obstructed traffic ways if required by authorities having jurisdiction.

- B. Salvable Improvements: Carefully remove items indicated to be salvaged and store on Owner's premises where indicated.
- C. Utility Locator Service: Notify utility locator service for area where Project is located before site clearing.
- D. Do not commence site clearing operations until temporary erosion and sedimentation control measures are in place.

PART 2 - PRODUCTS

2.1 SOIL MATERIALS

- A. Satisfactory Soil Materials: Requirements for satisfactory soil materials are specified in Division 31 Section "Earth Moving."
 - 1. Obtain approved borrow soil materials off-site when satisfactory soil materials are not available on-site.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Protect and maintain benchmarks and survey control points from disturbance during construction.
- B. Locate and clearly flag trees and vegetation to remain or to be relocated.
- C. Protect existing site improvements to remain from damage during construction.
 - 1. Restore damaged improvements to their original condition, as acceptable to Owner.

3.2 TEMPORARY EROSION AND SEDIMENTATION CONTROL

- A. Provide temporary erosion and sedimentation control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to requirements of authorities having jurisdiction and in accordance with sediment and erosion control Drawings.
- B. Inspect, repair, and maintain erosion and sedimentation control measures during construction until permanent vegetation has been established.
- C. Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.

3.3 TREE PROTECTION

- A. Erect and maintain temporary fencing around tree protection zones before starting site clearing. Remove fence when construction is complete.
 - 1. Do not store construction materials, debris, or excavated material within fenced area.

2. Do not permit vehicles, equipment, or foot traffic within fenced area.
3. Maintain fenced area free of weeds and trash.

B. Do not excavate within tree protection zones, unless otherwise indicated.

C. Repair or replace trees and vegetation indicated to remain that are damaged by construction operations, in a manner approved by Architect.

3.4 UTILITIES

A. Locate, identify, disconnect, and seal or cap off utilities indicated to be removed.

1. Arrange with utility companies to shut off indicated utilities.

B. Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:

1. Notify Construction Manager not less than two days in advance of proposed utility interruptions.
2. Do not proceed with utility interruptions without Construction Manager's written permission.

C. Excavate for and remove underground utilities indicated to be removed.

3.5 CLEARING AND GRUBBING

A. Remove obstructions, trees, shrubs, grass, and other vegetation to permit installation of new construction.

1. Do not remove trees, shrubs, and other vegetation indicated to remain or to be relocated.
2. Cut minor roots and branches of trees indicated to remain in a clean and careful manner where such roots and branches obstruct installation of new construction.
3. Grind stumps and remove roots, obstructions, and debris extending to a depth of 18 inches below exposed subgrade.
4. Use only hand methods for grubbing within tree protection zone.
5. Chip removed tree branches and dispose of off-site.

B. Fill depressions caused by clearing and grubbing operations with satisfactory soil material unless further excavation or earthwork is indicated.

1. Place fill material in horizontal layers not exceeding a loose depth of 8 inches, and compact each layer to a density equal to adjacent original ground.

3.6 SITE IMPROVEMENTS

A. Remove existing above- and below-grade improvements as indicated and as necessary to facilitate new construction.

B. Remove slabs, paving, curbs, gutters, and aggregate base as indicated.

1. Unless existing full-depth joints coincide with line of demolition, neatly saw-cut length of existing pavement to remain before removing existing pavement. Saw-cut faces vertically.
2. Paint cut ends of steel reinforcement in concrete to remain to prevent corrosion.

3.7 DISPOSAL

- A. Disposal: Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste materials including trash and debris, and legally dispose of them off Owner's property.

END OF SECTION 31 10 00

SECTION 31 20 00

EARTH MOVING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Preparing subgrades for slabs-on-grade, walks, pavements, lawns and grasses, and exterior plants.
 - 2. Excavating and backfilling for buildings and structures.
 - 3. Drainage course for slabs-on-grade.
 - 4. Subbase course for concrete walks and pavements.
- B. Related Sections include the following:
 - 1. Division 31 Section "Site Clearing" for temporary erosion and sedimentation control measures, site stripping, grubbing, stripping and stockpiling topsoil, and removal of above- and below-grade improvements and utilities.
 - 2. Division 32 Section "Turf and Grasses" for finish grading, including preparing and placing topsoil and planting soil for lawns.
 - 3. Division 32 Section "Plants" for planting bed establishment and tree and shrub pit excavation and planting.

1.3 DEFINITIONS

- A. Backfill: Soil material or controlled low-strength material used to fill an excavation.
 - 1. Initial Backfill: Backfill placed beside and over pipe in a trench, including haunches to support sides of pipe.
 - 2. Final Backfill: Backfill placed over initial backfill to fill a trench.
- B. Base Course: Course placed between the subbase course and hot-mix asphalt paving.
- C. Bedding Course: Course placed over the excavated subgrade in a trench before laying pipe.
- D. Borrow Soil: Satisfactory soil imported from off-site for use as fill or backfill.
- E. Drainage Course: Course supporting the slab-on-grade that also minimizes upward capillary flow of pore water.
- F. Excavation: Removal of material encountered above subgrade elevations and to lines and dimensions indicated.
- G. Fill: Soil materials used to raise existing grades.

- H. Structures: Buildings, footings, foundations, retaining walls, slabs, tanks, curbs, mechanical and electrical appurtenances, or other man-made stationary features constructed above or below the ground surface.
- I. Subbase Course: Course placed between the subgrade and base course for hot-mix asphalt pavement, or course placed between the subgrade and a cement concrete pavement or a cement concrete or hot-mix asphalt walk.
- J. Subgrade: Surface or elevation remaining after completing excavation, or top surface of a fill or backfill immediately below subbase, drainage fill, or topsoil materials.
- K. Utilities: On-site underground pipes, conduits, ducts, and cables, as well as underground services within buildings.

1.4 SUBMITTALS

- A. Product Data: For the following:
 - 1. Geotextile.
 - 2. Controlled low-strength material, including design mixture.

1.5 QUALITY ASSURANCE

- A. Codes and Standards: Perform earthwork complying with requirements of authorities having jurisdiction.
- B. Preexcavation Conference: Before commencing earthwork, meet with representatives of governing authorities, Owner, Architect, Structural Engineer, consultants, and other concerned entities. Review earthwork procedures and responsibilities including testing and inspection procedures and requirements. Notify participants at least three working days prior to convening conference. Record discussions and agreements and furnish a copy to each attendee.

1.6 PROJECT CONDITIONS

- A. Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted in writing by Construction Manager and then only after arranging to provide temporary utility services according to requirements indicated.
 - 1. Notify Construction Manager not less than two days in advance of proposed utility interruptions.
 - 2. Do not proceed with utility interruptions without Construction Manager's written permission.
 - 3. Contact utility-locator service for area where Project is located before excavating.
- B. Demolish and completely remove from site existing underground utilities indicated to be removed. Coordinate with utility companies to shut off services if lines are active.

PART 2 - PRODUCTS

2.1 SOIL MATERIALS

- A. General: Provide off-site borrow soil materials when sufficient satisfactory soil materials are not available from on-site excavations.

- B. Satisfactory Soils: On site soils satisfactory to testing agency, containing less than 25% pulverized shale fragments, free of rock or gravel larger than 3 inches in any dimension, debris, waste, frozen materials, organics, vegetation, and other deleterious matter.
- C. Unsatisfactory Soils: Silt, highly organic soils, wood, roots, trash, debris, and other soils and materials not acceptable to the testing agency.
 - 1. Unsatisfactory soils also include satisfactory soils not maintained within 2 percent of optimum moisture content at time of compaction.
- D. Subbase Material: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 90 percent passing a 1-1/2-inch sieve and not more than 12 percent passing a No. 200 sieve.
- E. Base Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 95 percent passing a 1-1/2-inch sieve and not more than 8 percent passing a No. 200 sieve.
- F. Engineered Fill: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 90 percent passing a 1-1/2-inch sieve and not more than 12 percent passing a No. 200 sieve.
- G. Bedding Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; except with 100 percent passing a 1-inch sieve and not more than 8 percent passing a No. 200 sieve.
- H. Drainage Course: Narrowly graded mixture of washed stone, or crushed or uncrushed gravel; ASTM D 448; coarse-aggregate grading Size 57; with 100 percent passing a 1-1/2-inch sieve and 0 to 5 percent passing a No. 8 sieve.
- I. Filter Material: Narrowly graded mixture of natural or crushed gravel, or crushed stone and natural sand; ASTM D 448; coarse-aggregate grading Size 67; with 100 percent passing a 1-inch sieve and 0 to 5 percent passing a No. 4 sieve.
- J. Sand: ASTM C 33; fine aggregate, natural, or manufactured sand.
- K. Impervious Fill: Clayey gravel and sand mixture capable of compacting to a dense state.

2.2 GEOTEXTILES

- A. Subsurface Drainage Geotextile: Nonwoven needle-punched geotextile, manufactured for subsurface drainage applications, made from polyolefins or polyesters; with elongation greater than 50 percent; as noted on drawings.
- B. Separation Geotextile: Woven geotextile fabric, manufactured for separation applications, made from polyolefins or polyesters; with elongation less than 50 percent; as noted on the drawings.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earthwork operations.

- B. Protect and maintain erosion and sedimentation controls during earthwork operations.
- C. Provide protective insulating materials to protect subgrades and foundation soils against freezing temperatures or frost.

3.2 DEWATERING

- A. Prevent surface water and ground water from entering excavations, from ponding on prepared subgrades, and from flooding Project site and surrounding area.
- B. Protect subgrades from softening, undermining, washout, and damage by rain or water accumulation.
 - 1. Reroute surface water runoff away from excavated areas. Do not allow water to accumulate in excavations. Do not use excavated utility trenches as temporary drainage ditches.
 - 2. Install a dewatering system to keep subgrades dry and convey ground water away from excavations. Maintain until dewatering is no longer required.

3.3 EXPLOSIVES

- A. Explosives: Do not use explosives.

3.4 EXCAVATION FOR STRUCTURES

- A. Excavate to indicated elevations and dimensions within a tolerance of plus or minus 1 inch. If applicable, extend excavations a sufficient distance from structures for placing and removing concrete formwork, for installing services and other construction, and for inspections.
 - 1. Excavations for Footings and Foundations: Do not disturb bottom of excavation. Excavate by hand to final grade just before placing concrete reinforcement. Trim bottoms to required lines and grades to leave solid base to receive other work.

3.5 EXCAVATION FOR WALKS AND PAVEMENTS

- A. Excavate surfaces under walks and pavements to indicated lines, cross sections, elevations, and subgrades.

3.6 EXCAVATION FOR UTILITY TRENCHES

- A. For sanitary sewer, storm sewer, and water lines, please see the corresponding spec sections. For other site utilities follow below.
- B. Excavate trenches to indicated gradients, lines, depths, and elevations.
 - 1. Beyond building perimeter, excavate trenches to allow installation of top of pipe below frost line.
- C. Excavate trenches to uniform widths to provide the following clearance on each side of pipe or conduit. Excavate trench walls vertically from trench bottom to 12 inches higher than top of pipe or conduit, unless otherwise indicated.
 - 1. Clearance: 12 inches each side of pipe or conduit.

- D. Trench Bottoms: Excavate trenches 4 inches deeper than bottom of pipe elevation to allow for bedding course. Hand excavate for bell of pipe.
 - 1. Excavate trenches 6 inches deeper than elevation required in rock or other unyielding bearing material to allow for bedding course.

3.7 SUBGRADE INSPECTION

- A. Notify testing agency when excavations have reached required subgrade.
- B. If testing agency determines that unsatisfactory soil is present, continue excavation and replace with compacted backfill or fill material as directed.
- C. Authorized additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.
- D. Reconstruct subgrades damaged by freezing temperatures, frost, rain, accumulated water, or construction activities, as directed by Construction Manager, without additional compensation.

3.8 UNAUTHORIZED EXCAVATION

- A. Fill unauthorized excavation under foundations or wall footings by extending bottom elevation of concrete foundation or footing to excavation bottom, without altering top elevation.
 - 1. Fill unauthorized excavations under other construction or utility pipe as directed by Construction Manager.

3.9 STORAGE OF SOIL MATERIALS

- A. Stockpile borrow soil materials and excavated satisfactory soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
 - 1. Stockpile soil materials away from edge of excavations. Do not store within drip line of remaining trees.

3.10 BACKFILL

- A. Place and compact backfill in excavations promptly, but not before completing the following:
 - 1. Construction below finish grade including, where applicable, subdrainage, dampproofing, waterproofing, and perimeter insulation.
 - 2. Surveying locations of underground utilities for Record Documents.
 - 3. Testing and inspecting underground utilities.
 - 4. Removing concrete formwork.
 - 5. Removing trash and debris.
 - 6. Removing temporary shoring and bracing, and sheeting.
 - 7. Installing permanent or temporary horizontal bracing on horizontally supported walls.
- B. Place backfill on subgrades free of mud, frost, snow, or ice.

3.11 UTILITY TRENCH BACKFILL

- A. For sanitary sewer, storm sewer, and water lines, please see the corresponding spec sections. For other site utility backfill, follow below.
- B. Place backfill on subgrades free of mud, frost, snow, or ice.
- C. Place and compact bedding course on trench bottoms and where indicated. Shape bedding course to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits.
- D. Backfill trenches excavated under footings and within 18 inches of bottom of footings with satisfactory soil; fill with concrete to elevation of bottom of footings.
- E. Provide 4-inch- thick, concrete-base slab support for piping or conduit less than 30 inches below surface of roadways. After installing and testing, completely encase piping or conduit in a minimum of 4 inches of concrete before backfilling or placing roadway subbase.
- F. Place and compact initial backfill material, free of particles larger than 1 inch in any dimension, to a height of 12 inches over the utility pipe or conduit in non-paved areas.
 - 1. Carefully compact initial backfill under pipe haunches and compact evenly up on both sides and along the full length of utility piping or conduit to avoid damage or displacement of piping or conduit. Coordinate backfilling with utilities testing.
- G. Controlled Low-Strength Material: Place initial backfill of controlled low-strength material to a height of 12 inches over the utility pipe or conduit in paved areas.
- H. Backfill voids with satisfactory soil while installing and removing shoring and bracing.
- I. Place and compact final backfill of satisfactory soil to final subgrade elevation in non-paved areas.
- J. Controlled Low-Strength Material: Place final backfill of controlled low-strength material to final subgrade elevation in paved areas.

3.12 SOIL FILL

- A. Plow, scarify, bench, or break up sloped surfaces steeper than 1 vertical to 4 horizontal so fill material will bond with existing material.
- B. Place and compact fill material in layers to required elevations in accordance with sections 3.13 and 3.14 and as follows:
 - 1. Under grass and planted areas, use satisfactory soil material or engineered fill.
 - 2. Under walks and pavements, use satisfactory soil material (excluding topsoil) or engineered fill.
 - 3. Under steps and ramps, use satisfactory soil material (excluding topsoil) or engineered fill.
 - 4. Under building slabs, use satisfactory soil material (excluding topsoil) or engineered fill.
 - 5. Under footings and foundations, use satisfactory (excluding topsoil) soil material or engineered fill.
- C. Place soil fill on subgrades free of mud, frost, snow, or ice.

3.13 SOIL MOISTURE CONTROL

- A. Uniformly moisten or aerate subgrade and each subsequent fill or backfill soil layer before compaction to within 2 percent of optimum moisture content.
 - 1. Do not place backfill or fill soil material on surfaces that are muddy, frozen, or contain frost or ice.
 - 2. Remove and replace, or scarify and air dry otherwise satisfactory soil material that exceeds optimum moisture content by 2 percent and is too wet to compact to specified dry unit weight.

3.14 COMPACTION OF SOIL BACKFILLS AND FILLS

- A. Place backfill and fill soil materials in layers not more than 8 inches in loose depth for material compacted by heavy compaction equipment, and not more than 4 inches in loose depth for material compacted by hand-operated tampers.
- B. Place backfill and fill soil materials evenly on all sides of structures to required elevations, and uniformly along the full length of each structure.
- C. Compact soil materials to not less than the following percentages of maximum dry unit weight according to ASTM D 698:
 - 1. Under structures, building slabs, steps, and pavements, including 10 feet beyond all such areas, compact each layer of backfill or fill soil material at 100 percent maximum dry density.
 - 2. Under walkways, compact each layer of backfill or fill soil material at 100 percent maximum dry density.
 - 3. Under lawn or unpaved areas, scarify and recompact top 6 inches below subgrade and compact each layer of backfill or fill soil material at 95 percent maximum dry density.
 - 4. For utility trenches, compact each layer of initial and final backfill soil material at 100 percent maximum dry density.

3.15 GRADING

- A. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.
 - 1. Provide a smooth transition between adjacent existing grades and new grades.
 - 2. Cut out soft spots, fill low spots, and trim high spots to comply with required surface tolerances.
- B. Site Grading: Slope grades to direct water away from buildings and to prevent ponding. Finish subgrades to required elevations within the following tolerances:
 - 1. Lawn or Unpaved Areas: Plus or minus 1 inch.
 - 2. Walks: Plus or minus 1/2 inch.
 - 3. Pavements: Plus or minus 1/2 inch.
- C. Grading inside Building Lines: Finish subgrade to a tolerance of 1/2 inch when tested with a 10-foot straightedge.

3.16 SUBSURFACE DRAINAGE

- A. Subdrainage Pipe: Specified in Division 33 Section "Subdrainage."
- B. Subsurface Drain: Place subsurface drainage geotextile around perimeter of subdrainage trench. Place a 6-inch course of filter material on subsurface drainage geotextile to support subdrainage pipe. Encase subdrainage pipe in a minimum of 12 inches of filter material, placed in compacted layers 6 inches thick, and wrap in subsurface drainage geotextile, overlapping sides and ends at least 6 inches.
 - 1. Compact each filter material layer to 85 percent of maximum dry unit weight according to ASTM D 698.
- C. Drainage Backfill: Place and compact filter material over subsurface drain, in width indicated, to within 12 inches of final subgrade, in compacted layers 6 inches thick. Overlay drainage backfill with 1 layer of subsurface drainage geotextile, overlapping sides and ends at least 6 inches.
 - 1. Compact each filter material layer to 85 percent of maximum dry unit weight according to ASTM D 698.

3.17 SUBBASE AND BASE COURSES

- A. Place subbase and base course on subgrades free of mud, frost, snow, or ice.
- B. On prepared subgrade, place subbase and base course under pavements and walks as follows:
 - 1. Where specified install separation geotextile on prepared subgrade according to manufacturer's written instructions, overlapping sides and ends.
 - 2. Shape subbase and base course to required crown elevations and cross-slope grades.
 - 3. Place subbase and base course that exceeds 6 inches in compacted thickness in layers of equal thickness, with no compacted layer more than 6 inches thick or less than 3 inches thick.
 - 4. Compact subbase and base course at optimum moisture content to required grades, lines, cross sections, and thickness to not less than 98 percent of maximum dry density.
- C. Pavement Shoulders: Place shoulders along edges of subbase and base course to prevent lateral movement. Construct shoulders, at least 12 inches wide, of satisfactory soil materials and compact simultaneously with each subbase and base layer to not less than 100 percent of maximum dry density.

3.18 DRAINAGE COURSE

- A. Place drainage course on subgrades free of mud, frost, snow, or ice.
- B. On prepared subgrade, place and compact drainage course under cast-in-place concrete slabs-on-grade as follows:
 - 1. Install subdrainage geotextile on prepared subgrade according to manufacturer's written instructions, overlapping sides and ends.
 - 2. Place drainage course 6 inches or less in compacted thickness in a single layer.

3. Place drainage course that exceeds 6 inches in compacted thickness in layers of equal thickness, with no compacted layer more than 6 inches thick or less than 3 inches thick.
4. Compact each layer of drainage course to required cross sections and thicknesses to not less than 98 percent of maximum dry unit weight according to ASTM D 698.

3.19 PROTECTION

- A. Protecting Graded Areas: Protect newly graded areas from traffic, freezing, and erosion. Keep free of trash and debris.
- B. Repair and reestablish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions.
 1. Scarify or remove and replace soil material to depth as directed by Construction Manager; reshape and recompact.
- C. Where settling occurs before Project correction period elapses, remove finished surfacing, backfill with additional soil material, compact, and reconstruct surfacing.
 1. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate evidence of restoration to greatest extent possible.

3.20 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Disposal: Transport surplus soil material offsite to a legal disposal site off Owner's property.
 1. Remove waste material, including unsatisfactory soil, trash, and debris, and legally dispose of it off Owner's property.
- B. Excavated pavements shall be considered waste material and shall not be incorporated into fills.

END OF SECTION 31 20 00

SECTION 33 42 00

STORMWATER CONVEYANCE

PART 1 - GENERAL

1.1 SUMMARY

- A. Pipe and fittings.
- B. Nonpressure transition couplings.
- C. Expansion joints and deflection fittings.
- D. Cleanouts.
- E. Drains.
- F. Manholes.
- G. Channel drainage systems.
- H. Catch basins.
- I. Stormwater Inlets
- J. Pipe outlets

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings:
 - 1. Manholes: Include plans, elevations, sections, details, frames, and covers.
 - 2. Catch basins, stormwater inlets. Include plans, elevations, sections, details, frames, covers, and grates.

1.3 INFORMATIONAL SUBMITTALS

- A. Product Certificates: For each type of cast iron soil pipe and fitting, from manufacturer.
- B. Field quality control reports.

1.4 DELIVERY, STORAGE, HANDLING

- A. Do not store plastic manholes, pipe, and fittings in direct sunlight.
- B. Protect pipe, pipe fittings, and seals from dirt and damage.
- C. Handle manholes according to manufacturer's written rigging instructions.
- D. Handle catch basins and stormwater inlets according to manufacturer's written rigging instructions.

1.5 PROJECT CONDITIONS

- A. Interruption of Existing Storm Drainage Service: Do not interrupt service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary service according to requirements indicated:
 - 1. Notify Owner no fewer than two days in advance of proposed interruption of service.

- B. Do not proceed with interruption of service without Owner's written permission.

PART 2 - PRODUCTS

2.1 HUB-AND-SPIGOT, CAST-IRON SOIL PIPE AND FITTINGS

- A. Pipe and Fittings:
1. Marked with CISPI collective trademark and NSF certification mark.
 2. Class: ASTM A 74, Service and Extra Heavy class(es).
- B. Gaskets: ASTM C 564, rubber.

2.2 HUBLESS CAST-IRON SOIL PIPE AND FITTINGS

- A. Pipe and Fittings:
1. Marked with CISPI collective trademark and NSF certification mark.
 2. Standard: ASTM A 888 or CISPI 301.
- B. Heavy-Duty, Shielded Couplings:
1. Description: Stainless-steel shield; stainless-steel bands and tightening devices; and rubber sleeve with integral, center pipe stop.
 2. Standards:
 - a. ASTM C 1277 and ASTM C 1540 for couplings.
 - b. ASTM C564 for rubber gaskets.
- C. Cast-Iron, Shielded Couplings:
1. Description: Two-piece, cast-iron housing; stainless-steel bolts and nuts; and rubber sleeve with integral, center pipe stop.
 2. Standards:
 - a. ASTM C 1277 for couplings.
 - b. ASTM A 48/A 48M for cast-iron castings.
 - c. ASTM C 564 for gaskets.

2.3 DUCTILE-IRON, CULVERT PIPE AND FITTINGS

- A. Pipe: ASTM A 716, for push-on joints.
- B. Standard Fittings: AWWA C110, ductile or gray iron, for push-on joints.
- C. Compact Fittings: AWWA C153, for push-on joints.
- D. Gaskets: AWWA C111, rubber.

2.4 ABS PIPE AND FITTINGS

- A. ABS Sewer Pipe and Fittings: ASTM D 2751, with bell-and-spigot ends for gasketed joints.
1. NPS 3 to NPS 6 SDR 35.
 2. NPS 8 to NPS 12 SDR 42.
- B. Gaskets: ASTM F 477, elastomeric seals.

2.5 PVC PIPE AND FITTINGS

- A. PVC Cellular-Core Piping:
1. PVC Cellular-Core Pipe and Fittings: ASTM F 891, Sewer and Drain Series, PS 50 minimum stiffness, PVC cellular-core pipe with plain ends for solvent-cemented joints.
 2. Fittings: ASTM D 3034, SDR 35, PVC socket-type fittings.

- B. PVC Profile Sewer Piping:
 - 1. Pipe: ASTM F 794, PVC profile, gravity sewer pipe with bell-and-spigot ends for gasketed joints.
 - 2. Fittings: ASTM D 3034, PVC with bell ends.
 - 3. Gaskets: ASTM F 477, elastomeric seals.
- C. PVC Type PSM Sewer Piping:
 - 1. Pipe: ASTM D 3034, SDR 35, PVC Type PSM sewer pipe with bell-and-spigot ends for gasketed joints.
 - 2. Fittings: ASTM D 3034, PVC with bell ends.
 - 3. Gaskets: ASTM F 477, elastomeric seals.
- D. PVC Gravity Sewer Piping:
 - 1. Pipe and Fittings: ASTM F 679, T-2 wall thickness, PVC gravity sewer pipe with bell-and-spigot ends and with integral ASTM F 477, elastomeric seals for gasketed joints.
- E. CONCRETE PIPE AND FITTINGS
 - 1. Reinforced-Concrete Sewer Pipe and Fittings: ASTM C 76.
 - a. Bell-and-spigot ends and gasketed joints with ASTM C 443.

2.6 NONPRESSURE TRANSITION COUPLINGS

- A. Comply with ASTM C 1173, elastomeric, sleeve-type, reducing or transition coupling, for joining underground nonpressure piping. Include ends of same sizes as piping to be joined, and corrosion-resistant-metal tension band and tightening mechanism on each end.
- B. Sleeve Materials:
 - 1. For Concrete Pipes: ASTM C 443, rubber.
 - 2. For Cast-Iron Soil Pipes: ASTM C 564, rubber.
 - 3. For Fiberglass Pipes: ASTM F 477, elastomeric seal or ASTM D 5926, PVC.
 - 4. For Plastic Pipes: ASTM F 477, elastomeric seal or ASTM D 5926, PVC.
 - 5. For Dissimilar Pipes: ASTM D 5926, PVC or other material compatible with pipe materials being joined.
- C. Unshielded, Flexible Couplings:
 - 1. Description: Elastomeric sleeve with stainless-steel shear ring and corrosion-resistant-metal tension band and tightening mechanism on each end.
- D. Shielded, Flexible Couplings:
 - 1. Description: ASTM C 1460, elastomeric or rubber sleeve with full-length, corrosion-resistant outer shield and corrosion-resistant-metal tension band and tightening mechanism on each end.
- E. Ring-Type, Flexible Couplings:
 - 1. Description: Elastomeric compression seal with dimensions to fit inside bell of larger pipe and for spigot of smaller pipe to fit inside ring.
- F. EXPANSION JOINTS AND DEFLECTION FITTINGS
 - 1. Ductile-Iron, Flexible Expansion Joints:
 - a. Description: Compound fitting with combination of flanged and mechanical-joint ends complying with AWWA C110 or AWWA C153. Include two gasketed ball-joint sections and one or more gasketed sleeve sections, rated for 250-psig minimum working pressure and for offset and expansion indicated.
 - 2. Ductile-Iron Expansion Joints:

- a. Description: Three-piece assembly of telescoping sleeve with gaskets and restrained-type, ductile-iron, bell-and-spigot end sections complying with AWWA C110/A21.10 or AWWA C153/A21.53.
 - b. Pressure Rating: 250-psig minimum working pressure and for expansion indicated.
3. Ductile-Iron Deflection Fittings:
- a. Description: Compound, ductile-iron coupling fitting with sleeve and 1 or 2 flexing sections for up to 15-degree deflection, gaskets, and restrained-joint ends complying with AWWA C110 or AWWA C153. Include AWWA C111, ductile-iron glands, rubber gaskets, and steel bolts. Include AWWA C111 ductile-iron glands, rubber gaskets, and steel bolts.
 - b. Pressure Rating: 250 psig minimum.

2.7 CLEANOUTS

A. Cast-Iron Cleanouts:

- 1. Description: ASME A112.36.2M, round, gray-iron housing with clamping device and round, secured, scoriated, gray-iron cover. Include gray-iron ferrule with inside calk or spigot connection and countersunk, tapered-thread, brass closure plug.
- 2. Top-Loading Classification: Heavy Duty.
- 3. Sewer Pipe Fitting and Riser to Cleanout: ASTM A 74, Service class, cast-iron soil pipe and fittings.

B. PVC Cleanouts:

- 1. Description: PVC body with PVC threaded plug. Include PVC sewer pipe fitting and riser to cleanout of same material as sewer piping.

2.8 DRAINS

A. Cast-Iron Area Drains:

- 1. Description: ASME A112.6.3 gray-iron round body with anchor flange and round grate. Include bottom outlet with inside calk or spigot connection, of sizes indicated.
- 2. Top-Loading Classification: Heavy Duty.

B. Cast-Iron Trench Drains:

- 1. Description: ASME A112.6.3, 6-inch-wide top surface, rectangular body with anchor flange or other anchoring device, and rectangular[secured] grate. Include units of total length indicated and quantity of bottom outlets with inside calk or spigot connections, of sizes indicated.
- 2. Top-Loading Classification(s): Heavy and Extra-Heavy Duty.

C. Steel Trench Drains:

- 1. Description: Factory fabricated from ASTM A 242, welded steel plate, to form rectangular body with uniform bottom downward slope of 2 percent toward outlet, anchor flange, and grate. Include units of total length indicated, bottom outlet of size indicated, outlet strainer, acid-resistant enamel coating on inside and outside surfaces, and grate with openings of total free area at least two times cross-sectional area of outlet.
- 2. Plate Thicknesses: 1/4 inch.
- 3. Overall Widths: 12-1/3 inches.
 - a. Grate Openings: 3/8-by-3-inch slots.

2.9 MANHOLES

A. Standard Precast Concrete Manholes:

1. Description: ASTM C 478, precast, reinforced concrete, of depth indicated, with provision for sealant joints.
2. Diameter: 48 inches minimum unless otherwise indicated.
3. Ballast: Increase thickness of precast concrete sections or add concrete to base section as required to prevent flotation.
4. Base Section: 6-inch minimum thickness for floor slab and 4-inch minimum thickness for walls and base riser section, and separate base slab or base section with integral floor.
5. Riser Sections: 4-inch minimum thickness, and lengths to provide depth indicated.
6. Top Section: Eccentric-cone type unless concentric-cone or flat-slab-top type is indicated, and top of cone of size that matches grade rings.
7. Joint Sealant: ASTM C 990, bitumen or butyl rubber.
8. Resilient Pipe Connectors: ASTM C 923, cast or fitted into manhole walls, for each pipe connection.
9. Steps: Individual FRP steps; FRP ladder; or ASTM A 615, deformed, 1/2-inch steel reinforcing rods encased in ASTM D 4101 wide enough to allow worker to place both feet on one step and designed to prevent lateral slippage off step. Cast or anchor steps into sidewalls at 12- to 16-inch intervals. Omit steps if total depth from floor of manhole to finished grade is less than 60 inches.
10. Adjusting Rings: Interlocking HDPE rings with level or sloped edge in thickness and diameter matching manhole frame and cover, and of height required to adjust manhole frame and cover to indicated elevation and slope. Include sealant recommended by ring manufacturer.
11. Grade Rings: Reinforced-concrete rings, 6- to 9-inch total thickness, to match diameter of manhole frame and cover, and height as required to adjust manhole frame and cover to indicated elevation and slope.

2.10 CONCRETE

- A. General: Cast-in-place concrete according to ACI 318, ACI 350/350R, and the following:
 1. Cement: ASTM C 150, Type II.
 2. Fine Aggregate: ASTM C 33, sand.
 3. Coarse Aggregate: ASTM C 33, crushed gravel.
 4. Water: Potable.
- B. Portland Cement Design Mix: 4000 psi minimum, with 0.45 maximum water/cementitious materials ratio.
 1. Reinforcing Fabric: ASTM A 185, steel, welded wire fabric, plain.
 2. Reinforcing Bars: ASTM A 615, Grade 60 deformed steel.
- C. Manhole Channels and Benches: Factory or field formed from concrete. Portland cement design mix, 4000 psi minimum, with 0.45 maximum water/cementitious materials ratio. Include channels and benches in manholes.
 1. Channels: Concrete invert, formed to same width as connected piping, with height of vertical sides to three-fourths of pipe diameter. Form curved channels with smooth, uniform radius and slope.
 - a. Invert Slope: 1 percent through manhole.
 2. Benches: Concrete, sloped to drain into channel.
 - a. Slope: 4 percent.
- D. Ballast and Pipe Supports: Portland cement design mix, 3000 psi minimum, with 0.58 maximum water/cementitious materials ratio.
 1. Reinforcing Fabric: ASTM A 185, steel, welded wire fabric, plain.
 2. Reinforcing Bars: ASTM A 615, Grade 60 deformed steel.

2.11 CATCH BASINS

- A. Standard Precast Concrete Catch Basins:
 - 1. Description: ASTM C 478, precast, reinforced concrete, of depth indicated, with provision for sealant joints.
 - 2. Base Section: 6-inch minimum thickness for floor slab and 4-inch minimum thickness for walls and base riser section, and separate base slab or base section with integral floor.
 - 3. Riser Sections: 4-inch minimum thickness, 48-inch diameter, and lengths to provide depth indicated.
 - 4. Top Section: Eccentric-cone type unless concentric-cone or flat-slab-top type is indicated. Top of cone of size that matches grade rings.
 - 5. Joint Sealant: ASTM C 990, bitumen or butyl rubber.
 - 6. Adjusting Rings: Interlocking rings with level or sloped edge in thickness and shape matching catch basin frame and grate. Include sealant recommended by ring manufacturer.
 - 7. Steps: Individual FRP steps; FRP ladder; or ASTM A 615, deformed, 1/2-inch steel reinforcing rods encased in ASTM D 4101, wide enough to allow worker to place both feet on one step and designed to prevent lateral slippage off step. Cast or anchor steps into sidewalls at 12- to 16-inch intervals.
 - 8. Pipe Connectors: ASTM C 923, resilient, of size required, for each pipe connecting to base section.

2.12 STORMWATER INLETS

- A. Curb Inlets: Made with vertical curb opening of materials and dimensions according to utility standards.
- B. Gutter Inlets: Made with horizontal gutter opening, of materials and dimensions according to utility standards. Include heavy-duty frames and grates.
- C. Combination Inlets: Made with vertical curb and horizontal gutter openings, of materials and dimensions according to utility standards. Include heavy-duty frames and grates.
- D. Frames and Grates: Heavy duty, according to utility standards.

PART 3 - EXECUTION

3.1 EARTHWORK

- A. Excavation, trenching, and backfilling are specified in Section 312000 "Earth Moving."

3.2 PIPING INSTALLATION

- A. General Locations and Arrangements: Drawing plans and details indicate general location and arrangement of underground storm drainage piping. Location and arrangement of piping layout take into account design considerations. Install piping as indicated, to extent practical. Where specific installation is not indicated, follow piping manufacturer's written instructions.
- B. Install piping beginning at low point, true to grades and alignment indicated with unbroken continuity of invert. Place bell ends of piping facing upstream. Install gaskets, seals, sleeves, and couplings according to manufacturer's written instructions for use of lubricants, cements, and other installation requirements.
- C. Install manholes for changes in direction unless fittings are indicated. Use fittings for branch connections unless direct tap into existing sewer is indicated.
- D. Install proper size increasers, reducers, and couplings where different sizes or materials of pipes and fittings are connected. Reducing size of piping in direction of flow is prohibited.
- E. When installing pipe under streets or other obstructions that cannot be disturbed, use pipe-jacking process of microtunneling.

- F. Install gravity-flow, nonpressure drainage piping according to the following:
1. Install piping pitched down in direction of flow.
 2. Install piping NPS 6 and larger with restrained joints at tee fittings and at changes in direction. Use corrosion-resistant rods, pipe or fitting manufacturer's proprietary restraint system, or cast-in-place concrete supports or anchors.
 3. Install piping with 48-inch minimum cover.
 4. Install hub-and-spigot, cast-iron soil piping according to CISPI's "Cast Iron Soil Pipe and Fittings Handbook."
 5. Install hubless cast-iron soil piping according to CISPI 310 and CISPI's "Cast Iron Soil Pipe and Fittings Handbook."
 6. Install ductile-iron piping and special fittings according to AWWA C600 or AWWA M41.
 7. Install corrugated steel piping according to ASTM A 798.
 8. Install corrugated aluminum piping according to ASTM B 788.
 9. Install ABS sewer piping according to ASTM D 2321 and ASTM F 1668.
 10. Install PE corrugated sewer piping according to ASTM D 2321.
 11. Install PVC cellular-core piping according to ASTM D 2321 and ASTM F 1668.
 12. Install PVC sewer piping according to ASTM D 2321 and ASTM F 1668.
 13. Install PVC profile gravity sewer piping according to ASTM D 2321 and ASTM F 1668.
 14. Install PVC water-service piping according to ASTM D 2321 and ASTM F 1668.
 15. Install fiberglass sewer piping according to ASTM D 3839 and ASTM F 1668.
 16. Install nonreinforced-concrete sewer piping according to ASTM C 1479 and ACPA's "Concrete Pipe Installation Manual."
 17. Install reinforced-concrete sewer piping according to ASTM C 1479 and ACPA's "Concrete Pipe Installation Manual."
- G. Install corrosion-protection piping encasement over the following underground metal piping according to ASTM A 674 or AWWA C105:
1. Hub-and-spigot, cast-iron soil pipe and fittings.
 2. Hubless cast-iron soil pipe and fittings.
 3. Ductile-iron pipe and fittings.
 4. Expansion joints and deflection fittings.

3.3 PIPE JOINT CONSTRUCTION

- A. Join gravity-flow, nonpressure drainage piping according to the following:
1. Join hub-and-spigot, cast-iron soil piping with gasketed joints according to CISPI's "Cast Iron Soil Pipe and Fittings Handbook" for compression joints.
 2. Join hub-and-spigot, cast-iron soil piping with calked joints according to CISPI's "Cast Iron Soil Pipe and Fittings Handbook" for lead and oakum calked joints.
 3. Join hubless cast-iron soil piping according to CISPI 310 and CISPI's "Cast Iron Soil Pipe and Fittings Handbook" for hubless-coupling joints.
 4. Join ductile-iron culvert piping according to AWWA C600 for push-on joints.
 5. Join ductile-iron piping and special fittings according to AWWA C600 or AWWA M41.
 6. Join corrugated steel sewer piping according to ASTM A 798/A 798M.
 7. Join corrugated aluminum sewer piping according to ASTM B 788/B 788M.
 8. Join ABS sewer piping according to ASTM D 2321 and ASTM D 2751 for elastomeric-seal joints.
 9. Join corrugated PE piping according to ASTM D 3212 for push-on joints.
 10. Join PVC cellular-core piping according to ASTM D 2321 and ASTM F 891 for solvent-cemented joints.
 11. Join PVC corrugated sewer piping according to ASTM D 2321 for elastomeric-seal joints.
 12. Join PVC sewer piping according to ASTM D 2321 and ASTM D 3034 for elastomeric-seal joints or ASTM D 3034 for elastomeric-gasketed joints.
 13. Join PVC profile gravity sewer piping according to ASTM D 2321 for elastomeric-seal joints or ASTM F 794 for gasketed joints.
 14. Join fiberglass sewer piping according to ASTM D 3839 for elastomeric-seal joints.

15. Join nonreinforced-concrete sewer piping according to ASTM C 14 and ACPA's "Concrete Pipe Installation Manual" for rubber-gasketed joints.
16. Join reinforced-concrete sewer piping according to ACPA's "Concrete Pipe Installation Manual" for rubber-gasketed joints.
17. Join dissimilar pipe materials with nonpressure-type flexible couplings.

3.4 CLEANOUT INSTALLATION

- A. Install cleanouts and riser extensions from sewer pipes to cleanouts at grade. Use cast-iron soil pipe fittings in sewer pipes at branches for cleanouts and cast-iron soil pipe for riser extensions to cleanouts. Install piping so cleanouts open in direction of flow in sewer pipe.
 1. Use Light-Duty, top-loading classification cleanouts in earth or unpaved foot-traffic areas.
 2. Use Medium-Duty, top-loading classification cleanouts in paved foot-traffic areas.
 3. Use Heavy-Duty, top-loading classification cleanouts in vehicle-traffic service areas.
 4. Use Extra-Heavy-Duty, top-loading classification cleanouts in roads.
- B. Set cleanout frames and covers in earth in cast-in-place concrete block, 18 by 18 by 12 inches. Set with tops 1 inch surrounding earth grade.
- C. Set cleanout frames and covers in concrete pavement and roads with tops flush with pavement surface.

3.5 DRAIN INSTALLATION

- A. Install type of drains in locations indicated.
 1. Use Light-Duty, top-loading classification drains in earth or unpaved foot-traffic areas.
 2. Use Medium-Duty, top-loading classification drains in paved foot-traffic areas.
 3. Use Heavy-Duty, top-loading classification drains in vehicle-traffic service areas.
 4. Use Extra-Heavy-Duty, top-loading classification drains in roads.
- B. Embed drains in 4-inch minimum concrete around bottom and sides.
- C. Fasten grates to drains if indicated.
- D. Set drain frames and covers with tops flush with pavement surface.
- E. Assemble trench sections with flanged joints.
- F. Embed trench sections in 4-inch minimum concrete around bottom and sides.

3.6 MANHOLE INSTALLATION

- A. General: Install manholes, complete with appurtenances and accessories indicated.
- B. Install precast concrete manhole sections with sealants according to ASTM C 891.
- C. Where specific manhole construction is not indicated, follow manhole manufacturer's written instructions.
- D. Set tops of frames and covers flush with finished surface of manholes that occur in pavements. Set tops 3 inches above finished surface elsewhere unless otherwise indicated.
- E. Separate recyclable materials produced during site clearing from other nonrecyclable materials. Store or stockpile without intermixing with other materials, and transport them to recycling facilities. Do not interfere with other Project work.

3.7 CATCH BASIN INSTALLATION

- A. Construct catch basins to sizes and shapes indicated.
- B. Set frames and grates to elevations indicated.

3.8 STORMWATER INLET INSTALLATION

- A. Construct inlet head walls, aprons, and sides of reinforced concrete, as indicated.
- B. Construct riprap of broken stone, as indicated.
- C. Install outlets that spill onto grade, anchored with concrete, where indicated.
- D. Install outlets that spill onto grade, with flared end sections that match pipe, where indicated.
- E. Construct energy dissipaters at outlets, as indicated.

3.9 CONCRETE PLACEMENT

- A. Place cast-in-place concrete according to ACI 318.

3.10 CONNECTIONS

- A. Connect nonpressure, gravity-flow drainage piping in building's storm building drains specified in Section 221413 "Facility Storm Drainage Piping."
- B. Connect force-main piping to building's storm drainage force mains specified in Section 221413 "Facility Storm Drainage Piping." Terminate piping where indicated.
- C. Make connections to existing piping and underground manholes.
 - 1. Use commercially manufactured wye fittings for piping branch connections. Remove section of existing pipe; install wye fitting into existing piping; and encase entire wye fitting, plus 6-inch overlap, with not less than 6 inches of concrete with 28-day compressive strength of 3000 psi.
 - 2. Make branch connections from side into existing piping, NPS 4 to NPS 20. Remove section of existing pipe, install wye fitting into existing piping, and encase entire wye with not less than 6 inches of concrete with 28-day compressive strength of 3000 psi.
 - 3. Make branch connections from side into existing piping, NPS 21 or larger, or to underground manholes and structures by cutting into existing unit and creating an opening large enough to allow 3 inches of concrete to be packed around entering connection. Cut end of connection pipe passing through pipe or structure wall to conform to shape of and be flush with inside wall unless otherwise indicated. On outside of pipe, manhole, or structure wall, encase entering connection in 6 inches of concrete for minimum length of 12 inches to provide additional support of collar from connection to undisturbed ground.
 - a. Use concrete that will attain a minimum 28-day compressive strength of 3000 psi unless otherwise indicated.
 - b. Use epoxy-bonding compound as interface between new and existing concrete and piping materials.
 - 4. Protect existing piping, manholes, and structures to prevent concrete or debris from entering while making tap connections. Remove debris or other extraneous material that may accumulate.
- D. Connect to sediment interceptors specified in Section 221323 "Sanitary Waste Interceptors."
- E. Pipe couplings, expansion joints, and deflection fittings with pressure ratings at least equal to piping rating may be used in applications below unless otherwise indicated.
 - 1. Use nonpressure-type flexible couplings where required to join gravity-flow, nonpressure sewer piping unless otherwise indicated.
 - a. Shielded flexible couplings for same or minor difference OD pipes.
 - b. Unshielded, increaser/reducer-pattern, flexible couplings for pipes with different OD.
 - c. Ring-type flexible couplings for piping of different sizes where annular space between smaller piping's OD and larger piping's ID permits installation.

3.11 CLOSING ABANDONED STORM DRAINAGE SYSTEMS

- A. Abandoned Piping: Close open ends of abandoned underground piping indicated to remain in place. Include closures strong enough to withstand hydrostatic and earth pressures that may result after ends of abandoned piping have been closed. Use either procedure below:
 - 1. Close open ends of piping with at least 8-inch- thick, brick masonry bulkheads.
 - 2. Close open ends of piping with threaded metal caps, plastic plugs, or other acceptable methods suitable for size and type of material being closed. Do not use wood plugs.
- B. Abandoned Manholes and Structures: Excavate around manholes and structures as required and use one procedure below:
 - 1. Remove manhole or structure and close open ends of remaining piping.
 - 2. Remove top of manhole or structure down to at least 36 inches below final grade. Fill to within 12 inches of top with stone, rubble, gravel, or compacted dirt. Fill to top with concrete.
- C. Backfill to grade according to Section 312000 "Earth Moving."

3.12 IDENTIFICATION

- A. Materials and their installation are specified in Section 312000 "Earth Moving." Arrange for installation of green warning tape directly over piping and at outside edge of underground structures.
 - 1. Use warning tape or detectable warning tape over ferrous piping.
 - 2. Use detectable warning tape over nonferrous piping and over edges of underground structures.

3.13 FIELD QUALITY CONTROL

- A. Inspect interior of piping to determine whether line displacement or other damage has occurred. Inspect after approximately 24 inches of backfill is in place, and again at completion of Project.
 - 1. Submit separate reports for each system inspection.
 - 2. Defects requiring correction include the following:
 - a. Alignment: Less than full diameter of inside of pipe is visible between structures.
 - b. Deflection: Flexible piping with deflection that prevents passage of ball or cylinder of size not less than 92.5 percent of piping diameter.
 - c. Damage: Crushed, broken, cracked, or otherwise damaged piping.
 - d. Infiltration: Water leakage into piping.
 - e. Exfiltration: Water leakage from or around piping.
- B. Test new piping systems, and parts of existing systems that have been altered, extended, or repaired, for leaks and defects.
 - 1. Do not enclose, cover, or put into service before inspection and approval.
 - 2. Test completed piping systems according to requirements of authorities having jurisdiction.
 - 3. Schedule tests and inspections by authorities having jurisdiction with at least 24 hours' advance notice.
 - 4. Submit separate report for each test.
 - 5. Gravity-Flow Storm Drainage Piping: Test according to requirements of authorities having jurisdiction, UNI-B-6, and the following:
 - a. Exception: Piping with soil-tight joints unless required by authorities having jurisdiction.
 - b. Option: Test plastic piping according to ASTM F 1417.
 - c. Option: Test concrete piping according to ASTM C 924.

6. Force-Main Storm Drainage Piping: Perform hydrostatic test after thrust blocks, supports, and anchors have hardened. Test at pressure not less than 1-1/2 times the maximum system operating pressure, but not less than 150 psig.
 - a. Ductile-Iron Piping: Test according to AWWA C600, "Hydraulic Testing" Section.
 - b. PVC Piping: Test according to AWWA M23, "Testing and Maintenance" Chapter.
 - C. Leaks and loss in test pressure constitute defects that must be repaired.
 - D. Replace leaking piping using new materials, and repeat testing until leakage is within allowances specified.
- 3.14 CLEANING
- A. Clean interior of piping of dirt and superfluous materials. Flush with water.

END OF SECTION