Casper College | Procurement Department
125 College Drive, Casper WY 82601

Issue Date 04/30/2025

Addendum #2

RFP #CC604-25

CAREER STUDIES ROOF REPLACEMENT

General

The attached the addendum issued by Arete design group.

Shane Pulliam
Director of Procurement

shane.pulliam@caspercollege.edu
Ph: 307-268-2633
Fax: 307-268-2880

ADDENDUM

PROJECT TITLE:	**Career Studies Roof Replacement**
PROJECT NUMBER:	**25-12**
OWNER:	**Casper College**
ARCHITECT:	**Arete Design Group** **228 East Brundage Street, Suite 100** **Sheridan, WY 82801**
DATE:	**April 29, 2025**
ADDENDUM NO:	**02** **Number of Pages: 28**

The contract documents for the work are modified by the following and become a part of the original project manual and drawings, taking precedence over the items which may conflict. The bidder shall note receipt and make acknowledgement of this Addendum on the bid proposal, incorporating these provisions in the bid.

GENERAL

1. See the attached hazardous materials testing report indicating non detect for hazardous materials.

SPECIFICATIONS

SECTION 075410 Adhered Thermoplastic Membrane Roofing

Part 2.2, A; Revise to Read

"A. G327 fiberglass reinforced membrane with a lacquer coating.

DRAWINGS

SHEET A101

Utilize the attached revised drawing sheet.

SHEET A401

Utilize the attached revised drawing sheet.

END OF ADDENDUM NO. 02

CC:

SCOTT ENVIRONMENTAL SERVICES, LLC
P.O. 2478, Mills, Wyoming 82644
307-262-9309

April 28, 2025

Mr. Mitch Masters
Casper College
125 College Drive
Casper, Wyoming 82601
mitchell.masters@caspercollege.edu

Re: Bulk sampling for asbestos containing materials on the Career Studies Building roof at Casper Community College, Casper, Wyoming

Dear Mr. Masters:

This report details the findings of the bulk sampling for asbestos containing materials that was performed on the roof of the Career Studies Building at Casper Community College, Casper, Wyoming. This asbestos survey and sampling were performed on April 23, 2025, at your request for the purpose of determining if the roofing materials covering the Career Studies Building contain asbestos.

This inspection process included identifying and sampling suspect asbestos containing materials (ACMs) from the roof of this building. No other materials inside or on the exterior of this building were considered for asbestos sampling during this assessment. All bulk samples collected during this inspection were shipped overnight to Crisp Analytical, L.L.C in Carrolton, TX for Polarized Light Microscopy (PLM) Analysis.

Miscellaneous and Surfacing Materials:

Seven (7) roof core samples of suspected asbestos containing materials were collected from the membrane covered roof. Three (3) bulk samples of suspected asbestos containing materials were collected from the sidewalls and two (2) bulk samples were collected of the sealant around roof vent penetrations. The samples were collected from random locations on the roof and are detailed in Tables 1-3.

Table 1
Roof Core Sampling
Career Studies Building
Casper Community College
Casper, Wyoming

Building	# of Samples Collected	Material in Core Sample	Material Category	Location	Total Quantity (ft^2)
Career Studies	7	Membrane cover, black tar, tan insulation, brown insulation, yellow foam insulation	Misc. and surfacing	Roof	~26,781

Table 2
Roof Sidewalls Sampling
Career Studies Building
Casper Community College
Casper, Wyoming

Building	# of Samples Collected	Material	Material Category	Location	Total Quantity (ft^2)
Career Studies	3	Membrane cover, black tar, black felt, tan insulation	Misc. and surfacing	Roof sidewalls	~975

Table 3
Gray Sealant (caulking)
Career Studies Building
Casper Community College
Casper, Wyoming

Building	# of Samples Collected	Material	Material Category	Location	Total Quantity (ft^2)
Career Studies	2	Gray roof sealant	Misc.	Roof vent penetrations	Not measured

ACM INSPECTION AND SAMPLING METHODOLOGY:

SES, LLC performed the ACM inspection and bulk sampling in accordance with the standards of 40 CFR Part 763, Subpart E on April 23, 2025, by a trained Asbestos Hazard Emergency Response Act (AHERA) Building Inspector.

BULK SAMPLING:

This survey included the collection of twelve (12) bulk samples and associated sample layers of suspected asbestos containing materials. Analytical results for each bulk sample are provided in the Appendix to this report. A photograph of each bulk sampling location has been included in the Appendix to this report.

SUMMARY ASBESTOS CONTAINING MATERIAL (ACM):

Miscellaneous and surfacing materials were considered asbestos containing if at least one sample showed that asbestos was present in concentrations greater than one percent (>1%). Materials were considered non asbestos containing if results from each sample collected had no detectable (ND) asbestos or had reported asbestos concentrations less than one percent (<1%).

The materials listed in Table 1, 2, and 3 of this report **do not** contain asbestos in concentration greater than 1% and may be removed from the building for commercial disposal. These materials are not a risk for asbestos exposure or asbestos fiber release into the environment.

LIMITATIONS:

This survey was designed to provide the client with observable materials (materials which were readily accessible and visible) that were collected and analyzed for asbestos content. Scott Environmental Services, LLC neither expresses nor implies a guarantee that all asbestos-containing materials were identified during this survey. If suspect materials are encountered during renovations these materials should be sampled by a certified building inspector and the samples should be analyzed by an accredited laboratory for asbestos content prior to disturbance and removal them from the building.

This concludes our report. Attached are the lab data, photographs, and resumes. If you have any questions or comments regarding this report, please call me at the Casper office. Thank you for allowing us this opportunity to be of service to you.

Sincerely,

J. Scott Mortimer
Project Manager
cc: File No. 2025-061

LABORATORY REPORT

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Scott Environmental Services, LLC
PO Box 2478
Mills, WY 82644

Attn: Scott Mortimer
Customer Project: 2025-061, 25-061, Casper College - Care
Reference #: CAL25042953AS Date: 04/25/25

Analysis and Method

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 2025-061, 25-061, Casper College - Career Studies **CA Labs Project #:** CAL25042953AS

Laboratory Sample ID	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

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Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Scott Mortimer
Scott Environmental Services, LLC
PO Box 2478
Mills, WY 82644

Phone # 307-262-9309
Fax #

Customer Project:
2025-061, 25-061, Casper College - Career Studies

Turnaround Time:
2 Days

CA Labs Project #:
CAL25042953AS

Date: 4/25/2025
Samples Rec'd: 4/24/25 10:30AM
Date Of Sampling: None Given
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
35820	25-061-1		*1-1*	***Roof**/ white vinyl covering*	*y*	***None Detected***		100% qu,ma
35820			*1-2*	*black tar*	*y*	***None Detected***	15% ce	85% qu,bi
35820			*1-3*	*tan insulation*	*y*	***None Detected***	15% ce	85% qu,pe,ca
35820			*1-4*	*brown insulation*	*y*	***None Detected***	100% ce	
35820			*1-5*	*yellow foam insulation*	*y*	***None Detected***		100% qu,ot
35821	25-061-2		*2-1*	***Roof**/ white vinyl covering*	*y*	***None Detected***		100% qu,ma
35821			*2-2*	*black tar*	*y*	***None Detected***	10% ce	90% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Justin Cox
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Scott Mortimer
Scott Environmental Services, LLC
PO Box 2478
Mills, WY 82644

Phone # 307-262-9309
Fax #

Customer Project:
2025-061, 25-061, Casper College - Career Studies

Turnaround Time:
2 Days

CA Labs Project #:
CAL25042953AS

Date: 4/25/2025
Samples Rec'd: 4/24/25 10:30AM
Date Of Sampling: None Given
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
35821			*2-3*	*tan insulation*	*y*	***None Detected***	13% ce	87% qu,pe,ca
35821			*2-4*	*brown insulation*	*y*	***None Detected***	100% ce	
35821			*2-5*	*yellow foam insulation*	*y*	***None Detected***		100% qu,ot
35822	25-061-3		*3-1*	***Roof****/ white vinyl covering*	*y*	***None Detected***		100% qu,ma
35822			*3-2*	*black tar and black felt*	*y*	***None Detected***	30% ce	70% qu,bi
35822			*3-3*	*tan insulation*	*y*	***None Detected***	15% ce	85% qu,pe,ca
35822			*3-4*	*brown insulation*	*y*	***None Detected***	100% ce	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

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Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
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bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Justin Cox
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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Phone # 307-262-9309
Fax #

Customer Project:
2025-061, 25-061, Casper College - Career Studies

Turnaround Time:
2 Days

CA Labs Project #:
CAL25042953AS

Date: 4/25/2025
Samples Rec'd: 4/24/25 10:30AM
Date Of Sampling: None Given
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
35822			*3-5*	*yellow foam insulation*	*y*	***None Detected***		100% qu,ot
35823	25-061-4		*4-1*	***Roof**/ white vinyl covering*	*y*	***None Detected***		100% qu,ma
35823			*4-2*	*black tar and black felt*	*y*	***None Detected***	33% ce	67% qu,bi
35823			*4-3*	*tan insulation*	*y*	***None Detected***	17% ce	83% qu,pe,ca
35823			*4-4*	*brown insulation*	*y*	***None Detected***	100% ce	
35823			*4-5*	*yellow foam insulation*	*y*	***None Detected***		100% qu,ot
35824	25-061-5		*5-1*	***Roof**/ white vinyl covering*	*y*	***None Detected***		100% qu,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Justin Cox
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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Customer Project:
2025-061, 25-061, Casper College - Career Studies

Turnaround Time:
2 Days

CA Labs Project #:
CAL25042953AS

Date: 4/25/2025
Samples Rec'd: 4/24/25 10:30AM
Date Of Sampling: None Given
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
35824			*5-2*	*black tar and black felt*	*y*	***None Detected***	30% ce	70% qu,bi
35824			*5-3*	*tan insulation*	*y*	***None Detected***	15% ce	85% qu,pe,ca
35824			*5-4*	*brown insulation*	*y*	***None Detected***	100% ce	
35824			*5-5*	*yellow foam insulation*	*y*	***None Detected***		100% qu,ot
35825	25-061-6		*6-1*	***Roof**/ white vinyl covering*	*y*	***None Detected***		100% qu,ma
35825			*6-2*	*black tar and black felt*	*y*	***None Detected***	30% ce	70% qu,bi
35825			*6-3*	*tan insulation*	*y*	***None Detected***	17% ce	83% qu,pe,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Justin Cox
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

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Samples Rec'd: 4/24/25 10:30AM
Date Of Sampling: None Given
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
35825			*6-4*	*brown insulation*	*y*	***None Detected***	100% ce	
35825			*6-5*	*yellow foam insulation*	*y*	***None Detected***		100% qu,ot
35826	25-061-7		*7-1*	***Roof**/ white vinyl covering*	*y*	***None Detected***		100% qu,ma
35826			*7-2*	*black tar and black felt*	*y*	***None Detected***	33% ce	67% qu,bi
35826			*7-3*	*tan insulation*	*y*	***None Detected***	10% ce	90% qu,pe,ca
35826			*7-4*	*brown insulation*	*y*	***None Detected***	100% ce	
35826			*7-5*	*yellow foam insulation*	*y*	***None Detected***		100% qu,ot

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
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Date Of Sampling: None Given
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
35827	25-061-8		*8-1*	***Roof**/ white vinyl covering*	*y*	***None Detected***		100% qu,ma
35827			*8-2*	*black tar and black felt*	*y*	***None Detected***	30% ce	70% qu,bi
35828	25-061-9		*9-1*	***Roof**/ white vinyl covering*	*y*	***None Detected***		100% qu,ma
35828			*9-2*	*black tar and black felt*	*y*	***None Detected***	33% ce	67% qu,bi
35829	25-061-10		*10-1*	***Roof**/ white vinyl covering*	*y*	***None Detected***		100% qu,ma
35829			*10-2*	*black tar and black felt*	*y*	***None Detected***	35% ce	65% qu,bi
35830	25-061-11		*11-1*	***Roof**/ gray sealant*	*y*	***None Detected***		100% qu,gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Justin Cox
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Scott Mortimer
Scott Environmental Services, LLC
PO Box 2478
Mills, WY 82644

Phone # 307-262-9309
Fax #

Customer Project:
2025-061, 25-061, Casper College - Career Studies

Turnaround Time:
2 Days

CA Labs Project #:
CAL25042953AS

Date: 4/25/2025
Samples Rec'd: 4/24/25 10:30AM
Date Of Sampling: None Given
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
35831	25-061-12		*12-1*	***Roof**/ gray sealant*	*y*	***None Detected***		100% qu,gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Justin Cox
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs

Crisp Analytical Laboratories, L.L.C
1929 Old Denton Rd.
Carrollton, TX 75006

Phone: 972-272-2754
Fax: 972-272-2798
Mobile: 214-564-8366

Chain of Custody

Client Name:	Scott Environmental Services, LLC	**CA Labs job**	**CAL#** 25042953
Client Address:	P.O. Box 2478 Mills, WY 82644	Billing Address: (if different)	
phone number:	307-262-9309	P.O. #:	25-061
fax number:	N/A	Project Name:	Casper College - Career Studies
Send Reports to:	seswyoming@gmail.com Scott	Project Number:	2025-061

Total # Samples Submitted:	**Total # Samples to be Analyzed:**	**Material Matrix:**
12	12	Air (Bulk) Water

Asbestos: *please call ahead for availability of all rush and/or after hours samples.*

TEM	**TA Time**	**PLM**	**TA Time**	**Optical / IAQ**	**TA Time**
Circle analysis and TA time		*Circle analysis and TA time*	*2 hour*	**PCM**: NIOSH 7400	Note TAT
AHERA	*4 hour*	Improved	4 hour	Allergen Particle:	24 hour
EPA Level II	8 hour	Interim	8 hour	tape/bulk/swab	2 days
Drinking Water	16 hour		16 hour	Cyclex-d cassettes	3 days
Wipe	24 hour	**AHERA**	24 hour	Air-o-cell cassettes	5-10 days
Micro-vac	2 days		(2 days)	Anderson cultures	Specify
NIOSH 7402	3 days	Point Count -	3 days	Bulk/swab cultures	Mold or
Chatfield Bulk	5 days	(NESHAPS)	5 days	Bacteria cultures	bacteria

Please indicate appropriate turn around time. (minimum turnaround 3 Days for Lead TCLP and water)

Lead: *Circle analysis and TA time*

10:30AM

APR 24 2025

Andrew Sikes

CA Labs

Crisp Analytical Laboratories, L.L.C
1929 Old Denton Rd.
Carrollton, TX 75006

Phone: 972-272-2754
Fax: 972-272-2798
Mobile: 214-564-8366

Chain of Custody

CAL2504129S3

Sample Information: 1-7 Roof Cove (membrane, Insulation, TAR)
8-10 Roof Side walls (membrane, Adhesive Tape
11-12 White Sealant

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L)
25-061-1	Roof	4/23/2025 1000	Bulk
-2	Roof	4/23/2025 1015	
-3	Roof	4/23/2025 1030	
-4	Roof	4/23/2025 1045	
-5	Roof	4/23/2025 1100	
-6	Roof	4/23/2025 1115	
-7	Roof	4/23/2025 1130	
25-061-8	Roof	4/23/2025 1015	
9	Roof	4/23/2025 1030	
10	Roof	4/23/2025 1130	
25-061-11	Roof	4/23/2025 1145	
-12	Roof	4/23/2025 1200	

Custody Information:

Samples relinquished: [signature] 4/23/2025
Signature / Date / Time

Samples received:
Signature / Date / Time

Samples relinquished:
Signature / Date / Time

Samples received:
Signature / Date / Time

APR 24 2025
Andrew Sikes

PHOTOS

The Casper College Career Studies building (subject property) is on the south side of the college campus.

Bulk Sampling Locations (roof):

25-061-1 (SW quadrant)

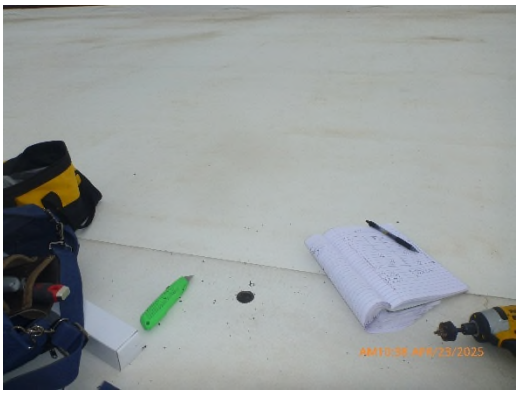
25-061-2 (S. central)

25-061-3 (E. central)

25-061-4 (W. central)

Bulk Sampling Locations (roof):

25-061-5 (NW quadrant)



25-061-6 (N. Central)

25-061-7 (NE quadrant)

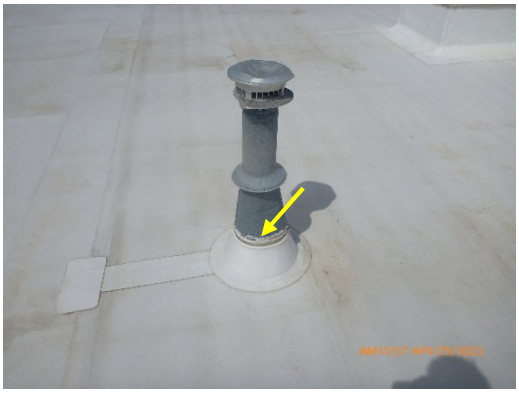
Bulk Sampling Locations (roof sidewalls):

25-061-8 (S. central)

25-061-9 (W. central)

25-061-10 (NE quadrant)

Bulk Sampling Locations (white sealant):



25-061-11 (E. central)

25-061-12 (central)


25-061-7
25-061-10
25-061-3
25-061-11
25-061-6
25-061-12
25-061-8
25-061-2
25-061-5
25-061-9
25-061-4
25-061-1
#3
#2
#1

RESUMES OF PROJECT PERSONNEL

SCOTT ENVIRONMENTAL SERVICES, LLC

J. Scott Mortimer

Owner

Technical Expertise:

- Project Management
- Air Quality Compliance Testing
- Ambient Air Quality Testing
- Indoor Air Quality Testing
- Source Emissions Testing
- Continuous Emission Monitor Testing
- QA/QC Procedures
- Hazardous Waste Characterization & Sampling
- Hazardous Waste Material Trial Burns
- Portable Analyzer Operating and Testing
- Sample Analysis

Technical Experience:

Mr. Mortimer has worked in the environmental services industry since 1987. His experience includes: sample preparation, sample analysis, environmental sampling, sampling protocol preparation, job planning, project management and reporting. Mr. Mortimer has served his clients in both domestic, as well as, international venues.

Mr. Mortimer was a major shareholder in Western Environmental Services and Testing, Inc. from 2004 until 2018. Western Environmental is a multifaceted environmental firm with heavy emphasis on air quality compliance sampling. As the Chief Operations Officer, Mr. Mortimer was directly involved with all aspects of the business. Stationary Source Sampling, Leak Detection and Repair Programs, Indoor Air Quality Sampling, Mold Inspection, Mold Sampling, Radon Sampling, Environmental Assessments for Commercial Property Transactions, Phase 1 Site Assessments and an environmental laboratory. During his tenure he was charged with overseeing all operational activities including; site assessment, sampling protocol preparation, field sampling, sample collection, sample transport, sample result interpretation, client interaction, regulatory personnel interaction as well as formal reporting of the sampling results.

Mr. Mortimer was employed by Western Environmental Services and Testing, Inc. for 30 years. Initially hired in 1987 as a soil and water sample prep technician and advancing to Chief Operations Officer. Throughout his 30 year career Mr. Mortimer has consulted hundreds of clients concerning environmental matters. He has successfully utilized many scientific disciplines

	and scientific sampling methodology in order to accurately qualify, quantify and report environmental concerns for his clients. Mr. Mortimer maintained ambient air quality sampling stations in several regions of the United States. He has sampled air, soil, water, mold and asbestos utilizing U.S. Environmental Protection Agency (EPA), National Institution for Occupational Safety and Health (NIOSH) and ASTM International sampling methodology and sampling techniques. He has completed environmental projects for various industries including; Hazardous Waste Incinerators, Municipal Waste Incinerators, Medical Waste Incinerators, Oil & Gas Refineries, Semi-conductor Manufacturer Facilities, Cement Kilns, Metallic and Non-Metallic Mineral Facilities, Fiberglass Manufacturing Plants, Titanium Manufacturing Facilities, Ethanol Plants, Residential Real Estate and Commercial Real Estate.
Education:	A.A.S., Business Administration, Casper Community College
	Inspecting Buildings For Asbestos Containing Materials
Certification:	Certified Visual Emissions Evaluator
	Residential Radon Measurement Certification Course OSHA 40-Hour Safety Training Course H_2S Safety Training MSHA Safety Training Course Qualified Source Test Individual, (QSTI, National Professional Qualification) Fire Extinguisher Training HAZWOPER 8 Hour Refresher Defensive Driver Training Safeland USA/PEC
Professional Affiliations:	Air and Waste Management Association
	Indoor Air Quality Association
	Source Evaluation Society
Teaching:	Lectured in short course "Performing and Observing Source Sampling". Conducted source sampling and ambient air sampling training for regulatory and industrial personnel at various locations.

CHC Training, LLC. is now BetterCertify, LLC. (Effect. 5/1/2024)

BetterCertify
Certification & Compliance Solutions
www.bettercertify.com
303.412.6360
855.60.CERTIFY

1775 West 55th Avenue
Denver, Colorado 80221
United States of America

Certificate of Achievement

This certificate is awarded to:

J. Scott Mortimer

In recognition of satisfactory completion of the EPA-approved annual asbestos refresher training (online-asynchronous) provided in accordance with the Model Accreditation Plan (MAP) (40 CFR Part 763, Subpart E, Appendix C) and AHERA (Subchapter II) of the Toxic Substances Control Act (TSCA) entitled:

Building Inspector

Course Completion Date: February 7, 2025
Examination Date: February 7, 2025

Expiration Date: February 7, 2026
Course Hours: 4.0

Verify Credential

Danaya N. Wilson
CEO & Training Program Manager

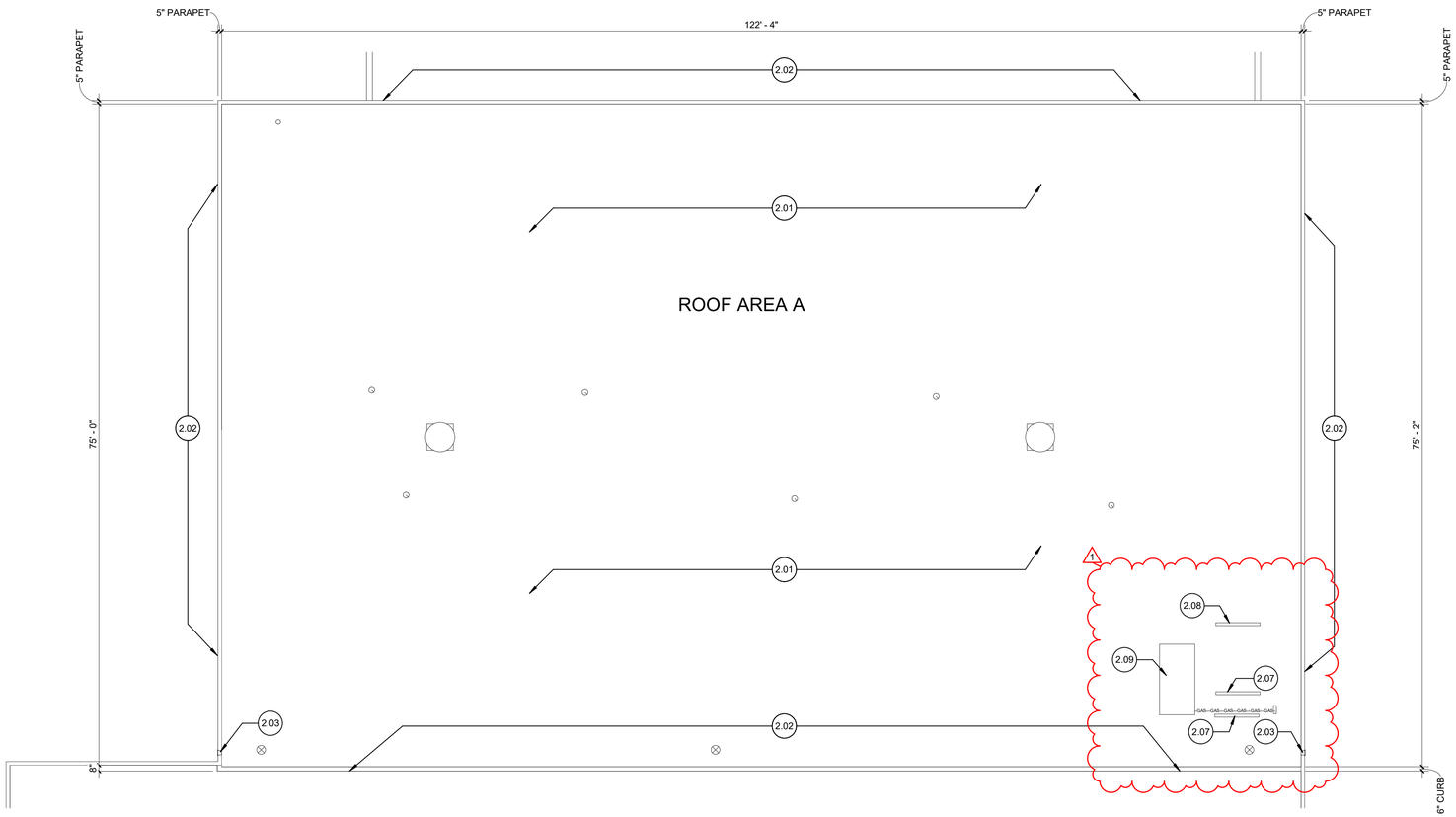
Credential License ID:
133085646

BetterCertify
Compliance
Quality Safety
Accredited Alumni
Est. 2007

Aaron I. Hix
Instructor

Certificate No.:
R25-0179-AI-O

Renew Credential



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1 A101 DEMOLITION PLAN - ROOF AREA A

SCALE: 1/8" = 1'-0"

ROOF SCHEDULE

ROOF AREA	APPROX. AREA	EXISTING ROOF CONSTRUCTION	SCOPE OF WORK
ROOF AREA A	9197 SF	FULLY ADHERED MEMBRANE OVER 1/2" WOOD FIBER BD. OVER 1" POLYISO OVER B.U.R. OVER 1/2" PERLITE OVER 1/2" WOOD FIBER BD. ON SLOPED CONCRETE DECK.	REMOVE AND DISPOSE OF EXISTING ROOF ASSEMBLY TO SLOPED CONCRETE DECK; PROVIDE AND INSTALL FULLY ADHERED MEMBRANE OVER FULLY ADHERED 1/2" GYP. COVER BOARD OVER FULLY ADHERED 2 LAYERS OF 1-1/2" POLYISO INSULATION OVER VAPOR BARRIER ON SLOPED CONCRETE DECK.
ROOF AREA B	7846 SF	FULLY ADHERED MEMBRANE OVER 1/2" WOOD FIBER BD. OVER 1" POLYISO OVER B.U.R. OVER 1/2" PERLITE OVER 1/2" WOOD FIBER BD. ON SLOPED CONCRETE DECK.	REMOVE AND DISPOSE OF EXISTING ROOF ASSEMBLY TO SLOPED CONCRETE DECK; PROVIDE AND INSTALL FULLY ADHERED MEMBRANE OVER FULLY ADHERED 1/2" GYP. COVER BOARD OVER FULLY ADHERED 2 LAYERS OF 1-1/2" POLYISO INSULATION OVER VAPOR BARRIER ON SLOPED CONCRETE DECK.
ROOF AREA C	10172 SF	FULLY ADHERED MEMBRANE OVER 1/2" WOOD FIBER BD. OVER 1" POLYISO OVER B.U.R. OVER 1/2" PERLITE OVER 1/2" WOOD FIBER BD. ON SLOPED CONCRETE DECK.	REMOVE AND DISPOSE OF EXISTING ROOF ASSEMBLY TO SLOPED CONCRETE DECK; PROVIDE AND INSTALL FULLY ADHERED MEMBRANE OVER FULLY ADHERED 1/2" GYP. COVER BOARD OVER FULLY ADHERED 2 LAYERS OF 1-1/2" POLYISO INSULATION OVER VAPOR BARRIER ON SLOPED CONCRETE DECK.

GENERAL ROOF DEMOLITION NOTES

1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING SELECTIVE DEMOLITION ITEMS.
2. DIMENSIONS & QUANTITIES ARE APPROXIMATE & SHOWN FOR GENERAL INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD MEASURE & VERIFY EXISTING CONDITIONS.
3. THIS SHEET REPRESENTS CONDITIONS AS OBSERVED IN THE FIELD. ANY DISCOVERIES NOT DOCUMENTED HEREIN SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO DEMOLITION AT THESE LOCATIONS FOR VERIFICATION.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIARIZED WITH PROJECT & EXISTING CONDITIONS PRIOR TO SUBMITTING BID &/OR PERFORMING ANY WORK.
5. CONTRACTOR SHALL INSPECT THE UNDERSIDE OF THE ROOF DECK & TAKE PRECAUTIONS TO AVOID DAMAGING CONDUIT, DUCTWORK, OR ANY OTHER BUILDING SYSTEMS ATTACHED BENEATH THE DECK.
6. THE CONTRACTOR IS TO PROVIDE ALL DEMOLITION INCIDENTAL TO OR REQUIRED FOR NEW & RENOVATION CONSTRUCTION WHETHER OR NOT IT IS SPECIFICALLY NOTES, INCLUDING, BUT NOT LIMITED TO, ALL WORK THAT MIGHT REASONABLY BE REQUIRED TO PREP FOR SPECIFIED FINISHES.
7. PROTECT ALL ITEMS / ELEMENTS NOT SPECIFIED AS BEING DEMOLISHED. IF EXISTING ELEMENTS ARE DAMAGED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PATCH, REPAIR, OR REPLACE ITEMS / ELEMENTS TO REMAIN AT NO COST TO THE OWNER.
8. OWNER HAS FIRST RIGHT OF REFUSAL FOR ALL MATERIALS & FINISHES. CONTRACTOR SHALL VERIFY WITH OWNER PRIOR TO COMMENCEMENT OF DEMOLITION.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DISPOSE OF ALL DEMOLISHED ITEMS, UNLESS NOTED TO BE SALVAGED, IN A PROPER MANNER ACCORDING TO THE LOCAL & FEDERAL REGULATIONS.

ROOF PLAN LEGEND

- CURB MOUNTED EXHAUST FAN OR VENTILATOR. SEE DETAIL 1/A410.
- VENT THROUGH ROOF. SEE DETAIL 2/A410 - 3/A410.
- HOT FLUE. SEE DETAIL 4/A410.
- PRIMARY ROOF DRAIN.
- OVERFLOW ROOF DRAIN.
- THROUGH WALL SCUPPER. SEE DETAIL 5/A410.
- GAS GAS GAS GAS — EXISTING GAS LINE TO REMAIN.

XXX KEYNOTES

2.01 REMOVE AND DISPOSE OF MEMBRANE ROOF ASSEMBLY TO SLOPED CONCRETE DECK; SEE ROOFING SCHEDULE.

2.02 REMOVE AND DISPOSE OF EXISTING PRE-FINISHED METAL COPING. INSPECT WOOD NAILERS AND NOTIFY ARCHITECT/OWNER OF DEFICIENT NAILERS.

2.03 REMOVE AND REPLACE EXISTING THROUGH WALL SCUPPER BOX.

2.07 PROTECT AND PRESERVE EXISTING EQUIPMENT CURB. PREPARE FOR EQUIPMENT RELOCATION MOUNTING.

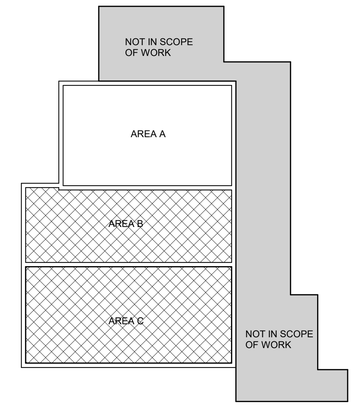
2.08 REMOVE AND SALVAGE EXISTING EQUIPMENT CURB. RELOCATED AS NEEDED TO SECURE RELOCATED ROOFTOP EQUIPMENT.

2.09 SECURE MECHANICAL CONTRACTOR TO DISCONNECT ROOFTOP EQUIPMENT AND RELOCATED PER RENNOVATION PLAN.

KEY PLAN

N

ACTIVE ROOF ADJACENT ROOF



CASPER COLLEGE CAREER STUDIES ROOF REPLACEMENT

OWNER

Casper College

125 COLLEGE DR.
CASPER, WY 82601
307-268-2492
mitchell.masters@caspercollege.edu
MITCHELL MASTERS
(FACILITIES OPERATIONS)

ARCHITECT

ARETE DESIGN GROUP

228 E. BRUNDAGE ST. | SUITE 100
SHERIDAN, WY 82801
307.672.8270
TIMJ@ARETEDESIGN GROUP
TIM JAGER

LICENSED ARCHITECT LEVI I VAN BUSKIRK B-0292 1/1/21 STATE OF WYOMING

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM #2	4.29.25

PROJECT NUMBER:
25-12

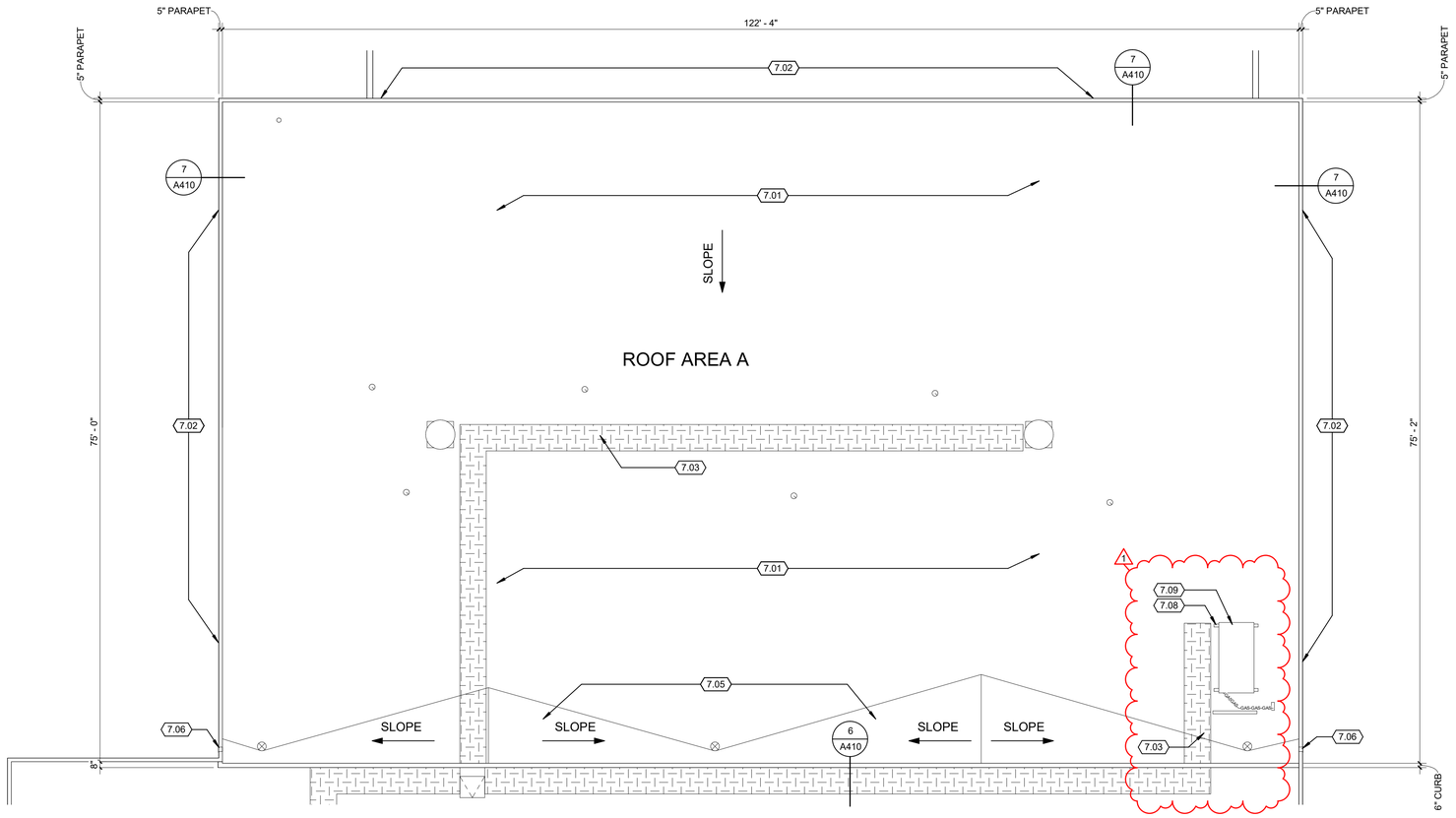
DATE:
MARCH 28, 2025

ISSUE:
CONSTRUCTION DOCUMENTS

DEMOLITION PLAN - ROOF AREA A

A101

4/29/2025 4:00:28 PM



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1 A401 RENOVATION PLAN - ROOF AREA A

SCALE: 1/8" = 1'-0"

ROOF SCHEDULE

ROOF AREA	APPROX. AREA	EXISTING ROOF CONSTRUCTION	SCOPE OF WORK
ROOF AREA A	9197 SF	FULLY ADHERED MEMBRANE OVER 1/2" WOOD FIBER BD. OVER 1" POLYISO OVER B.U.R. OVER 1/2" PERLITE OVER 1/2" WOOD FIBER BD. ON SLOPED CONCRETE DECK.	REMOVE AND DISPOSE OF EXISTING ROOF ASSEMBLY TO SLOPED CONCRETE DECK; PROVIDE AND INSTALL FULLY ADHERED MEMBRANE OVER FULLY ADHERED 1/2" GYP. COVER BOARD OVER FULLY ADHERED 2 LAYERS OF 1-1/2" POLYISO INSULATION OVER VAPOR BARRIER ON SLOPED CONCRETE DECK.
ROOF AREA B	7846 SF	FULLY ADHERED MEMBRANE OVER 1/2" WOOD FIBER BD. OVER 1" POLYISO OVER B.U.R. OVER 1/2" PERLITE OVER 1/2" WOOD FIBER BD. ON SLOPED CONCRETE DECK.	REMOVE AND DISPOSE OF EXISTING ROOF ASSEMBLY TO SLOPED CONCRETE DECK; PROVIDE AND INSTALL FULLY ADHERED MEMBRANE OVER FULLY ADHERED 1/2" GYP. COVER BOARD OVER FULLY ADHERED 2 LAYERS OF 1-1/2" POLYISO INSULATION OVER VAPOR BARRIER ON SLOPED CONCRETE DECK.
ROOF AREA C	10172 SF	FULLY ADHERED MEMBRANE OVER 1/2" WOOD FIBER BD. OVER 1" POLYISO OVER B.U.R. OVER 1/2" PERLITE OVER 1/2" WOOD FIBER BD. ON SLOPED CONCRETE DECK.	REMOVE AND DISPOSE OF EXISTING ROOF ASSEMBLY TO SLOPED CONCRETE DECK; PROVIDE AND INSTALL FULLY ADHERED MEMBRANE OVER FULLY ADHERED 1/2" GYP. COVER BOARD OVER FULLY ADHERED 2 LAYERS OF 1-1/2" POLYISO INSULATION OVER VAPOR BARRIER ON SLOPED CONCRETE DECK.

GENERAL ROOF PLAN NOTES

1. CONSERVE & PROTECT ALL AREAS NOT SCHEDULED FOR NEW WORK. WHERE DAMAGE OCCURS TO AREAS NOT SCHEDULED FOR NEW WORK DAMAGED AREAS / ITEMS / DEVICES SHALL BE REPAIRED / REPLACED BACK TO SIMILAR CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
2. DIMENSIONS & QUANTITIES ARE APPROXIMATE & SHOWN FOR GENERAL INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD MEASURE & VERIFY BEFORE ORDERING MATERIALS.
3. CONTRACTOR SHALL INSPECT THE UNDERSIDE OF THE ROOF DECK & TAKE PRECAUTIONS TO AVOID DAMAGING CONDUIT, DUCTWORK, OR ANY OTHER BUILDING SYSTEMS ATTACHED BENEATH THE DECK.
4. ALL DEMOLISHED ITEMS FROM THE EXISTING BUILDING TO BE REMOVED & DISPOSED OF FROM THE SITE IN ACCORDANCE WITH ALL STATE & LOCAL REGULATIONS.
5. ROOFING CONTRACTOR SHALL MONITOR THE FORECAST & PROVIDE A WATERTIGHT NIGHT SEAL AT ALL AREAS ABOVE CONDITIONED SPACES OPENED UP DURING THE DAY'S ROOFING ACTIVITIES.
6. REFER TO MECHANICAL FOR ALL MECHANICAL & PLUMBING ITEMS TO BE INSTALLED.
7. REFER TO ELECTRICAL FOR ALL ELECTRICAL ITEMS TO BE INSTALLED.
8. PATCH & INFILL ALL MECHANICAL, PLUMBING, & ELECTRICAL WORK THAT IS OUTLINED IN THEIR SHEETS, EVEN IF NOT FULLY REFERENCED IN THE ARCHITECTURAL SHEETS.

ROOF PLAN LEGEND

- CURB MOUNTED EXHAUST FAN OR VENTILATOR. SEE DETAIL 1/A410.
- VENT THROUGH ROOF. SEE DETAIL 2/A410 - 3/A410.
- HOT FLUE. SEE DETAIL 4/A410.
- PRIMARY ROOF DRAIN.
- OVERFLOW ROOF DRAIN.
- THROUGH WALL SCUPPER. SEE DETAIL 5/A410.
- -GAS---GAS---GAS- EXISTING GAS LINE TO REMAIN.

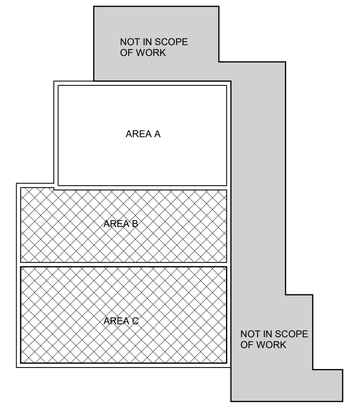
X.XX KEYNOTES

7.01	PROVIDE AND INSTALL ROOF ASSEMBLY. SEE ROOFING SCHEDULE.
7.02	PROVIDE AND INSTALL PRE MANUFACTURED EDGE METAL. SEE DETAILS.
7.03	PROVIDE AND INSTALL ADHERED WALKWAY PATH AS SPECIFIED.
7.05	PROVIDE AND INSTALL OVERLAY CRICKET, SLOPE 1/4"/FT.
7.06	PROVIDE AND INSTALL NEW SCUPPER SLEEVE AND TRIM RING. SEE DETAIL 5/A410.
7.08	PLACE SALVAGED EQUIPMENT CURB AS NEEDED TO MOUNT RELOCATED ROOFTOP EQUIPMENT.
7.09	SECURE MECHANICAL CONTRACTOR TO DISCONNECT AND RELOCATED ROOFTOP EQUIPMENT. RECONNECT EQUIPMENT TO NECESSARY UTILITIES.

KEY PLAN

N

ACTIVE ROOF ADJACENT ROOF



CASPER COLLEGE CAREER STUDIES ROOF REPLACEMENT

OWNER

Casper College

125 COLLEGE DR.
CASPER, WY 82601
307-268-2492
mitchell.masters@caspercollege.edu
MITCHELL MASTERS
(FACILITIES OPERATIONS)

ARCHITECT

ARETE DESIGN GROUP

228 E. BRUNDAGE ST. | SUITE 100
SHERIDAN, WY 82801
307.672.8270
TIMJ@ARETEDESIGN GROUP
TIM JAGER

LICENSED ARCHITECT
LEVI VAN BUSKIRK
B-0292
1/1/21
STATE OF WYOMING

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM #2	4.29.25

PROJECT NUMBER:
25-12

DATE:
MARCH 28, 2025

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CONSTRUCTION DOCUMENTS

RENOVATION PLAN - ROOF AREA A

A401

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