Department of Public Works
Engineering Division
Robert F. Phillips, P.E., City Engineer

City-County Building, Room 115
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Fax: (608)264-9275
engineering@cityofmadison.com
www.cityofmadison.com/engineering

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Principal Engineer 2
Gregory T. Fries, P.E.
Principal Engineer 1
Christina M. Bachmann, P.E.
Eric L. Dundee, P.E.
John S. Fahrney, P.E.
Christopher J. Petykowski, P.E.
Facilities & Sustainability
Jeanne E. Hoffman, Manager
Operations Manager
Kathleen M. Cryan
Mapping Section Manager
Eric T. Pederson, P.S.
Financial Manager
Steven B. Danner-Rivers

July 28, 2016

NOTICE OF ADDENDUM
ADDENDUM 1

CONTRACT NO. 7347 - FIRE STATION 3 – ROOF REPLACEMENT

Revise and amend the contract document(s) for the above project as stated in this addendum, otherwise, the original document shall remain in effect.

I. Section D: Special Provisions

A. Change Exhibit C to read "Exhibit B" and change 1 page of floor plans to read "six (6) pages of plans and details.
B. Add Exhibit AA - 107.4 "Contractors Liability Insurance" (See attached Exhibit A) and 107.4(d) "Contractors Umbrella Liability Insurance" (See attachment Exhibit A)
C. Add Exhibit SP-3KB – revised tapered insulation drawing dated 7/8/2016.
D. Add Exhibit PT-1KW – revised perimeter termination dated 7/24/2014.
E. Add Exhibit AES – add electrical sleeve and flashing for future photovoltaic system.
F. Add Exhibit AEA – A&A Environmental, Inc. – assessment of original roofing materials.

II. Specifications

A. Ethylene Propylene Diene Monomer (EPDM) Roofing
1. Part 1 General Section 2.02 Roofing System Description
a. A, 1, change "ballasted" to "fully adhered"
b. B, 2, change "mechanically attached" to "adhesive attached"
2. Add "Safety Pro" roof hatch as an approved equal.

III. Plans

B. See revised Spec Products SP-3KB tapered insulation drawing dated 7/8/2016.
C. See revised perimeter termination drawing PT-1KW dated 7/24/2014 - "Termination with Reglet Counter flashing and Termination Bar" and note that this shall terminate as shown with a sealant joint just under the cap stone which will match the height of the existing termination.

IV. Proposal Page

A. See revised proposal page on Bid Express – Contract No. 7347
1. Note that there will be 7 existing roof penetrations to patch and roof over and a line item for these has been added to the proposal page, including a space for unit cost entry. These penetrations will be marked by CoM Engineering Operations.
2. Note that there has been an electrical sleeve added to the drawings for future photovoltaic system and a line item for this has been added to the proposal page.

V. **Questions & Answers**

A. Question – Does the City of Madison (CoM) want to get bids direct from plumbing contractors for the two overflow roof drains and provide the roofing contractors with the name of the plumbing contractor to use?

Answer – No. The CoM wants the roofing contractor to contract with the plumbing contractor to do all of the work associated with the overflow roof drains and include the work as part of the lump sum roofing contract.

B. Question – How is the roofing contractor to work under the photovoltaic system?

Answer – CoM Engineering Operations will disconnect the photovoltaic system so that the contractor can move it out of the way to install the new roof, add an additional slip sheet of EPDM, and place the system back to its original location. The CoM Engineering Operations will then re-connect the system.

Please acknowledge this addendum on page E1 of the contract documents and/or in Section E: Bidder's Acknowledgement on Bid Express.

Electronic version of these documents can be found on the Bid Express web site at:

http://www.bidexpress.com

If you are unable to download plan revisions associated with the addendum, please contact the Engineering office at 608-266-4751 receive the material by another route.

For Robert F. Phillips, P.E., City Engineer

EXHIBIT AA
FIRE STATION 3

107.4 Contractor's Liability Insurance: In addition the insurance requirements listed in this section Contractor must carry the following insurance: Contractor's Pollution Liability Insurance. Contractor shall procure and maintain Contractor's pollution liability insurance coverage for any and all losses arising from or in any way related to pollution conditions, both sudden and accidental and gradual, which arise from Contractor's operations, whether directly or indirectly, or that are in any other way related to Contractor's operations, whether such operations be by Contractor, its subcontractor's or anyone directly or indirectly employed by any of them. The pollution liability insurance policy shall contain minimum liability limits of $2,000,000 per loss, $4,000,000 aggregate. Liability limits shall be dedicated to the losses described herein and said limits shall not be eroded by the addition of any other party or entity not in conformance with this contract.

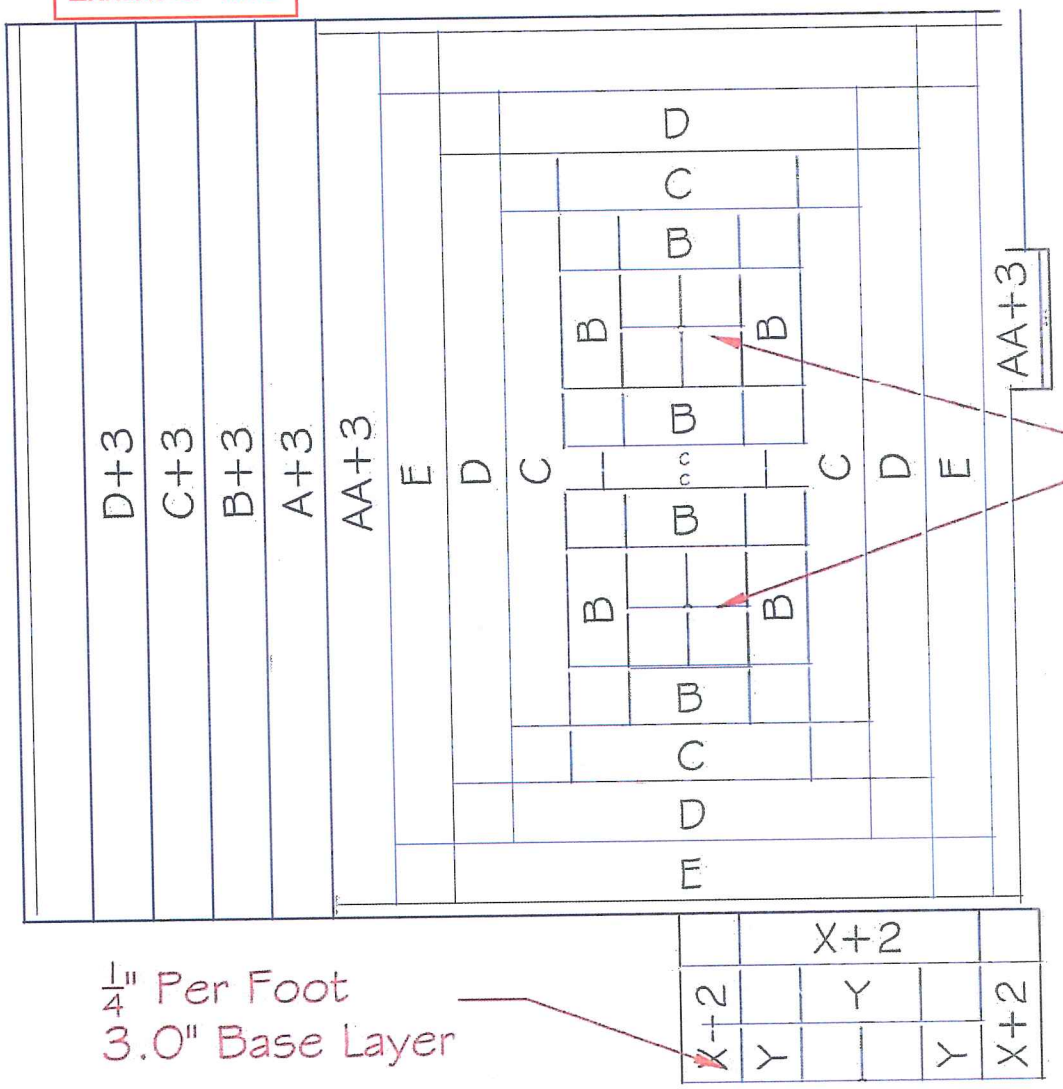
The pollution liability insurance policy shall contain or be endorsed to include coverage for the following: (i) bodily injury (including death), property damage and environmental cleanup costs, both on-site and off-site; (ii) transportation of any waste, including loading/unloading, from the site to the final disposal location, with all such disposal locations being scheduled as non-owned disposal sites for coverage under this policy.

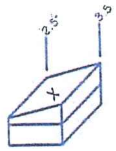
The pollution liability insurance policy shall: (i) be primary and not contributory as to any coverage of the City; (ii) contain an appropriate cross-liability clause insuring the City against any loss of damage to the City or the City's property resulting from any acts or omissions of Contractor, its officers, employees, agents, servants, of subcontractors; (iii) name the City as an additional insured (the addition of any other party and/or entity to the policy shall require the City's prior written consent); (iv) remain in effect for the life of this Agreement and at least two (2) years beyond; (v) not be cancelled, modified, or terminated until the City has received not less than 30 days prior written notice thereof.

107,4(d) Contractor's Umbrella Liability Insurance to be adjusted as follows: The Contractor shall procure and maintain during the life of the Contract umbrella Liability coverage at least as broad as the underlying Commercial General Liability, Business Automobile Liability and Employer's Liability with minimum limits of $10,000,000 per occurrence and aggregate.

A B C D E F G H J k L

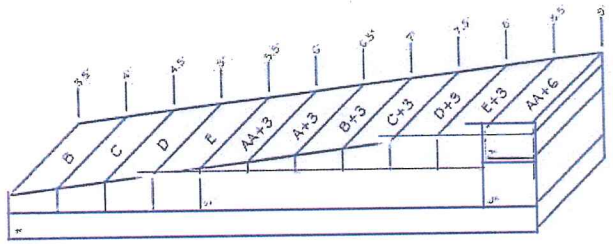
Exhibit SP-3KB





Sump Detail
1/4" Per Foot
2.0" Base Layer

Sump is 1/4" Per Foot 8'x8'
Tapered Starts @ 1.5"
and Slopes @ 1/8" Per Foot
2.0" Bao« Layer



Tapered Detail
1/6" "er "oot
2.0" Base Layer

1/4" Per Foot
3.0" Base Layer

SP-3KB

J

FOR BIDDING PURPOSES ONLY

DRAWN BY: Kyle Brueckner DATE: 7—8—2016

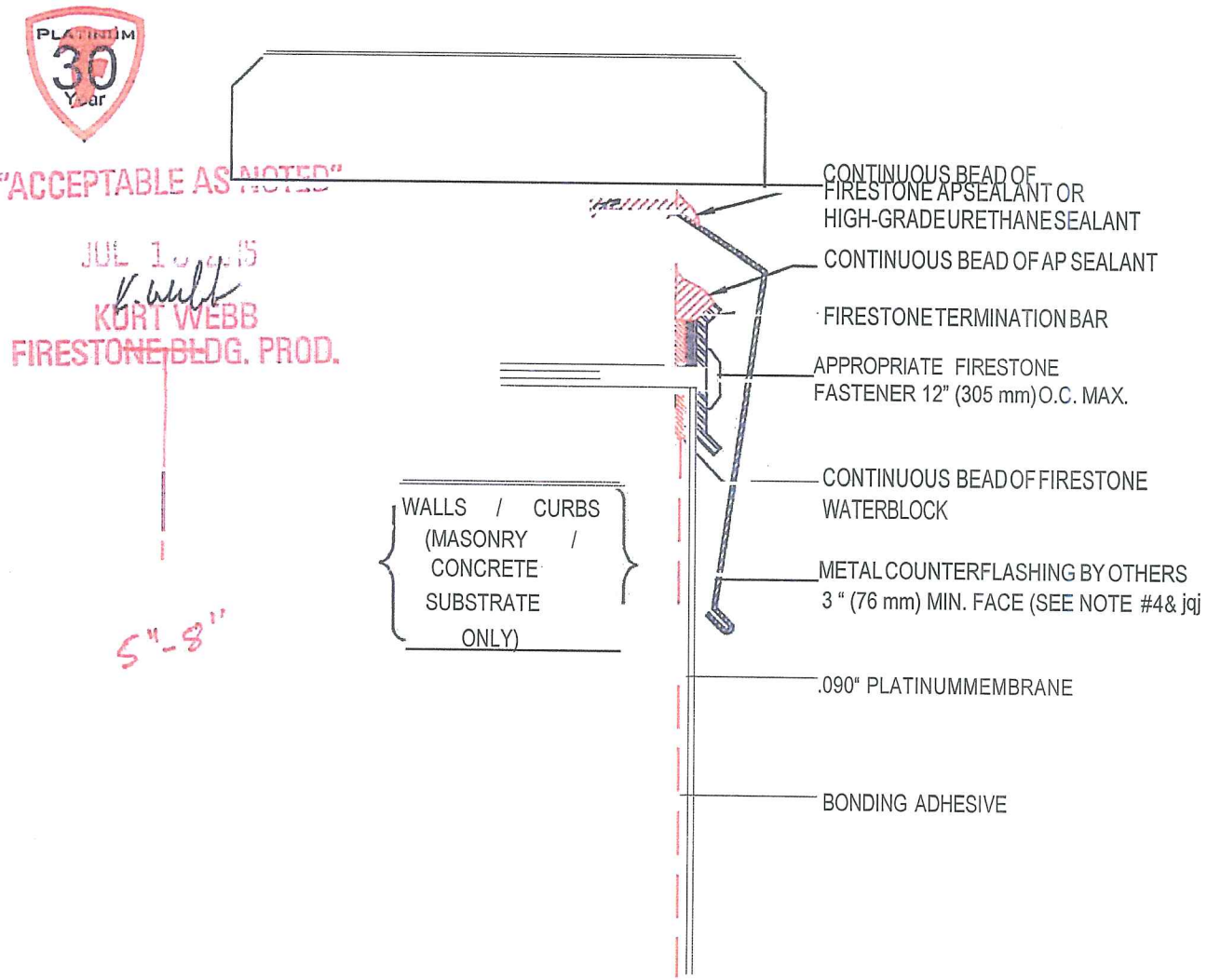
PROJECT NAME: Fire Station g3
SPEC PRODUCTS JOB :16—WI—0159 V1
LOCATION: Modison, WI

BID DATE: 6—27—2016
PANELS: XY
MIN. THICKNESS: Vory

SLOPE: 1/4" Per Foot
BASE LAYER: Vory
STRUCTURAL SLOPE:

SPEC Products inc.
SPEC PRODUCTS, INC.
1020 NORTH BRISTOL STREET
SUN PRAIRIE, WISCONSIN 53590

Exhibit PT-1KW



"ACCEPTABLE AS NOTED"

JUL 1 2015

K. Webb

KURT WEBB

FIRESTONE BLDG. PROD.

5"-8"

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. WATER BLOCK APPLIED AT THE RATE OF 10 LINEAR FEET PER TUBE.
3. REGULAR MAINTENANCE OF COUNTERFLASHING AND SEALANTS REQUIRED. NOT INCLUDED AS PART OF THE FIRESTONE WARRANTY.
4. METAL COUNTERFLASHING SHALL BE 24 GAUGE PRE-FINISHED STEEL OR .032' MIN. ALUMINUM FORMED WITH HEMMED LOWERED GE.
5. INSTALL FIRESTONE TERMINATION BAR WITH 1/4" (6 mm) GAP BETVYEEN ADJOINING SECTIONS.
6. TERMINATION BAR lvIUST BE CUT AT INSIDE AND OUTSIDE CORNERS. DO NOT BEND AROUND CORNERS.
7. TERMINATION BAR MUST BE FASTENED WITHIN 1" (25 mm) OF ALL SECTION ENDS.
8. INSTALL METAL WORK IN ACCORDANCE WITH CURRENT SMACNA RECOMMENDATIONS.

MASONRY AND CONCRETE WALLS / CURBS MUST BE WATERPROOFED AND MAINTAINED IN ORDER FOR ANY SURFACE MOUNTED TERMINATION TO BE EFFECTIVE.

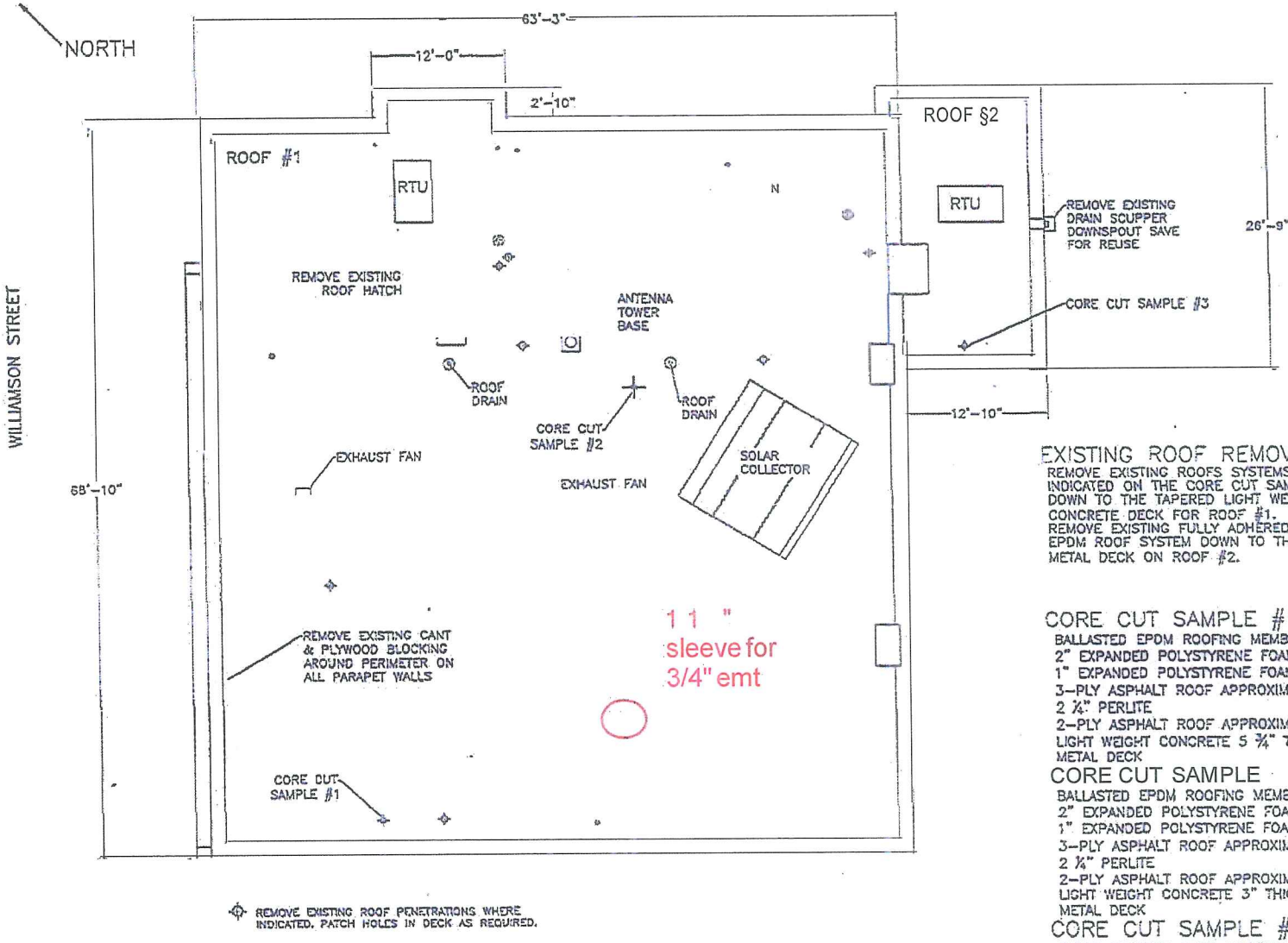
USE APPROPRIATE ~~-.?~~ TIE-IN

MAXIMUM WARRANTY 30 YEARS

Firestone BUILDING PRODUCTS HOBODY COVERS YOU BETTER." www.flrestonebpco.com	TERMINATION WITH REGLET COUI¥TERFLASHING AND TERMINATION BAR	ISSUE/ REVISION DATE: 7/24/2014	DETAIL NO. PT-1 k */
	R M BBER EB AR iz›" &L., ,T[b4 MM ACCEPTABLE SYSTEk4 •: PLATINUM	NOT TOSCALE	

PT-1KW

Exhibit AES



EXISTING ROOF REMOVAL

REMOVE EXISTING ROOFS SYSTEMS AS INDICATED ON THE CORE CUT SAMPLES DOWN TO THE TAPERED LIGHT WEIGHT CONCRETE DECK FOR ROOF #1. REMOVE EXISTING FULLY ADHERED EPDM ROOF SYSTEM DOWN TO THE METAL DECK ON ROOF #2.

CORE CUT SAMPLE #1

BALLASTED EPDM ROOFING MEMBRANE
2" EXPANDED POLYSTYRENE FOAM INSULATION
1" EXPANDED POLYSTYRENE FOAM INSULATION
3-PLY ASPHALT ROOF APPROXIMATELY ¾" THICK
2 ¼" PERLITE
2-PLY ASPHALT ROOF APPROXIMATELY ½" THICK
LIGHT WEIGHT CONCRETE 5 ¾" THICK (TO REMAIN)
METAL DECK

CORE CUT SAMPLE 2

BALLASTED EPDM ROOFING MEMBRANE
2" EXPANDED POLYSTYRENE FOAM INSULATION
1" EXPANDED POLYSTYRENE FOAM INSULATION
3-PLY ASPHALT ROOF APPROXIMATELY ¾" THICK
2 ¼" PERLITE
2-PLY ASPHALT ROOF APPROXIMATELY ½" THICK
LIGHT WEIGHT CONCRETE 3" THICK (TO REMAIN)
METAL DECK

CORE CUT SAMPLE #3

FULLY ADHERED EPDM ROOFING MEMBRANE
TYPE Y+2 POLY ISO INSULATION
2" POLYISO INSULATION
2" POLYISO INSULATION
METAL DECK

FtRE S"ATI ON j/3 ROOF L› EfviO LITIOid PLAN

1217 WILLIAMSON STREET. MADISON WI

Exhibit AEA

A & A Environmental, Inc.

N438J US Hwy 51, Poynette, WI 53955
Phone: (608) 240-1511, Mobile Phone: (608) 576-4960, Fax.- (608) 635-9717

Results

Dec bn 312014

Paul Stauffer
City of Madison
210 MLK, Jr, Blvd.
Madison, WI 53703-3342
(608) 266-43 66, Cell (605) 575-5270
P Stauffer@cityofmadison.com

RE: Fire Station #3, 1217 Williamson Street, Madison, WI 53703

On December IS, 2014 bulk samples were collected from the original roofing material under the rubber roof and white polystyrene insulation at Fires Station 03 located at 1217 Williamson Street in Madison, WI.

The bulk samples were collected and analyzed for asbestos content by polarized light microscopy (PLM). The following building materials were reported > 1°.fi.

1 . Bottom. layer of roofing felt paper.
2 Top layer of roofing felt paper.

It appears the original roof was recoated with two layers of roof felts. The roofing felts appear to be in non-Enable condition at this time.

The following building materials were bulk sampled and reported as no asbestos detected:

1. Perlite roof insulation
2. All layers of tar, coating the asbestos roof felts

Prior to removing the roof please refer to Did rules regarding removal, cutting, and disposal as well as DHS rules regarding notification, worker certification, and company certification.

A&A Environmental Inc.'s inspectors are only able to inspect open, safe, and accessible areas inside and outside of the building. Inaccessible suspect material may be hidden throughout this building. Any additional suspect materials discovered during the course of abatement/demolition/remodeling must be assumed to be A CIII until sampled by and EP A/State of Wisconsin certified asbestos inspector and proven negative.

If you have any questions concerning= this report on the sampling performed please feel free to contact me.

Sincerely,

Kim Sopha
President/Inspector #AII01851

Encl

CE LABS

ASBESTOS LABORATORY REPORT

Prepared fo r

A & A Environmental

PROJECT: 1217 Williamson St. ; AA 3803

CEI LAB CODE: A14-17 371

DATE ANALYZED : 12/22/J 4

DATE REPORTED: 4 2/23/14

TOTAL SAMPLES ANALYZED : 11

// SA51PLES >1% ASBESTOS : 4

TEL: 866-481-1412
www. c eilabs. com

Asbestos Report Summary

By: P OLA RIZING LIGHT MICROS COPY

PROJECT: 1217 VWilliamson St.; AA 3803

CEI LAB CODE: A14-17371

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82"/ 020

Clieni ID .	,+Layer- Lab.ID.	,– —.' Color.	- —" Sample Description	ASBESTOS -I?•'' %-
01	A1886589	Tan	Perlite (insulation)	None Detected
02	A1886590	Black	Roofing Tar	None Detected
03	A 86659	Back B own	Roofi g Fe	
04	A1886592	Black	Roodng Tar	None Detected
05	A 886593	Back B own	Roofing Fe	
06	A18B6594	Tan	Pedite (insulation)	None Detected
07	A18B6595	Black	Roofing Tar	None Detected
08	A 886596	Back B own	Roo£ng Fe	
09	A1886597	Black	Roofing Tar	None Detected
10	A1886598	Back B own	Roo1ng Fe I	•
11	A1886599	Black	Flashing	None Detected

ASBESTOS BULK ANALYSIS
By: POLARIZING LIGHTMICROSCOPY

Client: A & A Environmental
N4381 US Highway 51
Poynette, WI 53955

CEI Lab "Code: A14-17371
Date Received: 12—19-14
Date A nalyzed: 12-22-14
Oate Reported: 12—23-14

Project: 1217 Williamson it.; AA 3803

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
g1 A1886589	Per1ite (insulation)	Heterogeneous Tan Non-fibrous eound			65% 35%	Binder Vermiculite	None Detected
02 A1886590	Roofing Tar	Heterogeneous Black Non-fibrous eaund			100%	Ta r	None Detected
03 A1 B86591	Raof\ng Felt	Heterogeneous Black, Brown Fibrous Ba und	25%	Cellulose	50%	Tar	**25% Chrysotile**
04 A4 8B6592	Roofing Tar	He(erogeneous Blzck Non-fbrous Bound			100%	Tar	No ne Detected
05 A4 8B6593	Roofing Felt	Heterogeneous Black, Brown Fibrous Bound	25 %	Cellulose	50%	Tar	**25% Chrysotile**
06 A1886594	Perhte (insulation)	He lerogeneous Tan Non-fibrous Bound			65% 35%	Bender Vermiculite	None Detected
07 A1886595	Roofing Tar	Heterage Neous Black hon-fbrous Bound			100%	Tar	None Detected

ASBESTOS BULK ANALYSIS

By: POLA RIZtNG LIGHT MICROS COPY

Client: A & A Environmental
N4381 US Highway 51
Poynette, WI 53955

CEI Lab Code: A14-17371
Date Received: 12-19-14
Date Analyzed: 12-22-14
Date Reported: 12-23-14

Project: 1217 VWilliamson St. ; AA 3803

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
g8 AT 886596	Roofing FeJt	Heterogeneous Black,Brown	25%	Cellulose	50%	Tar	25% Chrysotile
09 A1 666597	Roofing Tar	HeTerogeneous Black Non-fbfous Bound			100%	Tar	None Detected
10 A18B659a	Roofing Felt	Heterogeneous Black, Brown Bound	25%	Cellulose	50%	Tar	25% Chrysotile
11 A18865."9	Flashing	Heterog°neous Black Non-fibrous Bound			90% 0%	Tar Silicates	None Detected

CEI LABS

LEGEND: Non-Anth = Non-Asbestiform Anthophylite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

The detection limit for the method is <1 % by visual estimation and 0.25% by 400 point counts or 0,1% by 1,000 point counts.

Due to the limitations of the EP.R 600 Method, nonfriabJe organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarizing fight microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM an alysis of dust and soil samples for asbestos is not covered under NVLAP accreditation.

CEI Labs, Inc. can perform positive stoo analysis if requested by customer. However, it is (he responsibility of the customer to determine if the samples grouped together are in fact the same tvoe of material and belono to the same homogeneous area

ANALYST: Greg Ruff

APPROVED BY: Tianbao Bai, Ph.D.
Laboratory Director

NVLAP®
/JVLAP Lab Code 101768-0