



State of Utah

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Lieutenant Governor

Department of Administrative Services

KIMBERLY K. HOOD  
Executive Director

Division of Facilities Construction and Management

DAVID G. BUXTON  
Director

## ADDENDUM #1

Date: June 22, 2010

To: Contractors

From: Matt Boyer, Project Manager, DFCM

Reference: Technology Building Re-roof  
Southern Utah University – Cedar City, Utah  
Project No.09257730

Subject: **Addendum No. 1**

Pages	Addendum	1 page
	<u>Mesa Consulting</u>	<u>11 pages</u>
	Total	12 pages

**Note:** *This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.*

While we contend that SB220 should only be potentially applicable to a contract issued after the effective date of said bill, this is to clarify that for purposes of this contract, regardless of the execution or effective dates of this contract, the status of Utah Law and remedies available to the State of Utah and DFCM, as it relates to any matter referred to or affected by said SB220, shall be the Utah law in effect at the time of the issuance of this Addendum.

**1.1 SCHEDULE CHANGES** – There are no changes to the project schedule.

**1.2 GENERAL** – Mesa Consulting Addenda and Dixon Information Inc. Please see attached.

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**ADDENDUM #1** – June 22, 2010

Addendum to the **CONTRACT DOCUMENTS** for the Construction of:

**SOUTHERN UTAH UNIVERSITY  
TECHNOLOGY RE-ROOF  
DFCM PROJECT # 09257730**

The amendments of this addendum shall be subject to the general quality and intent as specified and shown with the original and new Contract Documents.

**AMENDMENTS:**

**Architectural**

**ITEM #1:** (Reference Asbestos Report)

The asbestos report by Dixon Information Inc., dated June 17, 2010 is attached to this document. The report indicates that there is Asbestos Containing Material (ACMs) in the roofing material, black tar sealant and silver tar Sealant.

The Contractor is responsible to review the attached Hazmat Survey and Assessment for the SUU Technology Building, Dated June 17, 2010, which includes Dixon Information Report, Ace Consulting Report and Appendix "A" dated June 16, 2010.

The Contractor is responsible to comply with the Asbestos regulations that are included in the National Emissions Standards for Hazardous Air Pollutants (NESHAP) and reference as 40 CFR 61, Subpart M. The Contractor should review these regulations as well as State and Local regulations prior to demolition and cleanup activity.

The Contractor is responsible to make arrangements for disposal with the Iron County Landfill prior to commencing with the job.

Page 1 of 5

**ITEM #2:** (Reference Specification 075419)

Specification 075419, Paragraph 1.5.A.4. Manufacturers shall provide a 90 Mile per Hour Warranty on the roofing system. All applications of the new roofing system must comply with the manufacturer's installation directions and requirements to meet this warranty requirement.

**ITEM #3:** (Reference Specification 075419, existing roof decking)

It has been determined that to obtain a 90 Mile Per Hour Warranty from the Manufacturer, the new roofing system requires an additional 7/16" Plywood decking which shall be applied to all surfaces of the existing 5/8" roof decking.

**ITEM #4:** (Reference Specification 075419, Polyvinyl-Chloride (PVC) Roofing)

Replace Paragraph 2.1.A.2 with the following; Thickness 60 mils, 57 mils minimum.

**ITEM #5:** (Reference Existing HVAC Condenser Unit adjacent to the East of the Building.)

NOTE: Extreme care and precautions shall be taken not to allow roofing debris or other materials to fall on or damage the HVAC Unit. Contractor is responsible to stage work away from this area as much as possible and not work near the unit during windy periods. Contractor is responsible to repair or replace any damage to this unit.

**ITEM #6:** (Reference Drawing A101, Covered Pedestrian Walk, Safety Plan.)

The technology Building will be closed by University Officials with the exception of one secretarial space and on basement driveway entrance. All other interior areas shall be blocked off by University Staff.

The covered walkway plan, Drawing A101, shall be adjusted to delete all covered walkways noted with the exception of the North East Entrance. This covered walkway shall remain and be constructed by the contractor as designed. The Driveway entrance has an existing 6' concrete sidewalk over it creating an existing safety walkway.

All other sidewalks leading to closed entrances shall have a barrier, provided by University staff, blocking the sidewalk and a sign clearly stating that the building doorway is locked and to use the North East entry.

**ITEM #7:** (Reference Project Schedule, Substantial Completion Date.)

The Substantial completion date 7/26/10 has been changed to 7/20/10.

**ITEM #8:** (Reference Drawing A201)

The wall section detail symbol for both the North and South perimeter walls calls a reference to Drawing A202. Detail A6.

The South perimeter wall section reference Drawing A202, Detail 6 is correct.

The North perimeter wall section reference is incorrect and should read Sheet 204, Detail A1.

**ITEM #9:** (Reference Drawing A202, Detail A11)

No insulation is called for in this area.

**ITEM #10:** (Reference Drawing A202, Details E8 and G11)

Manufacturers approved PVC sealant shall be applied to all areas of penetration where the ladders and wall supports are fastened by bolt or lag screw.

Page 3 of 5

**ITEM #11:** (Reference Drawing A201, Key Note 25)

The Key Note #25 shown on Drawing A201 is in error. The note should read "19". This note indicates the panels that require a cut to accommodate the new roofing system. This cut shall be 6" + - as shown on Drawing A204, Detail A1. Not as noted in #19.

**ITEM #12:** (Reference Roof Details, Drawing A204, Detail A1)

See Response ITEM #8. The North perimeter wall section reference is incorrect and should read Drawing 204, Detail A1. This locates the location of the siding panels to be cut.

**ITEM #13:** (Reference Drawing A204, Detail L6)

Detail L6 is the new curb detail for the existing condenser unit Drawing A204, Keynote 5. note that the existing condenser unit is currently surface mounted. Add to Drawing A201, Keynote #3 "See Detail L6 on Drawing A204".

**ITEM #14:** (Reference Drawing A203, Detail E1)

Dimension changes to the New Ladder Detail E1 to conform with OSHA requirements.

1. The ladder overall height shall extend 0'-6" to a dimension of 7'-9" from finished lower roof deck to top of ladder.
2. The ladder height from finished upper roof deck to the top of the ladder safety grab bar extension shall extend 0'-6" to a dimension of 3'-6". (42")
3. The ladder distance from the ladder rung to the finished wall surface shall extend 3" to a finished dimension of 0'-7".

**ITEM #15:** (Reference Drawing A203, Detail E5)

Dimension changes to the new ladder Detail E5 to conform with OSHA requirements,

The ladder side rails shall have a minimum distance of 24" clearance between the rails.

**ITEM #16:** (Reference Drawing , Sheet A203, Details A7 & A11)

Flashing shall be constructed as per plans and specification.

**Mechanical**

**ITEM #17:** (Reference Drawings ME101 and ME501)

Add the (2) two new mechanical drawings ME101 (New Roof Plan) and ME 501 (Mechanical Details) to the plans and specifications for the SUU Technology Re-Roofing Project.

See these Drawings for all specifics regarding the acquisition and installation of the new Relief Air unit.

**Plumbing**

**ITEM #18:** (Reference Drawing D101 and A201)

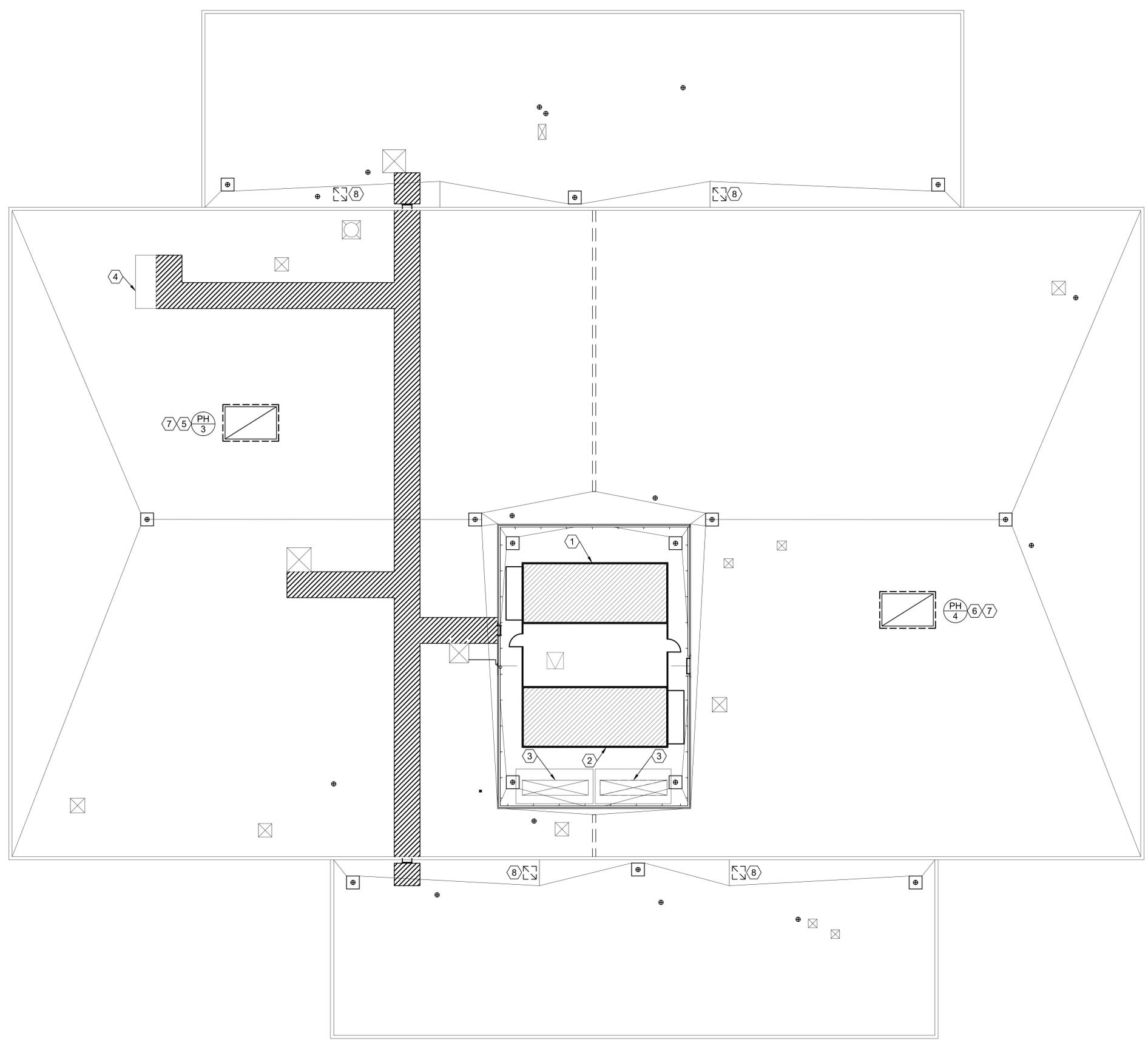
Replace Keynote #6 on Drawing D101 with the following. "Remove all existing drains and the lead and oakum connections and prepare to receive new drains".

Add to General Notes on Drawing A 201 the following: New General Note #5, "Replace all existing roof drains and existing lead and oakum connections with new 2" roof drains with either threaded or no hub connections to the existing piping. Provide new Zurn 100 roof drain w/ under deck clamp or equal by Wade, Jogan or Smith. No plastic allowed".

**End of Addendum #1.**

Page 5 of 5.

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- SHEET NOTES:**
- 1 EXISTING MULTIZONE AIR HANDLING UNIT.
  - 2 EXISTING MULTIZONE AIR HANDLING UNIT.
  - 3 EXISTING RELIEF AIR PENTHOUSE.
  - 4 EXISTING ROOF ACCESS HATCH.
  - 5 PROVIDE NEW 60"x96" RELIEF AIR PENTHOUSE AS SHOWN WITH 68"x104" ROOF CURB.
  - 6 PROVIDE NEW 60"x96" RELIEF AIR PENTHOUSE AS SHOWN WITH 68"x104" ROOF CURB.
  - 7 PROVIDE COUNTER BALANCED BACKDRAFT DAMPER AT EACH PENTHOUSE. DAMPER SHALL BE RUSKIN CBD2 OR APPROVED EQUAL. SET INITIALLY TO +0.05" SP.
  - 8 PROVIDE TRANSFER GRILLES IN CORRIDOR CEILING OPEN TO THE CEILING PLENUM. LOCATION SHOWN AR APPROXIMATE LOCATIONS BELOW THE ROOF FOR REFERRED PURPOSE ONLY. COORDINATE EXACT LOCATIONS WITH OWNER AND EXISTING CONDITIONS. THESE DO NOT PENETRATE THE ROOF.

**MECHANICAL ROOF PLAN**

1/8" = 1'-0"



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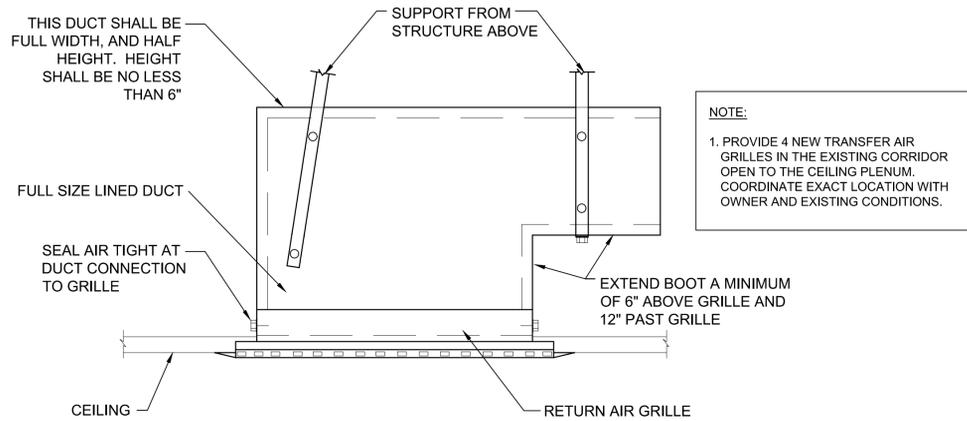
REVISIONS

DATE 06/14/2010

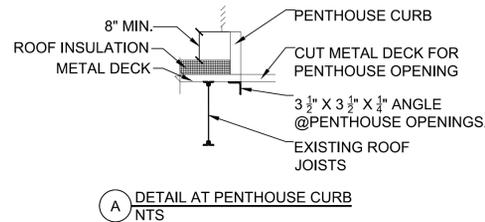
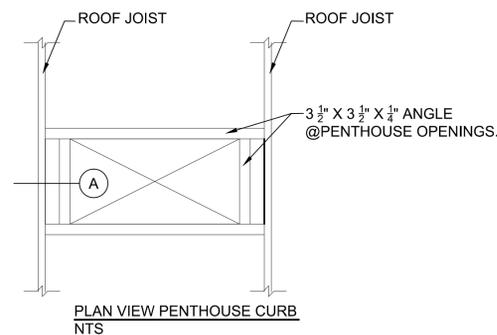
PROJECT NO. 010001

SHEET  
NEW  
ROOF PLAN

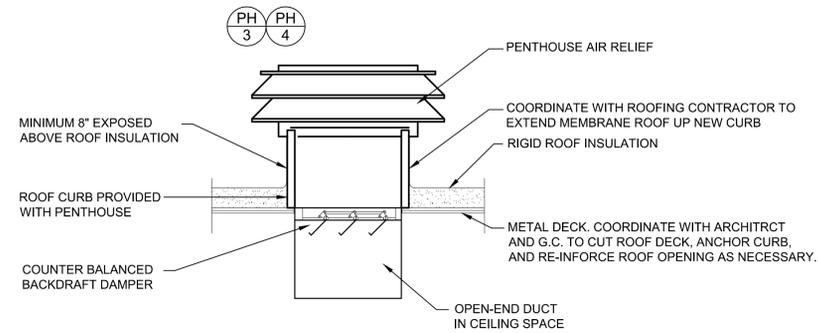
SHEET NO.  
ME101



**J3** TRANSFER AIR GRILLE BOOT DETAIL  
SCALE: NONE



**D3** PENTHOUSE CURB DETAIL  
SCALE: NONE



**K10** PENTHOUSE DETAIL  
SCALE: NONE

DIMENSION OF LONGEST SIDE, INCHES	SHEET METAL GAGE (ALL FOUR SIDES)	MINIMUM REINFORCING ANGLE SIZE AND MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS &/OR INTERMEDIATE REINFORCING	TRANSVERSE REINFORCING (1)				
			AT JOINTS				
			MIN. H. IN.	DRIVE SLIP PLAIN S SLIP	HEMMED S SLIP	ALTER'NT BAR SLIP	REIN-FORCED BAR SLIP
			RECOM-MENDED GAGE	RECOM-MENDED GAGE	RECOM-MENDED GAGE	RECOM-MENDED GAGE	
UP THRU 12	26	NONE REQUIRED	1	26	26	24	24
13 - 18	24	NONE REQUIRED	1	24	24	24	24
19 - 30	24	1"X1"X1/8" @ 60 IN	1	-	24	24	24
31 - 36	22	1"X1"X1/8" @ 60 IN	1	-	-	22	22

1. TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

**H9** DUCT CONSTRUCTION DETAIL  
SCALE: NONE

**REGISTER, LOUVER & GRILLE SCHEDULE**

SYMBOL	TYPE	SERVICE	MAX CFM	NOMINAL SIZE	THROAT SIZE	CEILING TYPE	SCHEDULE NOTES
TG-1	CEILING	RELIEF	1000 - 1080	24x24	24x24	HARD CEILING	1,2,3
PH 3	ROOF MOUNTED	RELIEF	-	60"x96"	50" HIGH 10 TIERS	N/A	4,5
PH 4	ROOF MOUNTED	RELIEF	-	60"x96"	50" HIGH 10 TIERS	N/A	4,5

**SCHEDULE NOTES:**

1. MAXIMUM NC = 25 @ MAXIMUM CFM NOTED.
2. SHALL BE PRICE 535 OR EQUAL BY OTHER APPROVED MANUFACTURERS.
3. FINISH SHALL BE STANDARD WHITE.
4. EACH PENTHOUSE TO BE SUPPLIED WITH A COUNTER BALANCED BACK DRAFT DAMPER.
5. PENTHOUSES ARE DESIGNED AROUND A RUSKIN MODEL PH811 WITH A RUSKIN CBD2 COUNTER BALANCED BACK DRAFT DAMPER - MOUNT DAMPER IN HORIZONTAL POSITION WITH AIR FLOW UP. MAXIMUM PRESSURE OF 0.05" AT AIR FLOW LISTED.



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SUBMITTAL

REVISIONS

DATE: 06/14/2010

PROJECT NO: 010001

SHEET: MECHANICAL DETAILS

SHEET NO: ME501

# DIXON INFORMATION INC.

MICROSCOPY, ASBESTOS ANALYSIS & CONSULTING

A.I.H.A. ACCREDITED LABORATORY # 101579

NVLAP LAB CODE 101012-0

June 17, 2010

ACE Consulting  
5267 South 935 East  
Murray, UT 84117

Ref: Batch # 91186, Lab # ACT475 - ACT479  
Received June 17, 2010  
Test report  
Job #: A-141  
SUU Technology Building Roof  
Sampled by Pat Philabaum on 6/16/2010

Samples ACT475 through ACT479 have been analyzed by visual estimation based on EPA-600/M4-82-020 December 1982, and EPA/600/R-93/116 July 1993 optical microscopy test methods. Appendix "A" contains statements which an accredited laboratory must make to meet the requirements of accrediting agencies. It also contains additional information about the method of analysis. This analysis is accredited by NVLAP. Appendix "A" must be included as an essential part of this test report. The data for this report is accredited by NVLAP for laboratory number 101012-0. It does not contain data or calibrations for tests performed under the AIHA program under lab code 101579.

This report may be reproduced but all reproduction must be in full unless written approval is received from the laboratory for partial reproduction. The results of analysis are as follows:

#### Lab ACT475, Field 001 Tar and Silver Sealant

This sample contains two types of material: The first type is silver colored sealant; the second type is 20% chrysotile asbestos in black tar sealant with limestone. This sample is non-homogeneous.

The first type is 1% of the sample. The second type is 99% of the sample.

There is no separate analysis of the 1<sup>st</sup> material type due to the contact with the asbestos containing material.

#### Lab ACT476, Field 002 Core Sample

This sample contains three types of material: The first type is 30% plant fiber in resin binder with perlite; the second type is 5% fiberglass in black tar; the third type is white rocks. This sample is non-homogeneous.

The first type is 45% of the sample. The second type is 50% of the sample. The third type is 5% of the sample.

Less than 1% chrysotile asbestos was detected, the asbestos source was not identified.

78 WEST 2400 SOUTH • SOUTH SALT LAKE, UTAH 84115-3013  
PHONE 801-486-0800 • FAX 801-486-0849 • RES. 801-571-7695

Batch # 91186  
Lab # ACT475 - ACT479  
Page 2 of 2

Lab ACT477, Field 003 Roof Hatch Flashing

This is 35% fiberglass in black tar with sand. **Asbestos is none detected.**

Lab ACT478, Field 004 Core Sample

This sample contains three types of material: The first type is 30% plant fiber in resin binder with perlite; the second type is 20% fiberglass in black tar layers; the third type is **60% chrysotile asbestos** and 5% plant fiber in black tar felt. This sample is non-homogeneous.

The first type is 45% of the sample. The second type is 50% of the sample. The third type is 5% of the sample.

Lab ACT479, Field 005 Silver Sealant on Fan Unit

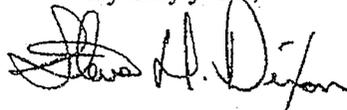
This sample contains two types of material: The first type is **20% chrysotile asbestos** in black tar; the second type is silver colored sealant. This sample is non-homogeneous.

The first type is 99% of the sample. The second type is 1% of the sample.

There is no separate analysis of the silver colored sealant due to the contact with the asbestos containing layer.

In order to be sure reagents and tools used for analysis are not contaminated with asbestos, blanks are tested. Asbestos was none detected in the blanks tested with this bulk sample set.

Very truly yours,



Steve H. Dixon, President

Analyst-Ofir A. Sosa: \_\_\_\_\_

\_\_\_\_\_ Date Analyzed: June 17, 2010



## Appendix "A"

"This report relates only to the items tested. This report must not be used to claim product endorsement by NVLAP or AIHA"

NVLAP and AIHA requires laboratories to state the condition of samples received for testing: These samples are in acceptable condition for analysis unless there is a statement in the report of analysis that a test item has some characteristics or condition that precludes analysis or requires a modification of standard analytical methodology. If a test item is not acceptable, the reasons for non-acceptability will be given under the laboratory number for that particular test item.

### Methods of Analysis and Limit of Detection

In air count analysis, the results may be biased when interferences are noted.

The accuracy of asbestos analysis in bulk samples increases with increasing concentration of asbestos. Pigments, binders, small size and multiple layers may affect the analysis sensitivity.

There are two methods for analysis of asbestos in a bulk test sample. Visual estimation is the most sensitive method. If an analyst makes a patient search, 0.1% or less asbestos can be detected in bulk sample.

The second method of analysis is a statistical approach called point counting. EPA will not accept visual estimations if a laboratory detects a trace of asbestos in a sample i.e. anything less than 1% asbestos. Government agencies regulate asbestos containing materials (ACM) whenever the ACM is more than 1% OSHA requirements apply on samples containing any amount of asbestos.

Due to the higher charge for a point count analysis, Dixon Information Inc. does not perform a point count unless authorized to do so by the client. If a sample is point counted, when possible, chemical treatments will be used to concentrate the asbestos in the sample. This is permitted by the EPA method and it increases the accuracy of the analysis.