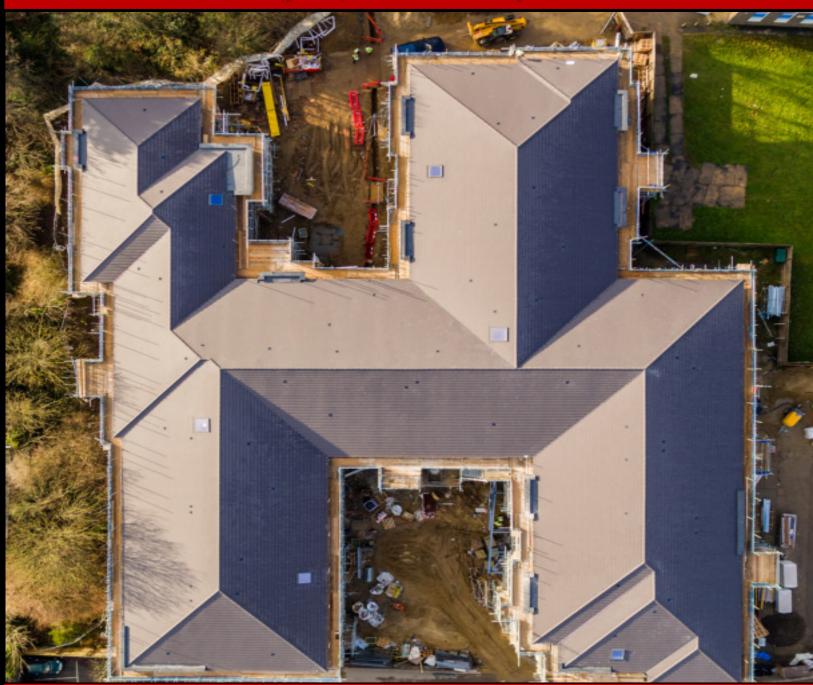


### COMMERCIAL UAV DRONE FLIGHT SERVICES & SOLUTIONS

Improving data collection, analytics, & decision support for industry.

### **Architectural Roofing Report and Analysis**



# COMPREHENSIVE ROOF REPORT April 5, 2018

6th Avenue

### 325 Elm Street, Milford PA 18337

### PREPARED FOR:

Contact: John Smith

Company: Roofing Company

Address: 325 Elm Street, Milford PA 18337

Phone: 555-555-5555

### **TABLE OF CONTENTS**

lmages	1
Length Diagram	4
Pitch Diagram	
Area Diagram	6
Notes Diagram	7
Penetrations Diagram	8
Report Summary	9

### **MEASUREMENTS**

Total Roof Area = 10,610 sq ft

**Total Roof Facets** = 18

**Predominant Pitch** = 1/12Number of Stories > 1

**Total Ridges/Hips** = 54 ft

Total Valleys = 0 ft

Total Rakes = 37 ft

**Total Eaves** =42 ft

**Total Penetrations** = 68

**Total Penetrations Perimeter** = 421 ft

**Total Penetrations Area** = 341 sq ft



325 Elm Street, Milford PA 18337

## **IMAGES**

The following aerial images show different angles of this structure for your reference.

#### **TOP VIEW**





325 Elm Street, Milford PA 18337

## **IMAGES**

The following aerial images show different angles of this structure for your reference.

#### **NORTH SIDE**



#### **SOUTH SIDE**





325 Elm Street, Milford PA 18337

## **IMAGES**

The following aerial images show different angles of this structure for your reference.

#### **EAST SIDE**



#### **WEST SIDE**





325 Elm Street, Milford PA 18337

## LENGTH DETAILS

#### **Total Line Lengths:**

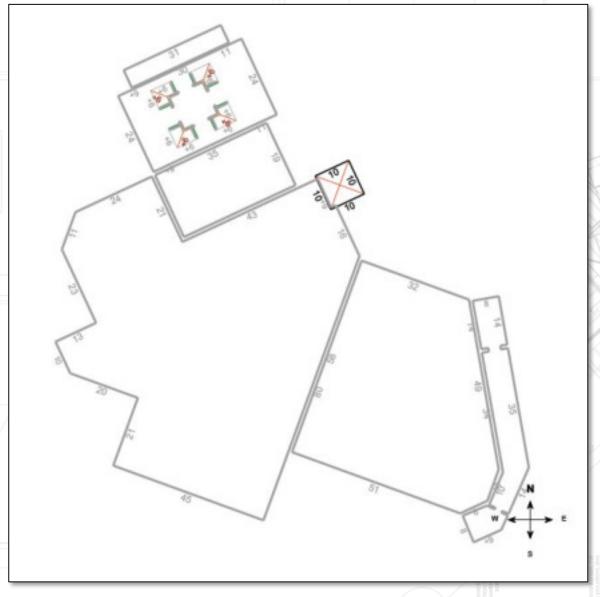
Ridges = 0 ft Hips = 54 ft

Valleys = 0 ft

Rakes = 37 ft Eaves = 42 ft

Flashing = 22 ft

Step flashing = 0 ft Parapets = 1,096 ft



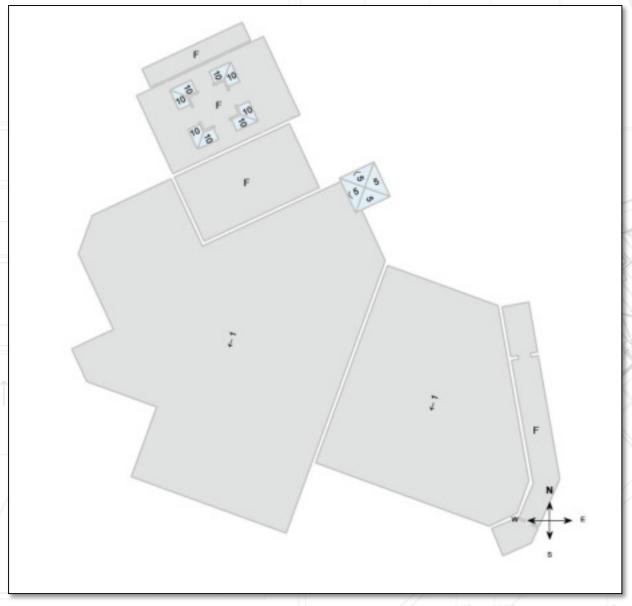
**Note:** This diagram contains segment lengths (rounded to the nearest whole number) over 5 feet. In some cases, segment labels have been removed for readability. Plus signs preface some numbers to avoid confusion when rotated (e.g. +6 and +9).



325 Elm Street, Milford PA 18337

### PITCH DETAILS

Pitch values are shown in inches per foot, and arrows indicate slope direction. The predominant pitch on this roof is 1/12.



**Note:** This diagram contains labeled pitches for facet areas larger than 20 square feet. In some cases, pitch labels have been removed for readability. Blue shading indicates a pitch of 3/12 and greater. Gray shading indicates flat, 1/12 or 2/12 pitches. If present, a value of "F" indicates a flat facet (no pitch).

Connexicore

325 Elm Street, Milford PA 18337

### **AREA DETAILS**

Total Area = 10,610 sq ft, with 18 facets.



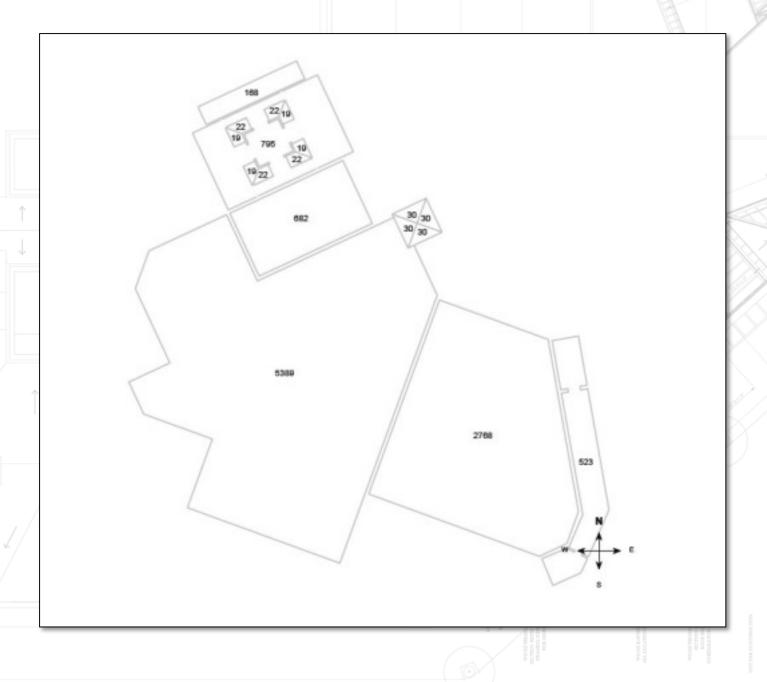
**Note:** This diagram shows the square feet of each roof facet (rounded to the nearest foot). The total area in square feet, at the top of this page, is based on the non-rounded values of each roof facet (rounded to the nearest square foot after being totaled).



325 Elm Street, Milford PA 18337

## **NOTES**

Roof facets are labeled from smallest to largest (A to Z) for easy reference.





PAGE 8

6th Avenue

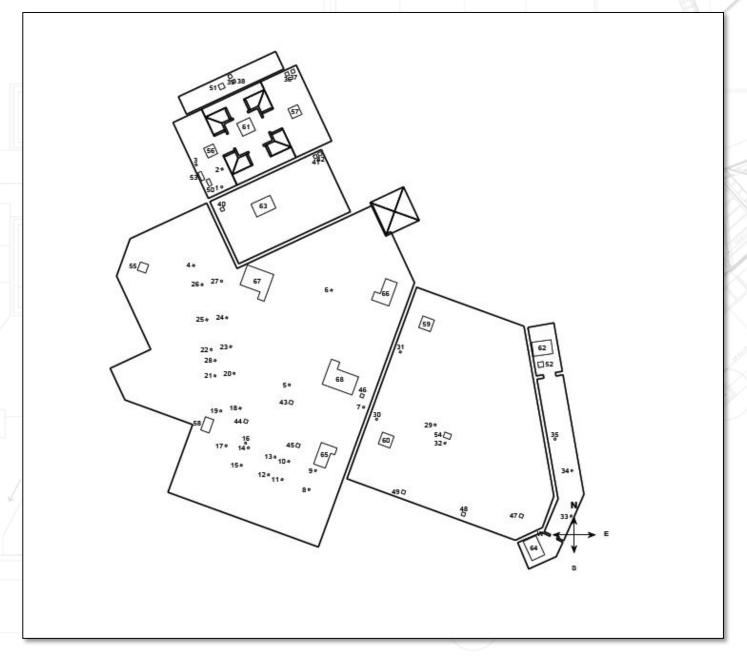
325 Elm Street, Milford PA 18337

## PENATRATION DETAILS

Penetrations are labeled from smallest to largest for easy reference.

Total Penetrations = 68
Total Penetrations Perimeter = 421 ft

Total Penetrations Area = 341 sq ft
Total Roof Area Less Penetrations = 10,269 sq ft





325 Elm Street, Milford PA 18337

### REPORT SUMMARY

Areas per Pitch								
Roof Pitches	0/12	1/12	5/12	10/12				
Area (sq ft)	2168.8	8157.4	119.6	164				
% of Roof	20.4%	76.9%	1.1%	1.5%				

The table above lists each pitch on this roof and the total area and percent (both rounded) of the roof with that pitch.

Waste Calculation Table									
Waste %	0%	10%	12%	15%	17%	20%	22%		
Area (sq ft)	10,610	11,671	11,883	12,202	12,414	12,732	12,944		
Squares	106.1	116.7	118.8	122.0	124.1	127.3	129.4		

This table shows the total roof area and squares (rounded up to the nearest decimal) based upon different waste percentages. The waste factor is subject to the complexity of the roof, individual roofing techniques and your experience. Please consider this when calculating appropriate waste percentages. Note that only roof area is included in these waste calculations. Additional materials needed for ridge, hip, valley, and starter lengths are not included.

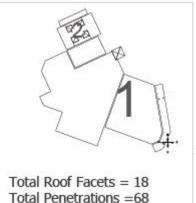
Penetrations	1-20	21-35	36-49	50	51-52	53	54	55	56-57	58
Area (sq ft)	0.2	0.3	1	2	2.3	2.5	3	6.3	9	10
Perimeter (ft)	2	2	4	6	6	7	7	10	12	13
	59-60	61	62	63-64	65	66	67	68		
Area (sq ft)	12.2	16	22	24	25.2	28.8	52.2	54.8		
Perimeter (ft)	14	16	19	20	22.4	24.4	32.2	33.2		

Any measured penetration smaller than 3x3 feet may need field verification. Accuracy is not guaranteed. The total penetration area is not subtracted from the total roof area.



325 Elm Street, Milford PA 18337

### REPORT SUMMARY



#### Lengths, Areas and Pitches

**Ridges** = 0 ft (0 Ridges) **Hips** = 54 ft (8 Hips).

**Eaves/Starter**\*\* = 42 ft (4 Eaves) **Drip Edge** (Eaves + Rakes) = 79 ft (12 Lengths)

Parapet Walls = 1,096 (99 Lengths). Flashing = 22 ft (8 Lengths)

Step flashing = 0 ft (0 Lengths)

Total Area = 10,610 sq ft

**Total Penetrations Area** = 341 sq ft **Total Roof Area Less Penetrations** = 10,269 sq ft

**Total Penetrations Perimeter** = 421 ft Predominant Pitch = 1/12

Property Location | Longitude = -00.0000000 Latitude = 00.0000000

**Notes:** This was ordered as a commercial property. There were no changes to the structure in the past four years.

Measurements by Structure												
Structure			Valleys (ft)	Rakes (ft)			Step Flashing (ft)	Parapets (ft)				
1	9483	0	31	0	0	42	0	0	833			
2	1127	0	23	0	37	0	22	0	263			

All values in this table are rounded up to the nearest foot for each separate structure. Measurement totals displayed elsewhere in this report are added together before rounding which may cause totals to differ. The table above lists each pitch on this roof and the total area and percent (both rounded) of the roof with that pitch.

Parapet Wall Area Table									
Wall Height (ft)	1	2	3	4	5	6	7		
Vertical Wall Area	1096	2192	3288	4384	5480	6576	7672		

This table provides common parapet wall heights to aid you in calculating the total vertical area of these walls. Note that these values assume a 90 degree angle at the base of the wall. Allow for extra materials to cover cant strips and tapered edges.

