

**ATTIC VENTILATION CALCULATIONS**

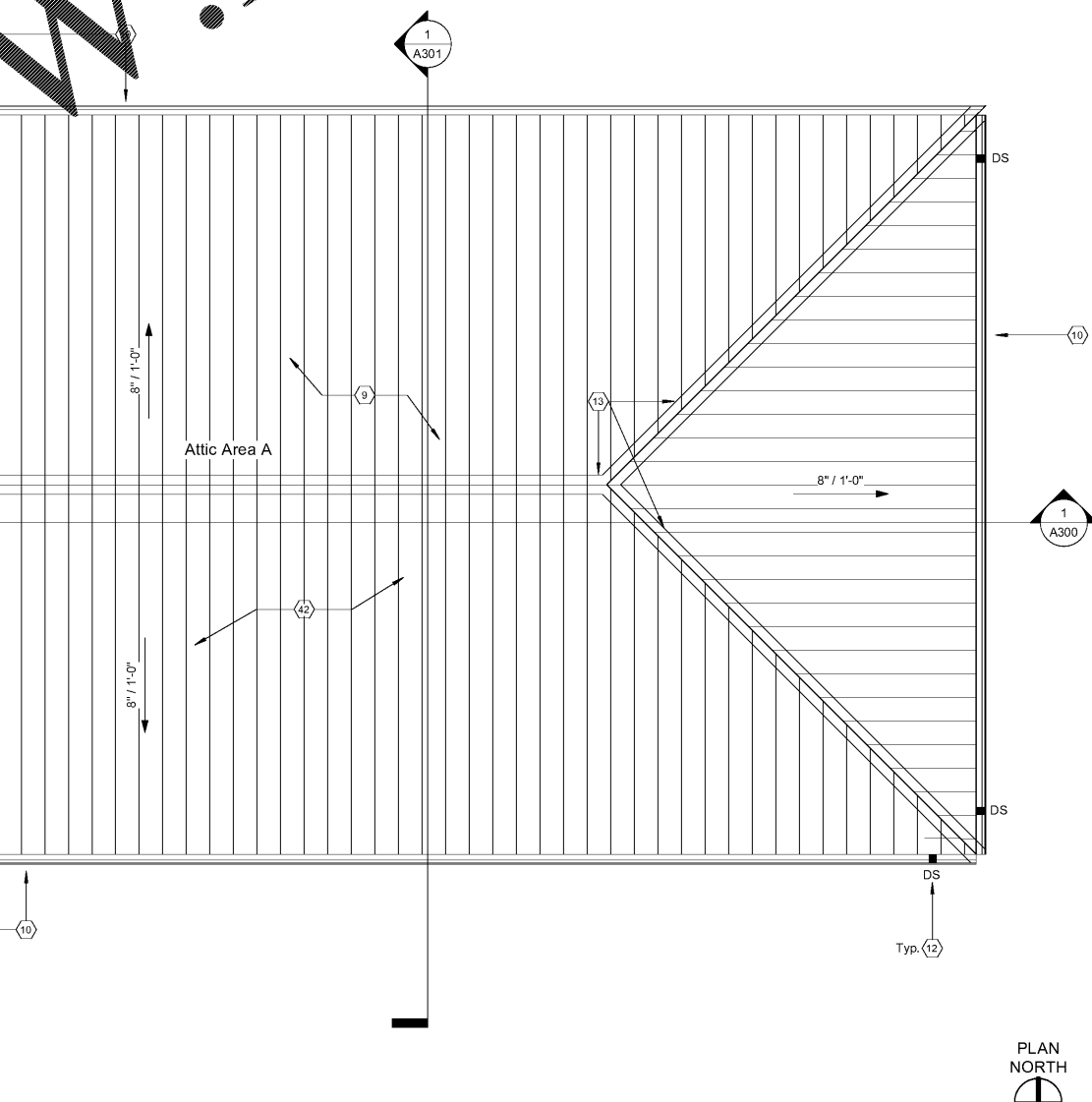
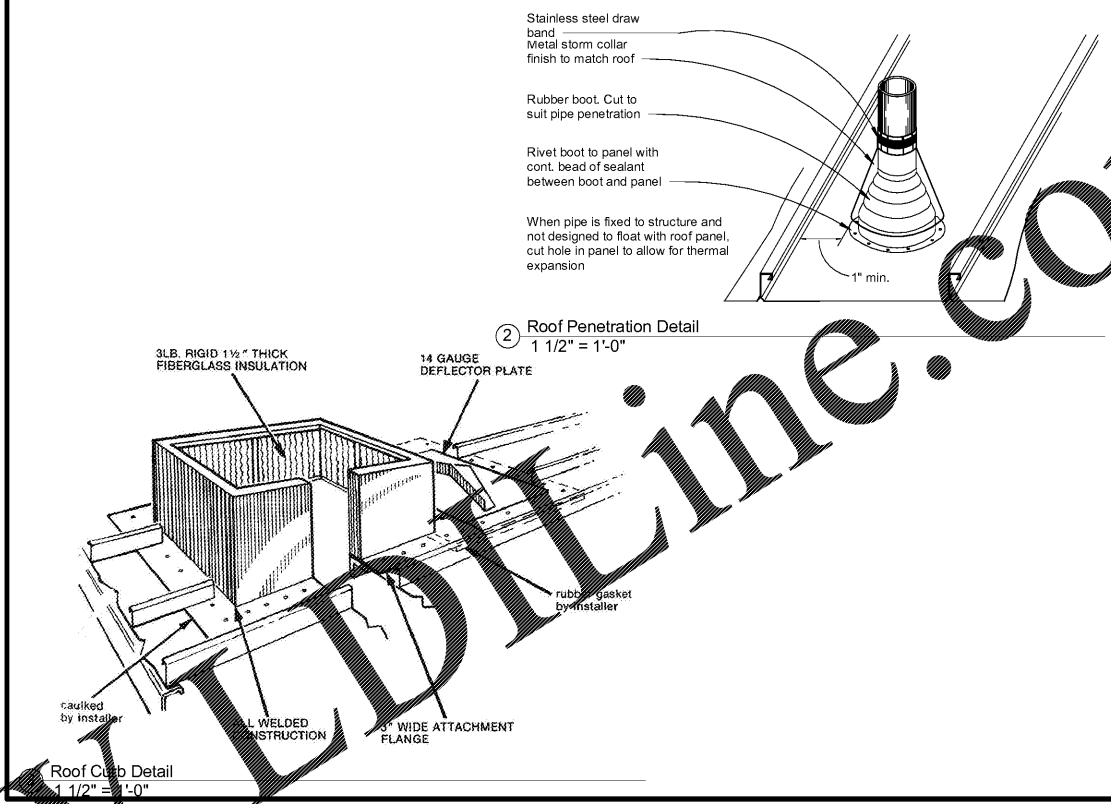
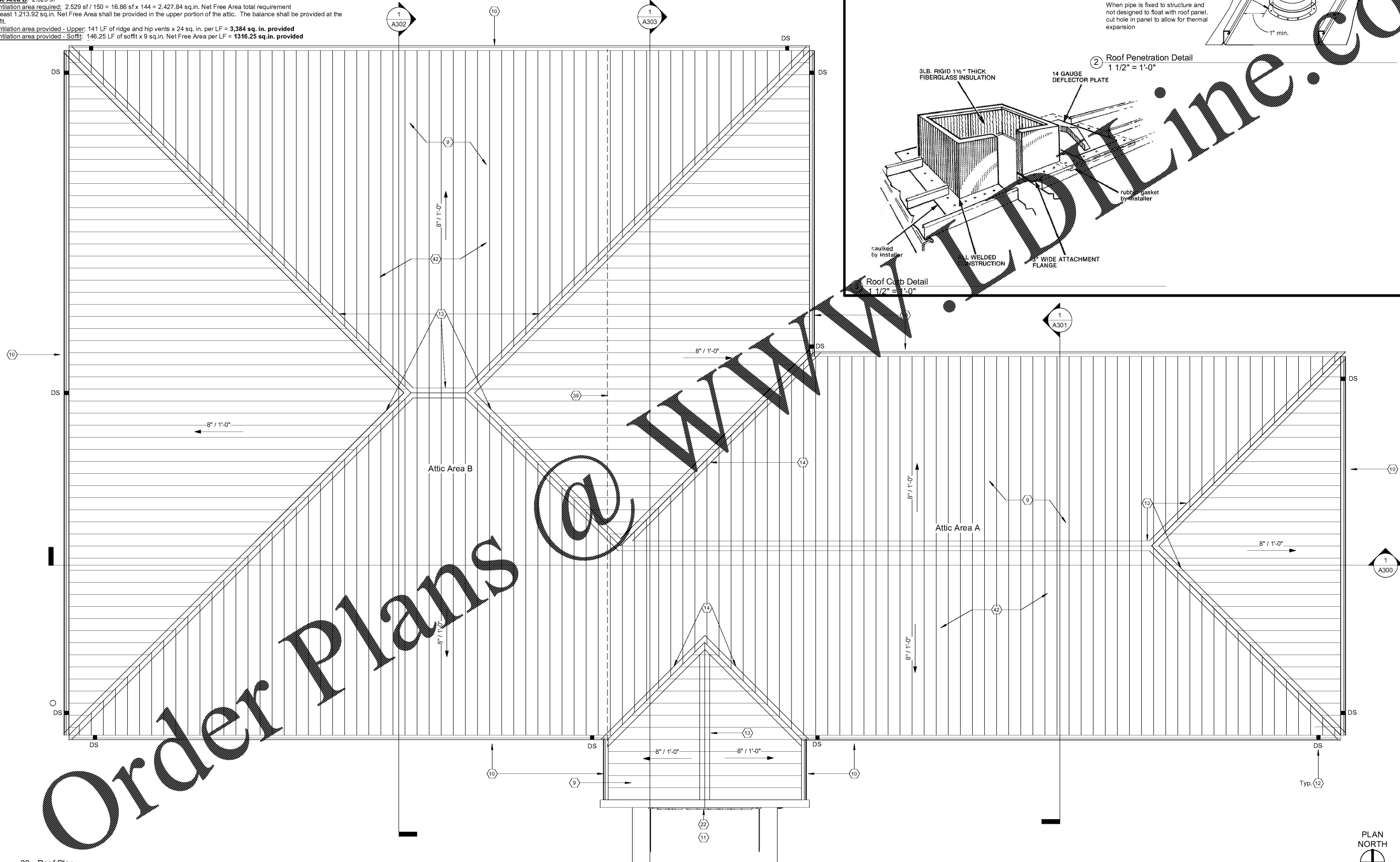
Attic ventilation shall be provided as required by Section 1203 - Ventilation. The net free ventilating area shall be not less than 1/150 of the area of the space ventilated, with 50 percent of the required ventilating area provided by ventilators at the ridge with the balance of the required ventilation provided by soffit vents.

**Attic Area A:** 2,411 sf  
 Ventilation area required:  $2,411 \text{ sf} / 150 = 16.07 \text{ sf} \times 144 = 2,314.08 \text{ sq.in.}$  Net Free Area total requirement  
 At least 1,157.04 sq.in. Net Free Area shall be provided in the upper portion of the attic. The balance shall be provided at the soffit.

Ventilation area provided - Upper: 88 LF of ridge and hip vents  $\times 24 \text{ sq. in. per LF} = 2,112 \text{ sq. in. provided}$   
 Ventilation area provided - Soffit: 172.25 LF of soffit  $\times 9 \text{ sq.in. Net Free Area per LF} = 1,550 \text{ sq.in. provided}$

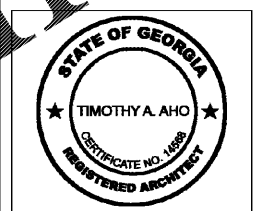
**Attic Area B:** 2,529 sf  
 Ventilation area required:  $2,529 \text{ sf} / 150 = 16.86 \text{ sf} \times 144 = 2,427.84 \text{ sq.in.}$  Net Free Area total requirement  
 At least 1,213.92 sq.in. Net Free Area shall be provided in the upper portion of the attic. The balance shall be provided at the soffit.

Ventilation area provided - Upper: 141 LF of ridge and hip vents  $\times 24 \text{ sq. in. per LF} = 3,384 \text{ sq. in. provided}$   
 Ventilation area provided - Soffit: 146.25 LF of soffit  $\times 9 \text{ sq.in. Net Free Area per LF} = 1,316.25 \text{ sq.in. provided}$



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1 03 - Roof Plan  
 1/4" = 1'-0"



Express Oil Change & Tire Engineers  
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FINAL

No.	Description	Date

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Roof Plan

Project number	16031
Date	04/04/2017
Drawn by	ARC
Checked by	TAA
<b>A105</b>	
Scale	As indicated