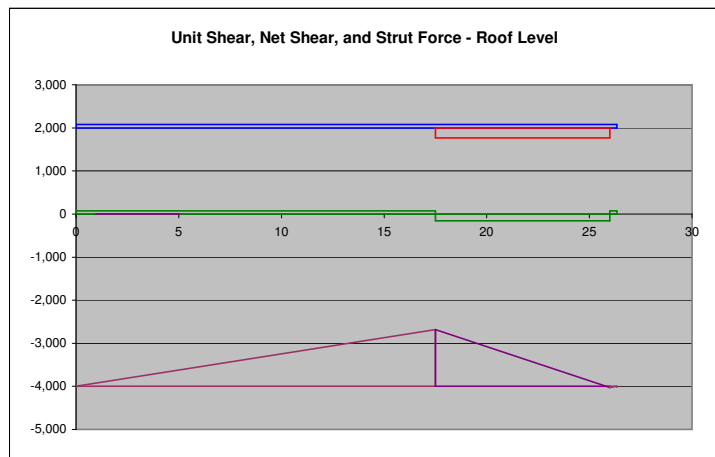




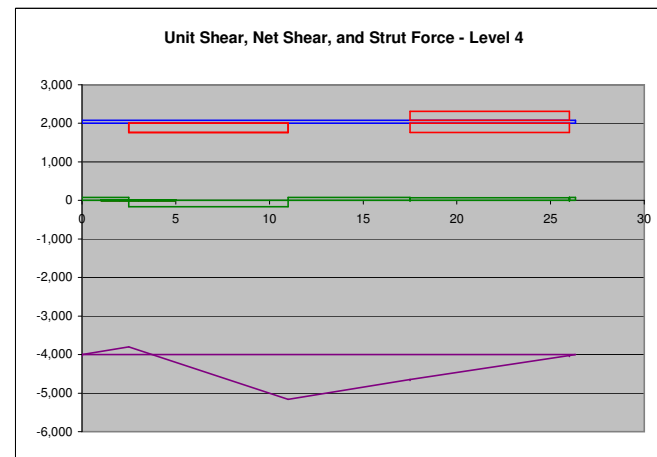
**SHEARWALL LOAD DISTRIBUTION - FLEXIBLE DIAPHRAGM ASSUMPTIONS**  
**IBC 2009 SHEAR WALL CRITERIA**  
**1914-1916 PINE STREET, SAN FRANCISCO - SEISMIC RETROFIT**

**Wall Location:** 2  
**Loading:** EQ  
**Loading Direction:** N-S

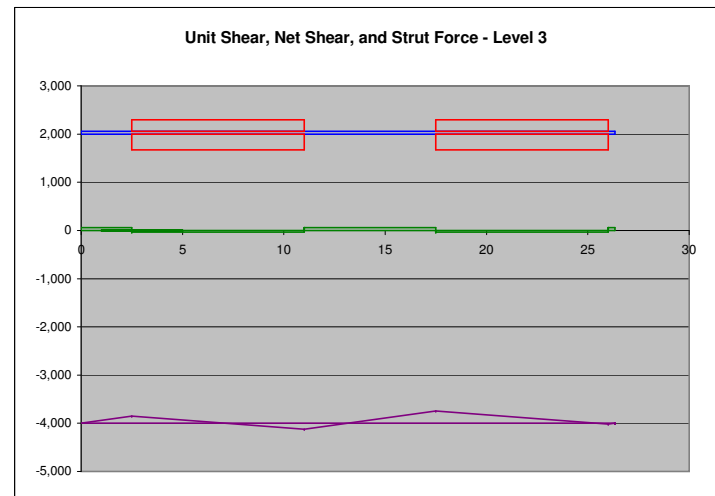
**3. Plots of Unit and Net Shears and Strut Force at Wall Levels**



**Roof Level Demands:**  
 $V_{sw} = 234 \text{ lb/ft}$   
 $F_{strut} = 1,319 \text{ lbs}$



**Level 4 Demands:**  
 $V_{sw} = 240 \text{ lb/ft}$   
 $F_{strut} = 1,165 \text{ lbs}$



**Level 3 Demands:**  
 $V_{sw} = 331 \text{ lb/ft}$   
 $F_{strut} = 254 \text{ lbs}$



**Level 2 Demands:**  
 $V_{sw} = 389 \text{ lb/ft}$   
 $F_{strut} = 162 \text{ lbs}$

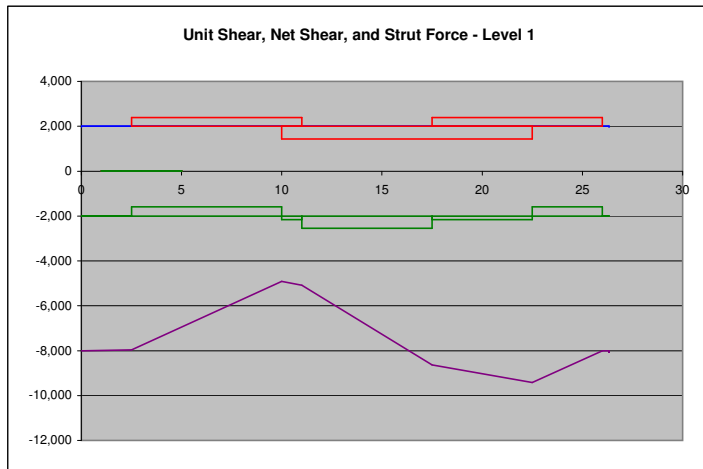
Project 1914-1916 Pine Street, San Francisco  
Job No. 201623.1  
By AL  
Date 10/30/2016  
Sheet \_\_\_\_\_ of \_\_\_\_\_

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**Wall Location:** 2

**Loading:** EQ  
**Loading Direction:** N-S



**Level 1 Demands:**

V<sub>sw</sub> = 563 lb/ft

F<sub>strut</sub> = 3,080 lbs