

**Diagram 4:** The purpose of this exhibit is to illustrate the cavalier attitude of the Swifts in changing and recording survey parameters in the Land Records without consulting their neighbors. Their beach frontage changed from a calculated 57.8 feet in 1947 to 75 feet in 1971 to 79.4 feet in 2004 and back to 75 feet in 2012 after the Plaintiff protested SFT's claim to a 79.4-foot frontage [81 feet on the shoreline]. Both Kent and Willis 1947 deeds were ignored. The Kent deed states clearly that their boundary aligns with the summit of Mt. Pisgah. The records were effectively being changed unilaterally. There is also the issue of the professional standards of Truline Land Surveyors who were involved in these and several other questionable survey judgments which are inconsistent with original records.

## How Swifts Changed their Beach Frontage from 1947 to Present

### Principle of Analysis:

$$X \text{ Feet}_{\text{arc}} = \frac{2\pi r \mu}{360^\circ} = X \text{ Feet}_{\text{chord}} *$$

\* to 5 significant figures, 10.45424 vs 10.45392  
arc chord

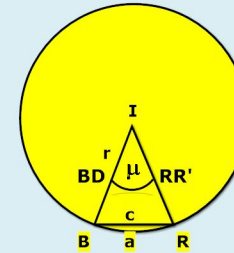
### Where:

$r$  = radius in feet = average of BD and  $RR'$

$\mu$  = angle in degrees subtended by BD and  $RR'$

$X \text{ Feet}_{\text{chord}}$  = chord length of angle  $\mu$  for radius  $r$

$BR = DR' + X \text{ Feet}_{\text{chord}} = 64.7' + 10.45' = 75.15'$



$c = X \text{ Feet}_{\text{chord}}$   
 $a = X \text{ Feet}_{\text{arc}}$   
 $c = a$

Date	Radius $r$ [(BD) + (RR')]/2	Angle BD - RR	D to R'	X Feet	B to R Calculated	B to R Recorded
1947 Deeds	396'	-1	64.7'	-6.91'	57.79'	-----
1971 Swift deed	390.7'	1.533	64.7'	10.45'	75.15'	75'
2004 (09)Truline maps	387.6	2.254	64.7'	15.25'	79.95'	79.4'
2012 (14)Truline maps	387.5'	1.599	64.7'	10.81'	75.51'	75.0'

Sources:  
1947 Willis deed Book 18, Pages 510-511.  
1947 Kent deed Book 19, Page 21  
Swift 1971 deed Book 22, Page 295  
Truline 2004, 2009, 2012 & 2014 maps

