

Milo Residence  
11901 S.W. 63<sup>rd</sup> Avenue  
Pinecrest, FL 33156

Revised  
May 26, 2026

### **Project Description**

Construction of a one-story single-family home with a pool, pool deck, walkways and driveways on an existing vacant lot. Storm water will be retained on site.

### **Existing conditions**

Total Site Area: 40,118 sf

|                  |                                         |
|------------------|-----------------------------------------|
| Impervious Area: | 0 sf = 0.00%                            |
| Pervious Area:   | 40,118 sf = $\frac{100.00\%}{100.00\%}$ |

### **Proposed Site Distribution**

Total Site Area: 40,118 sf

|                                    |                                                 |
|------------------------------------|-------------------------------------------------|
| Roof Area:                         | 7,759 sf / 40,118 = 19.34%                      |
| Driveways, walkways & equip. pads: | 4,328 sf / 40,118 = 10.79%                      |
| Pool & Pool Deck:                  | 2,720 sf / 40,118 = 6.77%                       |
| Pervious Area:                     | 25,311 sf / 40,118 = $\frac{63.10\%}{100.00\%}$ |

### **Required Storage**

Rainfall amount (P) = 9.5" (from SFWMD Manual)  
Average October water table level = 3.00' NGVD  
Average pervious elevation 17.50'  
Depth to water table 17.50' - 3.00' = 14.50'  
Compacted soil storage = 8.175" (from SFWMD Manual)

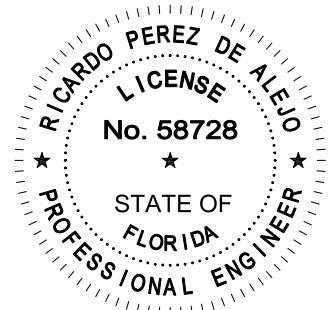
#### **Existing Conditions**

$S = (\text{Pervious Area} / \text{Site Area}) \times (\text{Compacted Soil Storage})$   
 $S = (40,118 / 40,118) \times 8.175$   
 $S = 1 \times 8.175$   
 $S = 8.175"$

$\text{Runoff (R)} = (P - 0.2S)^2 / (P + 0.8S)$   
 $R = (9.5 - 0.2(8.175))^2 / (9.5 + 0.8(8.175))$   
 $R = (9.5 - 1.635)^2 / (9.5 + 6.54)$   
 $R = (7.865)^2 / 16.04$   
 $R = 61.86 / 16.04$   
 $R = 3.86"$

Ricardo  
Perez  
de Alejo

Digitally signed  
by Ricardo  
Perez de Alejo  
Date:  
2026.06.01  
15:45:39 -05'00'



Volume of Runoff (V)

$$V = (A \times R) / 12$$

$$V = (40,118 \times 3.86) / 12$$

$$V = 12,904.62 \text{ cf}$$

Proposed Conditions

$$S = (\text{Pervious Area} / \text{Site Area}) \times (\text{Compacted Soil Storage})$$

$$S = (25,311 / 40,118) \times 8.175$$

$$S = 0.63 \times 8.175$$

$$S = 5.16''$$

$$\text{Runoff (R)} = (P - 0.2S)^2 / (P + 0.8S)$$

$$R = (9.5 - 0.2(5.16))^2 / (9.5 + 0.8(5.16))$$

$$R = (9.5 - 1.032)^2 / (9.5 + 4.13)$$

$$R = (8.468)^2 / 13.63$$

$$R = 71.70 / 13.63$$

$$R = 5.26''$$

Volume of Runoff (V)

$$V = (A \times R) / 12$$

$$V = (40,118 \times 5.26) / 12$$

$$V = 17,585.06 \text{ cf}$$

Difference in Runoff Proposed and Existing

$$17,585.06 \text{ cf} - 12,904.62 \text{ cf} = 4,680.44 \text{ cf}$$

$$1.0'' \times 40,118 \text{ sf} / 12'' = 3,343.17 \text{ cf}$$

$$2.5'' \times 14,807 \text{ sf} / 12'' = 3,084.79 \text{ cf}$$

**Provided Site Storage (Refer to Stormwater Retention Summary on sheet G1.1)**

Catchment Area Storage ((Top Area + Bottom Area) / 2) x Depth of Area

Depth of Areas, varies – refer to plan

Total on site storage provided (Areas 1 to 7) = **4,834.00 cf**

$$\underline{\underline{4,834.00 \text{ cf} > 4,680.44 \text{ cf}}}$$