

NELCO

TESTING AND ENGINEERING SERVICES

PERCOLATION TEST REPORT

CLIENT: Kimley-Horn
 2151 Le Jeune Road, Suite 202
 Coral Gables, Florida 33134

DATE: February 28, 2017
 JOB No.: P-170367


Project:	Fern-Isle Redevelopment Project
Location:	2300 NW 14 Street, Miami, Florida

PERCOLATION TEST RESULTS		
Test Number (No) (u)	1	SOIL CONDITIONS
Test Hole Diameter (d) (ft)	0.5	0.0' - 5.0': Sand with some gravel
Depth to Water Table (H ₂) (ft)	6	5.0' - 10.0': Sandy limestone
Saturated Depth (D _s) (ft)	9	10.0' - 15.0': Sand with some gravel
"Stabilized" Flow Rate (Q) (c.f.s.)	3.62E-02	
Hydraulic Conductivity (K)	3.17E-04	

$$K = \frac{4Q}{\pi d (2H_2^2 + 4H_2D_s + H_2d)}$$

Per S.F.W.M.D. Permitting Information Manual (Vol IV - May, 2004) " Usual Open-Hole Test"

Comments: **Please note:** "Soil Conditions" listed above are representative of material encountered in test hole only.
 In no way whatsoever shall any assumptions of soil conditions outside the test hole area be made based on the soil conditions outlined in this report.


V.M.B. Venkatesan
 Professional Engineer No. 63107
 State of Florida

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PERCOLATION TEST RESULTS		
Test Number (No) (u)	2	SOIL CONDITIONS
Test Hole Diameter (d) (ft)	0.5	0.0' - 4.0': Sand with some gravel
Depth to Water Table (H ₂) (ft)	6.25	4.0' - 15.0': Sandy limestone
Saturated Depth (D _s) (ft)	8.75	
"Stabilized" Flow Rate (Q) (c.f.s.)	4.06E-02	
Hydraulic Conductivity (K)	3.45E-04	

$$K = \frac{4Q}{\pi d (2H_2^2 + 4H_2D_s + H_2d)}$$

Per S.F.W.M.D. Permitting Information Manual (Vol IV - May, 2004) " Usual Open-Hole Test"

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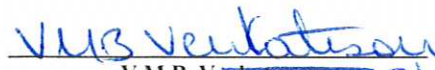
Project:	Fern-Isle Redevelopment Project
Location:	2300 NW 14 Street, Miami, Florida

PERCOLATION TEST RESULTS		
Test Number (No) (u)	3	SOIL CONDITIONS
Test Hole Diameter (d) (ft)	0.5	0.0' - 5.0': Sand with some gravel
Depth to Water Table (H ₂) (ft)	4.25	5.0' - 13.0': Sandy limestone
Saturated Depth (D _s) (ft)	10.75	13.0' - 15.0': Sand with some gravel
"Stabilized" Flow Rate (Q) (c.f.s.)	5.08E-02	
Hydraulic Conductivity (K)	5.85E-04	

$$K = \frac{4Q}{\pi d (2H_2^2 + 4H_2D_s + H_2d)}$$

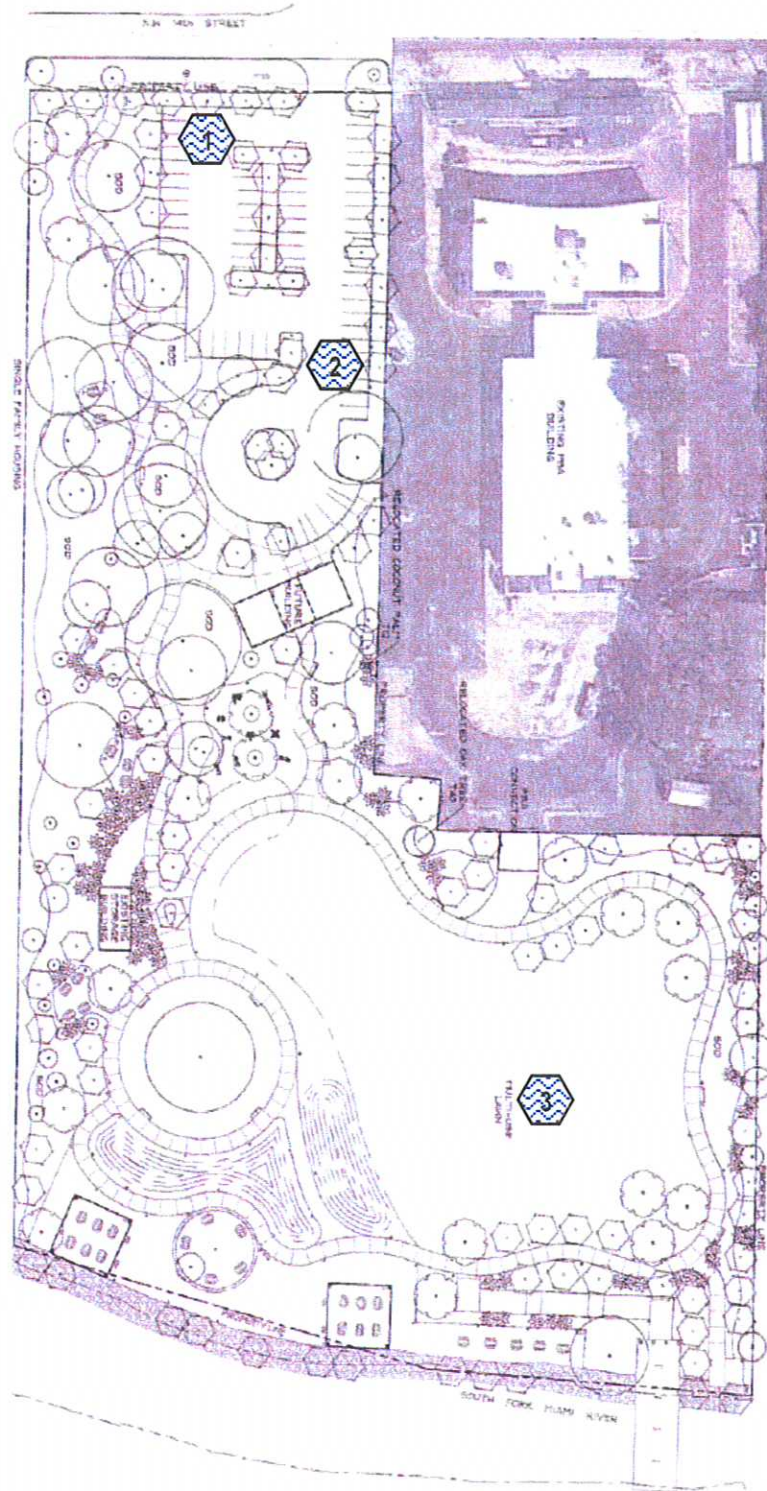
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Soil Percolation Test Location Sketch



Percolation Test Locations