DYNATECH ENGINEERING CORP.
WWW.DYNATECHENGINEERING.COM

Miami, October 8, 2024

Wissam S Naamani P.E.

Digitally signed by Wissam S Naamani P.E.
Date: 2024.11.20 11:55:52 -05'00'

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY **WISSAM SAAD NAAMANI, P.E.** ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

WISSAM SAAD NAAMANI LICENSE No. 39584 STATE OF FLORIDA PROFESSIONAL ENGINEER

102SW 1ST, LLC.
5100 Arthur Street
Hollywood, FL 33021

Re: Proposed 5-Story Building @
2306 Van Buren Street
Hollywood, FL 33021

Dear Mr. Glenn

Pursuant to your request, DYNATECH ENGINEERING CORP. (DEC) completed (2) Percolation Test on October 8, 2024 at the above referenced project. The purpose of our investigation was to help determine the hydraulic conductivity for storm drainage design.

The above hydraulic conductivity represents an ultimate value. The designer should decide on the required safety factor. This value is based on the existing soils at the location of the test. In the event the test location is changed or the soil removed and replaced; the test results will need to be re-evaluated.

Groundwater was measured immediately at the completion of each boring and was found at an average depth of approximately 8'-6" below existing ground surface at the time of drilling due to varying ground elevation. This immediate depth to groundwater level should not be relied upon alone for project design considerations. Existing ground surface elevation was not provided to us at the time of drilling. Design engineers must verify existing ground elevations as well as FEMA Flood and County highest and lowest groundwater elevation for their design. Fluctuation in water level is anticipated due to seasonal variations and run off as well as varying ground elevations construction dewatering and pumping activities in the area, king tides, flash flooding, storm surge and global warming. Site contractor must familiarize himself with site conditions in the event groundwater controls and dewatering is needed during construction. Surface flooding may result under hurricane conditions and should be taken into consideration in the design of the project. The contractor shall monitor and make sure that groundwater levels on adjacent properties are not adversely impacted due to the contractors dewatering activities. Specialty groundwater and water proofing contractors shall be consulted for all work below the groundwater level. All dewatering volume & effluent discharge must meet local, State & Federal requirements. Excavations should be kept as high as practically feasible above the groundwater level to minimize the need for construction dewatering operations.

In case of existing structures, existing footings, new foundations and proposed drainage lines, provisions shall be made by the structural engineer, the civil engineer, and site contractor to protect all footings from future erosion, undermining and exposure. The geotechnical engineer shall be notified of these conditions to evaluate the applicability of his recommendations. The drainage system installation depth and dimension must be verified in the field during construction.

Re: 2306 Van Buren Street, Hollywood, FL

This report was prepared in compliance with the 2023 Florida Building Code, 8th edition. Site elevations were not provided to us for the test locations. Depths reported on the field boring logs represent the depth below existing ground surface as they existed on the date of drilling. In the event of subsequent filling, excavations or site work, the reported depths must be adjusted to represent proper depths.

The boring log (s) attached present (s) a detailed description of the soils encountered at test location (s). The soil stratification shown on the boring log (s) is based on the examination of the recovered soil samples and interpretation of the driller's field log (s). It indicates only the approximate boundaries between soil types. The actual transitions between adjacent soil types may be gradual. Regardless of the thoroughness of a geotechnical exploration there is always the possibility that conditions may be different from those of the test locations; therefore, DYNATECH ENGINEERING CORP. does not guarantee any subsoil conditions between the bore test holes. In accepting and using this report the client understands and accepts that all data from the borings are strictly for foundation analysis only and are not to be used for excavation or back filling estimates and pricing. Owner and site contractor must familiarize themselves with site conditions prior to bidding. Client recognizes that actual conditions in areas not tested by DEC may differ from those anticipated in DEC's report. Client understands and accepts that this can significantly increase the cost of construction for its future projects. Client agrees that DEC shall not be responsible or liable for any variations in the actual conditions of areas not tested by DEC. This report is not a Phase I and/or Phase II Environmental Site Assessments. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval. The scope of services performed in the execution of this investigation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user. Said user must contact DEC in writing to verify applicability of this report for their use. All work must be conducted under the supervision of our geotechnical engineer. The discovery of any site or subsurface conditions during construction which deviate from the information obtained from our subsoil investigation is always likely and should be reported to us for our evaluation. All work shall be conducted in compliance with the Florida Building Code FBC and OSHA workers protection rules and all applicable Federal, State, County and City rules and regulations. In the event, changes, challenges and other value engineering opportunities occur without our knowledge, our recommendations may become compromised and geotechnical related issues may be misconstrued. Therefore, all geotechnical work shall be performed under our supervision to verify compliance with the intent of our recommendations.

Sincerely yours,

Wissam 10-10-2024

Wissam Naamani, P. E.
DYNATECH ENGINEERING CORP.
Florida Reg. No. 39584
Special Inspector No. 757
Certificate of Authorization No.: CA 5491

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY **WISSAM SAAD NAMANI, P.E.** ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

DYNATECH ENGINEERING CORP.
WWW.DYNATECHENGINEERING.COM

PERCOLATION TESTS

DYNATECH ENGINEERING CORP.
WWW.DYNATECHENGINEERING.COM

PERCOLATION TEST ACCORDING TO S.F.W.M.D. D.O.T. STANDARD TEST

DATE	**: October 8, 2024**
CLIENT	**: 102 SW 1ST, LLC.**
PROJECT	**: Proposed 5-Story Building @**
PROJECT LOCATION	**:** 2306 Van Buren Street, Hollywood, FL
LOCATION OF TEST	**: SAS**
DIAMETER OF HOLE	**: 7"**
TEST NO.	**: P-1**

TEST DEPTH (feet)	**0-10'**
AVERAGE FLOW (GPM)	**6.8**
AVERAGE K (CFS/Sq. Ft-Ft Head)	**2.12×10^{-4}**

*** The above hydraulic conductivity represents an ultimate value. The designer should decide on the required safety factor. This value is based on the existing soils at the location of the test.**

Average water table 8'-6" **below existing ground surface at time of drilling.**

SUBSURFACE INVESTIGATION

Depth Below Ground Surface	Soil Description
0'-0" to 0'-6"	Grass and topsoil
0'-6" to 1'-0"	Brown w/gray medium sand and white medium sand
1'-0" to 5'-6"	White medium sand
5'-6" to 8'-0"	Dark brown medium sand
8'-0" to 10'-0"	Tan medium sand w/limerock fragments

WISSAM SAAD NAAMANI LICENSE No. 39584 STATE OF FLORIDA PROFESSIONAL ENGINEER

Respectfully submitted,

Wissam

Wissam Naamani, P. E. 10-10-2024
DYNATECH ENGINEERING CORP.
Florida Reg. No. 39584
Certificate of Authorization No.: CA 5491

DYNATECH ENGINEERING CORP.
WWW.DYNATECHENGINEERING.COM

PERCOLATION TEST ACCORDING TO S.F.W.M.D. D.O.T. STANDARD TEST

DATE	**: October 8, 2024**
CLIENT	**: 102 SW 1ST, LLC.**
PROJECT	**: Proposed 5-Story Building @**
PROJECT LOCATION	**:** 2306 Van Buren Street, Hollywood, FL
LOCATION OF TEST	**: SAS**
DIAMETER OF HOLE	**: 7"**
TEST NO.	**: P-2**

TEST DEPTH (feet)	**0-10'**
AVERAGE FLOW (GPM)	**6.9**
AVERAGE K (CFS/Sq. Ft-Ft Head)	**2.15×10^{-4}**

*** The above hydraulic conductivity represents an ultimate value. The designer should decide on the required safety factor. This value is based on the existing soils at the location of the test.**

Average water table 8'-6" **below existing ground surface at time of drilling.**

SUBSURFACE INVESTIGATION

Depth Below Ground Surface	Soil Description
0'-0" to 0'-6"	Gravel rocks
0'-6" to 1'-6"	Gray silty sand
1'-6" to 6'-0"	White medium sand
6'-0" to 8'-6"	Dark brown medium sand
8'-6" to 10'-0"	Tan medium sand w/limerock traces

WISSAM SAAD NAAMANI LICENSE No. 39584 STATE OF FLORIDA PROFESSIONAL ENGINEER

Respectfully submitted,

Wissam 10-10-2024

Wissam Naamani, P. E.
DYNATECH ENGINEERING CORP.
Florida Reg. No. 39584
Certificate of Authorization No.: CA 5491

DYNATECH ENGINEERING CORP.
WWW.DYNATECHENGINEERING.COM

SITE PLAN

PERCOLATION TEST

⊕ PERCOLATION TEST LOCATION (P#)

DATE: OCTOBER 8, 2024 CLIENT: 102W1ST, LLC. DRAWN BY: RN DRAWING SCALE: NOT TO SCALE	PROPOSED BUILDING 2306 VAN BUREN STREET HOLLYWOOD, FL 33020	DYNATECH ENGINEERING CORP. 750 WEST 84TH STREET HIALEAH, FLORIDA 33014 (TEL) 305-828-7499 (FAX) 305-828-9598 EMAIL: INFO@DYNATECHENGINEERING.COM