City of Doral

RFP No. 2021-09
Construction of Pedestrian Bridge – Design Build
Addendum No. 9

Financial Projects Number(s): 441642-1-58-01
Contract Number: RFP No. 2021-09

Below are changes/ updates regarding this project. This Addendum is and does become a part of the above-mentioned solicitation. This addendum is issued to modify the subject solicitation as follows:

1. Addendum No. 7 indicated in the REVISED SCHEDULE that Technical Proposals are due in the City of Doral by 9/29/2021 before 4:00 PM (EST) submitted electronically via DemandStar or Vendor Registry. We note that the requirement to submit electronically via those portals does not necessarily contradict (or remove) the instruction in the RFP that "The Technical Proposal shall be bound with the information, paper size and page limitation requirements" and that a "copy of the written Technical Proposal must also be submitted electronically in PDF format." It is unclear whether the City will require a hard copy submittal as well as the electronic copy and (if so) whether the submittal of the hard copy would need to be made at the same time as the electronic submittal through DemandStar/Vendor Registry.
   - The City is requiring electronic submittals to be uploaded via DemandStar or Vendor Registry. Please reference the revised schedule in Addendum No. 8 for dates and times.

2. As we are going through Addendum 7th, we noticed that the timeframe between the City posting the responses to the questions including the missing existing utilities files and missing geotechnical information and the submittal of the Technical Proposal is only 7 days. This timeframe is unrealistic, and as mentioned before, we need at least 4 weeks in between these two to be able to analyze the missing information and verify our approved ATC's are still viable.
   - Please see Attached the Reference Document R-5 in its entirety with appendices.

3. Question 3 of Addendum 3 (utilities) has the following link: https://cityofdoral.files.com/f/f275687905c4be01. We made the city aware that the link doesn't work, therefore we requested that information to be distributed again. Please let me know if the problem is on our end and if you in fact can open the link. Also, the following geotechnical files were listed in the index (page 70 of the file "2021-09 RFP Construction of Pedestrian Bridge - SCOPE 2.pdf") but not included in the RFP:

   LIST OF TABLES, SHEETS AND APPENDICES
   APPENDIX A
   SUMMARY OF USDA SOIL SURVEY ..... TABLE 1
   SUMMARY OF LABORATORY TEST RESULTS ON SOIL SAMPLES..... TABLE 2

   APPENDIX B
   USDA AND USGS SITE VICINITY MAPS AND REPORT OF CORE BORING SHEETS
   - Here is a working link with the required information. https://files.cityofdoral.com?/share/view/2og67-cvc7lhao. Attached are the CADD files used to develop the Pedestrian Bridge Concept design layout, plan, and elevation. The CADD files

City of Doral
RFP No. 2021-09
Construction of Pedestrian Bridge – Design Build
Addendum No. 9

(topo, survey, etc.) provided in the "Reference Files" directory are for reference purposes only. Also a KMZ file is provided for your use. (Note the CADD reference files [topo, survey, etc.) were provided by the City's Consultant and were not developed by PHD).

REVISED SCHEDULE

Date	Minimum # of Days	Event
~~09/22/2021~~ ~~10/6/2021~~ 10/27/2021	7	Deadline for the City to post responses to the City's procurement email: procurement@cityofdoral.com for questions submitted by the Design-Build Firms prior to the submittal of the Technical Proposal.
~~09/29/2021~~ ~~10/27/2021~~ 11/18/2021	2	Technical Proposals due in City of Doral by Thursday, November 18th, 2021, by 11:00 AM (EST) Hard copies are due to the City Clerk's Office in sealed packing. Additional details will be emailed to shortlisted firms. **DO NOT EMAIL** Join the meeting from your computer, tablet or smartphone. https://global.gotomeeting.com/join/288067341 You can also dial in using your phone. US: +1 (872) 240-3412 Access Code: 288-067-341
~~10/01/2021~~ ~~10/29/2021~~ 11/19/2021	0	Deadline for Design-Build Firm to "opt out" of Technical Proposal Page Turn meeting. Friday, November 19th, 2021, 5:00 PM (EST) Join the meeting from your computer, tablet or smartphone. https://global.gotomeeting.com/join/847854141 You can also dial in using your phone. US: +1 (312) 757-3121 Access Code: 847-854-141
~~10/06/2021~~ ~~11/3/2021~~ 11/30/2021	7	Technical Proposal Page Turn Meeting. Times will be assigned at the submittal date. 30 Minutes will be allotted for this Meeting. Tuesday, November 30th, 2021, 9:00 AM (EST) Join the meeting from your computer, tablet or smartphone. https://global.gotomeeting.com/join/782248477 You can also dial in using your phone. US: +1 (646) 749-3122 Access Code: 782-248-477
~~10/12/2021~~ ~~11/8/2021~~ 12/6/2021	14	Question and Answer Written Reponses. Deadline for the City of Doral to provide a list of questions/clarifications for the Design-Build Firm to answer.
~~10/26/2021~~ ~~11/15/2021~~	7	Deadline for submittal of Question-and-Answer Written Responses to the City's questions/clarifications from the Design-Build Firm. 5:00 pm local time.

City of Doral
RFP No. 2021-09
Construction of Pedestrian Bridge – Design Build
Addendum No. 9

12/13/2021		
~~10/29/2021~~ ~~11/22/2021~~ 12/20/2021	7	Deadline for submittal of follow up questions to previously submitted Question and Answer Written Responses to the City's questions/clarifications from the Design-Build Firm. 5:00pm local time
~~11/4/2021~~ ~~12/1/2021~~ 12/29/2021	7	Deadline for submittal of Question-and-Answer Written Responses to the City's follow up questions. 5:00 pm local time.
~~11/10/2021~~ ~~12/3/2021~~ 1/5/2022	0	Deadline for submittal of questions, for which a response is assured, prior to the submission of the Price Proposal. All questions shall be submitted to the City's procurement email: procurement@cityofdoral.com.
~~11/16/2021~~ ~~12/14/2021~~ 1/12/2022	5	Deadline for the City of Doral to post responses to procurement e-mailed questions submitted by the Design-Build Firms prior to the submittal of the Price Proposal.
~~11/23/2021~~ ~~12/21/2021~~ 1/19/2022	0	Deadline for the Design-Build Firm to submit a written statement per Section III. Threshold Requirements, F. Question and Answer Written Responses
~~11/30/2021~~ ~~1/5/2022~~ 1/31/2022	2	Price Proposals due in City of Doral Monday, January 31st, 2022, 4:00 PM (EST) via DemandStar or Vendor Registry. Join the meeting from your computer, tablet or smartphone. https://global.gotomeeting.com/join/963302461 You can also dial in using your phone. United States: +1 (571) 317-3122 Access Code: 963-302-461
~~12/1/2021~~ ~~1/7/2022~~ 2/4/2022	0	Public announcing of Technical Scores and opening of Price Proposals at 10:00 am local time in City of Doral Government Center, 8401 NW 53rd Terrace or attend virtual meeting. Friday, February 4th, 2022, 10:00 AM (EST) Join the meeting from your computer, tablet or smartphone. https://global.gotomeeting.com/join/959931101 You can also dial in using your phone. US: +1 (669) 224-3412 Access Code: 959-931-101
~~12/1/2021~~ ~~1/7/2022~~ 2/4/2022	7	Public Meeting or Virtual Meeting Date of Selection Committee to determine intended Award. Friday, February 4th, 2022, 11:00 AM (EST) Join the meeting from your computer, tablet or smartphone. https://global.gotomeeting.com/join/429203469 You can also dial in using your phone. US: +1 (408) 650-3123 Access Code: 429-203-469
~~12/20/2021~~ ~~1/26/2022~~ 3/2/2022	0	Final Selection Posting Date - Wednesday, March 2nd, 2022, End of day (EST) Join the meeting from your computer, tablet or smartphone. https://global.gotomeeting.com/join/431538173

		You can also dial in using your phone. US: +1 (786) 535-3211 Access Code: 431-538-173
~~01/05/2022~~ ~~2/9/2022~~ 3/9/2022	6	Anticipated Award Date - Wednesday, March 9th, 2022, 10:00 AM (EST) Join the meeting from your computer, tablet or smartphone. https://global.gotomeeting.com/join/863006501 You can also dial in using your phone. US: +1 (872) 240-3212 Access Code: 863-006-501
~~01/24/2022~~ ~~2/25/2022~~ 3/31/2022	10	Anticipated Execution Date - Thursday, March 31st, 2022, 10:00 AM - 11:00 AM (EST) Join the meeting from your computer, tablet or smartphone. https://global.gotomeeting.com/join/379919941 You can also dial in using your phone. US: +1 (408) 650-3123 Access Code: 379-919-941

City of Doral

DESIGN-BUILD PROJECT FOR PEDESTRIAN BRIDGE OVER NW 41ST STREET AT HEFT
FINANCIAL PROJECT ID: 441642-1-58-01

REFERENCE DOCUMENT R-5
GEOTECHNICAL SURVEY

February 7, 2020

Pevida Highway Designers (PHD)
8600 NW 17th Street, Suite 160
Doral, Florida 33126

Attention: Mr. Allan Sequeira, P.E.

Re: Preliminary Geotechnical Exploration Data Report
Pedestrian Bridge over NW 41st Street
City of Doral, Miami-Dade County, Florida
PSI Project No. 03971499-1

Dear Mr. Sequeira:

Professional Service Industries, Incorporated (PSI), an Intertek Company has completed a preliminary geotechnical exploration for the proposed pedestrian bridge over Northwest 41st Street in Doral, Miami-Dade County, Florida. This report presents the results of the preliminary exploration. This study was performed in general accordance with PSI's Technical Proposal No. 0397-100.

PSI sincerely appreciates the opportunity of providing geotechnical engineering services to Pevida Highway Designers (PHD) on this project. If you have questions concerning the contents of this report or need additional information, please do not hesitate to contact our office.

Respectfully submitted,
Professional Service Industries, Inc.
Certificate of Authorization No. 3684

Nayan Saha, P.E.
Senior Geotechnical Engineer
Florida License No. 81635

Lloyd T. Lasher Jr., P.E.
Senior Geotechnical Engineer
Florida License No. 56794

Courtland Alvies, E.I.
Staff Engineer

PRELIMINARY GEOTECHNICAL EXPLORATION
DATA REPORT
BRIDGE STRUCTURES: PEDESTRIAN BRIDGE OVER 41ST STREET
CITY OF DORAL
MIAMI-DADE COUNTY, FLORIDA
PSI PROJECT NO. 03971499-1

TABLE OF CONTENTS

LIST OF TABLES, SHEETS AND APPENDICES

APPENDIX A

APPENDIX B

USDA AND USGS SITE VICINITY MAPS AND REPORT OF CORE BORING SHEETS

1.0 INTRODUCTION

1.1 PROJECT INFORMATION

PSI understands that the subject project consists of work related to the development of a new pedestrian bridge over Northwest 41st Street (Doral Boulevard) at the Homestead Extension of Florida's Turnpike (SR 821) (HEFT) in the City of Doral, Miami-Dade County, Florida. We understand that the proposed bridge will be a single span structure over the Northwest 41st Street right-of-way to avoid impacting existing culverts connecting the Snapper Creek Canal. The overall length will be approximately 160 ½ feet clear between elevator towers which will be located a minimum of 16 feet from the existing edge of pavement. The bridge will carry pedestrian and bicycle traffic and shall provide a minimum of 12 feet total clear walkway with access provided through a combination of elevators (single), staircases, and ramps. Based on our review of the concept plans provided, we have identified the following bridge components.

Component	Station		Approx. Length (ft.)	Approx. Max. Height (ft.)
	Begin	End		
MSE Wall A-1	4024+86.11	4026+96.11	210	12
South Ramp (End Bent 1, Pier 2, Pier 3, Elevator Tower 4)	4026+96.11	4028+13.86	118	22
Prefabricated Streel Truss Bridge over NW 41st St. (Elevator Tower 4 to Elevator Tower 5)	4028+13.86	4029+88.36	174.5	22
North Ramp (Elevator Tower 5, Pier 6, Pier 7, End Bent 8)	4029+88.36	4031+06.11	118	22
MSE Wall B-2	4031+06.11	4033+16.11	210	12

The objective of the report is presenting the exploration results in a data report. Providing geotechnical engineering recommendations, foundation analysis and interpretation of the exploration data are out of the currently approved scope for this project. Should any of the noted details be inconsistent with the planned development, PSI requests that you contact us immediately to allow us to make any necessary modifications to this report.

1.2 SITE DESCRIPTION

The proposed pedestrian bridge is to be located east of the Homestead Extension of Florida's Turnpike (SR 821). The planned development appears to be an extension of the Turnpike Trail which runs in the north and south direction parallel to the east side of the Turnpike. It is planned to span over Northwest 41st Street (Doral Boulevard). Specifically, the development is to be located within Township: 53 South, Range: 39 East & 40 East, Sections 24, 25, 19, & 30 (please see **Sheet 1** in **Appendix B**). The proposed site is located in a generally urban area of Miami-Dade County.

2.0 SCOPE OF SERVICES

Our services for this project consisted of providing geotechnical engineering services in general accordance with the Florida Department of Transportation (FDOT) "Soils and Foundation Handbook". The scope for this report was limited to providing geotechnical exploration results.

The following services were provided to achieve the preceding objective of the geotechnical exploration program:

1. Reviewed the "Soil Survey of Dade County, Florida" published by the United States Department of Agriculture (USDA) Soil Conservation Service (SCS) and the "Hialeah SW, Florida" Quadrangle Map published by the United States Geologic Survey (USGS).

2. Prepared boring location plans.

3. Staked boring locations in the field.

4. Conducted a general visual reconnaissance of the site and coordinated underground utility location services.

5. Planned and performed a total of four (4) SPT borings to termination depths varying from 30 feet to 75 feet.

6. Measured the groundwater table, if encountered, in each of the borings performed.

7. Visually classified the sampled soils in general accordance with the USCS Soil Classification System.

8. Conducted a laboratory testing program consisting of full gradation tests, natural moisture content tests, fine content tests and Atterberg Limits.

9. Prepared this Geotechnical Exploration Data Report summarizing pertinent information from the field and laboratory testing program results.

3.0 SUBSURFACE EXPLORATION

3.1 BORING LOCATIONS AND UTILITY CLEARANCE

The boring location plan was generated based on a review of the general guidance provided in the FDOT "Soils and Foundation Handbook" along with our engineering judgment. The bridge boring locations were selected by PSI based on the preliminary plans for the proposed new bridge. Generally, the borings were performed at the proposed boring locations. When not possible, due to utility constraints or access restrictions, the boring locations were moved. Utility clearances were coordinated by PSI.

3.2 FIELD EXPLORATION

Field exploration consisting of four (4) SPT borings in the vicinity of the planned bridge development. The boring locations were selected based on the preliminary plans provided to PSI. The approximate latitude and longitude of the boring locations was obtained with a recreational grade, hand-held GPS unit and should be considered approximate.

All of the soil borings were conducted in general accordance with the FDOT Soils and Foundation Handbook and ASTM D 1586. All the borings were sampled nearly continuously to 10 feet below the existing ground surface before each was advanced with a truck mounted drilling rig until reaching boring termination depth. Samples obtained deeper than 10 feet were collected on intervals of 2 ½ feet. As called for by local regulations, the borings were grouted upon completion.

After seating the sampler 6 inches, the number of successive blows required to drive the sampler 12 inches into the soil constitutes the test result commonly referred to as the N-value. The N-value has been empirically correlated with various soil properties and is considered to be indicative of the relative density of cohesionless soils and the consistency of cohesive soils. The reported -values were not corrected for hammer efficiency.

The recovered split spoon samples were visually classified in the field with representative portions of the samples placed in air-tight jars and transported to Intertek-PSI Tampa office for review by a geotechnical engineer and for confirmation of the field classification. Classifications were performed in general accordance with the USCS Soil Classification System. A soil profile was prepared for each borehole indicating lithological materials encountered and any additional pertinent information.

The boring locations along with soil profiles are presented on the Report of Core Borings sheets in **Appendix B**. In addition, latitude and longitude coordinates of each boring are provided on those sheets.

4.0 LABORATORY TESTING

4.1 SOIL CLASSIFICATION TESTING

Representative soil samples collected from the borings were visually reviewed in the laboratory by a geotechnical engineer to confirm the field classification. The samples were classified in general accordance with the USCS Soil Classification System for the structure borings. Classification was based on visual observations with the aid of laboratory test results performed on selected representative samples. Laboratory classification tests consisting of full gradation, fines content (% passing #200 sieve) and natural moisture content tests were performed on selected soil samples believed to be representative of the materials encountered.

4.2 LABORATORY TEST RESULTS

The laboratory test results performed on soil samples for the structure soil borings are presented and summarized in **Table 2** of **Appendix A**. The Report of Core Borings sheets in **Appendix B** also summarize the results of the laboratory testing program results. Corrosion test results and environmental classification for designing the bridge is also presented in the Report of Core Borings.

5.0 GENERALIZED SUBSURFACE SOIL CONDITIONS

5.1 REGIONAL GEOLOGY

The site is in the Coastal Plain Physiographic Province. The Coastal Plain is a wedge-shaped deposit of Cretaceous and younger sediments which ranges in thickness from near zero at the contact with the Piedmont Physiographic Province (the Fall Line) along its northwest edge, to thousands of feet at the coast. Coastal Plain soils are marine deposits which range in age from [10.1] near the contact with ancient continental rocks at the "Fall Line" to [10.2] near the coast. They contain various materials including interbedded soft and hard limestones, gravels, sands, silts, and clays, as well as organics.

5.2 DADE COUNTY SOIL SURVEY

The “Soil Survey of Dade County, Florida”, published in 1987 by the United States Department of Agriculture (USDA) Soil Conservation Service (SCS), was reviewed for general near-surface soil information within the project vicinity. The soil mapping units within the project vicinity are summarized on **Table 1** in **Appendix A**.

A portion of the USDA SCS Soil Survey Maps depicting the areas within the vicinity of the project is also presented in **Appendix B**.

It should be noted that information contained in the USDA Soil Survey is very general and may be outdated. It may not be reflective to the actual soil and groundwater conditions since areas of the project site have been reworked and modified using heavy earthmoving equipment.

5.3 USGS TOPOGRAPHIC SURVEY

The USGS Quadrangle maps for “Hialeah SW, Florida” issued in 1988 indicate that natural ground surface elevation of the land along the alignment may be in the range of approximately +5 to +7 feet National Geodetic Vertical Datum (NGVD 88). A reproduction of the USGS topographic map for the project vicinity is presented in **Appendix B**.

5.4 EXPLORATION RESULTS

The results of the soil borings performed are presented on Report of Core Borings sheets in **Appendix B** in the form of soil profiles, along with the profile legend and other pertinent information such as measured groundwater levels (if encountered prior to advancing with mud rotary drilling). Soil stratifications are based on an examination of the recovered soil samples, the laboratory testing, and interpretation of field boring logs by a geotechnical engineer. The stratification lines represent the approximate boundaries between soil types of significantly different engineering properties. The actual transition may be gradual. In some cases, small variations in properties not considered pertinent to our engineering evaluation may have been abbreviated or omitted for clarity. The profiles represent the conditions at the boring locations only and variations may and likely do occur among the widely spaced borings.

5.5 GROUNDWATER

Encountered groundwater table information (if encountered prior to advancing with mud rotary drilling) is shown graphically on the Report of Core Borings sheets in **Appendix B.** Groundwater conditions will change with environmental variations and seasonal conditions, such as the frequency and magnitude of rainfall patterns, as well as man-made influences, such as existing swales, drainage ponds and underdrains.

6.0 CONSTRUCTION CONSIDERATIONS

The overall site preparation and mechanical densification work for the construction of the bridges should be performed in accordance with the latest FDOT standard specifications for Road and Bridge Construction and Standard Index requirements.

In Federal Register, Volume 54, No. 209 (October 1989), the United States Department of Labor, Occupational Safety and Health Administration (OSHA) amended its "Construction Standards for Excavations, 29 CFR, Part 1926, Subpart P". This document was issued to better ensure the safety of workmen entering trenches or excavations. It is mandated by this federal regulation that excavations, whether they be utility trenches, basement excavations or footing excavations, be constructed in accordance with current OSHA guidelines. It is our understanding that these regulations are strictly enforced and if they are not closely followed, the owner and the contractor could be liable for substantial penalties.

The contractor is solely responsible for designing and constructing stable, temporary excavations and should shore, slope, or bench the sides of the excavations as required to maintain stability of both the excavation sides and bottom. The contractors "responsible person", as defined in 29 CFR, Part 1926, should evaluate the soil exposed in the excavations as part of the contractor's safety procedures. In no case should slope height, slope inclination, or excavation depth, including utility trench excavation depth, exceed those specified in all local, state, and federal safety regulations.

7.0 REPORT LIMITATIONS

Our professional services have been performed, our findings obtained, and this report prepared in accordance with generally accepted geotechnical engineering principles and practices. Professional Service Industries, Incorporated (PSI) is not responsible for the conclusions, opinions or recommendations made by others based on these data.

The scope of the exploration was intended to evaluate shallow soil conditions and does not include an evaluation of the potential of sinkhole development for the project site. The scope of our services does not include any environmental assessment or investigation for the presence or absence of hazardous or toxic materials in the soil, groundwater, or surface water within or beyond the site studied.

APPENDIX A

TABLE 1
SUMMARY OF USDA SOIL SURVEY
PEDESTRIAN BRIDGE PROJECT, DORAL FLORIDA
MIAMI-DADE COUNTY, FLORIDA
PSI PROJECT NO. 03971499-1

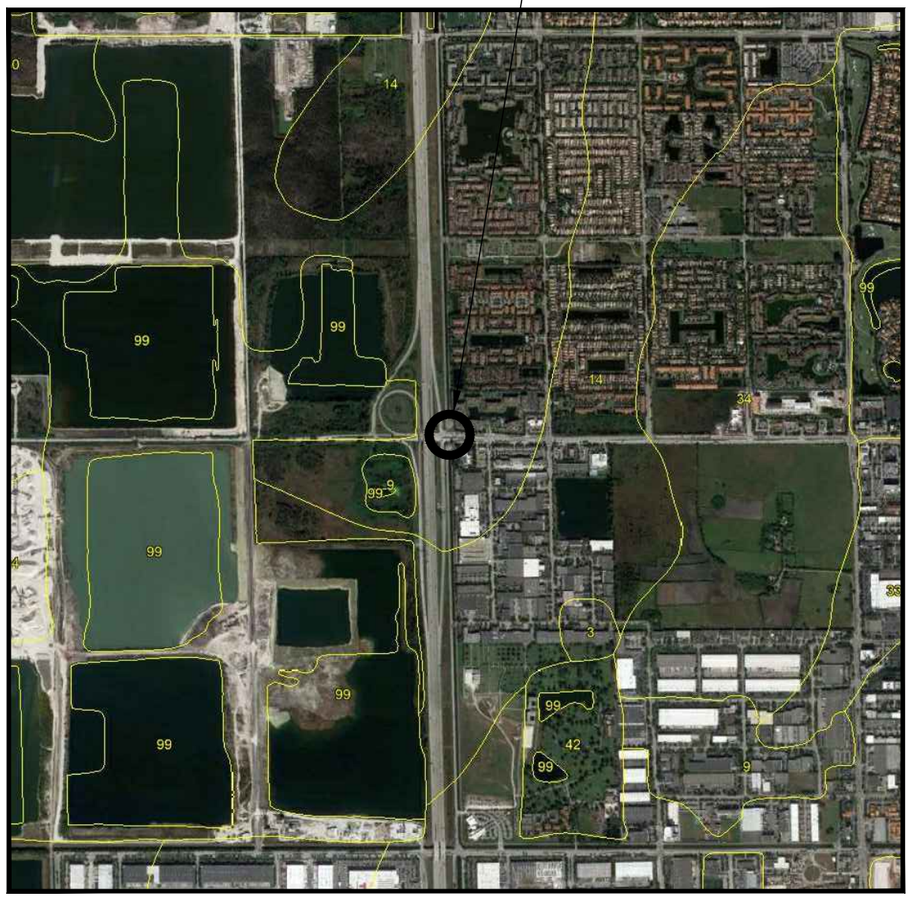
USDA MAP SYMBOL AND SOIL NAME	SOIL CLASSIFICATION				SEASONAL HIGH WATER TABLE			RISK OF CORROSION	
	DEPTH (in)	AASHTO GROUP	USCS GROUP	PERMEABILITY (in/hr)	DEPTH (ft)	KIND	DURATION (months)	UNCOATED STEEL	CONCRETE
Lauderhill (3)	0 - 30	---	PT	6.0 - 20.0	0.0 - 2.0	Apparent	Jun - Apr	High	Moderate
	30 - 34	---	---	2.0 - 20.0					

TABLE 2
SOIL LAB RESULTS SUMMARY TABLE
PEDESTRIAN BRIDGE PROJECT, DORAL FLORIDA
MIAMI-DADE COUNTY, FLORIDA
PSI PROJECT NO. 03971499-1

BORING NUMBER	SAMPLE DEPTH (feet)	APPROXIMATE BORING LOCATION		ORGANIC CONTENT (%)	MOISTURE CONTENT (%)	SIEVE ANALYSES (%)					ATTERBERG LIMITS (%)	
		STATION	OFFSET (ft)			#10	#40	#60	#100	#200	LL	PI
P-1	2-4	132+85	27 LT	41	71	---	---	---	---	---	---	---
P-2	4-6	132+85	27 LT	14	36	---	---	---	---	---	---	---
P-3	2-3	132+85	27 LT	---	19	---	---	---	---	---	---	---
P-3	8-10	132+85	27 LT	---	12	31	23	20	14	8	---	---
P-4	4-6	132+02	50 LT	---	19	---	---	---	---	---	---	---
P-4	5-6	132+02	50 LT	---	17	49	40	33	21	12	---	---

APPENDIX B

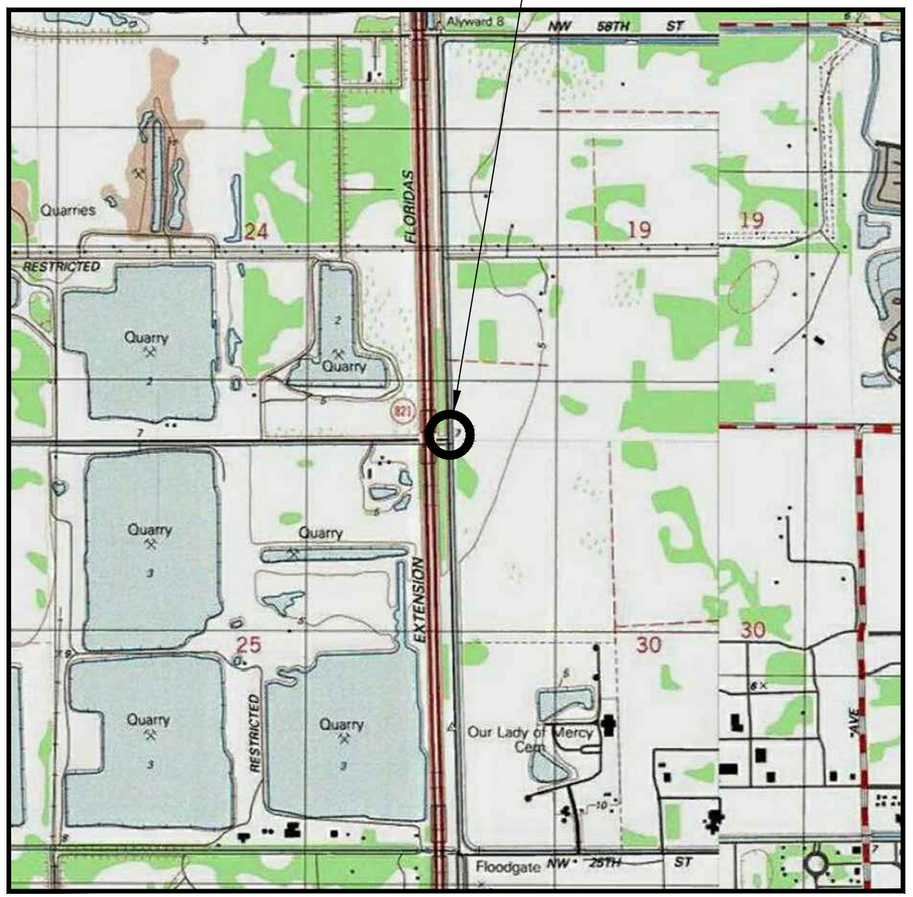
APPROXIMATE SITE LOCATION



REFERENCE: USDA SCS, "SOIL SURVEY OF MIAMI–DADE COUNTY, FLORIDA"
TOWNSHIP: 53 SOUTH 53 SOUTH UC DAVIS SOIL
RANGE: 39 EAST 40 EAST RESOURCE LABORATORY
SECTION: 24 & 25 19 & 30 SCALE: 1" = 2000'

USDA VICINITY MAP

APPROXIMATE SITE LOCATION



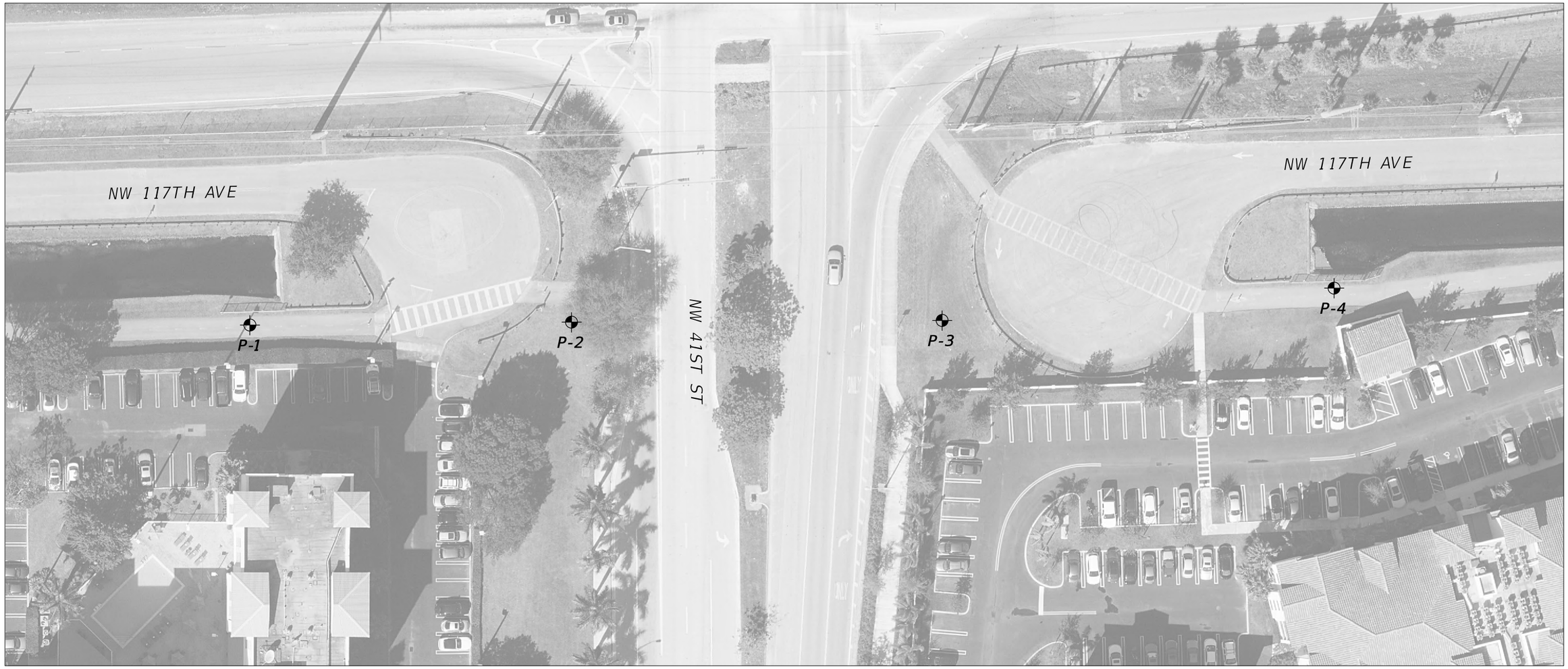
REFERENCE: USGS "HIALEAH SW, FLORIDA" QUADRANGLE MAP
TOWNSHIP: 53 SOUTH 53 SOUTH
RANGE: 39 EAST 40 EAST
SECTION: 24 & 25 19 & 30 SCALE: 1" = 2000'

USGS VICINITY MAP

DRAWN	DJG
CHECKED	CM
APPROVED	NS
SCALE	NOTED

USDA & USGS VICINITY MAPS
PEDESTRIAN BRIDGE OVER NW 41ST ST
MIAMI–DADE COUNTY, FLORIDA

DATE	PROJ. NO.	SHEET
JAN 20	03971499	SHEET 1



APPROXIMATE SPT BORING LOCATION

0 10 50
Feet

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NAYAN SAHA, P.E.
P.E. LICENSE NUMBER 81635
PROFESSIONAL SERVICE INDUSTRIES, INC. (PSI)
7950 N.W. 64TH STREET
MIAMI, FL 33166
CERTIFICATE OF AUTHORIZATION 3684

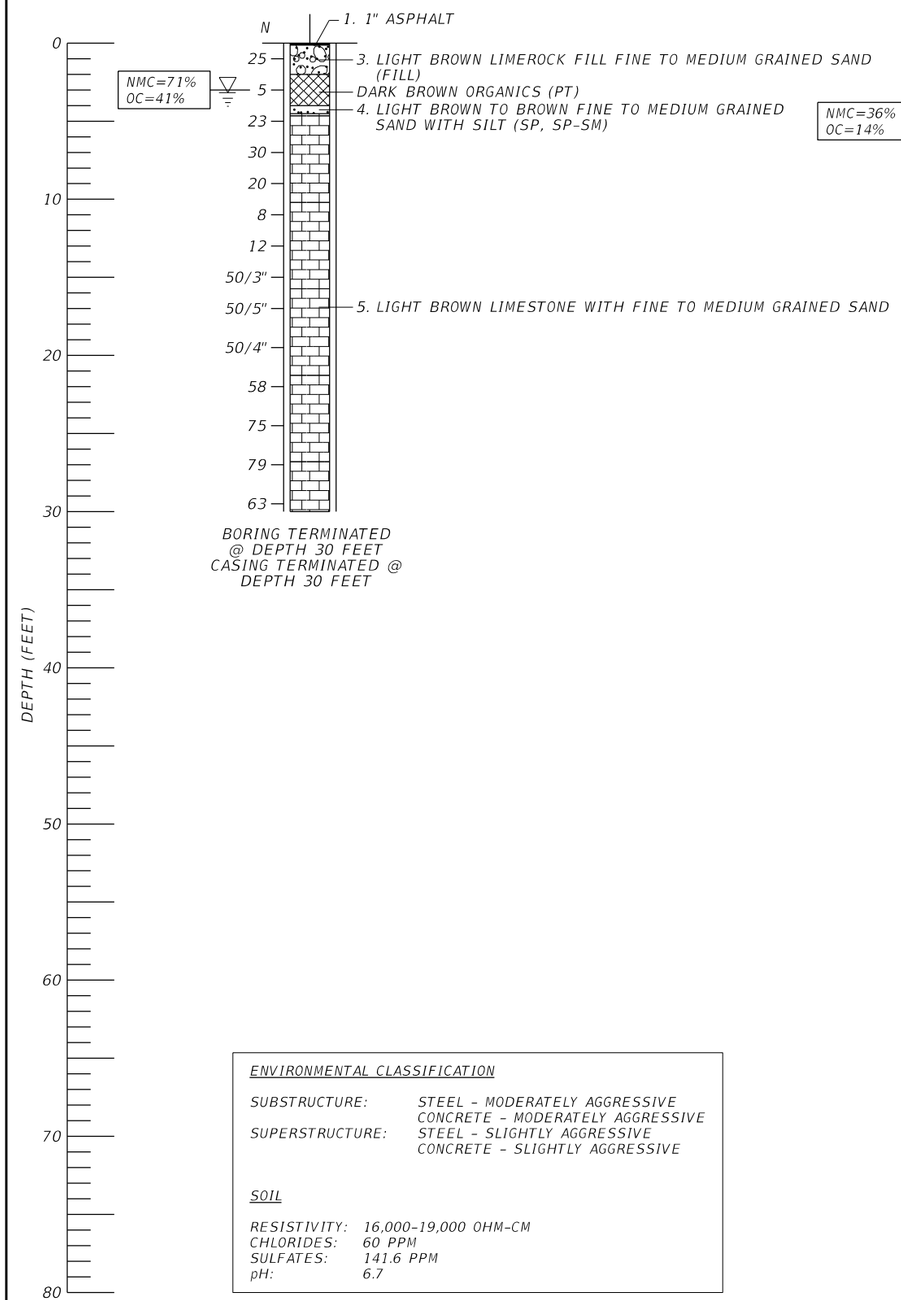
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 948	MIAMI-DADE	-

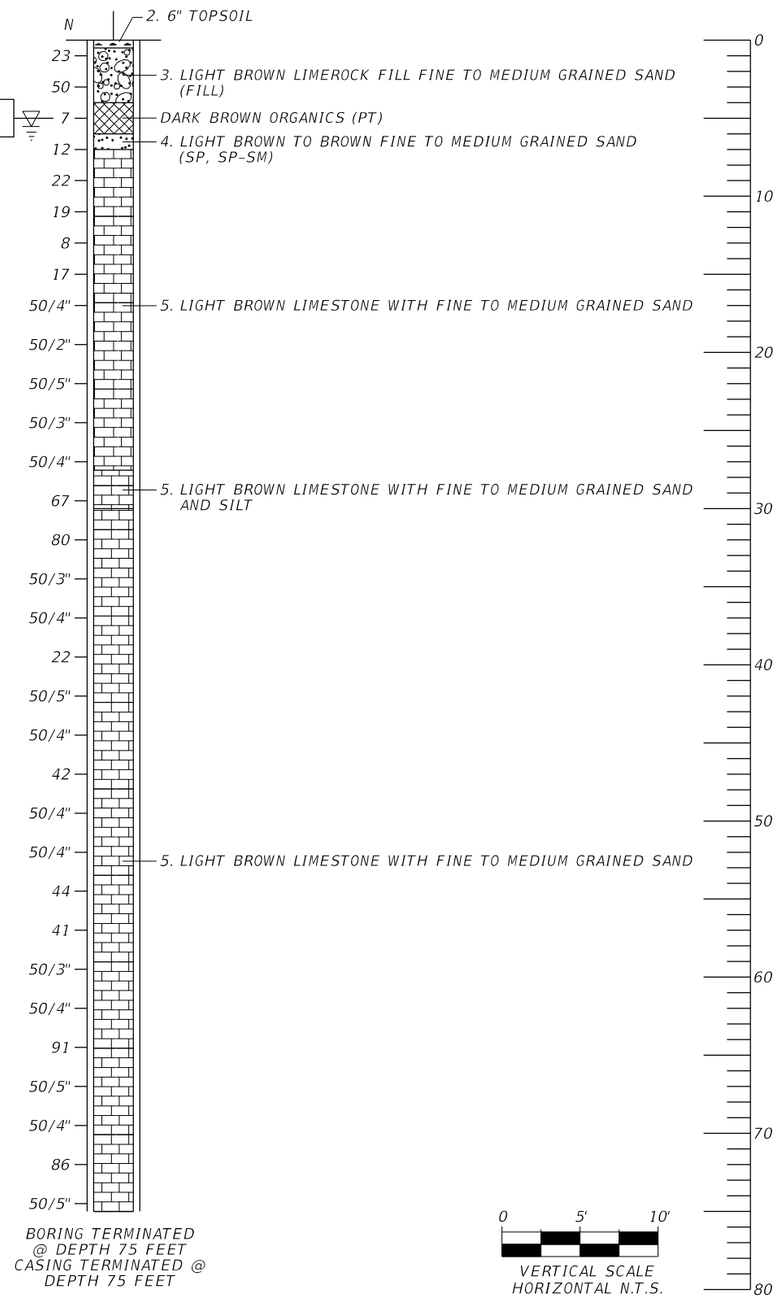
BORING LOCATION PLAN

SHEET NO.

BORING No. P-1
LATITUDE 25.811066
LONGITUDE -80.385434
ELEVATION N/A
DATE 1/13/20



BORING No. P-2
LATITUDE 25.811486
LONGITUDE -80.385436
ELEVATION N/A
DATE 1/14/20



0 5' 10'
VERTICAL SCALE
HORIZONTAL N.T.S.

NOTES

- GEOGRAPHIC COORDINATE DATA AT THE SPT BORING LOCATION WAS OBTAINED USING A HAND HELD GPS INSTRUMENT (GARMIN 64 MAP). THE DATA IS ACCURATE TO WITHIN 12 FEET
- N NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION
- X/y", "X" BLOWS FOR "y" NCHES OF PENETRATION.
- GROUNDWATER LEVEL ON THE DATE OF DRILLING.
- CASING USED (NW).
- DRILLED BY: LUIS R. (PSI)

LEGEND

1. ASPHALT PAVEMENT
2. TOPSOIL
3. LIGHT BROWN LIMEROCK FILL FINE TO MEDIUM GRAINED SAND (FILL)
4. LIGHT BROWN TO BROWN FINE TO MEDIUM GRAINED SAND (SP, SP-SM)
5. LIGHT BROWN LIMESTONE WITH FINE TO MEDIUM GRAINED SAND

SPT NOTES

HAMMER WEIGHT	140 LBS.
HAMMER DROP HEIGHT	30 INCHES
TYPE OF HAMMER	AUTOMATIC
SPOON LENGTH	18.00 OR 24.00 INCHES
SPOON INSIDE DIAMETER	1.500 INCH
SPOON INSIDE DIAMETER (AT OPENING)	1.375 INCH
SPOON OUTSIDE DIAMETER	2.000 INCH
TYPE OF RIG	CME 55

GRANULAR MATERIALS-RELATIVE DENSITY	AUTOMATIC HAMMER SPT-N (BLOWS/12-INCH)
VERY LOOSE	LESS THAN 3
LOOSE	3-8
MEDIUM DENSE	8-24
DENSE	24-40
VERY DENSE	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	**AUTOMATIC HAMMER SPT-N (BLOWS/12-INCH)**
VERY SOFT	LESS THAN 1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	GREATER THAN 24

ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE: STEEL - MODERATELY AGGRESSIVE
CONCRETE - MODERATELY AGGRESSIVE
SUPERSTRUCTURE: STEEL - SLIGHTLY AGGRESSIVE
CONCRETE - SLIGHTLY AGGRESSIVE

SOIL

RESISTIVITY: 16,000-19,000 OHM-CM
CHLORIDES: 60 PPM
SULFATES: 141.6 PPM
pH: 6.7

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NAYAN SAHA, P.E.
P.E. LICENSE NUMBER 81635
PROFESSIONAL SERVICE INDUSTRIES, INC. (PSI)
7950 N.W. 64TH STREET
MIAMI, FL 33166
CERTIFICATE OF AUTHORIZATION 3684

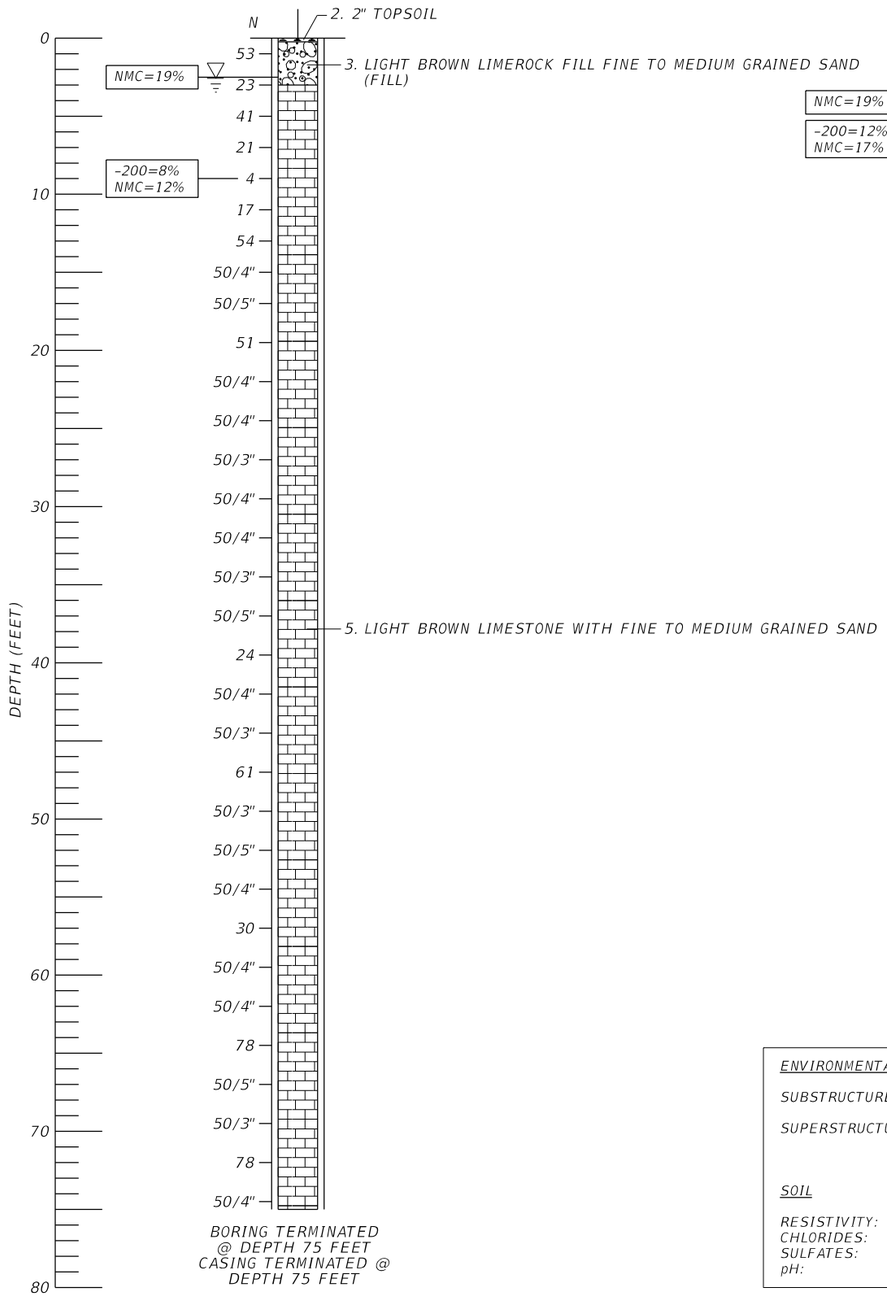
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 948	MIAMI-DADE	-

REPORT OF CORE BORINGS

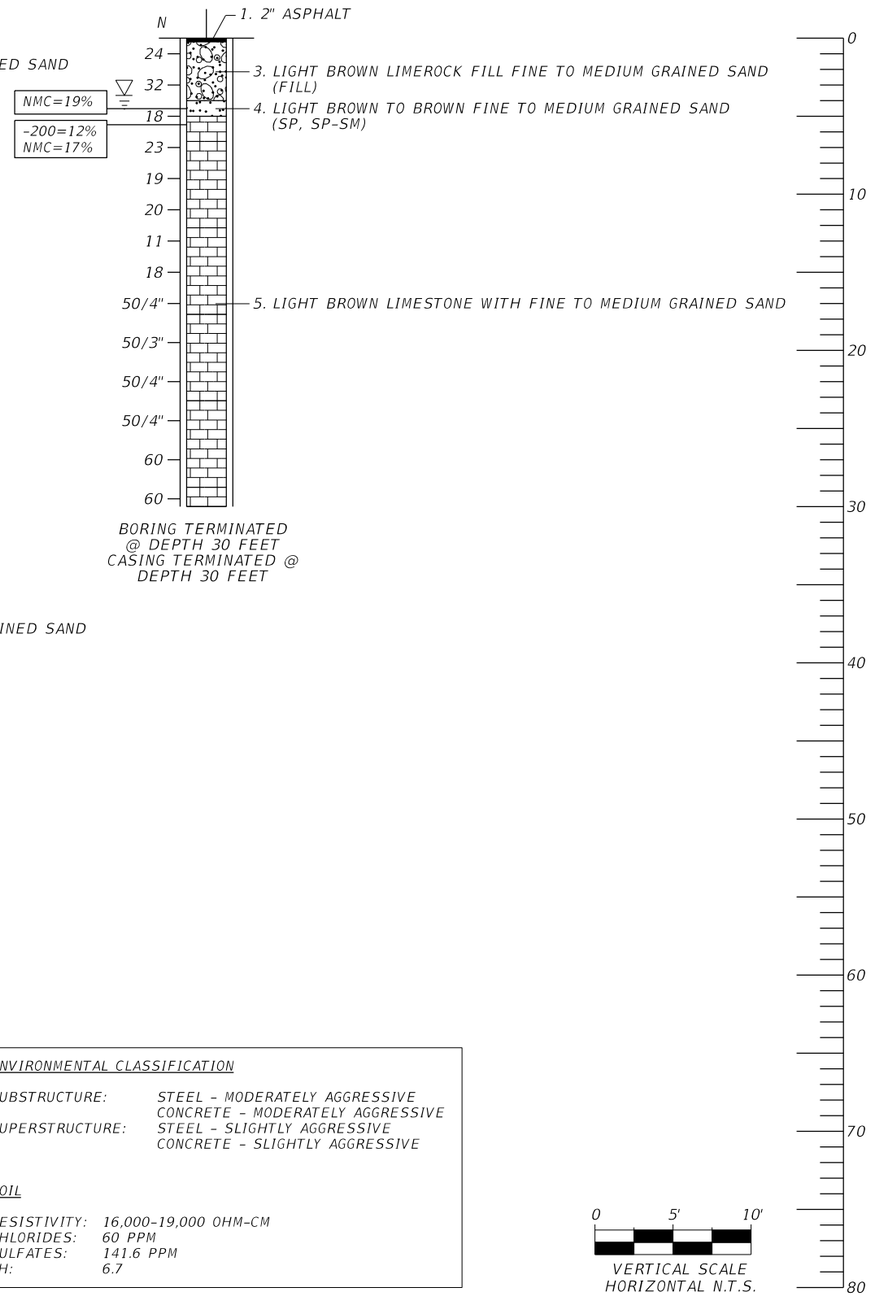
SHEET NO.

BORING No. P-3
LATITUDE 25.811970
LONGITUDE -80.385436
ELEVATION N/A
DATE 1/16/20



BORING TERMINATED
@ DEPTH 75 FEET
CASING TERMINATED @
DEPTH 75 FEET

BORING No. P-4
LATITUDE 25.812482
LONGITUDE -80.385480
ELEVATION N/A
DATE 1/15/20



BORING TERMINATED
@ DEPTH 30 FEET
CASING TERMINATED @
DEPTH 30 FEET

NOTES

- GEOGRAPHIC COORDINATE DATA AT THE SPT BORING LOCATION WAS OBTAINED USING A HAND HELD GPS INSTRUMENT (GARMIN 64 MAP). THE DATA IS ACCURATE TO WITHIN 12 FEET
- N NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION
- X/y", "X" BLOWS FOR "y" NCHES OF PENETRATION.
- GROUNDWATER LEVEL ON THE DATE OF DRILLING.
- CASING USED (NW).
- DRILLED BY: LUIS R. (PSI)

LEGEND

1. ASPHALT PAVEMENT
2. TOPSOIL
3. LIGHT BROWN LIMEROCK FILL FINE TO MEDIUM GRAINED SAND (FILL)
4. LIGHT BROWN TO BROWN FINE TO MEDIUM GRAINED SAND (SP, SP-SM)
5. LIGHT BROWN LIMESTONE WITH FINE TO MEDIUM GRAINED SAND

SPT NOTES

HAMMER WEIGHT	140 LBS.
HAMMER DROP HEIGHT	30 INCHES
TYPE OF HAMMER	AUTOMATIC
SPOON LENGTH	18.00 OR 24.00 INCHES
SPOON INSIDE DIAMETER	1.500 INCH
SPOON INSIDE DIAMETER (AT OPENING)	1.375 INCH
SPOON OUTSIDE DIAMETER	2.000 INCH
TYPE OF RIG	CME 55

GRANULAR MATERIALS-RELATIVE DENSITY	AUTOMATIC HAMMER SPT-N (BLOWS/12-INCH)
VERY LOOSE	LESS THAN 3
LOOSE	3-8
MEDIUM DENSE	8-24
DENSE	24-40
VERY DENSE	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	**AUTOMATIC HAMMER SPT-N (BLOWS/12-INCH)**
VERY SOFT	LESS THAN 1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	GREATER THAN 24

ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE: STEEL - MODERATELY AGGRESSIVE
CONCRETE - MODERATELY AGGRESSIVE
SUPERSTRUCTURE: STEEL - SLIGHTLY AGGRESSIVE
CONCRETE - SLIGHTLY AGGRESSIVE

SOIL

RESISTIVITY: 16,000-19,000 OHM-CM
CHLORIDES: 60 PPM
SULFATES: 141.6 PPM
pH: 6.7

0 5' 10'
VERTICAL SCALE
HORIZONTAL N.T.S.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

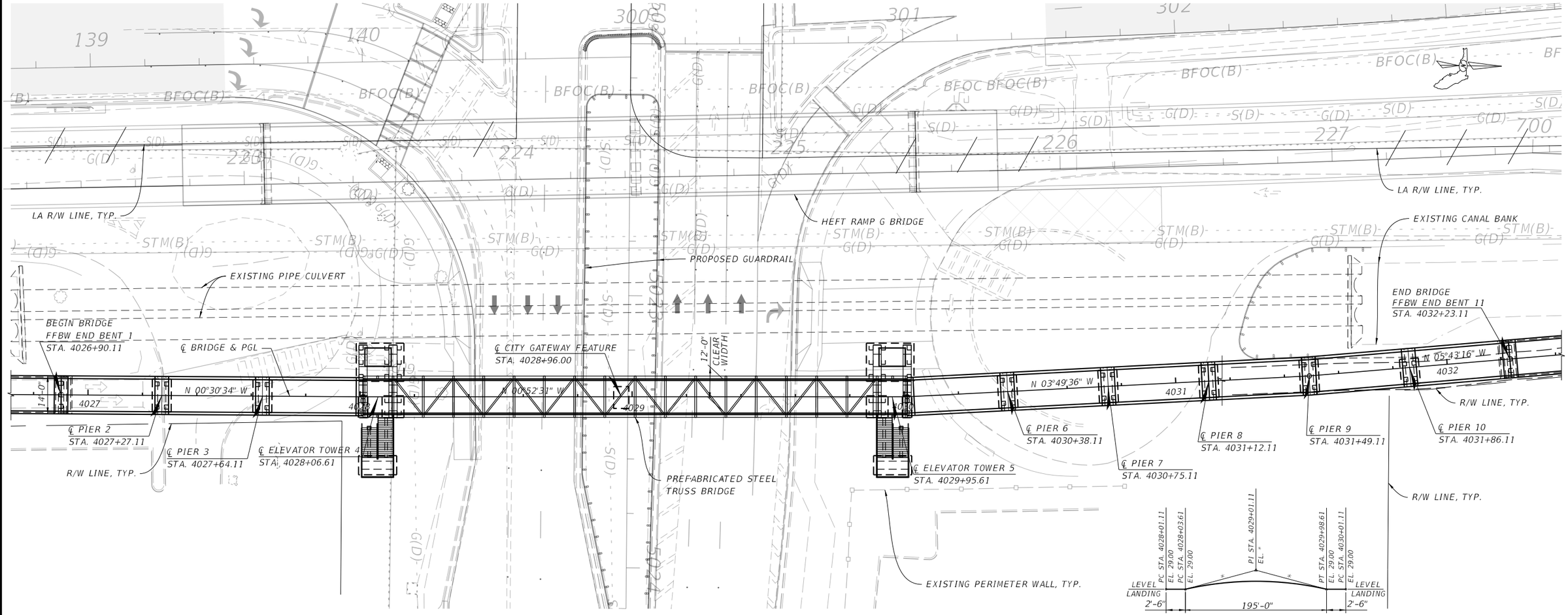
NAYAN SAHA, P.E.
P.E. LICENSE NUMBER 81635
PROFESSIONAL SERVICE INDUSTRIES, INC. (PSI)
7950 N.W. 64TH STREET
MIAMI, FL 33166
CERTIFICATE OF AUTHORIZATION 3684

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 948	MIAMI-DADE	-

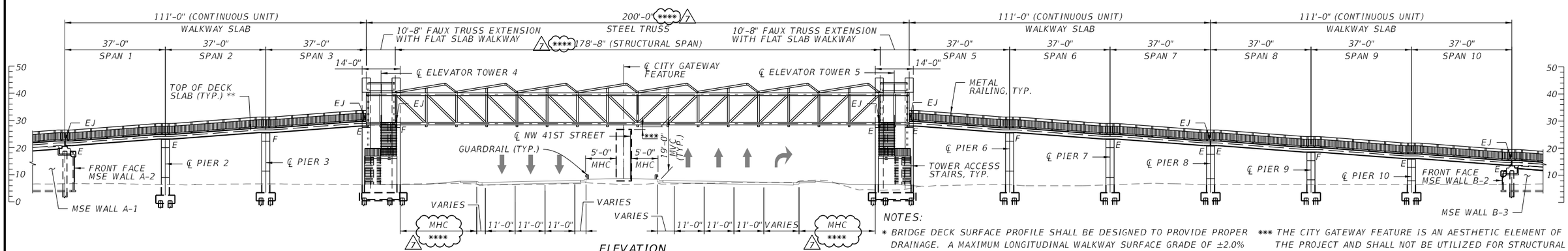
REPORT OF CORE BORINGS

SHEET NO.



PLAN

STEEL TRUSS VERTICAL CURVE



ELEVATION

**** HORIZONTAL CLEARANCE TO TOWERS SHALL MEET OR EXCEED ALL FDM REQUIREMENTS.

NOTES:

* BRIDGE DECK SURFACE PROFILE SHALL BE DESIGNED TO PROVIDE PROPER DRAINAGE. A MAXIMUM LONGITUDINAL WALKWAY SURFACE GRADE OF ±2.0% SHALL BE PROVIDED TO CONVEY STORMWATER OFF THE BRIDGE.

** RAMP WALKWAY SURFACE PROFILE SHALL BE DESIGNED TO PROVIDE PROPER DRAINAGE AND TO MEET ADA REQUIREMENTS. LONGITUDINAL WALKWAY SURFACE GRADES EXCEEDING ±5.0% SHALL BE CONSIDERED RAMPS AND BE DESIGNED ACCORDINGLY.

*** THE CITY GATEWAY FEATURE IS AN AESTHETIC ELEMENT OF THE PROJECT AND SHALL NOT BE UTILIZED FOR STRUCTURAL SUPPORT OF THE BRIDGE. ADEQUATE CLEARANCE BETWEEN THE BRIDGE STRUCTURE AND GATEWAY FEATURE SHALL BE PROVIDED TO ACCOMMODATE MAINTANENCE AND INSPECTION ACCESS OF THE BRIDGE.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
9/17/21	WLH	7 ADDENDUM NO. 7			

WILLIAM L. HESS, P.E.
P.E. LICENSE NUMBER 63536
PEVIDA HIGHWAY DESIGNERS, LLC
8600 NW 17TH STREET, SUITE 200
DORAL, FLORIDA 33126
CERTIFICATE OF AUTHORIZATION 31601

DRAWN BY: WLH
CHECKED BY: AHV
DESIGNED BY: WLH
CHECKED BY: NA

CITY OF DORAL

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
XX XXX	MIAMI-DADE	XXXXXX-X-XX-XX

SHEET TITLE: PLAN AND ELEVATION

PROJECT NAME: PEDESTRIAN BRIDGE OVER NW 41 STREET

REF. DWG. NO.

SHEET NO. B-2

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.