



CITY OF MANHATTAN BEACH

ADDENDUM NO. 2

BID DOCUMENTS

Project No. U-01 Bid No. 1222-20

UNDERGROUNDING UTILITY ASSESSMENT DISTRICT 4 Between Ardmore Ave. and Sepulveda Blvd. and Between 2nd St. and Boundary Pl.

Issued on October 17, 2019

Please note the following revisions to the Request for Bid document for the Undergrounding Utility Assessment District 4 Project (Project No. U-01 and Bid Number 1222-20). *A signed copy of this addendum must be attached to the bid.*

Revisions to the Bid Documents:

1. **Bid Opening Date and Time on the Notice Inviting Bids:** The second sentence of the first paragraph of the Notice Inviting Bids is hereby revised to the following: “The City will receive such Bids at the City Clerk’s office, City Hall, 1400 Highland Avenue, Manhattan Beach, California 90266 up to 11:00 a.m. on Monday, October 28, 2019, at which time they will be publicly opened and read aloud.”
2. **Appendices:** The following Appendix is hereby added to the Bid Documents of Project No. U-01 Bid No. 1222-20 and is attached to this Addendum No. 2:
 - APPENDIX V REFERENCE SOIL SAMPLES

This Addendum is approved by:



10/17/2019

for PREM KUMAR, PE, CITY ENGINEER

DATE

A SIGNED COPY OF THIS ADDENDUM MUST BE ATTACHED TO THE BID.

I hereby acknowledge that the information contained in this addendum has been included in the bid submitted for this project.

COMPANY NAME

SIGNATURE

DATE

**APPENDIX V
REFERENCE SOIL SAMPLES**



STREET CORING INVESTIGATION



October 17, 2019

SCST No. 190281P5
Report No. 1

Lesly Cantarero
Associate Engineer
Quantum Consulting, Inc.
2720 Sepulveda Blvd., Suite 100
Torrance, CA 90505

Subject: STREET CORING INVESTIGATION
1ST ST. NEAR SEPULVEDA BLVD. & DUNCAN AVE. NEAR ARDMORE
MANHATTAN BEACH, CALIFORNIA


Dear Ms. Cantarero:

In accordance with your request and authorization, SCST, LLC (SCST), an Atlas company, has completed the street coring investigation at the subject site. Our scope of work consisted of coring two holes through the existing asphalt at 1st Street and Duncan Avenue; hand augering, logging, and sampling up to 5 feet of the underlying subgrade soils, and performing laboratory testing of representative materials obtained during the field investigation. The core locations were pre-determined by the City of Manhattan Beach. Laboratory testing consisted of determining the particle-size distribution of the soils in accordance with the ASTM D6913 standard test method. A summary of our findings is as follows.

Core No.	Date Cored	Core Location	Asphalt Thickness	Base Thickness	Subgrade Soils
B-1	10/11/19	1 st Street	6.5 inches	None	Poorly Graded Sand (SP)
B-2	10/11/19	Duncan Avenue	7 inches	None	Silty Sand (SM) to Poorly Graded Sand (SP)

We appreciate this opportunity to be of continued service to you. Should you have any questions, please contact us at 619-280-4321.

Respectfully Submitted
SCST, LLC



Isaac Chun, GE 2649
Principal Engineer

IC:hu

Attachments: Appendix I – Field Investigation
Appendix II - Laboratory Test Results

(1) Addressee via e-mail: lcantarero@thequantumconsulting.com
(1) Anastasia Seims via email: aseims@citymb.info







**APPENDIX I
FIELD INVESTIGATION**

SUBSURFACE EXPLORATION LEGEND



UNIFIED SOIL CLASSIFICATION CHART

<u>SOIL DESCRIPTION</u>	<u>GROUP SYMBOL</u>	<u>TYPICAL NAMES</u>
I. COARSE GRAINED, more than 50% of material is larger than No. 200 sieve size.		
<u>GRAVELS</u> More than half of coarse fraction is larger than No. 4 sieve size but smaller than 3".	CLEAN GRAVELS	GW Well-graded gravels, gravel-sand mixtures, little or no fines
		GP Poorly graded gravels, gravel sand mixtures, little or no fines.
	GRAVELS WITH FINES (Appreciable amount of fines)	GM Silty gravels, poorly graded gravel-sand-silt mixtures.
		GC Clayey gravels, poorly graded gravel-sand, clay mixtures.
<u>SANDS</u> More than half of coarse fraction is smaller than No. 4 sieve size.	CLEAN SANDS	SW Well-graded sand, gravelly sands, little or no fines.
		SP Poorly graded sands, gravelly sands, little or no fines.
		SM Silty sands, poorly graded sand and silty mixtures.
		SC Clayey sands, poorly graded sand and clay mixtures.
II. FINE GRAINED, more than 50% of material is smaller than No. 200 sieve size.		
SILTS AND CLAYS (Liquid Limit less than 50)	ML	Inorganic silts and very fine sands, rock flour, sandy silt or clayey-silt-sand mixtures with slight plasticity.
	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
	OL	Organic silts and organic silty clays or low plasticity.
SILTS AND CLAYS (Liquid Limit greater than 50)	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
	CH	Inorganic clays of high plasticity, fat clays.
	OH	Organic clays of medium to high plasticity.
III. HIGHLY ORGANIC SOILS	PT	Peat and other highly organic soils.

SAMPLE SYMBOLS

	- Bulk Sample
	- Modified California Sampler
	- Undisturbed Chunk sample
	- Maximum Size of Particle
	- Shelby Tube
	- Standard Penetration Test sampler

GROUNDWATER SYMBOLS

	- Water level at time of excavation or as indicated
	- Water seepage at time of excavation or as indicated

LABORATORY TEST SYMBOLS

AL	- Atterberg Limits
CON	- Consolidation
COR	- Corrosivity Tests (Resistivity, pH, Chloride, Sulfate)
DS	- Direct Shear
EI	- Expansion Index
MAX	- Maximum Density
RV	- R-Value
SA	- Sieve Analysis



SCST, LLC

1st Street and Duncan Avenue
Manhattan Beach, California

By: NR	Date: October, 2019
Job Number: 190281P5-1	Figure: I-1

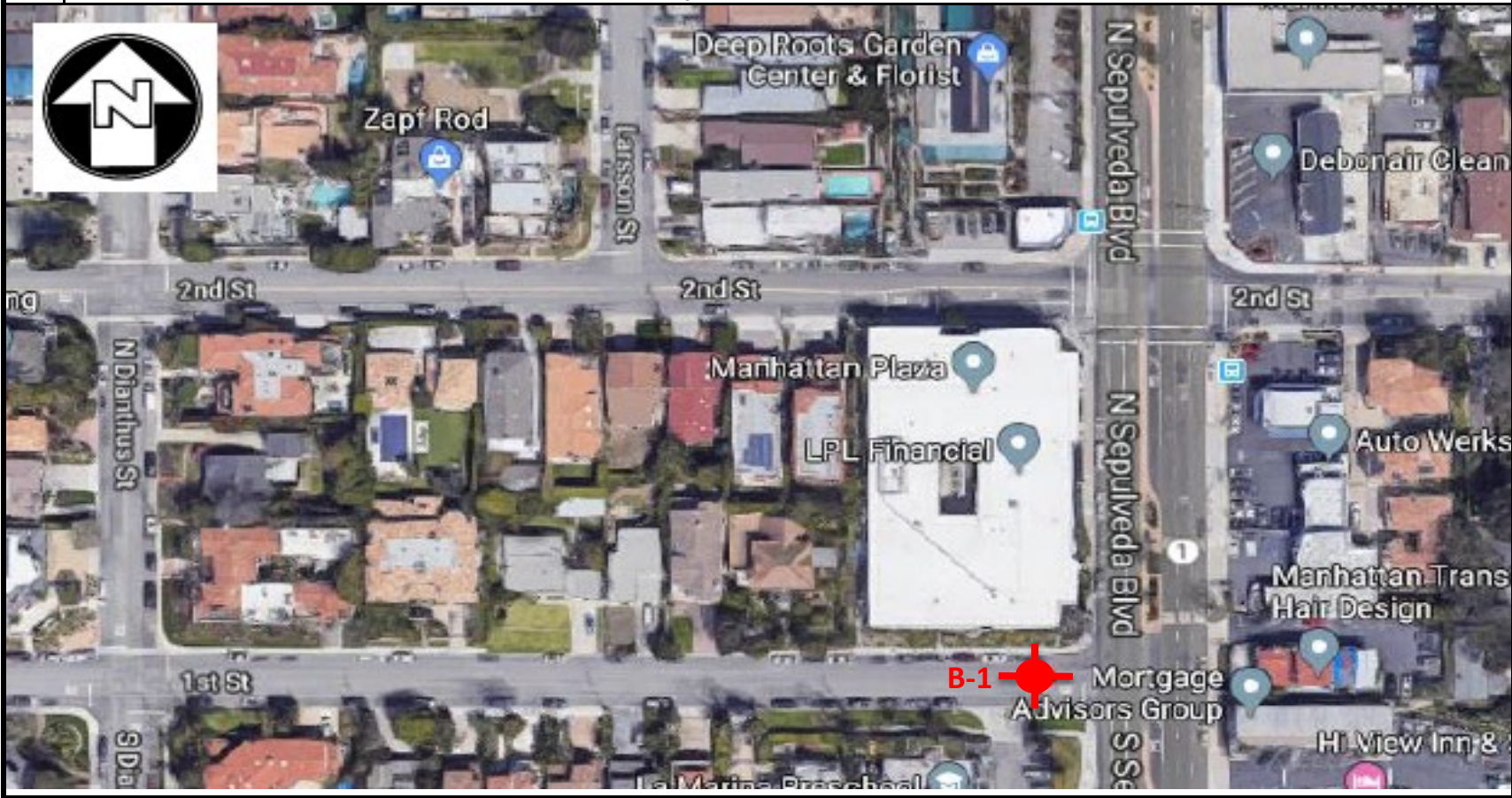
Job: 1st Street and Duncan Ave Street Coring CMT
 City of Manhattan Beach, California

Explor. No.: B-1 (1st Street)
 Job No.: 190281P5
 Date Drilled: 10/11/2019
 Logged By: NR
 Equipment: Core Rig and Hand Auger
 Hammer Wt. and Drop Ht.:

Exist. el: _____ Finish el: _____

Depth	Sample Loc.	Blowcounts	Sample Type	USCS	Color	Sand grain sizes	% Fines (- #200)	% Gravel (+ #4)	% Cobbles/Boulders (+ 3")	Maximum Size	Plasticity or NP	Moisture	Density/Consistency	Remarks
0.5	NA		Bulk	SP	Olive Brown	M to C	1-2	NA	NA	NA	NP	M	M. Dense	6.5" AC - No Base POORLY GRADED SAND
1														
1.5														
2														
2.5														
3														
3.5														
4														
4.5														
5														

Sample hole Termiated at 5 feet



Job: 1st Street and Duncan Ave Street Coring CMT
 City of Manhattan Beach, California

Explor. No.: B-2 (Duncan Avenue)

Job No.: 190281P5

Date Drilled: 10/11/2019

Logged By: NR

Equipment: Core Rig and Hand Auger

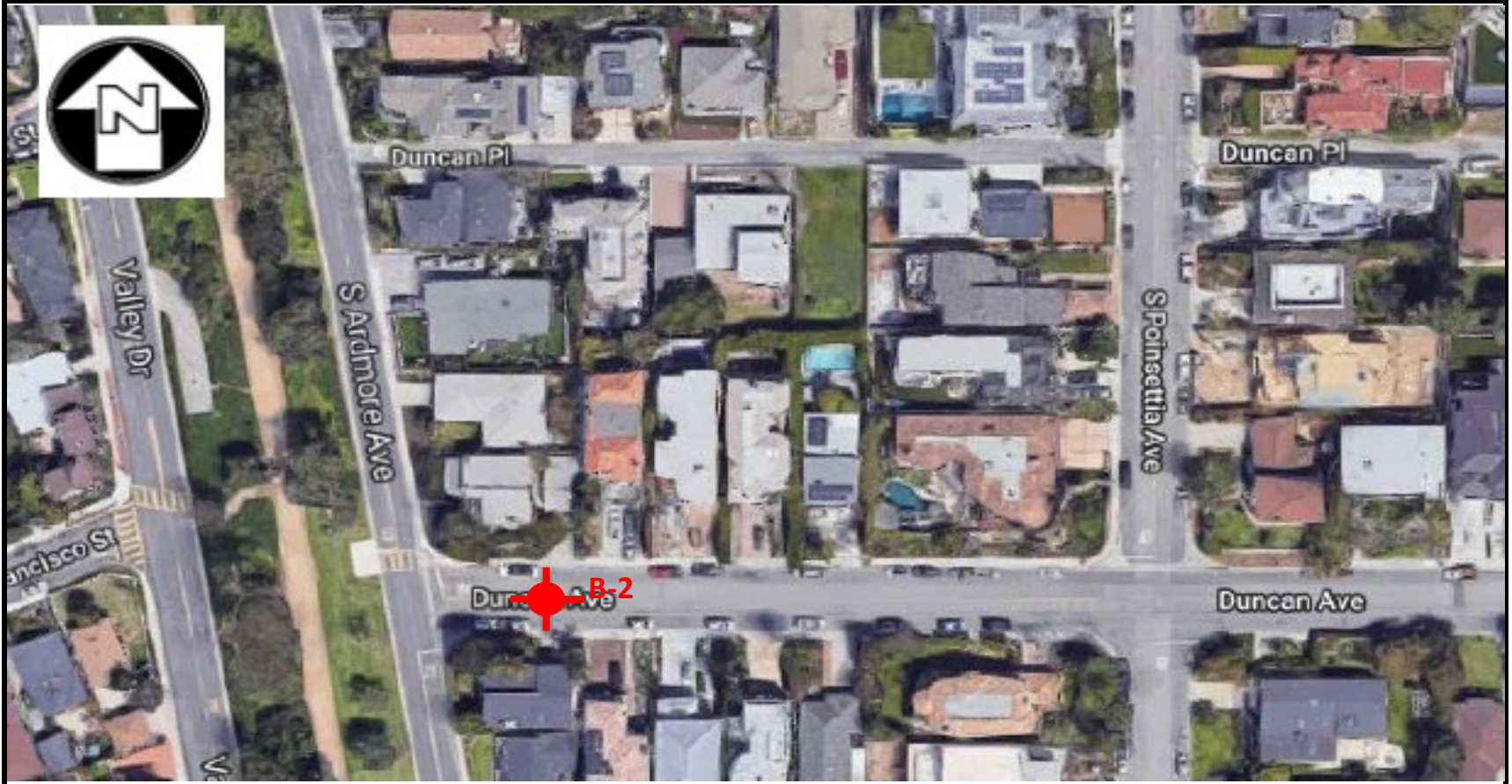
Exist. el: _____

Finish el: _____

Hammer Wt. and Drop Ht.: _____

Depth	Sample Loc.	Blowcounts	Sample Type	USCS	Color	Sand grain sizes	% Fines (- #200)	% Gravel (+ #4)	% Cobbles/Boulders (+ 3")	Maximum Size	Plasticity or NP	Moisture	Density/Consistency	Remarks
0.5														7" AC - No Base
0.5	NA		Bulk	SM	Brown	F to M	22-23	NA	NA	NA	NP	M	V.Dense	SILTY SAND
1														
1.5														
2														
2.5														
3	NA		Bulk	SP	Light Brown	F to C	2-3	NA	NA	NA	NP	M	M. Dense	POORLY GRADED SAND
3.5														
4														
4.5														
5														

Sample hole Terriated at 5 feet

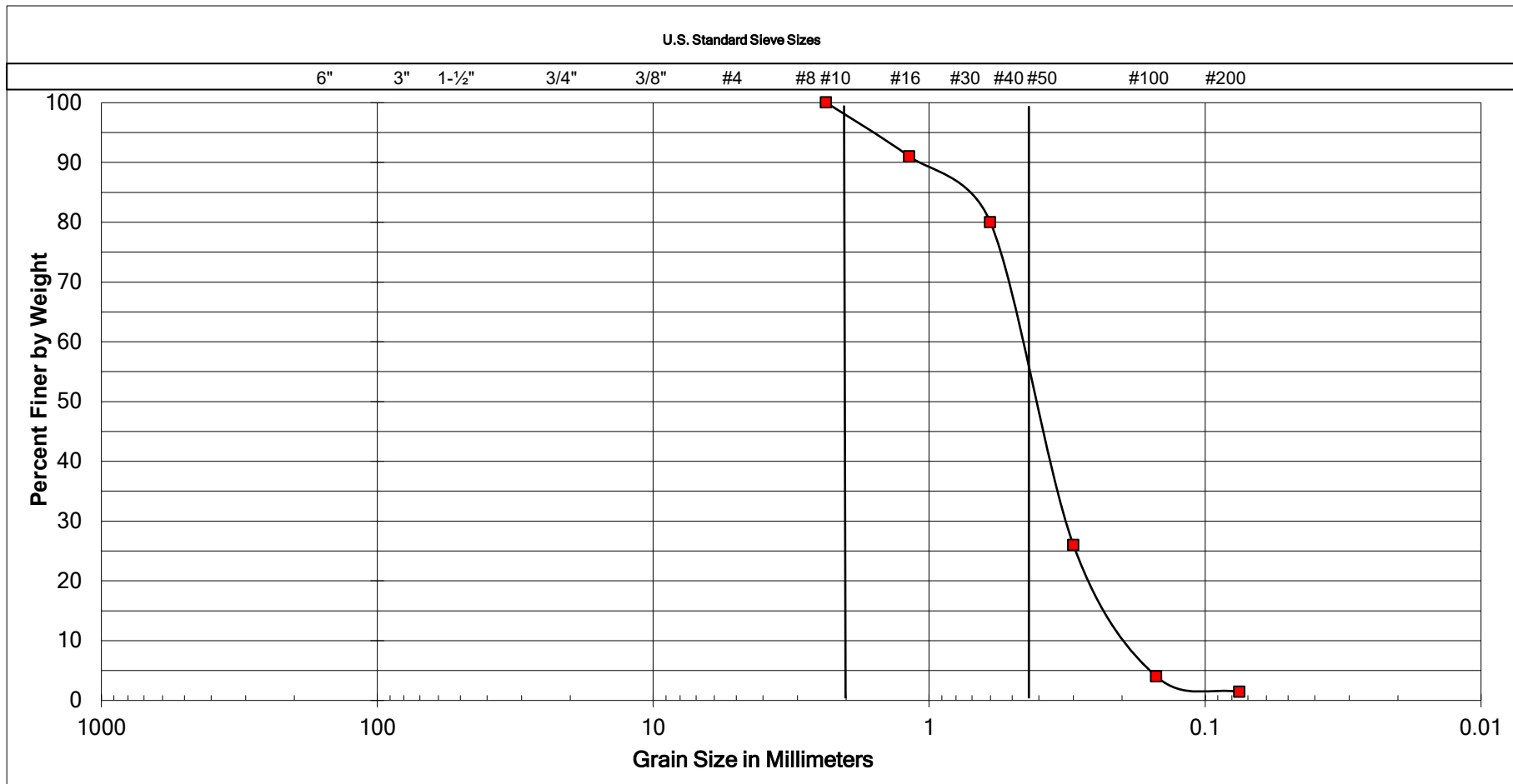


APPENDIX II LABORATORY TESTING

Laboratory tests were performed to provide geotechnical parameters for engineering analyses. The following tests were performed:

- **CLASSIFICATION:** Field classifications were verified in the laboratory by visual examination. The final soil classifications are in accordance with the Unified Soil Classification System.
- **PARTICLE-SIZE DISTRIBUTION:** The particle-size distribution was evaluated on five samples in accordance with D6913.

Soil samples not tested are now stored in our laboratory for future reference and analysis, if needed. Unless notified to the contrary, samples will be disposed of 30 days from the date of this report.



Cobbles	Gravel	Sand	Silt or Clay
	Coarse Fine	Coarse Medium Fine	

SAMPLE LOCATION
B-1 at 1/2 to 5 feet 1st Street

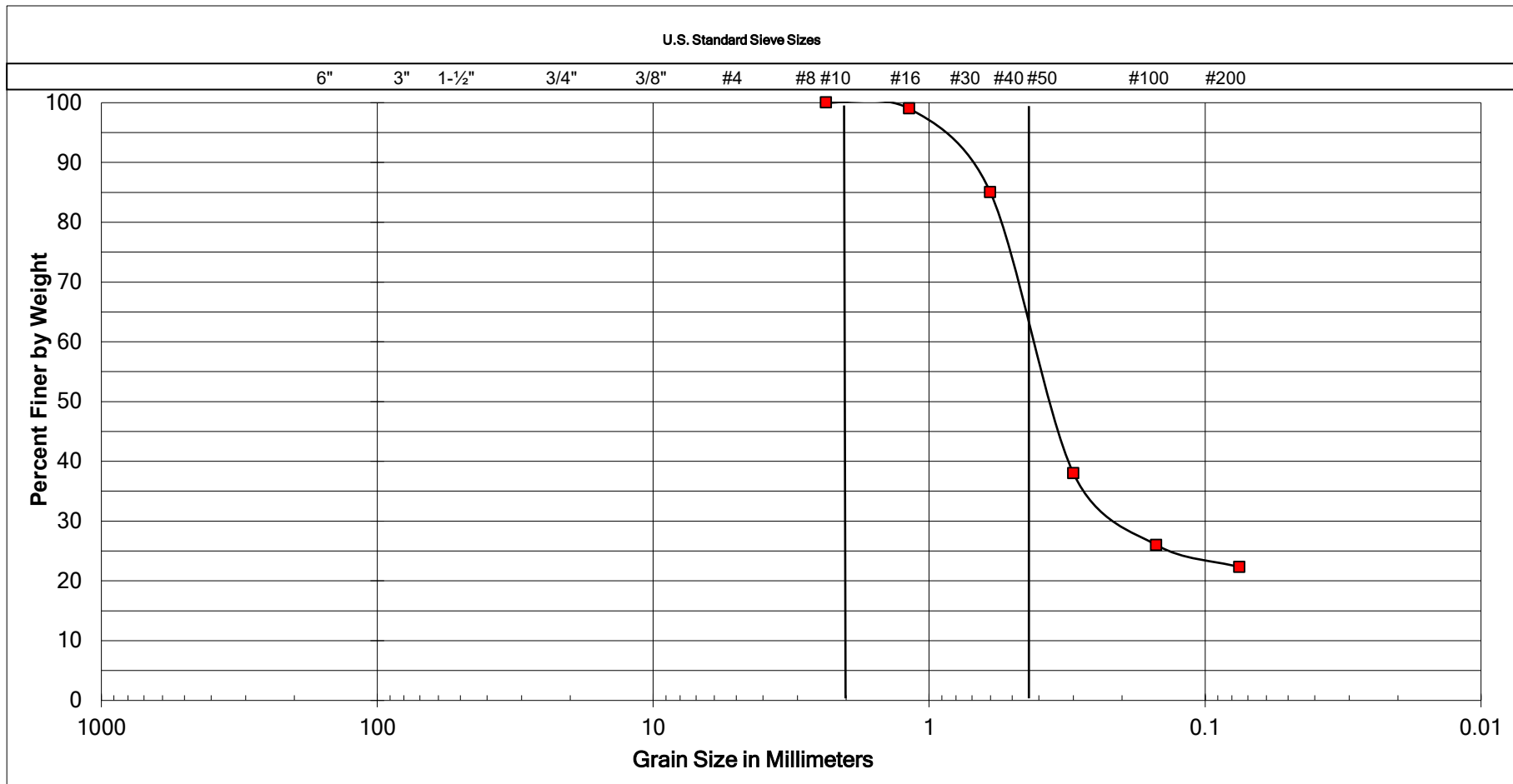
UNIFIED SOIL CLASSIFICATION:	SP
DESCRIPTION	Poorly Graded Sand

ATTERBERG LIMITS	
LIQUID LIMIT	---
PLASTIC LIMIT	---
PLASTICITY INDEX	---



1st Street and Duncan Avenue
Manhattan Beach, CA

By: DRB	Date: October, 2019
Job Number: 190281P5-1	Figure: II-1



Cobbles	Gravel		Sand			Silt or Clay
	Coarse	Fine	Coarse	Medium	Fine	

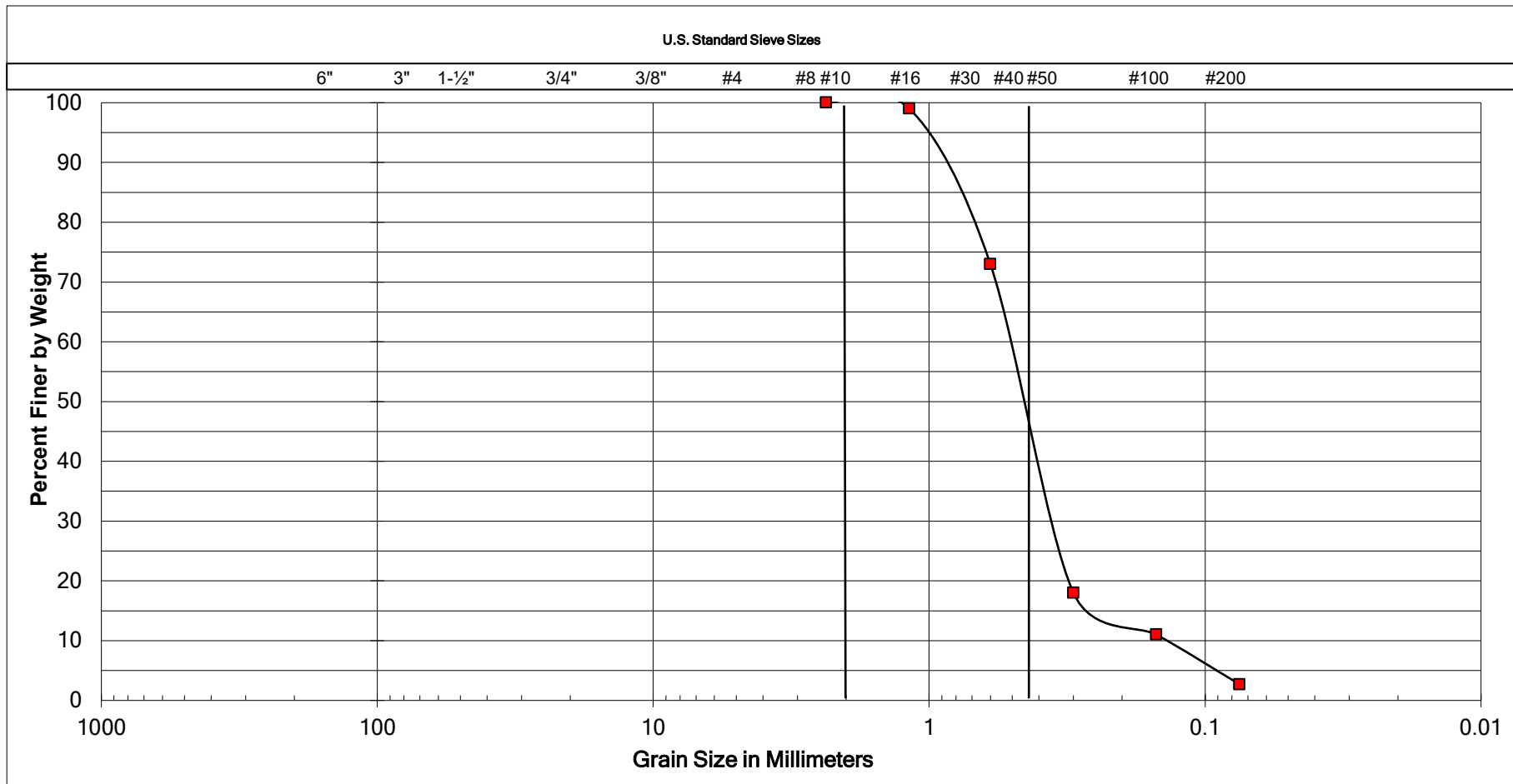
SAMPLE LOCATION
B-2 at ½ to 3 feet Duncan Avenue

UNIFIED SOIL CLASSIFICATION:	SM
DESCRIPTION	Silty Sand

ATTERBERG LIMITS	
LIQUID LIMIT	----
PLASTIC LIMIT	----
PLASTICITY INDEX	----



1st Street and Duncan Avenue Manhattan Beach, CA	
By: DRB	Date: October, 2019
Job Number: 190281P5-1	Figure: II-2



Cobbles	Gravel		Sand			Silt or Clay
	Coarse	Fine	Coarse	Medium	Fine	

SAMPLE LOCATION
B-2 at 3 to 5 feet Duncan Avenue

UNIFIED SOIL CLASSIFICATION:	SP
DESCRIPTION	Poorly Graded Sand

ATTERBERG LIMITS	
LIQUID LIMIT	---
PLASTIC LIMIT	---
PLASTICITY INDEX	---



1st Street and Duncan Avenue
Manhattan Beach, CA

By: DRB	Date: October, 2019
Job Number: 190281P5-1	Figure: II-3