GM 14845

SUBSURFACE INVESTIGATION REPORT, PROPOSED ROAD, ASBESTOS HILL PROJECT

Documents complémentaires

Additional Files



Licence

License

Cette première page a été ajoutée
au document et ne fait pas partie du
rapport tel que soumis par les auteurs.

Énergie et Ressources naturelles
Québec

Ministère des Richesses Naturelles, Québec
11 AOUT 1964
SERVICE DES GITES MINÉRAUX
No G.M.- 14845

TT-35-62-R

R E P O R T

to

SURVEYER, NENNIGER and CHENEVERT, Consulting Engineers
Montreal Quebec

on

1962 SUBSURFACE INVESTIGATION

for the

P R O P O S E D R O A D

A S B E S T O S H I L L P R O J E C T
Asbestos Hill Quebec

Distribution:

10 copies: Surveyer, Nenniger and Chênevert,
Consulting Engineers,
Montreal, Que.

1 copy : Terratech Ltd
Montreal, Que.

November 6th, 1962.

I N D E X

Report

Appendix I : Records of Subsurface Exploration (Borehole Logs)

Appendix II : Grain-Size Distribution Curves

Appendix III : Water Content Test Results

Appendix IV : Compaction Test Results

COMPLETE GEOTECHNICAL SERVICES

Terratech LTD.

1440 St. Catherine Street West, Montreal 25, Que.

Telephone 861-7425-6

November 6th, 1962.

Surveyer, Nenniger and Chênevert,
Consulting Engineers,
1440 St.Catherine St. West,
Montreal.

re: Subsurface Investigation -
Proposed Road -
ASBESTOS HILL PROJECT -

Gentlemen:

This report contains the final results of our contribution on the above investigation which was carried out in accordance with our proposal dated June 11th 1962, and accepted on June 19th 1962.

The purpose of our part of this investigation was to determine by means of boreholes the soil conditions and particularly the depths of the various soil formations at several locations of potential areas of borrow material in the vicinity of the proposed road connecting Asbestos Hill to the proposed Deception Bay docking area, and also to test in the laboratory a number of soil samples. This work was conducted according to the instructions given to us by Marshall Macklin Monaghan personnel present at the site during the complete duration of this work.

PROCEDURE

a) Boreholes:

The field work for this investigation was carried out in two steps, from July 11th to July 18th and from August 14th to August 19th, 1962.

A number of 13 boreholes were put down at locations and to depths designated by Marshall Macklin Monaghan engineers. Boreholes were in NX and BX sizes and split spoon samples as well as drill core samples were taken at various depths in the boreholes. Due to the presence of permafrost, sample recoveries were generally low in the frozen soil using the above conventional sampling equipment for unfrozen ground. Depth to frost level was measured adjacent to some boreholes in small test pits.

Ice content in the permafrost soil were described visually and grain-size analyses were conducted in our field laboratory at Asbestos Hill camp site on recovered samples.

The results obtained for each borehole are given in detail on the Office Records of Exploration of Appendix I of this report. Grain-Size Distribution curves are assembled in Appendix II.

b) Soil Testing

Several samples obtained from various test pits were submitted to us by Marshall Macklin Monaghan engineers. Following their instructions on the testing programme, grain-size analyses, water content tests and standard compaction tests were carried out on these samples in our field laboratory. Results of these tests are given in Appendices II, III and IV of this report. Specific gravity tests were performed in our Montreal laboratory on two typical samples. Results are given in Appendix IV together with the respective compaction test results. We like to bring to your attention the following modification to the standard testing procedure (AASHO Designation: T 99-57) that was adopted for all compaction tests, except for tests on samples 62-R-22 and 62-R-42. Instead of a rigid base

weighing not less than 200 pounds to support the compaction mold, a stone weighing approximately 75 pounds was utilized for that purpose. Samples 62-R-22 and 62-R-42 were tested in our Montreal laboratory using the complete standard testing procedure. Based on past experience, such a modification in the testing procedure may have yielded lower dry unit weight values by as much as 2 to 3 pounds per cubic foot and a corresponding higher optimum moisture content ranging from 0 to 1 percent unit.

Prefixes 62-R and 62-RD to sample numbers are used to designate samples obtained from test pits and boreholes respectively.

All samples of material considered as potential source of concrete aggregates were sent to our Montreal laboratory for further analyses. Tests to determine their suitability as concrete materials are presently being carried out and the results will be made available in our report on concrete materials to be issued at the completion of the testing programme.

PERSONNEL

The field work for this investigation was carried out under the immediate supervision of our Messrs L. Perrault, H. Kuhles, N. Dion and C. Godin, soil technicians and the overall direction of Mr F. Tordon, Jr P. Eng. Laboratory testing was conducted at the site by Mr P. Vianello, laboratory technician.

We trust that this report which was prepared jointly by Messrs F. Tordon, Jr P. Eng. and L. Samson, P. Eng., and approved by Mr C. Senneville, P. Eng., Chief Engineer, contains all the information that you require. However, if we can be of any further assistance, please do not hesitate to contact us.

Yours very truly

Terratech Ltd

CLAUDE SENNEVILLE, P. Eng.
President

LS/AB

APPENDIX I

Records of Subsurface Exploration
(Borehole Logs)

EXPLANATION OF THE "OFFICE RECORDS OF EXPLORATION"

The object of the Office Records of Exploration is to assemble on a single form all the field and laboratory data regarding the soil, bedrock and ground water conditions obtained during the investigation at each borehole.

SOIL PROFILE

Elevation

This column gives the elevation of boundaries between various geographical strata. The elevation refers to the geodetic datum.

Description

Each geological stratum is described using standard terminology. The proportion of each constituent part as defined by their grain size as shown below is denoted by the following terms.

Descriptive terms	Range of proportion
"trace"	1 to 10%
"some"	10 to 20%
adjective (e.g. sandy, silty)	20 to 35%
"and"	35 to 50%

Component	Grain size ranges
Clay size	Finer than 0.002 mm
Silt	From 0.002 to 0.06 mm
Sand	From 0.06 to 2 mm
Gravel	From 2 mm to 3 inches
Cobble	From 3 to 8 inches
Boulder	Coarser than 8 inches

Stratigraphy

In this column the matching symbol follows the symbols of the unified soil classification system established by the U.S. Army Corps of Engineers.

FROST LEVEL

Also given in this column is the depth to frozen soil as determined near the borehole location for the given date of observation.

SAMPLES

Conditions

The exact location, length and condition of each sample is shown in this column. Samples obtained by diamond core drilling are shown by a heavy vertical line.

Number and type

Each sample of the borehole is designated by the number as shown in this column. The sample type is also shown by a symbol that refers to the description given in the general heading.

Recovery

Soil sample and rock and frozen ground core recoveries are given in percent.

TESTS

Relative density

Standard penetration test values, commonly designated as "N" values are given in this column. This value is obtained by dropping a 140 pound hammer onto the drill rods from a height of 30 inches. The number of blows necessary to produce a penetration of one foot of the 2 inch standard splitspoon sampler is regarded as the penetration resistance, "N".

Water conditions

The depth to ground water level as measured in the boreholes is given in the column for the date of observation.

EXPLANATION OF THE

"OFFICE RECORD OF PERMAFROST EXPLORATION"

Ice and frozen soil observed in the samples is described in detail on this form. The ice description and symbol are based on the "Guide to a Field Description of Permafrost for Engineering Purposes" of the National Research Council of Canada. The following table summarizes the various groups of ice content with their respective symbols.

TABLE I

ICE DESCRIPTION

A. SEGREGATED ICE NOT VISIBLE BY EYE

Group Symbol	Sub-Group Description		Symbol	
N	Poorly bonded or friable		Nf	
	Well bonded	No excess ice	Nb	Nbn
		Excess ice		Nbe

B. VISIBLE ICE SEGREGATION-LESS THAN ONE INCH THICK

Group Symbol	Sub-Group Description	Symbol
V	Individual ice crystal or inclusions	Vx
	Ice coatings or particles	Vc
	Random or irregularly oriented ice formations	Vr
	Stratified or distinctly oriented ice formations	Vs

C. VISIBLE ICE SEGREGATION-GREATER THAN ONE INCH THICK

Group Symbol	Sub-Group Description	Symbol
ICE	Ice with soil inclusions	ICE + soil type
	Ice without soil inclusions	ICE

FORM NO.2

Terratech LTD
Montreal Que

SHEET 1 OF 1

OFFICE RECORD OF EXPLORATION

PROJECT Asbestos Hill Project (TT-35-62)
LOCATION Proposed Road 130,500 N 75,500 E
ELEVATION DATUM geodetic CASING SIZE BX
SAMPLER HAMMER WEIGHT 140 LBS DROP 30 INCHES

HOLE Nº 62-RD-1
HOLE DATE July 11, 1962
REPORT DATE Aug.22, 1962
COMPILED BY D.P.
CHECKED BY L.S.

TESTS
WL : WATER LEVEL
N : STANDARD PENETRATION VALUE (BLOWS / FOOT)
K : PERMEABILITY (CM/SEC)
V : IN-SITU VANE TEST (LBS/SQ. FT.)
GS: Grain Size analysis.
WC: Water content (%)
FL: Frost level.

SAMPLE TYPES
AS : AUGER SAMPLE
SS : SPLIT SPOON
ST : SHELBY TUBE, DIAM ____ IN.
WS : WASHED SAMPLE
RC : ROCK CORE BX SIZE

SAMPLE CONDITIONS
DISTURBED
GOOD
LOST
DRILL CORE SAMPLE

DEPTH (FT.)	ELEV. (FT.)	DESCRIPTION	STRAT.	FROZEN GROUND	SAMPLES COND.	SAMPLES Nº & TYPE	SAMPLES REC. (%)	TESTS	NOTES
0	125.0	Ground Surface							
	124.7	Moss							
	124.0	Light brown fine to medium sand, trace of silt.		FL		1 SS		GS	FL: measured July 11, 1962
5									
	119.5	Dark grey Gravelly silty sand grading to fine sand and silt, and to sandy silt with depth. Trace of shells.				RC	18		
10						2 SS	85	GS N = 53 FOR 6"	
						3 SS	100	GS N = 73 FOR 5" WC = 25.3	Sample 3 SS is frozen; Nbe ice
15									
						4 SS	100	GS N = 100 FOR 6"	Sample 4 SS is frozen; Nbn ice (may be Nbe)
20									
						5 SS	65	GS N = 50 FOR 6"	Sample 5 SS is frozen; Nbn ice (may be Nbe)
	102.5	Dark grey sand, some silt, some gravel sizes.							
25						6 SS	100	GS N = 147 N = 37 FOR LAST ½"	Sample 6 SS is frozen; Nbn ice (may be Nbe)
	99.5	(end of hole)							
30									
35									

FORM No. 2

Terratech LTD
Montreal Que

SHEET 1 OF 1

OFFICE RECORD OF EXPLORATION

PROJECT Asbestos Hill Project (TT-35-62)
LOCATION Proposed Road 121,450 N 72,550 E
ELEVATION DATUM geodetic CASING SIZE BX
SAMPLER HAMMER WEIGHT 140 LBS DROP 30 INCHES

HOLE Nº 62-RD-2
HOLE DATE July 12,1962
REPORT DATE Aug. 23,1962
COMPILED BY D.P.
CHECKED BY L.S.

TESTS
WL : WATER LEVEL
N : STANDARD PENETRATION VALUE (BLOWS / FOOT)
K : PERMEABILITY (CM/SEC)
V : IN-SITU VANE TEST (LBS/SQ. FT.)
GS: Grain Size analysis
FL: Frost level

SAMPLE TYPES
AS : AUGER SAMPLE
SS : SPLIT SPOON
ST : SHELBY TUBE, DIAM ____ IN.
WS : WASHED SAMPLE
RC : ROCK CORE BX SIZE

SAMPLE CONDITIONS
DISTURBED
GOOD
LOST
DRILL CORE SAMPLE

DEPTH (FT.)	ELEV. (FT.)	DESCRIPTION	STRAT.	FROZEN GROUND	SAMPLES COND.	SAMPLES Nº & TYPE	SAMPLES REC. (%)	TESTS
0	120.0	Ground Surface						
	118.7	Light brown fine to medium sand		FL				
	116.5							
5		Grey sandy silt, some gravel. Increasing gravel content with depth. Traces of shells. Boulders at depth.				1 SS	100	N = 54 FOR 6"
						RC	0	
10						2 SS	100	GS N = 98
						3 SS	0	N = 63 FOR 4"
15						RC	45	
20						4 SS	100	GS N = 86 FOR 6"
25						RC		
	94.5							
		(end of hole)						
30								
35								

NOTES

FL: measured July 12,1962
0.3 ft moss at surface

Sample 1 SS is frozen;
Nbn ice (may be Nbe)

Sample 2 SS is frozen;
Nbn ice. (may be Nbe)

TT FORM No:2

Terratech LTD
Montreal Que

SHEET 1 OF 1

OFFICE RECORD OF EXPLORATION

PROJECT Asbestos Hill Project (TT-35-62)
LOCATION Proposed Road 122,700 N 65,050 E
ELEVATION DATUM geodetic CASING SIZE BX
SAMPLER HAMMER WEIGHT 140 LBS DROP 30 INCHES

HOLE Nº 62-RD-3
HOLE DATE July 12,1962
REPORT DATE Aug.24,1962
COMPILED BY D.P.
CHECKED BY L.S.

TESTS
WL : WATER LEVEL
N : STANDARD PENETRATION VALUE (BLOWS / FOOT)
K : PERMEABILITY (CM/SEC)
V : IN-SITU VANE TEST (LBS/SQ. FT.)
GS: Grain Size analysis

SAMPLE TYPES
AS : AUGER SAMPLE
SS : SPLIT SPOON
ST : SHELBY TUBE, DIAM ____ IN.
WS : WASHED SAMPLE
RC : ROCK CORE BX SIZE
HS: Hand sample

SAMPLE CONDITIONS
DISTURBED
GOOD
LOST
DRILL CORE SAMPLE

PROFILE				GROUND WATER	SAMPLES			TESTS	NOTES
DEPTH (FT.)	ELEV. (FT.)	DESCRIPTION	STRAT.		COND.	Nº & TYPE	REC. (%)		
0	75.0	Ground Surface							
	74.8	Moss							
		Grey fine gravel and coarse sand, some medium sand.				1 HS		GS	
5						2 SS	50		
						3 SS	100		
						RC			
10									
						4 SS	100	GS N = 80 FOR 6"	Sample 4 SS is frozen; Non ice.
	62.0								
15						5 SS	100	GS N= 83 FOR 11"	Sample 5 SS is frozen; Non ice.
		Grey fine uniform sand, trace of silt, trace of gravel.							
20								GS	
						6 SS	100	N = 72	
25						RC	0		
	48.0								
		(End of hole)							
30									
35									

TT FORM Nº:2

Terratech LTD
Montreal Que

SHEET 1 OF 1

OFFICE RECORD OF EXPLORATION

PROJECT Asbestos Hill Project (TT-35-62)
LOCATION Proposed Road
ELEVATION DATUM _____ CASING SIZE BX
SAMPLER HAMMER WEIGHT 140 LBS DROP 30 INCHES

HOLE Nº 62-RD-4
HOLE DATE July 13, 1962
REPORT DATE Aug. 24, 1962
COMPILED BY D.P.
CHECKED BY L.S.

TESTS
WL : WATER LEVEL
N : STANDARD PENETRATION VALUE (BLOWS / FOOT)
K : PERMEABILITY (CM/SEC)
V : IN-SITU VANE TEST (LBS/SQ. FT.)
GS: Grain size analysis
FL: Frost Level

SAMPLE TYPES
AS : AUGER SAMPLE
SS : SPLIT SPOON
ST : SHELBY TUBE, DIAM ____ IN.
WS : WASHED SAMPLE
RC : ROCK CORE BX SIZE
HS: Hand sample

SAMPLE CONDITIONS
DISTURBED
GOOD
LOST
DRILL CORE SAMPLE

PROFILE				GROUND WATER	SAMPLES			TESTS
DEPTH (FT.)	ELEV. (FT.)	DESCRIPTION	STRAT.		COND.	Nº & TYPE	REC. (%)	
0		Ground Surface						
		Grey fine to medium sand.		FL		1 HS		GS
5						2 WS		
		Sand and gravel				3 SS	100	GS N=100 FOR 3"
		Dark grey organic sand and silt Trace of fine gravel.				4 SS	100	GS N=118 FOR 9"
10								
						5 SS	100	GS N=78 FOR 7"
15						RC		
						6 SS	100	GS N=84 FOR 6"
20								
						7 SS	100	GS N=63 FOR 6"
		(end of hole)						
25								
30								
35								

NOTES

FL: measured July 13, 1962

Note:
Co-ordinates and elevations not available.

FORM No 2

Terratech LTD
Montreal Que

SHEET 1 OF 1

OFFICE RECORD OF EXPLORATION

PROJECT Asbestos Hill Project (TT-35-62)
LOCATION Proposed Road
ELEVATION DATUM _____ CASING SIZE BX
SAMPLER HAMMER WEIGHT 140 LBS DROP 30 INCHES

HOLE Nº 62-RD-5
HOLE DATE July 14, 1962
REPORT DATE Aug. 24, 1962
COMPILED BY D.P.
CHECKED BY L.S.

TESTS
WL : WATER LEVEL
N : STANDARD PENETRATION VALUE (BLOWS/FOOT)
K : PERMEABILITY (CM/SEC)
V : IN-SITU VANE TEST (LBS/SQ.FT.)
FL: Frost level
WC: Water content (%)
GS: Grain size analysis

SAMPLE TYPES
AS : AUGER SAMPLE
SS : SPLIT SPOON
ST : SHELBY TUBE, DIAM ____ IN.
WS : WASHED SAMPLE
RC : ROCK CORE BX SIZE
HS: Hand sample

SAMPLE CONDITIONS
DISTURBED
GOOD
LOST
DRILL CORE SAMPLE

DEPTH (FT.)	ELEV. (FT.)	PROFILE DESCRIPTION	STRAT.	FROZEN GROUND	SAMPLES COND.	SAMPLES Nº & TYPE	SAMPLES REC. (%)	TESTS
0		Ground Surface						
		Brown sand						
		Organic sand						
		Brown sand and gravel		FL		1 HS		GS
5		Dark grey organic silt and sand, Trace of gravel, trace of shells, random boulders.				RC	25	
10						2 SS	100	WC = 27.0 N = 50
		(end of hole)						
15								
20								
25								
30								
35								

NOTES

0.2 ft = grass and moss on surface.

FL: measured July 14, 1962

Sample 2 SS is frozen. Nbe ice.

Note:
Co-ordinates and elevations not available.

TT FORM Nº 2

Terratech LTD
Montreal Que

SHEET 1 OF 1

OFFICE RECORD OF EXPLORATION

PROJECT Asbestos Hill Project (TT-35-62)
LOCATION Proposed Road 124,900 N 62,600 E
ELEVATION DATUM geodetic CASING SIZE BX
SAMPLER HAMMER WEIGHT 140 LBS DROP 30 INCHES

HOLE Nº 62-RD-6
HOLE DATE July 14, 15/62
REPORT DATE Aug. 24, 1962
COMPILED BY D.P.
CHECKED BY L.S.

TESTS
WL : WATER LEVEL
N : STANDARD PENETRATION VALUE (BLOWS / FOOT)
K : PERMEABILITY (CM/SEC)
V : IN-SITU VANE TEST (LBS/SQ. FT.)
FL: Frost level
GS: Grain Size analysis

SAMPLE TYPES
AS : AUGER SAMPLE
SS : SPLIT SPOON
ST : SHELBY TUBE, DIAM ____ IN.
WS : WASHED SAMPLE
RC : ROCK CORE BX SIZE
HS: Hand sample

SAMPLE CONDITIONS
DISTURBED
GOOD
LOST
DRILL CORE SAMPLE

DEPTH (FT.)	ELEV. (FT.)	DESCRIPTION	STRAT.	FROZEN GROUND	SAMPLES COND	SAMPLES Nº & TYPE	SAMPLES REC. (%)	TESTS	NOTES
0	55.0	Ground Surface							
		Brown coarse to medium sand.		FL.		1 HS		GS	0.3 ft of moss on surface
	53.0								FL: measured July 14, 1962
	52.0								
5		Brown Medium to fine sand, trace of silt. Increasing gravel content with depth.				2 SS	100	N = 160 FOR 4"	
						3 SS	85	GS N = 100 FOR 9"	
10									
						4 SS		GS N = 80 FOR 8"	
						RC	0		
15						5 SS	50	N = 79	
		Grey gravelly fine to medium sand, some silt.				6 RC	20		
20									
	31.0								
						7 RC		GS	
25		(end of hole)							
30									
35									

TT FORM No.2

Terratech LTD
Montreal Que

SHEET 1 OF 1

OFFICE RECORD OF EXPLORATION

PROJECT Asbestos Hill Project (TT-35-62)
LOCATION Proposed Road
ELEVATION DATUM _____ CASING SIZE BX
SAMPLER HAMMER WEIGHT 140 LBS DROP 30 INCHES

HOLE Nº 62-RD-7
HOLE DATE July 15, 1962
REPORT DATE Aug. 24, 1962
COMPILED BY D.P.
CHECKED BY L.S.

TESTS
WL : WATER LEVEL
N : STANDARD PENETRATION VALUE (BLOWS / FOOT)
K : PERMEABILITY (CM/SEC)
V : IN-SITU VANE TEST (LBS/SQ. FT.)
GS: Grain Size analysis
FL: Frost level

SAMPLE TYPES
AS : AUGER SAMPLE
SS : SPLIT SPOON
ST : SHELBY TUBE, DIAM ____ IN.
WS : WASHED SAMPLE
RC : ROCK CORE BX SIZE
HS: Hand sample

SAMPLE CONDITIONS
DISTURBED
GOOD
LOST
DRILL CORE SAMPLE

PROFILE				FROZEN GROUND	SAMPLES			TESTS
DEPTH (FT.)	ELEV. (FT.)	DESCRIPTION	STRAT.		COND.	Nº & TYPE	REC. (%)	
0		Ground surface						
		Fine to coarse sand, some gravel trace of silt.		FL		1 HS		GS
5		Grey silt and fine sand. Trace of shells						
						2 SS	100	GS N = 50 FOR 6"
10						3 SS	90	GS N = 104
15		(end of hole)						
20								
25								
30								
35								

NOTES

0.3 feet of moss on surface

FL: measured July 15, 1962

Note:
Co-ordinates and elevations not available

TT FORM Nº:2

Terratech LTD
Montreal Que

SHEET 1 OF 1

OFFICE RECORD OF EXPLORATION

PROJECT Asbestos Hill Project (TT-35-62)
LOCATION Proposed Road 132,050 N 53,600 E
ELEVATION DATUM geodetic CASING SIZE NX (to 10 ft); BX
SAMPLER HAMMER WEIGHT 140 LBS DROP 30 INCHES

HOLE Nº 62-RD-8
HOLE DATE July 16,1962
REPORT DATE Aug.24,1962
COMPILED BY D.P.
CHECKED BY L.S.

TESTS
WL : WATER LEVEL
N : STANDARD PENETRATION VALUE (BLOWS / FOOT)
K : PERMEABILITY (CM/SEC)
V : IN-SITU VANE TEST (LBS/SQ. FT.)
FL:Frost level
GS: Grain size analysis

SAMPLE TYPES
AS : AUGER SAMPLE
SS : SPLIT SPOON
ST : SHELBY TUBE, DIAM ____ IN.
WS : WASHED SAMPLE
RC : ROCK CORE NX / BX SIZE
HS: Hand sample

SAMPLE CONDITIONS
DISTURBED
GOOD
LOST
DRILL CORE SAMPLE

DEPTH (FT.)	ELEV. (FT.)	DESCRIPTION	STRAT.	FROZEN GROUND	SAMPLES COND.	SAMPLES Nº & TYPE	SAMPLES REC. (%)	TESTS
0	80.0	Ground surface						
	79.2	Moss						
	78.4	Fine to coarse gravel		FL		1 HS		GS
	76.0					RC		
5		Sand and gravel, trace of silt				2 SS	100	GS N = 130 FOR 9"
10						3 SS	100	GS N = 70 FOR 5"
15						4 SS	100	N = 107 FOR 5"
20						5 SS	0	N = 70 FOR 9"
	57.0							
25		Grey silty clay, trace of sand				RC		
30	50.1					6 SS	100	GS N = 74
35		(end of hole)						

NOTES

0.8 feet of moss on ground surface

FL: measured July 16, 1962

TT FORM NO.2

Terratech LTD
Montreal Que

SHEET 1 OF 1

OFFICE RECORD OF EXPLORATION

PROJECT Asbestos Hill Project (TT-35-62)
LOCATION Proposed Road 134,200 N 49,650 E
ELEVATION DATUM _____ CASING SIZE NX and BX
SAMPLER HAMMER WEIGHT 140 LBS DROP 30 INCHES

HOLE Nº 62-RD-9
HOLE DATE July 17, 1962
REPORT DATE Aug. 24, 1962
COMPILED BY D.P.
CHECKED BY L.S.

TESTS
WL : WATER LEVEL
N : STANDARD PENETRATION VALUE (BLOWS / FOOT)
K : PERMEABILITY (CM/SEC)
V : IN-SITU VANE TEST (LBS/SQ. FT.)
FL: Frost level
GS: Grain Size analysis

SAMPLE TYPES
AS : AUGER SAMPLE
SS : SPLIT SPOON
ST : SHELBY TUBE, DIAM _____ IN.
WS : WASHED SAMPLE
RC : ROCK CORE NX / BX SIZE

SAMPLE CONDITIONS
DISTURBED
GOOD
LOST
DRILL CORE - SAMPLE

PROFILE				FROZEN GROUND	SAMPLES			TESTS	NOTES
DEPTH (FT.)	ELEV. (FT.)	DESCRIPTION	STRAT.		COND.	Nº & TYPE	REC. (%)		
0	85.0	Ground Surface							
	84.0	Dark grey medium sand							0.2 feet of moss on surface.
	83.2			FL.		1 RC	71		FL: measured July 17, 1962
5									
						2 RC		GS	
		Brown fine to medium							
10		sand, gravel and							
		boulders,				RC			
		some silt.							
15									
						RC			
						RC			
20									
						3 SS	0	N = 100 FOR 5"	
25									
30						RC			
	54.8								
35		(End of hole)							

TT FORM No 12

Terratech LTD
Montreal Que

SHEET 1 OF 1

OFFICE RECORD OF EXPLORATION

PROJECT Asbestos Hill Project (TT-35-62)
LOCATION Proposed Road
ELEVATION DATUM _____ CASING SIZE NX
SAMPLER HAMMER WEIGHT 140 LBS DROP 30 INCHES

HOLE No 62-RD-10
HOLE DATE Aug. 14, 15/1962
REPORT DATE Oct. 3, 1962
COMPILED BY D.P.
CHECKED BY F.T.

TESTS
WL : WATER LEVEL
N : STANDARD PENETRATION VALUE (BLOWS / FOOT)
K : PERMEABILITY (CM/SEC)
V : IN-SITU VANE TEST (LBS/SQ.FT.)

SAMPLE TYPES
AS : AUGER SAMPLE
SS : SPLIT SPOON
ST : SHELBY TUBE, DIAM ____ IN.
WS : WASHED SAMPLE
RC : ROCK CORE NX SIZE

SAMPLE CONDITIONS
DISTURBED
GOOD
LOST
DRILL CORE SAMPLE

PROFILE				GROUND WATER	SAMPLES			TESTS
DEPTH (FT.)	ELEV. (FT.)	DESCRIPTION	STRAT.		COND.	Nº & TYPE	REC. (%)	
0		Ground Surface						
5		Grey brown, fine to coarse sand, some gravel, cobbles and boulders. Trace to some silt. Very high ice content below 16.0 feet.				RC	78	
						1 SS	78	N = 68 GS
10						2 SS	56	N = 97 GS
						RC	90	
						RC	75	
						RC	71	
15						3 SS	100	N = 130 FOR 11" GS
						RC	0	
20						4 SS	100	N = 80 GS
						RC	0	
						5 SS	89	N = 74
25		(end of hole)						
30								
35								

NOTES

Maximum diameter of boulder recovered by drilling is 9 inches.

Sample 4 SS and 5 SS contained about 10 percent sand and gravel with the remainder being solid ice.

Note:
Co-ordinates and elevations not available.

TT FORM Nº 2

Terratech LTD
Montreal Que

SHEET 1 OF 1

OFFICE RECORD OF EXPLORATION

PROJECT Asbestos Hill Project (TT-35-62)
LOCATION Proposed Road
ELEVATION DATUM _____ CASING SIZE NX and BX
SAMPLER HAMMER WEIGHT 140 LBS DROP 30 INCHES

HOLE Nº 62-RD-11
HOLE DATE Aug.15,16/62
REPORT DATE Oct.22,1962
COMPILED BY D.P.
CHECKED BY F.T.

TESTS
WL : WATER LEVEL
N : STANDARD PENETRATION VALUE (BLOWS / FOOT)
K : PERMEABILITY (CM/SEC)
V : IN-SITU VANE TEST (LBS/SQ. FT.)

SAMPLE TYPES
AS : AUGER SAMPLE
SS : SPLIT SPOON
ST : SHELBY TUBE, DIAM ____ IN.
WS : WASHED SAMPLE
RC : ROCK CORE NX / BX SIZE

SAMPLE CONDITIONS
DISTURBED
GOOD
LOST
DRILL CORE SAMPLE

PROFILE				GROUND WATER	SAMPLES			TESTS	NOTES
DEPTH (FT.)	ELEV. (FT.)	DESCRIPTION	STRAT.		COND.	Nº & TYPE	REC. (%)		
0		Ground Surface							
		Sand, gravel cobbles and boulders				RC	74		Maximum diameter of boulder recovered by drilling is 9 inches
5						RC	91		
						RC	61		
						RC	77		
						RC	82		
10						RC	50		
						1 SS	0	N=50 FOR 2"	
						RC	78		
15									
						RC	83		
						RC	75		
20		(end of hole)							Note: Co-ordinates and elevations not available.
25									
30									
35									

TT FORM Nº 2

Terratech LTD
Montreal Que

SHEET 1 OF 1

OFFICE RECORD OF EXPLORATION

PROJECT Asbestos Hill Project (TT-35-62)
LOCATION Proposed road
ELEVATION DATUM _____ CASING SIZE NX and BX
SAMPLER HAMMER WEIGHT 140 LBS DROP 30 INCHES

HOLE Nº 62-RD-12
HOLE DATE Aug.16,17/62
REPORT DATE Oct.22, 1962
COMPILED BY D.P.
CHECKED BY F.T.

TESTS
WL : WATER LEVEL
N : STANDARD PENETRATION VALUE (BLOWS / FOOT)
K : PERMEABILITY (CM/SEC)
V : IN-SITU VANE TEST (LBS/SQ. FT.)

SAMPLE TYPES
AS : AUGER SAMPLE
SS : SPLIT SPOON
ST : SHELBY TUBE, DIAM ____ IN.
WS : WASHED SAMPLE
RC : ROCK CORE NX SIZE

SAMPLE CONDITIONS
DISTURBED
GOOD
LOST
DRILL CORE SAMPLE

PROFILE				GROUND WATER	SAMPLES			TESTS
DEPTH (FT.)	ELEV. (FT.)	DESCRIPTION	STRAT.		COND.	Nº & TYPE	REC. (%)	
0		Ground surface						
		Fine to coarse sand.				RC	88	
						RC	30	
5		Some gravel and				RC	19	
		cobbles				1 SS	100	N = 60 FOR 2"
						RC	67	
10						RC	73	
15						RC	42	
						RC	82	
						RC	40	
						RC	47	
20						RC	53	
						2 SS	0	
						RC	31	
						RC	50	
25						3 SS	100	N = 100
		(end of hole)						
30								
35								

NOTES

Maximum diameter of cobble recovered by drilling is 6 inches.

Sample 3 SS was cloudy ice with a trace of gravel inclusions.

Note:
Co-ordinates and elevations not available.

TT FORM Nº:2

Terratech LTD
Montreal Que

SHEET 1 OF 1

OFFICE RECORD OF EXPLORATION

PROJECT Asbestos Hill Project (TT-35-62)
LOCATION Proposed Road
ELEVATION DATUM _____ CASING SIZE NX
SAMPLER HAMMER WEIGHT 140 LBS DROP 30 INCHES

HOLE Nº 62-RD-13
HOLE DATE Aug.18,19/62
REPORT DATE Oct.22,1962
COMPILED BY D.P.
CHECKED BY F.T.

TESTS
WL : WATER LEVEL
N : STANDARD PENETRATION VALUE (BLOWS / FOOT)
K : PERMEABILITY (CM/SEC)
V : IN-SITU VANE TEST (LBS/SQ. FT.)
GS: Grain Size Analysis

SAMPLE TYPES
AS : AUGER SAMPLE
SS : SPLIT SPOON
ST : SHELBY TUBE, DIAM _____ IN.
WS : WASHED SAMPLE
RC : ROCK CORE NX SIZE

SAMPLE CONDITIONS
DISTURBED
GOOD
LOST
DRILL CORE SAMPLE

PROFILE				GROUND WATER	SAMPLES			TESTS	NOTES
DEPTH (FT.)	ELEV. (FT.)	DESCRIPTION	STRAT.		COND.	Nº & TYPE	REC. (%)		
0		Ground surface							
		Grey fine sand.				RC	75		
5		Some medium to coarse				1 SS	0	N = 55 FOR 6"	
		sand. Some gravel.				RC	5		Sample 2 SS contained frozen (Nf) fine sand, some silt, medium to coarse sand, and a trace of gravel.
10		Trace to some silt.				2 SS	100	N = 128 FOR 8" 6S	
						RC	0		
						3 SS	0	N = 81 FOR 4"	
15						RC	0		
						4 SS	0	N = 150 FOR 6"	
20						RC	0		
						5 SS	0	N = 343 FOR 9"	
						RC	0		
25						6 SS	0	N = 65 FOR 6"	Note: Co-ordinates and elevations not available.
		(end of hole)							
30									
35									

APPENDIX II

Grain-Size Distribution Curves

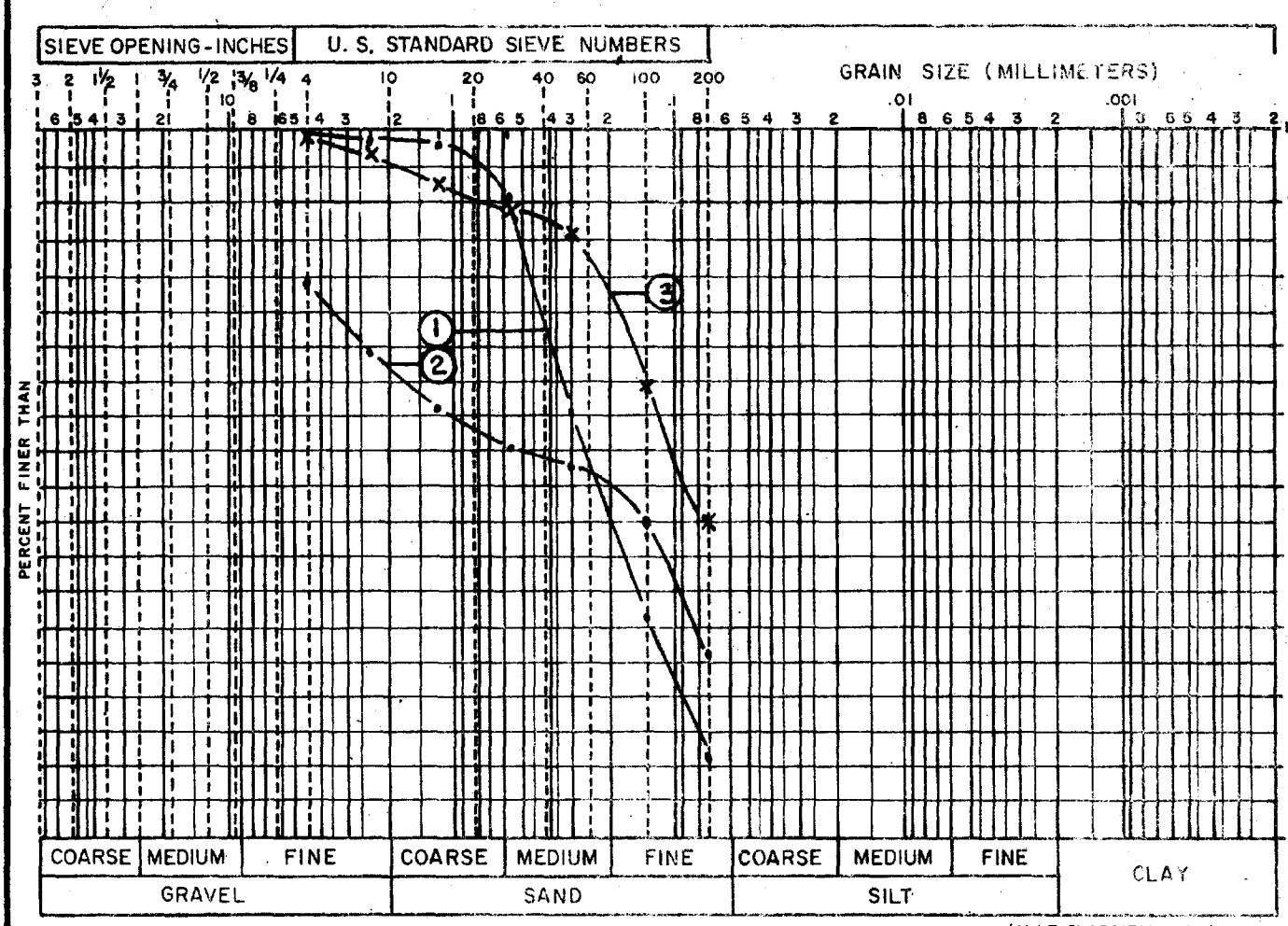
FIGURE NO. II-1

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN SIZE DISTRIBUTION

PROJECT Asbestos Hill Project, Proposed Road (TT-35-62)



REMARKS:

① Hole 62-RD-1, Sample 1 SS, Depth 1.5 to 2.0 feet

② Hole 62-RD-1, Sample 2 SS, Depth 8.4 to 8.9 feet

③ Hole 62-RD-1, Sample 3 SS, Depth 12.0 to 12.4 feet

DATE: August 22, 1962

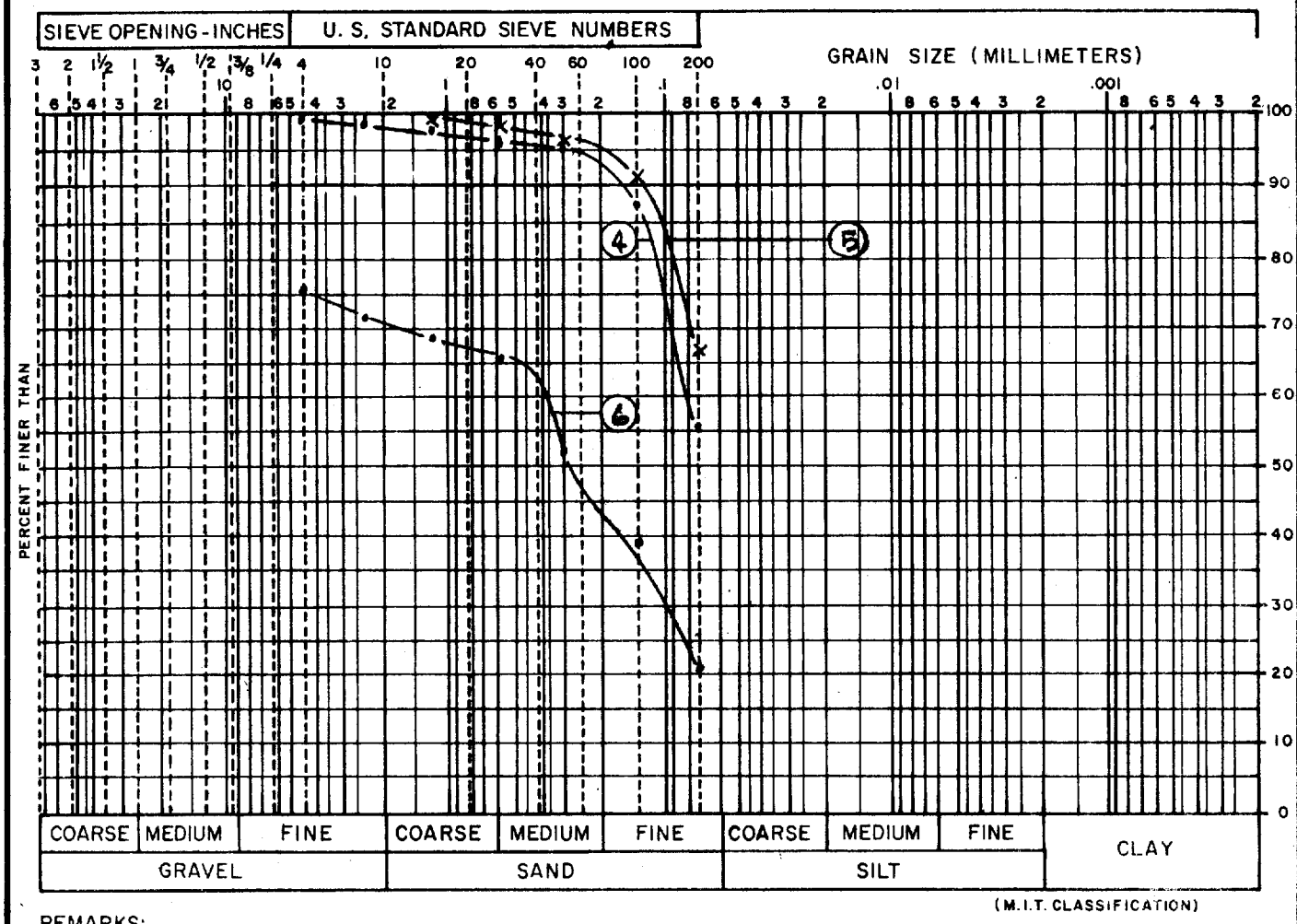
FIGURE NO. II-2

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project, Proposed Road (TT-35-62)



REMARKS:

④ Hole 62-RD-1, Sample 4 SS, Depth 16.4 to 16.9 feet

⑤ Hole 62-RD-1, Sample 5 SS, Depth 20.6 to 21.0 feet

⑥ Hole 62-RD-1, Sample 6 SS, Depth 24.4 to 25.4 feet

DATE: August 22, 1962

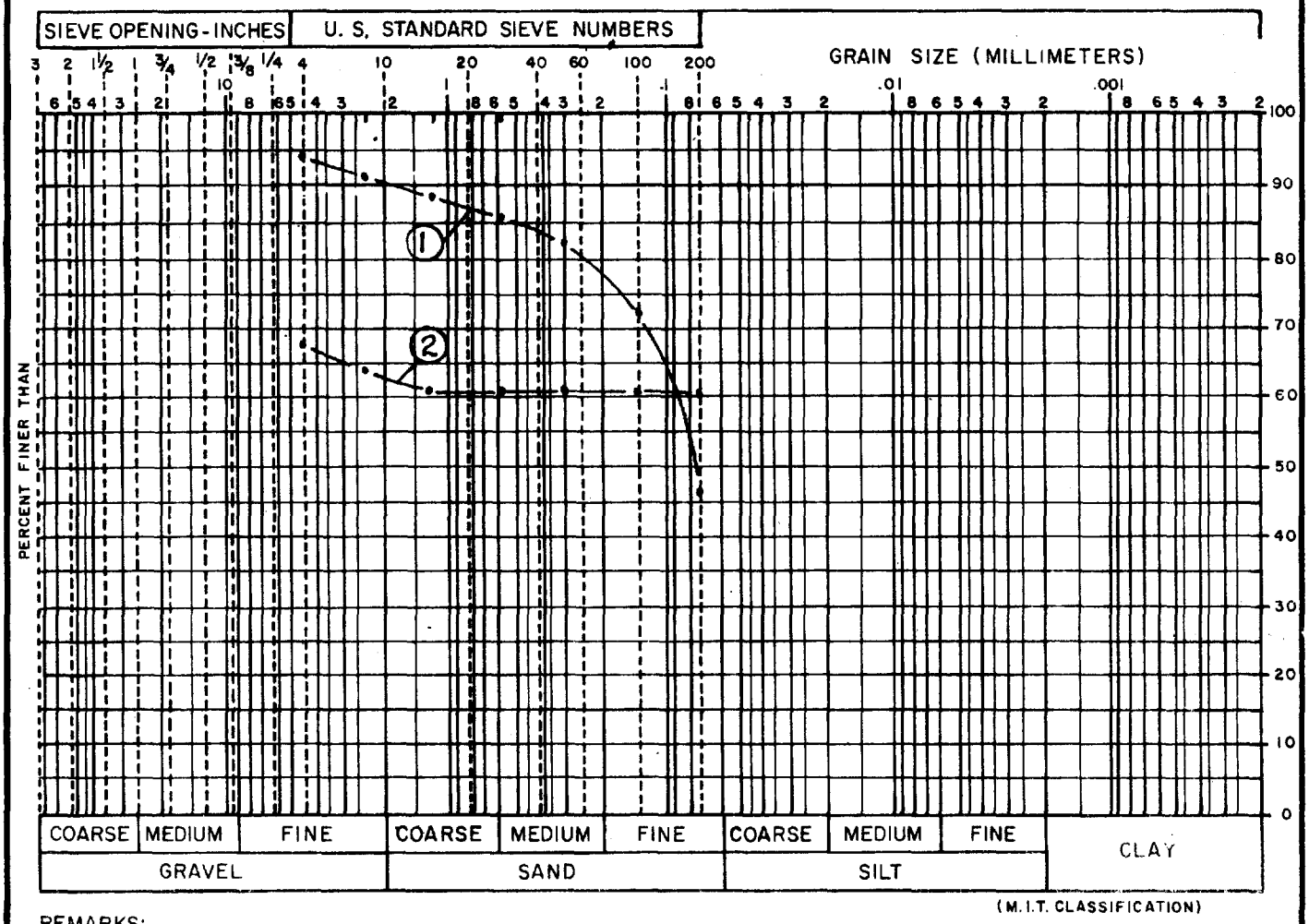
FIGURE NO. II-3

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project, Proposed Road (TT-35-62)



REMARKS:

(1) Hole 62-RD-2, Sample 2 SS, Depth 10.5 to 11.0 feet

(2) Hole 62-RD-2, Sample 4 SS, Depth 20.0 to 20.5 feet

DATE: August 22, 1962

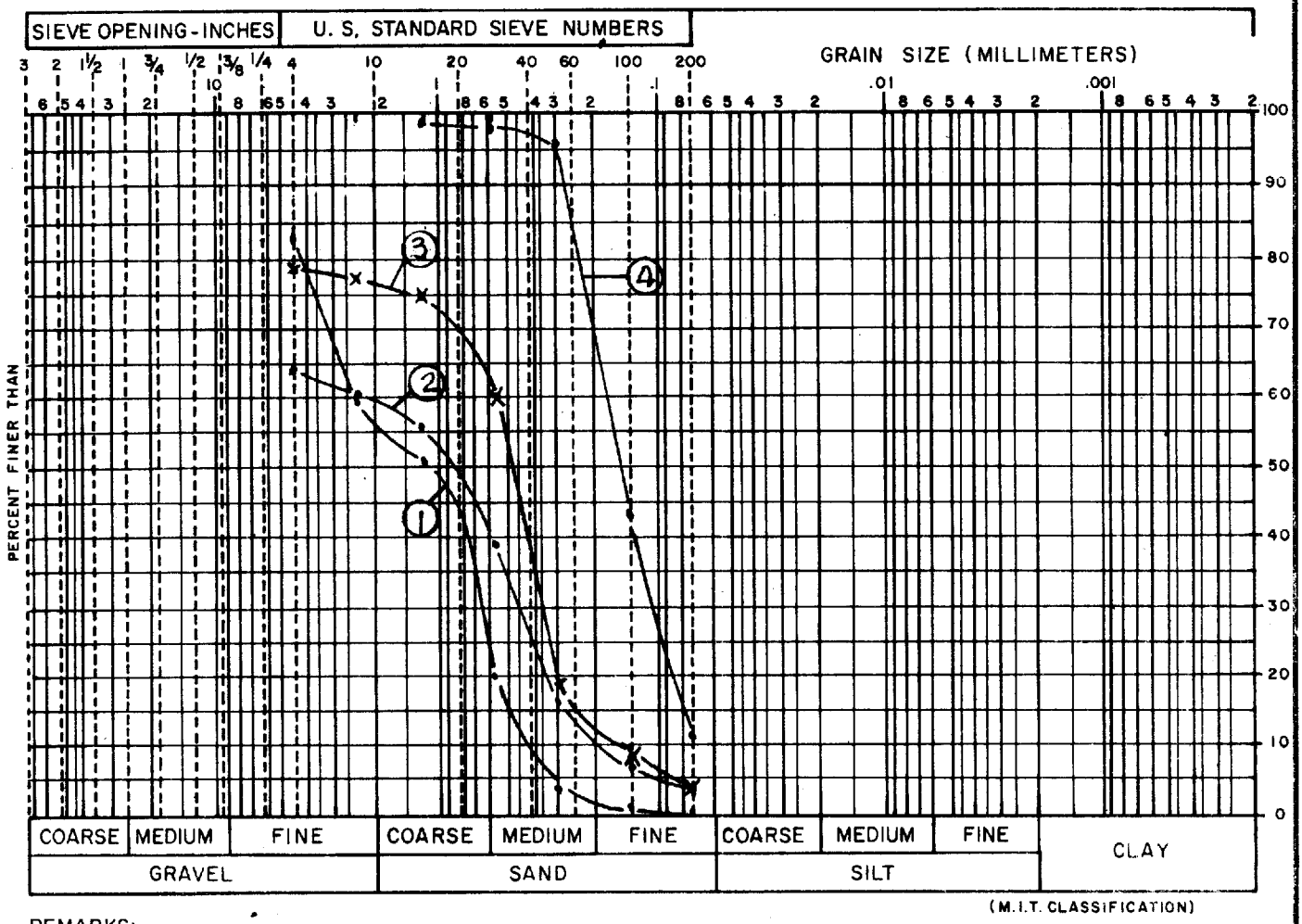
FIGURE NO. 11-4

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project, Proposed Road (TT-35-62)



REMARKS:

(1) Hole 62-RD-3, Sample 1 HS, Depth 1.0 to 2.0 feet

(2) Hole 62-RD-3, Sample 4 SS, Depth 10.0 to 10.6 feet

(3) Hole 62-RD-3, Sample 5 SS, Depth 14.0 to 14.9 feet

(4) Hole 62-RD-3, Sample 6 SS, Depth 20 to 21 feet

DATE: August 22, 1962

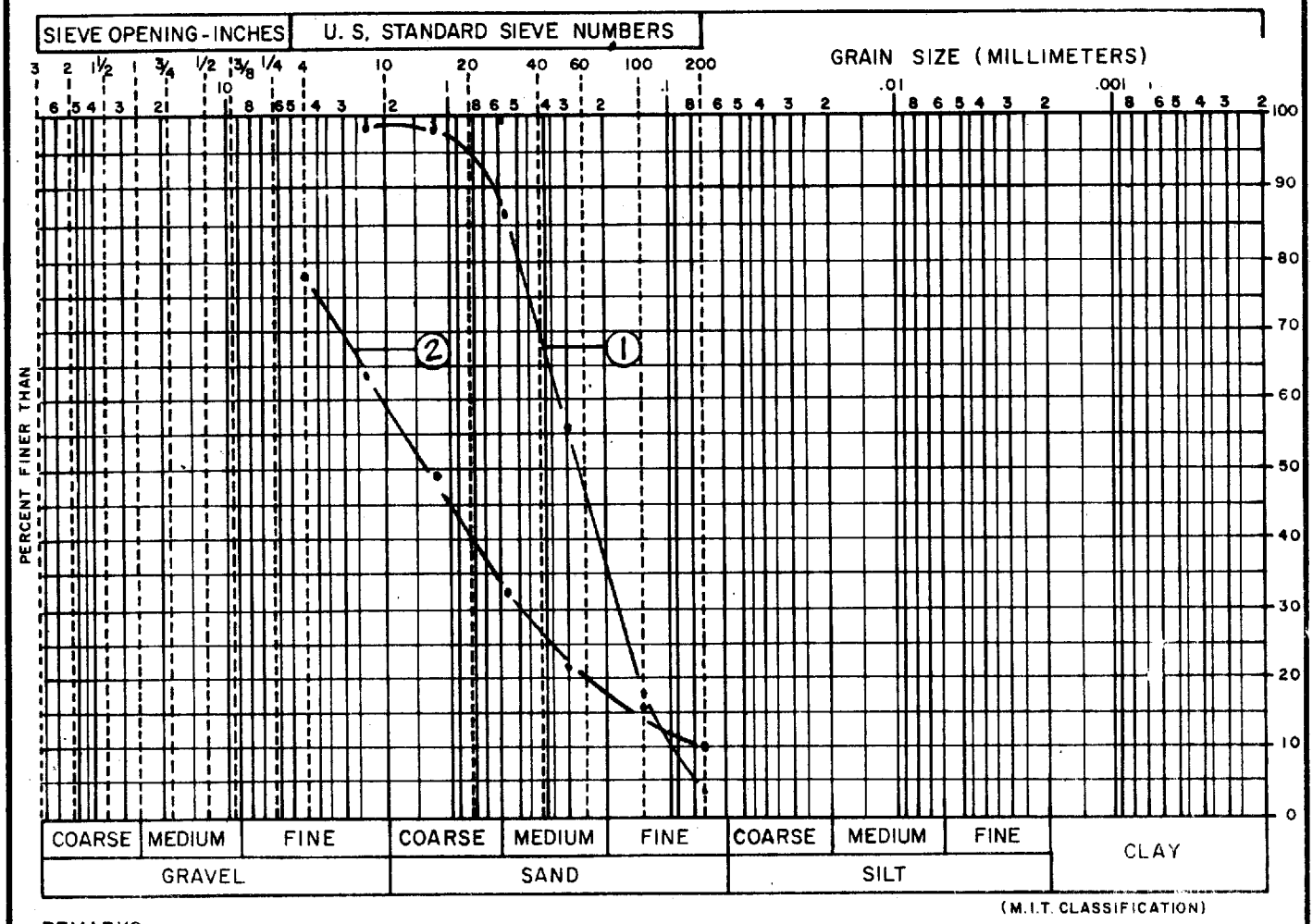
FIGURE NO. II-5

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project, Proposed Road, (TT-35-62)



REMARKS:

(1) Hole 62-RD-4, Sample 1 HS, Depth 2.0 to 2.5 feet

(2) Hole 62-RD-4, Sample 3 SS, Depth 6.4 to 6.8 feet

DATE: August 22, 1962

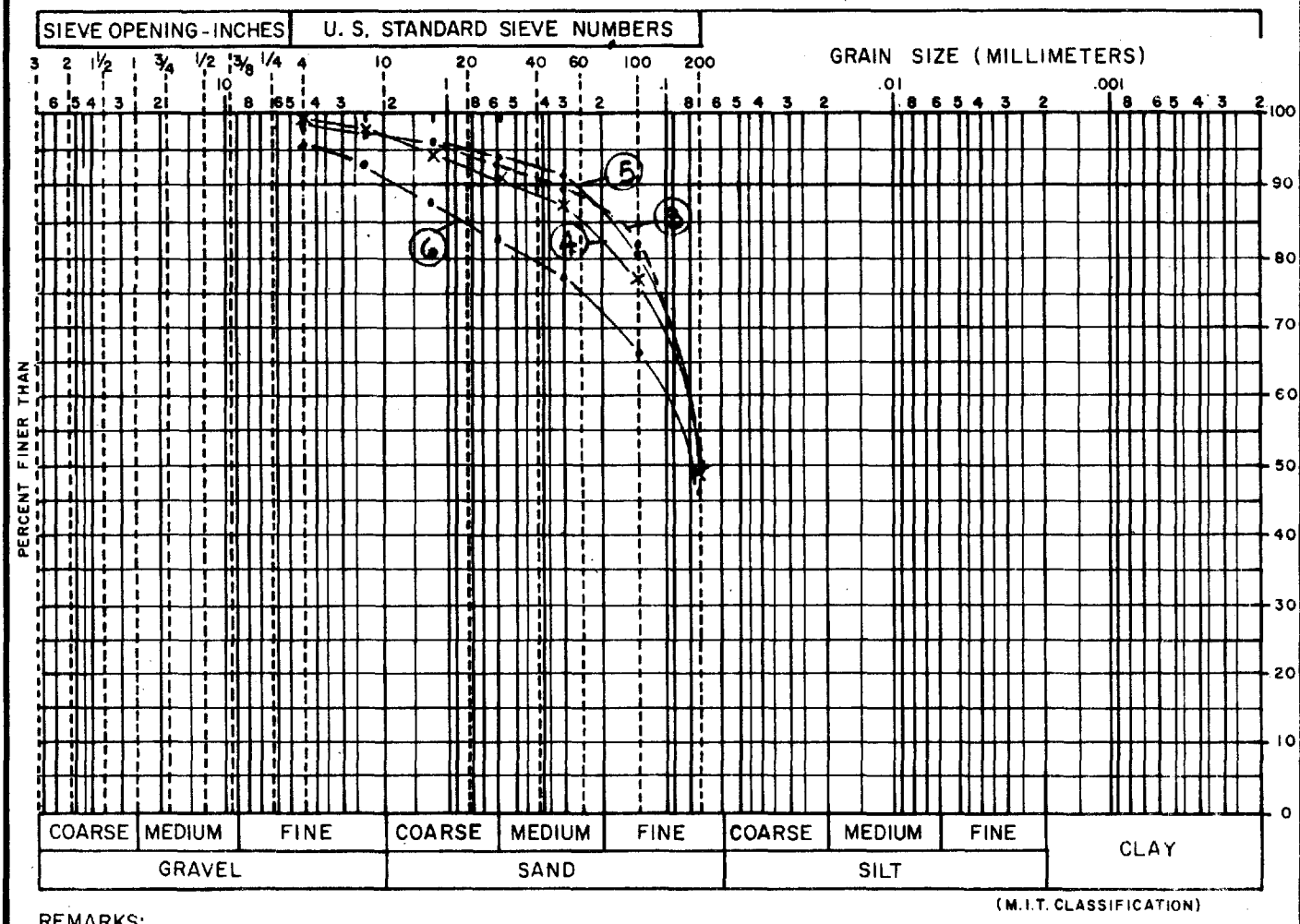
FIGURE NO: 11-6

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project, Proposed Road, (TT-35-62)



REMARKS:

(3) Hole 62-RD-4, Sample 4 SS, Depth 8.5 to 9.3 feet

(4) Hole 62-RD-4, Sample 5 SS, Depth 12.4 to 12.9 feet

(5) Hole 62-RD-4, Sample 6 SS, Depth 16.4 to 16.9 feet

(6) Hole 62-RD-4, Sample 7 SS, Depth 20.4 to 20.9 feet

DATE: August 22, 1962

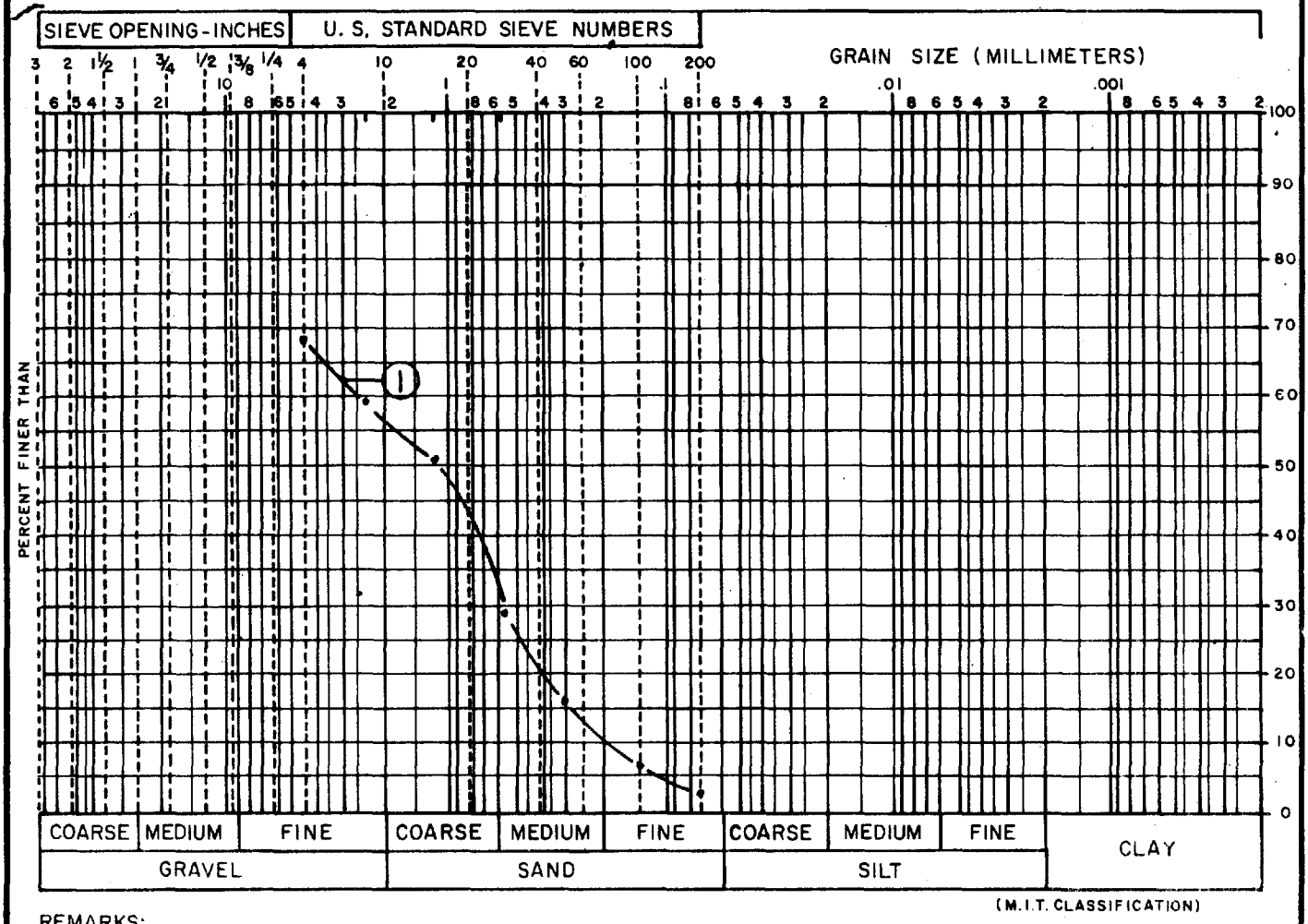
FIGURE NO. 11-7

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project, Proposed Road, (TT-35-62)



REMARKS:

① Hole 62-RD-5, Sample 1 HS, Depth 1.5 to 2.5 feet

DATE: August 22, 1962

TT-FORM N°4

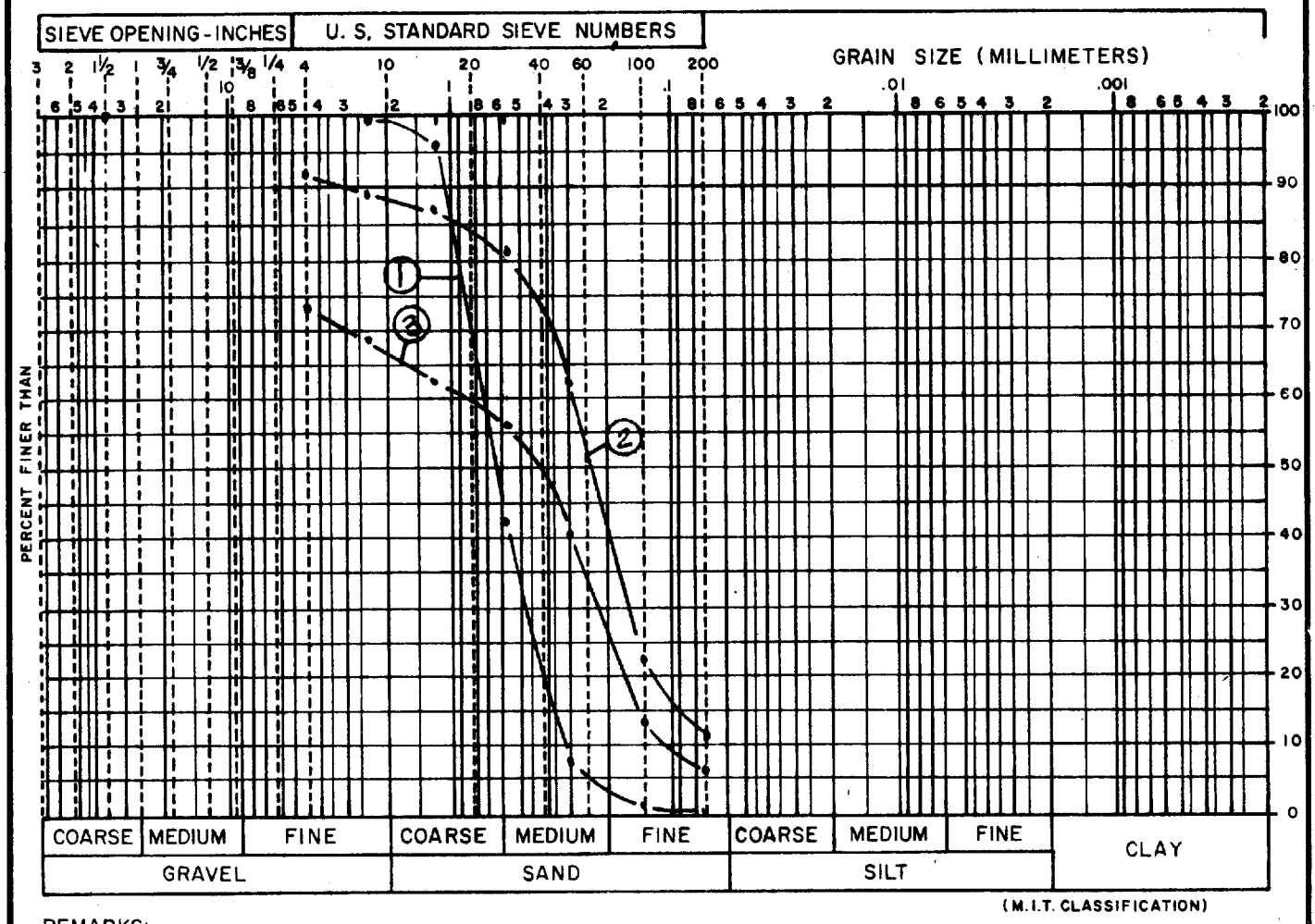
FIGURE NO: 11-8

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project, Proposed Road, (TT-35-62)



REMARKS:

① Hole 62-RD-6, Sample 1 HS, Depth 1.5 to 2.0 feet

② Hole 62-RD-6, Sample 3 SS, Depth 6.4 to 7.6 feet

③ Hole 62-RD-6, Sample 4 SS, Depth 10.4 to 11.0 feet

DATE: August 22, 1962

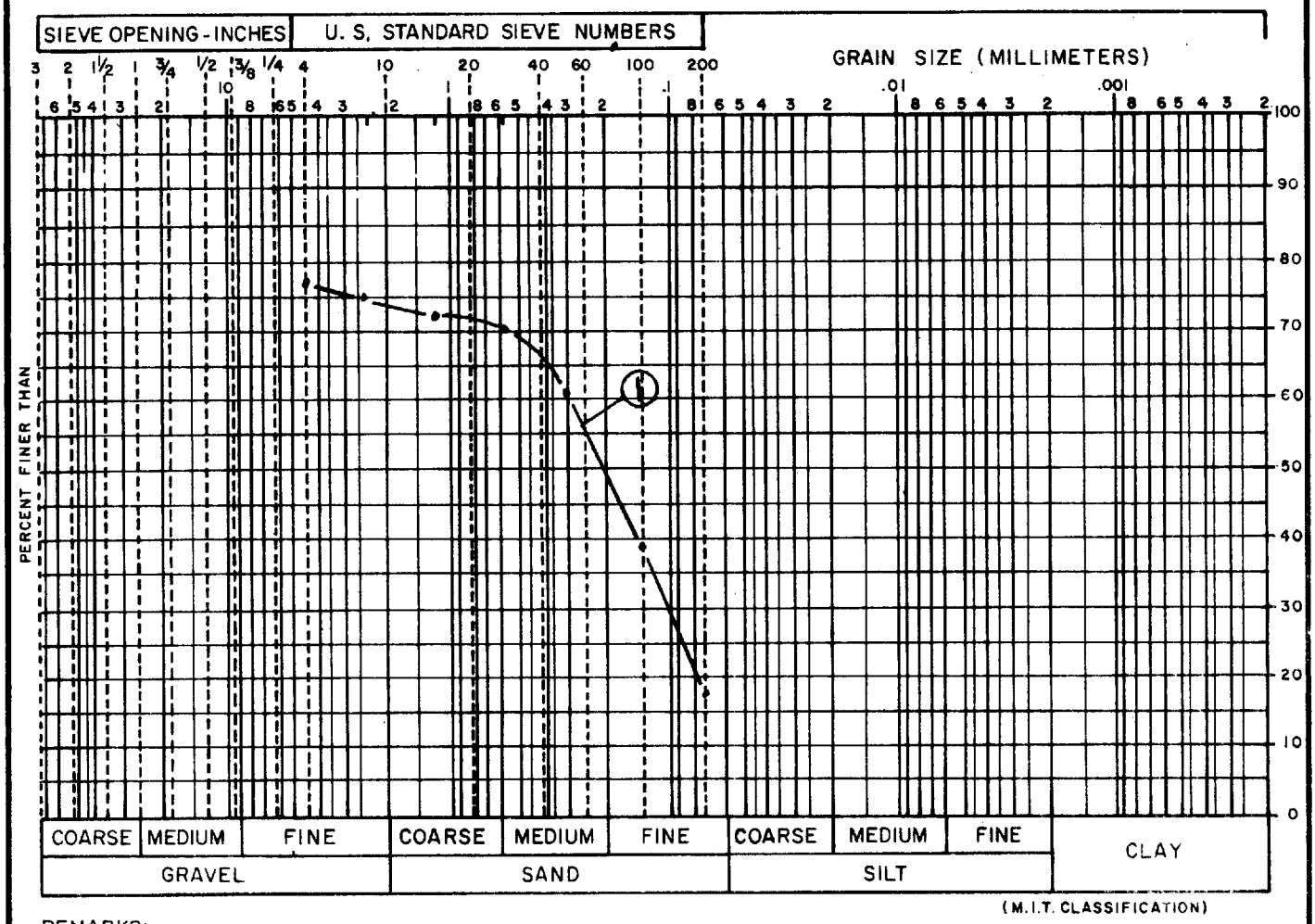
FIGURE NO. 11-9

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project, Proposed Road, (TT-35-62)



REMARKS:

(1) Hole 62-RD-6, Sample 7 RC, Depth 23 to 24 feet

DATE: August 22, 1962

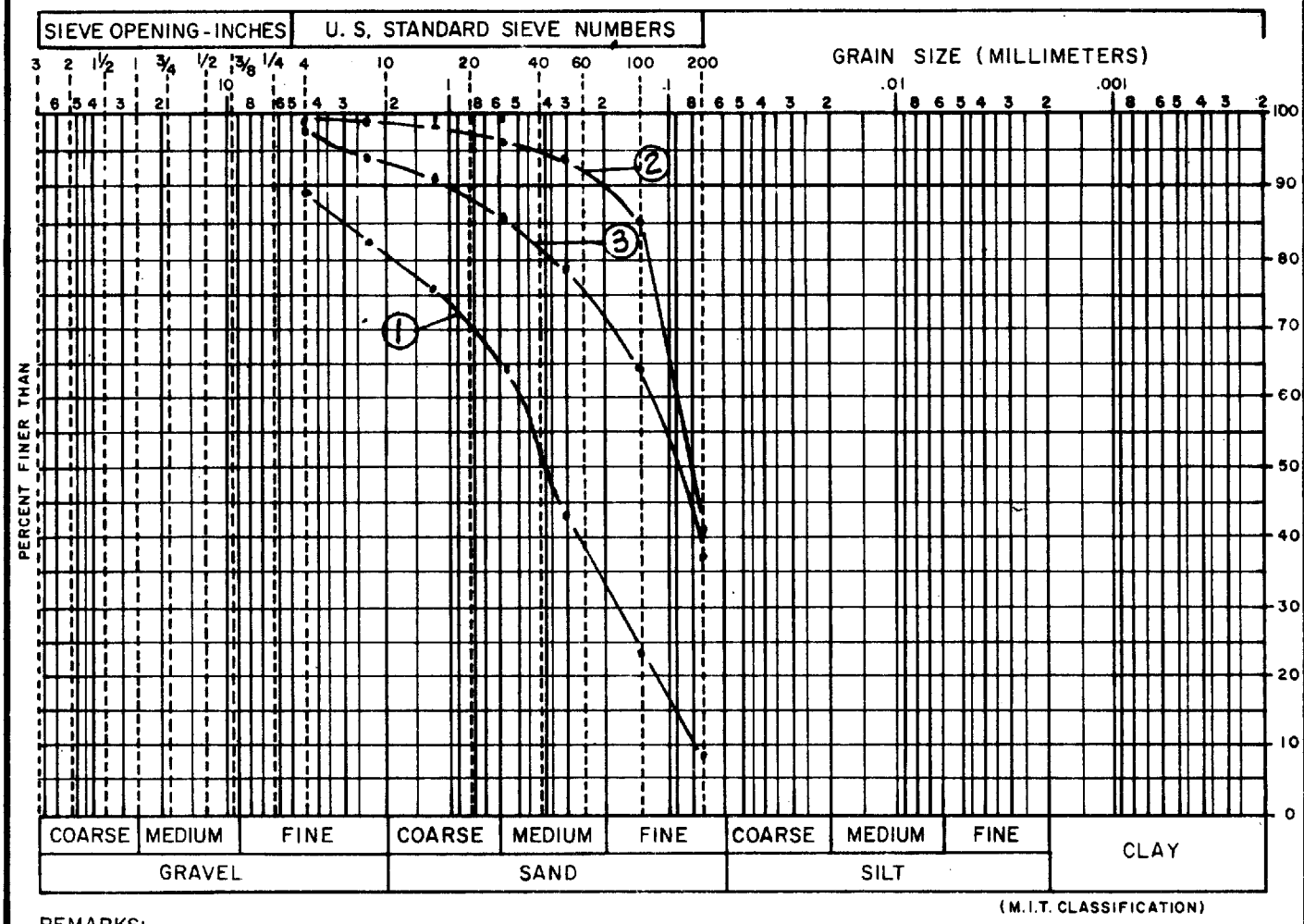
FIGURE NO. TT-10

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project, Proposed Road, (TT-35-62)



REMARKS:

(1) Hole 62-RD-7, Sample 1 HS, Depth 0 to 1.8 feet

(2) Hole 62-RD-7, Sample 2 SS, Depth 8.4 to 8.9 feet

(3) Hole 62-RD-7, Sample 3 SS, Depth 10.4 to 11.9 feet

DATE: August 22, 1962

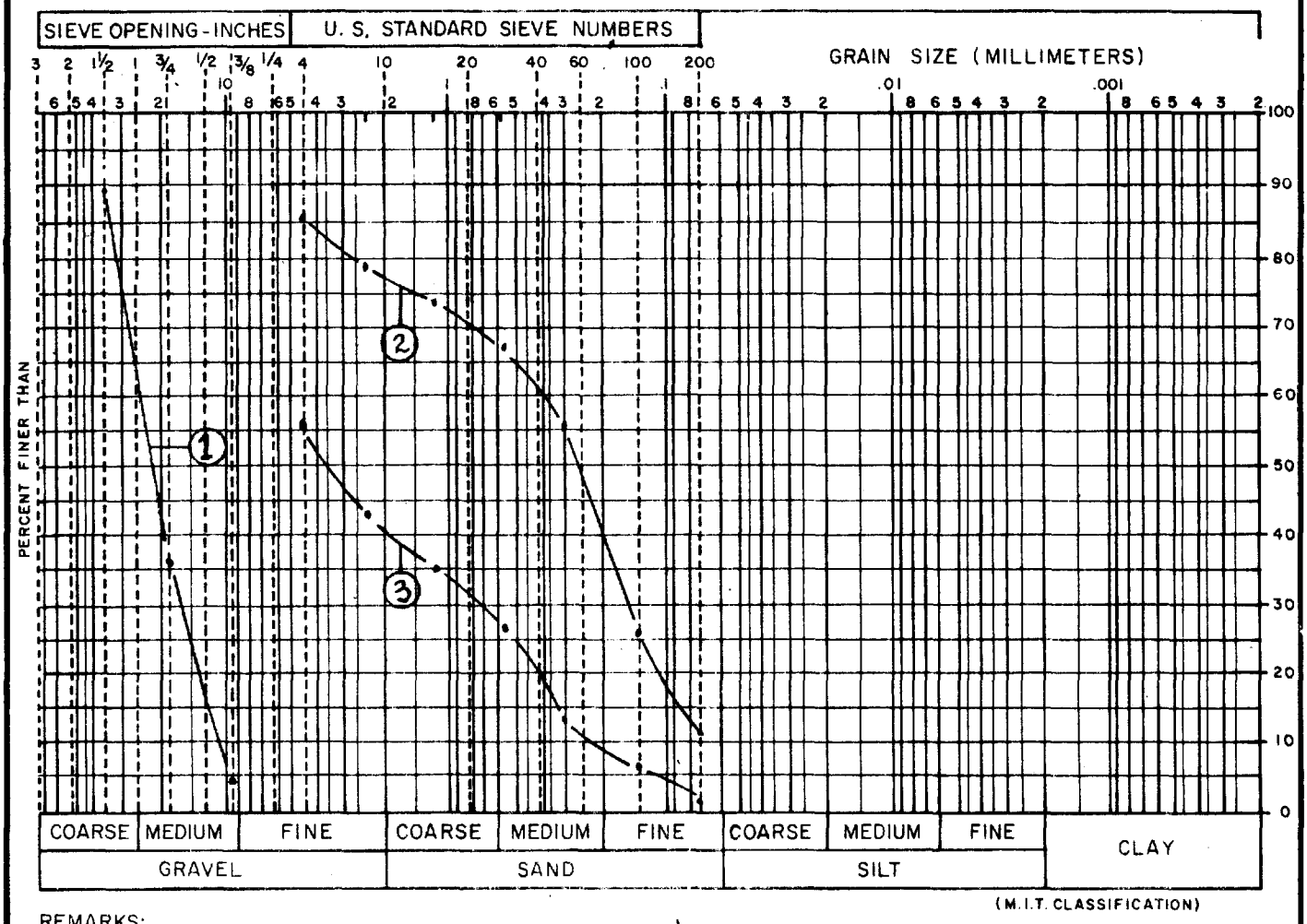
FIGURE NO. II-11

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project, Proposed Road, (TT-35-62)



REMARKS:

(1) Hole 62-RD-8, Sample 1 HS, Depth 0.8 to 1.6 feet

(2) Hole 62-RD-8, Sample 2 SS, Depth 6.7 to 7.0 feet

(3) Hole 62-RD-8, Sample 3 SS, Depth 10.4 to 10.8 feet

DATE: August 22, 1962

TT-FORM No 4

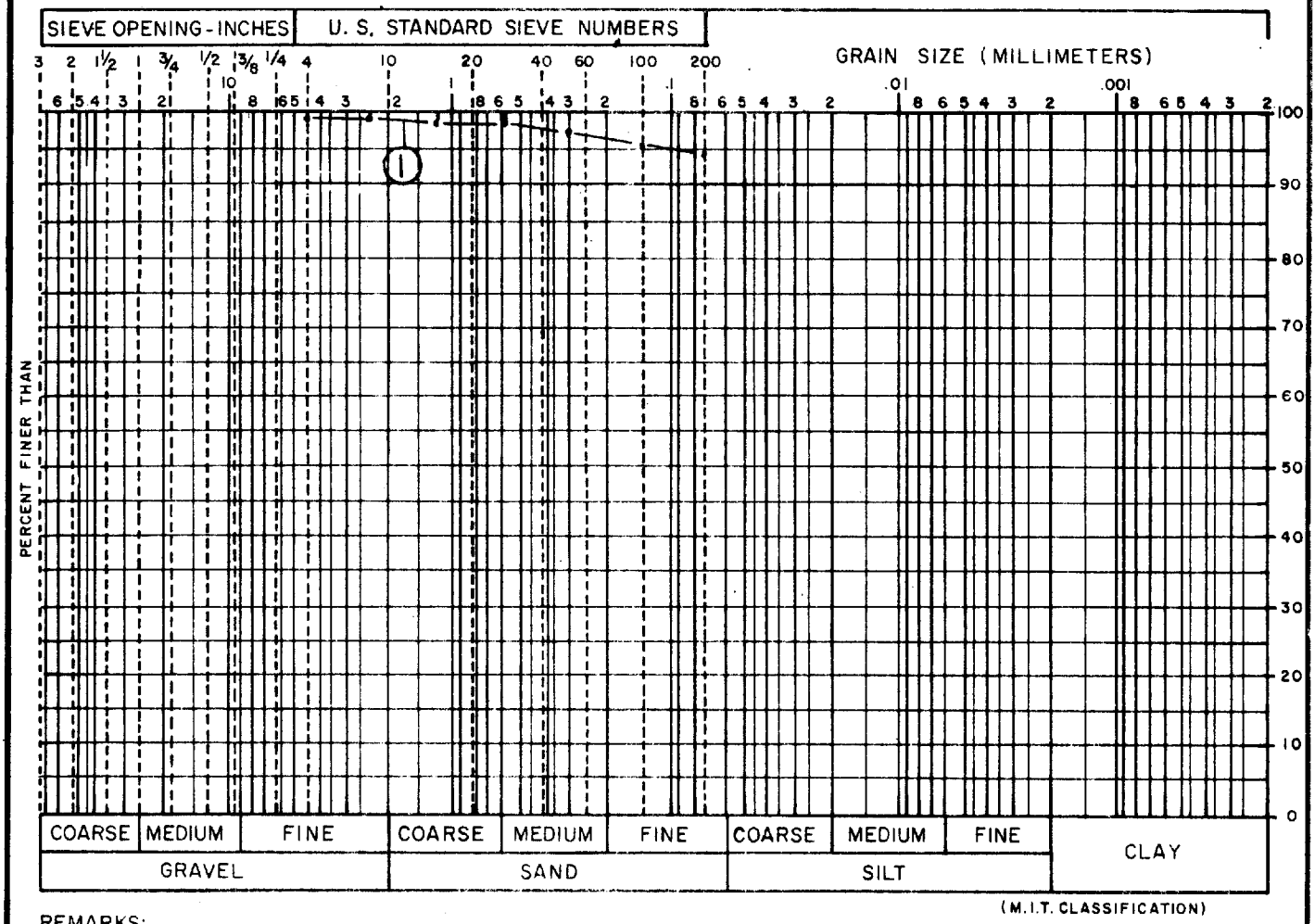
FIGURE NO. II-12

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project, Proposed Road. (TT-35-62)



REMARKS:

① Hole 62-RD-8, Sample 6 SS, Depth 28.4 to 29.9 feet

DATE: August 22, 1962

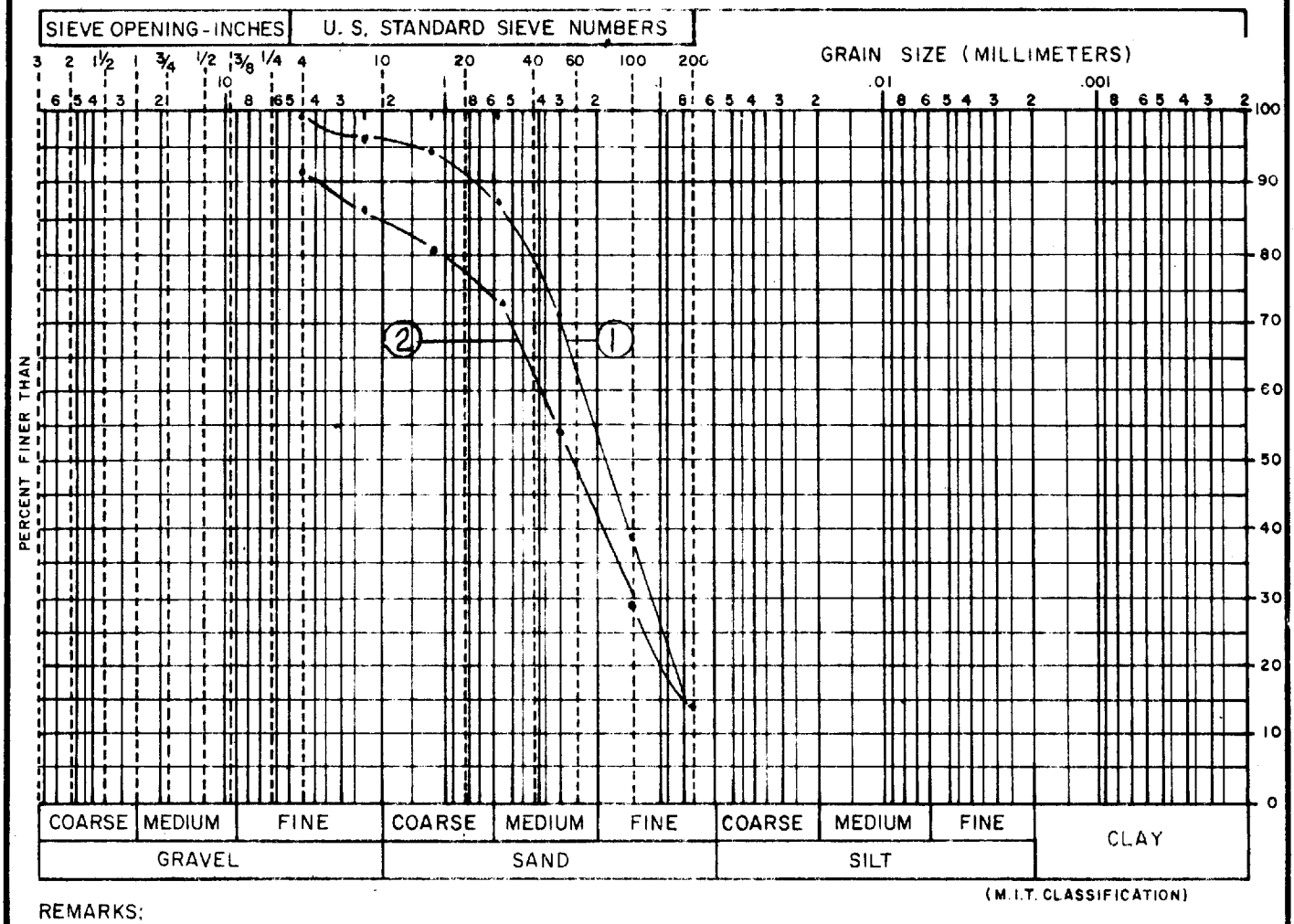
FIGURE NO. 11-13

TERRATECH LTD.

1440 ST CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project, Proposed Road, (TT-35-62)



REMARKS:

① Hole 62-RD-9, Sample 2 RC, Depth 6.0 to 6.9 feet

② Hole 62-RD-9, Sample 6 SS, Depth 20.3 to 20.7 ft

DATE August 22, 1962

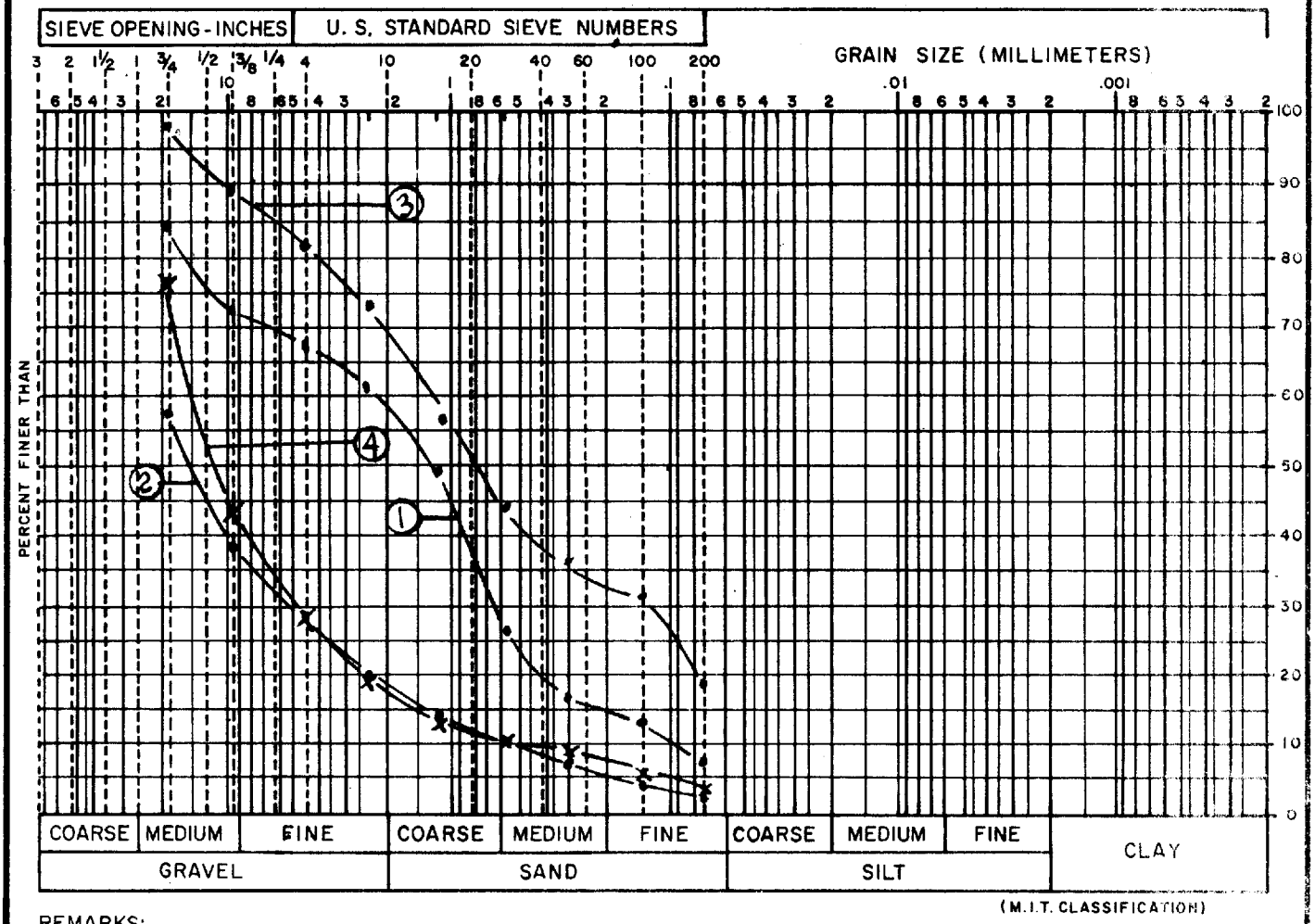
FIGURE NO. TT-14

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

① Hole 62-RD-10, Sample 1 SS, Depth 4.5 to 6.0 feet

② Hole 62-RD-10, Sample 2 SS, Depth 7.9 to 9.4 feet

③ Hole 62-RD-10, Sample 3 SS, Depth 12.7 to 13.6 feet

④ Hole 62-RD-10, Sample 4 SS, Depth 16.2 to 17.5 feet

DATE:

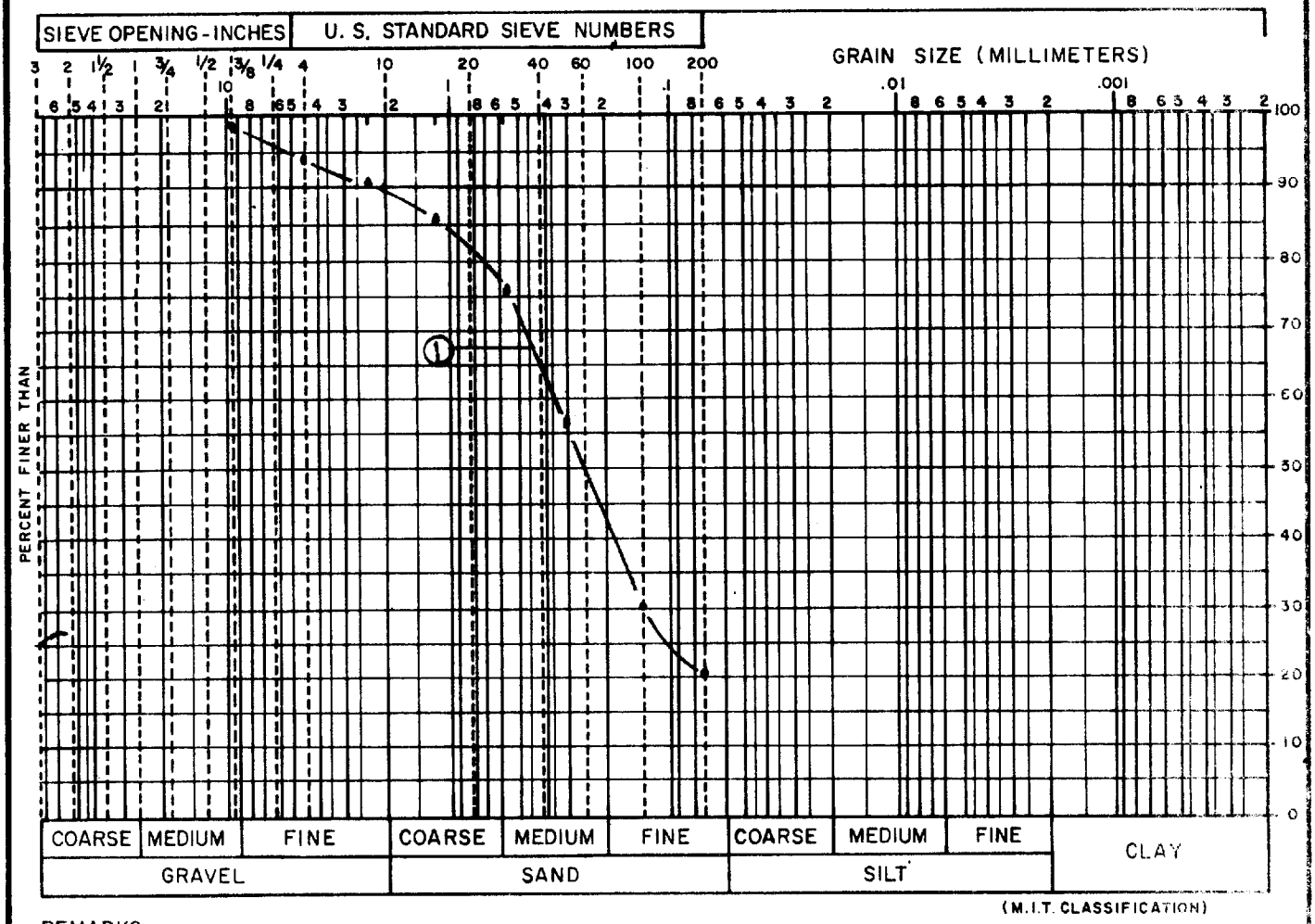
FIGURE NO. II-15

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Hole 62-RD-13, Sample 2 SS, Depth 8.2 to 8.8 feet

DATE:

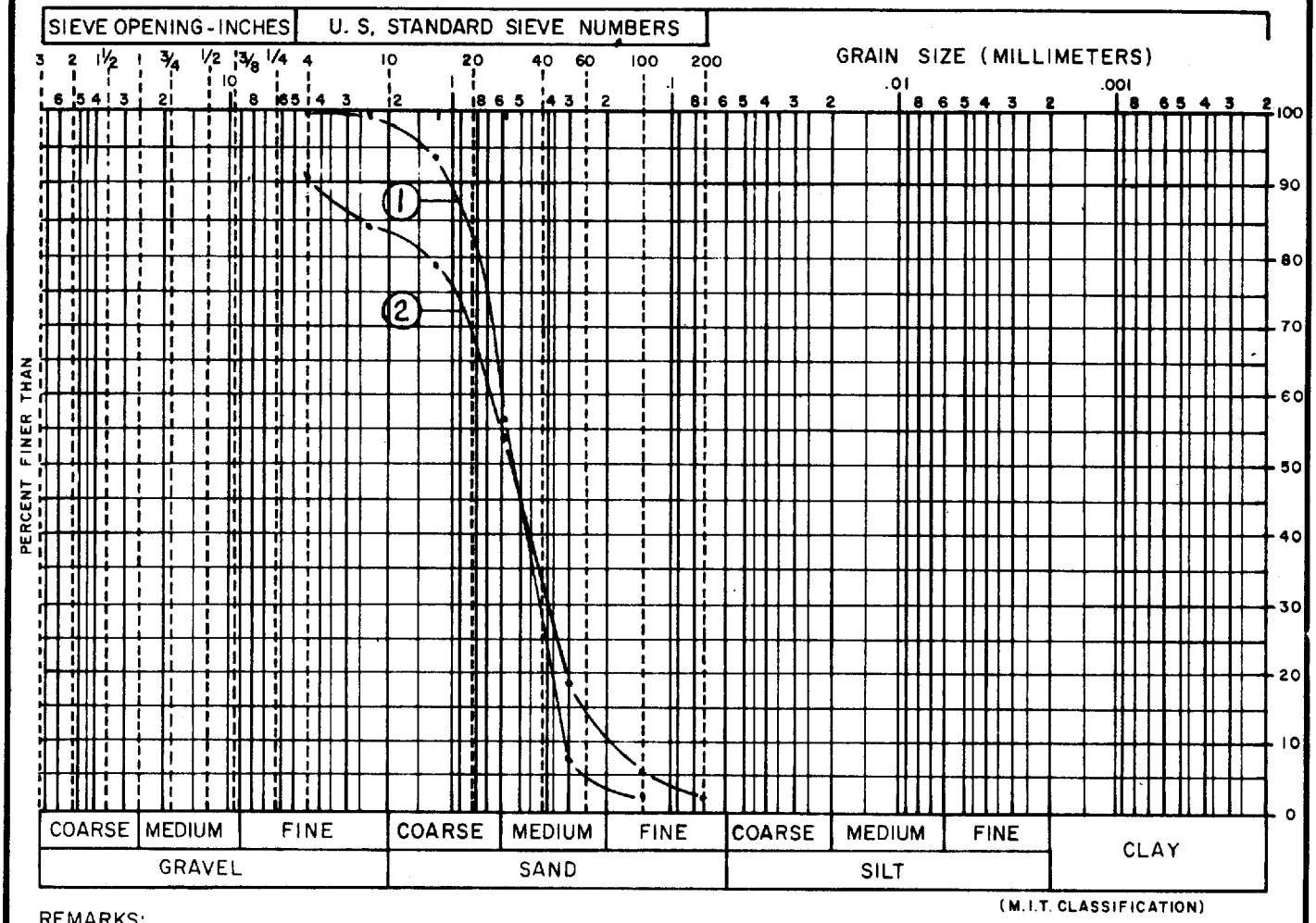
FIGURE NO: 11-16

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-1

Depth:

① 2' feet

② 4.5 feet

DATE: August 29, 1962

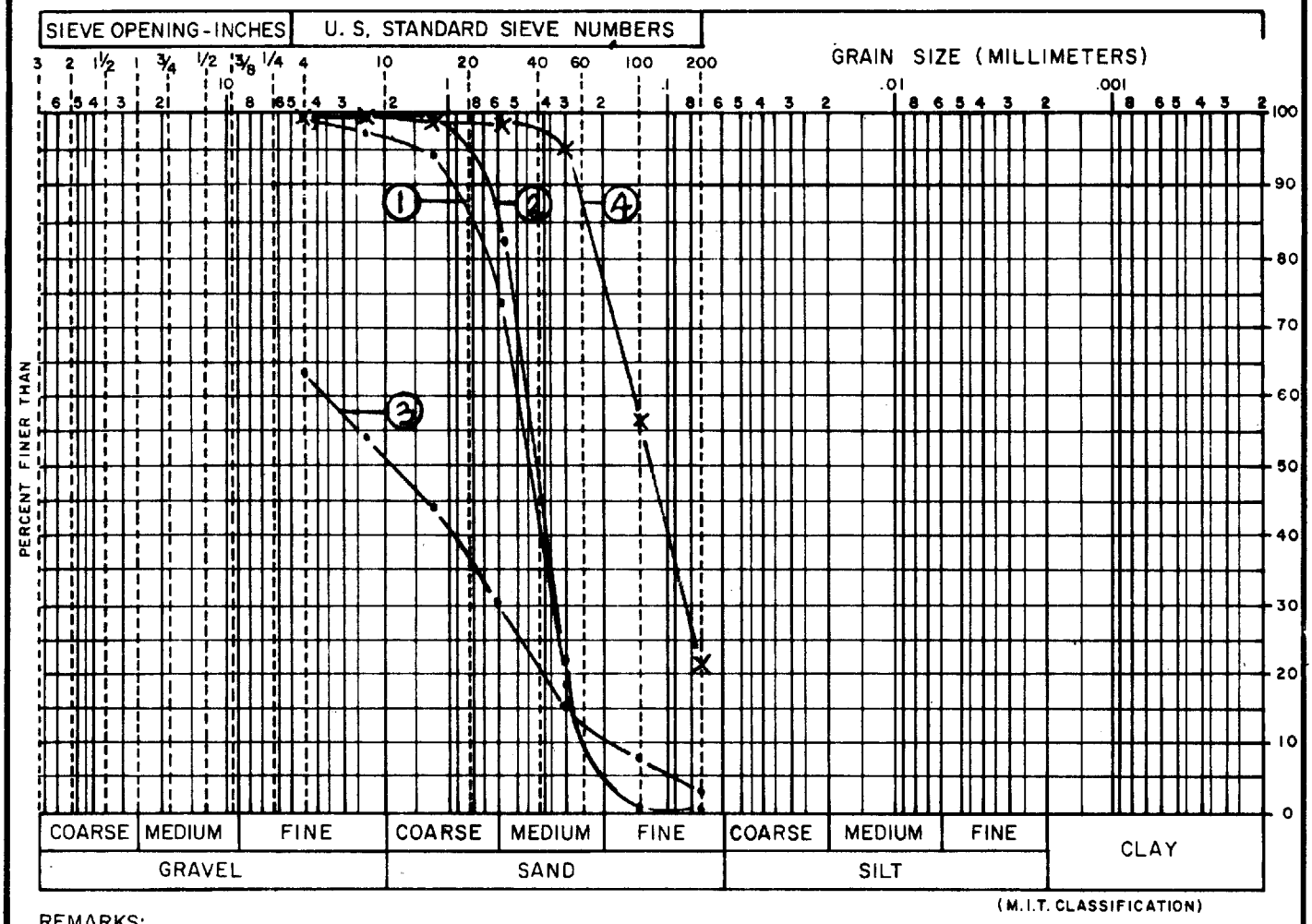
FIGURE NO: II-17

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-2

Depth:

① 4 feet
② 7.5 feet
③ 8 feet
④ 11 feet

DATE: August 29, 1962

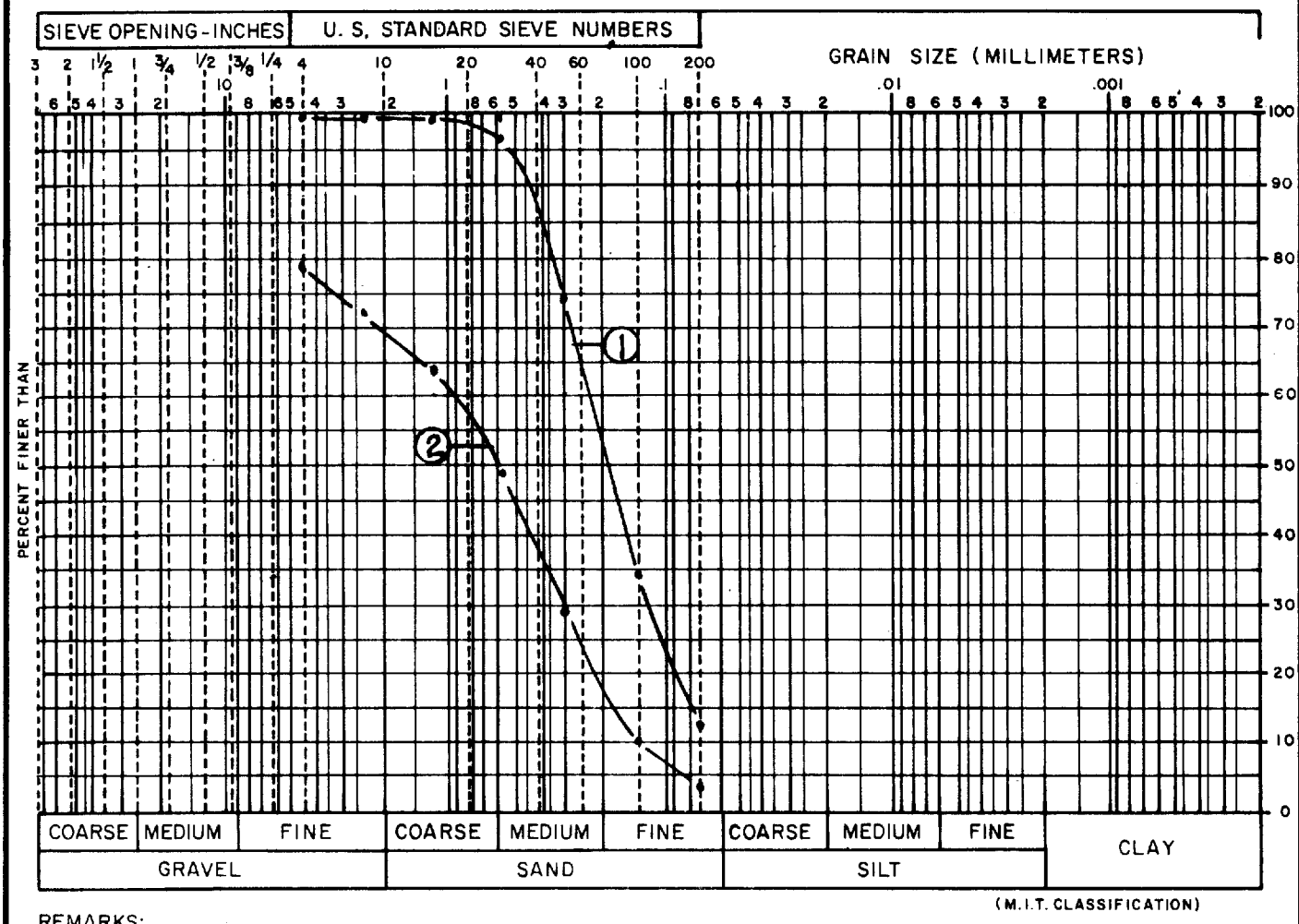
FIGURE NO: II-18

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-3

Depth:

① 2 feet
② 4.5 feet

DATE: August 29, 1962

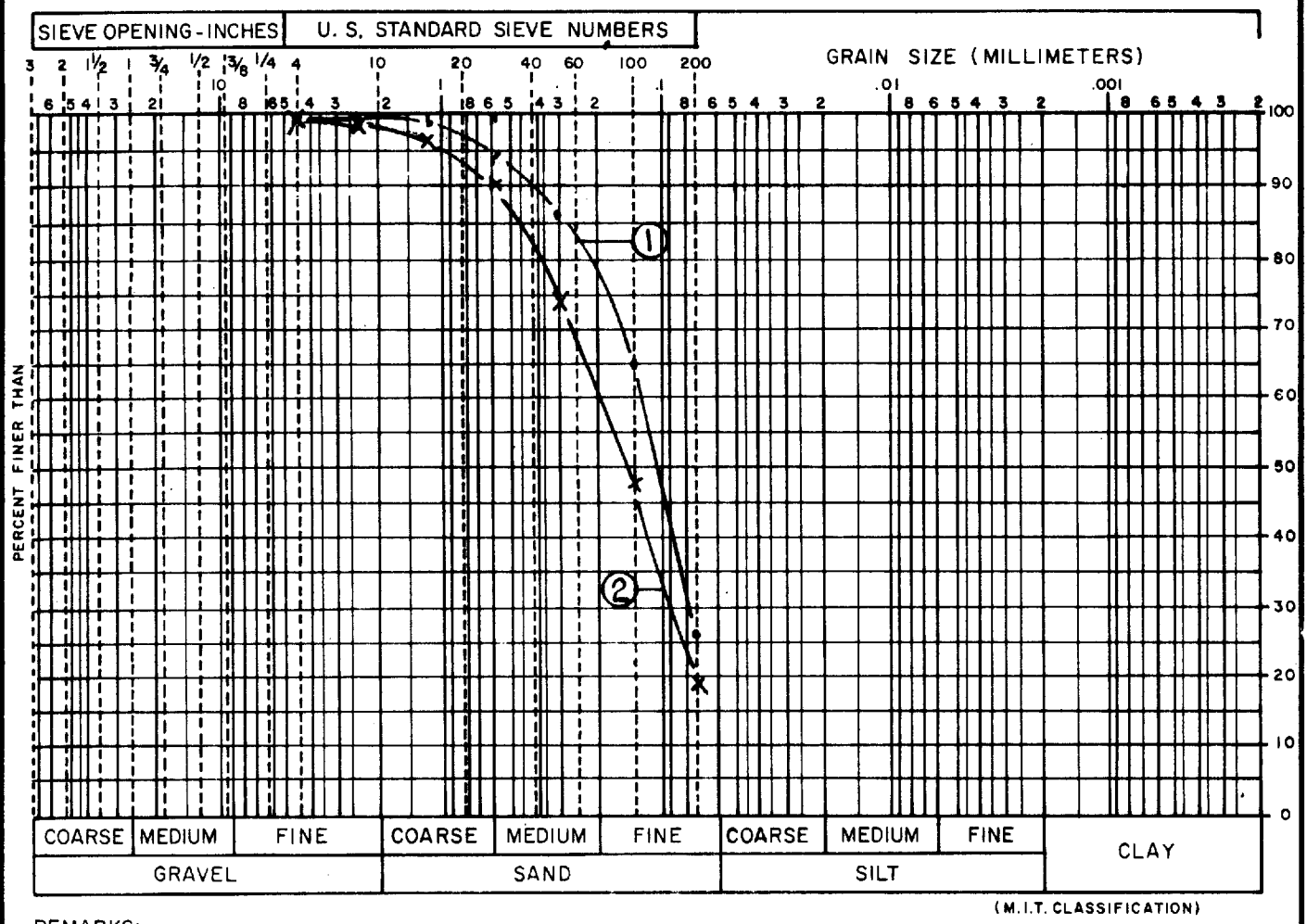
FIGURE NO. II-19

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project. - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-4

Depth:

① 5.5 feet
② 8.0 feet

DATE: August 29, 1962

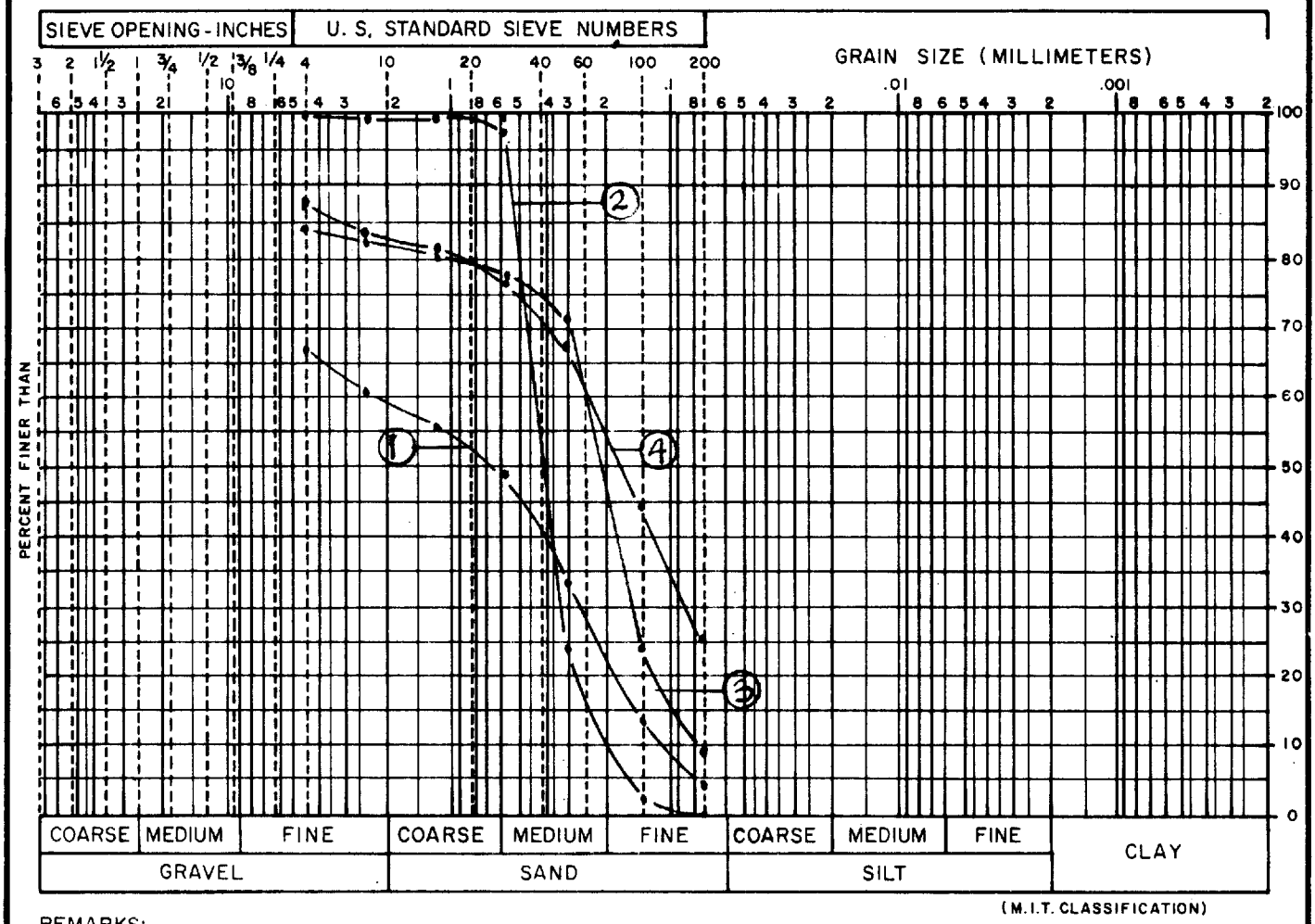
FIGURE NO. 11-20

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-5

Depth:

(1) 2.0 feet
(2) 5.0 feet
(3) 8.5 feet
(4) 21.0 feet

DATE: August 29, 1962

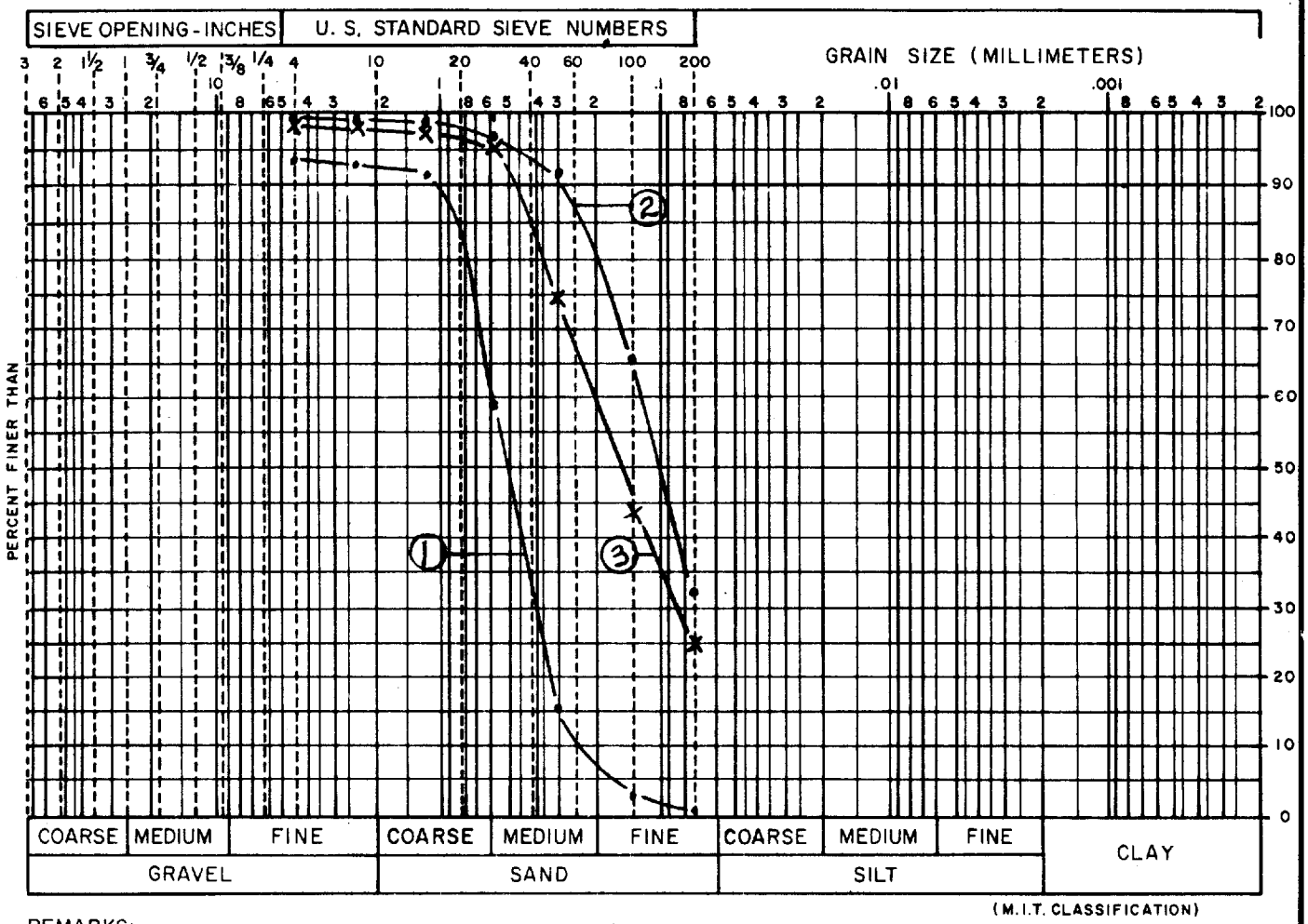
FIGURE NO: II-21

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-6

Depth:

① 6.0 feet
② 12.0 feet
③ 18.0 feet

DATE: August 29, 1962

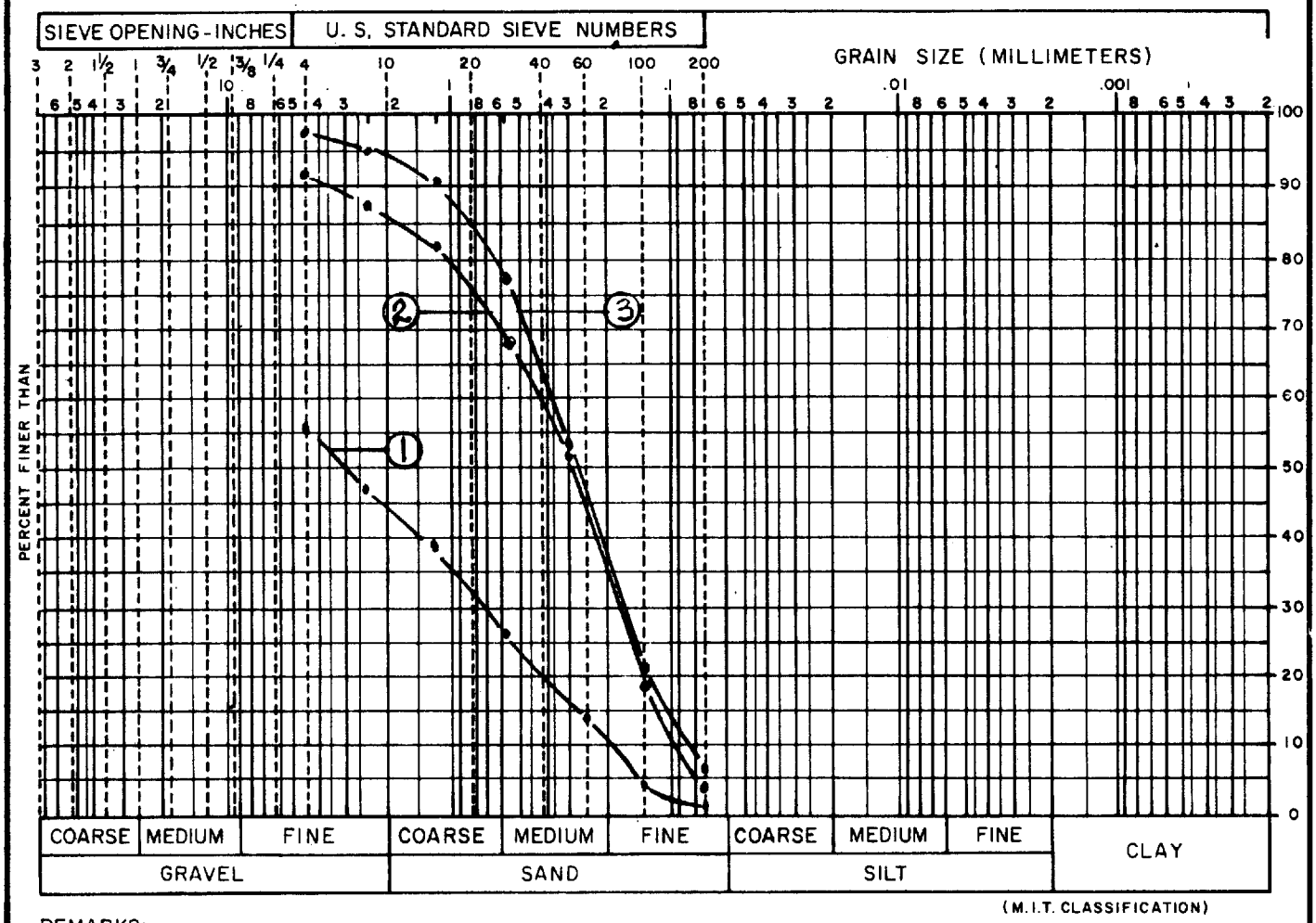
FIGURE NO. II-22

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-7

Depth:

(1) 2.0 feet
(2) 4.0 feet
(3) 7.0 feet

DATE: August 29, 1962

TT-FORM 4B4

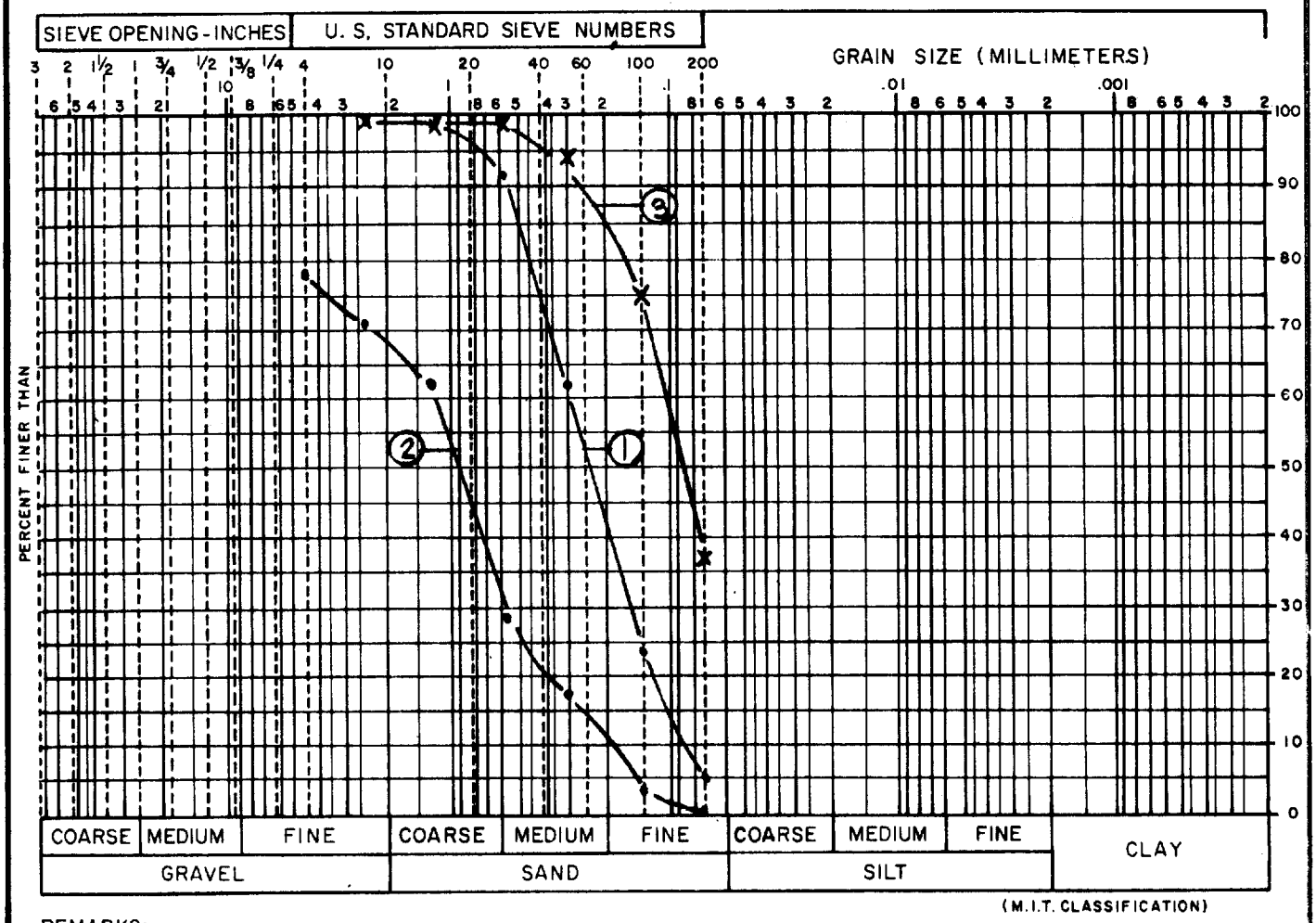
FIGURE NO. 11-23

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-8

Depth:

① 2.0 feet
② 4.5 feet
③ 12.0 feet

DATE August 29, 1962

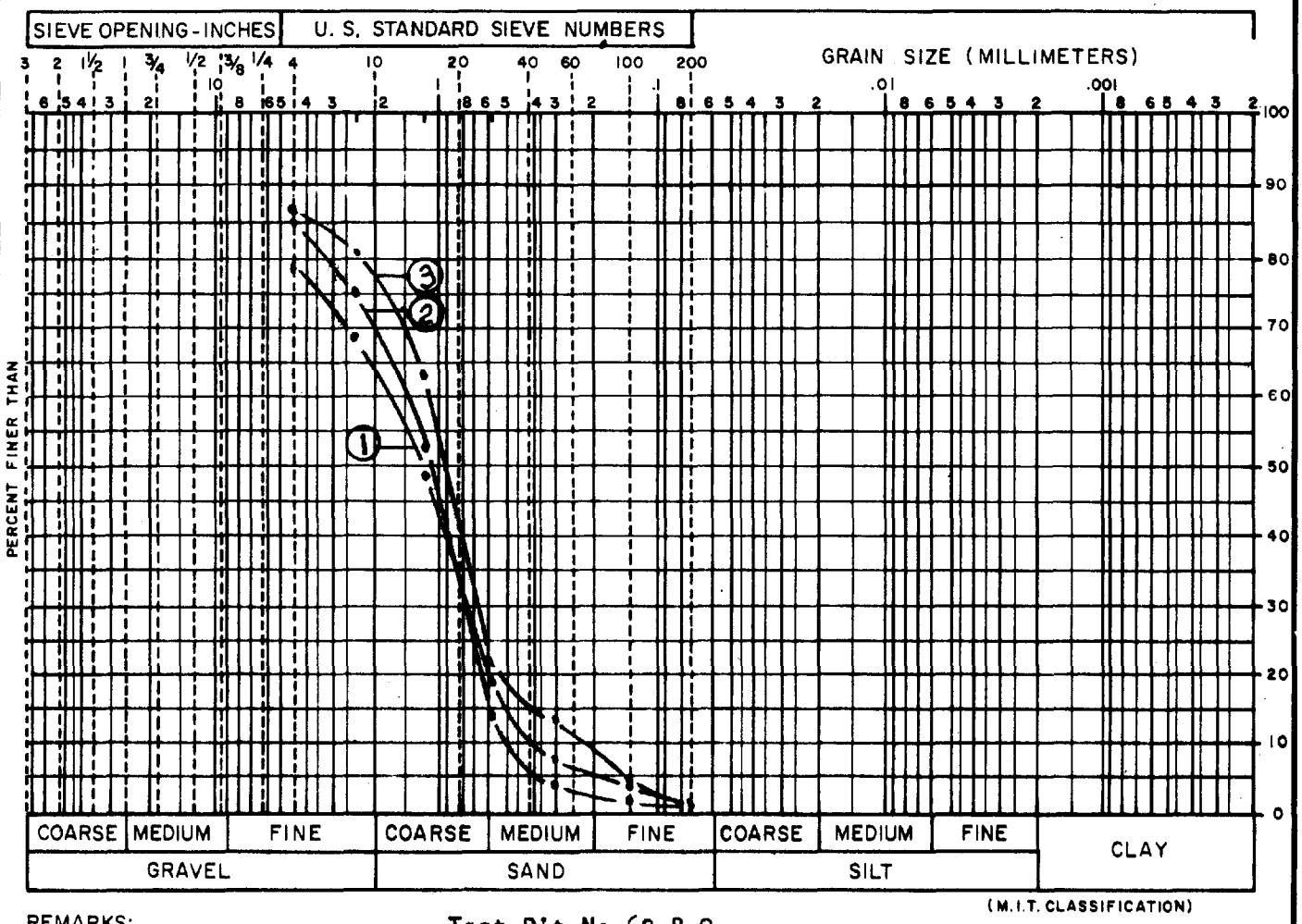
FIGURE NO: TT-24

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-9

Depth:

① 2.0 feet
② 3.0 feet
③ 6.0 feet

DATE: August 29, 1962

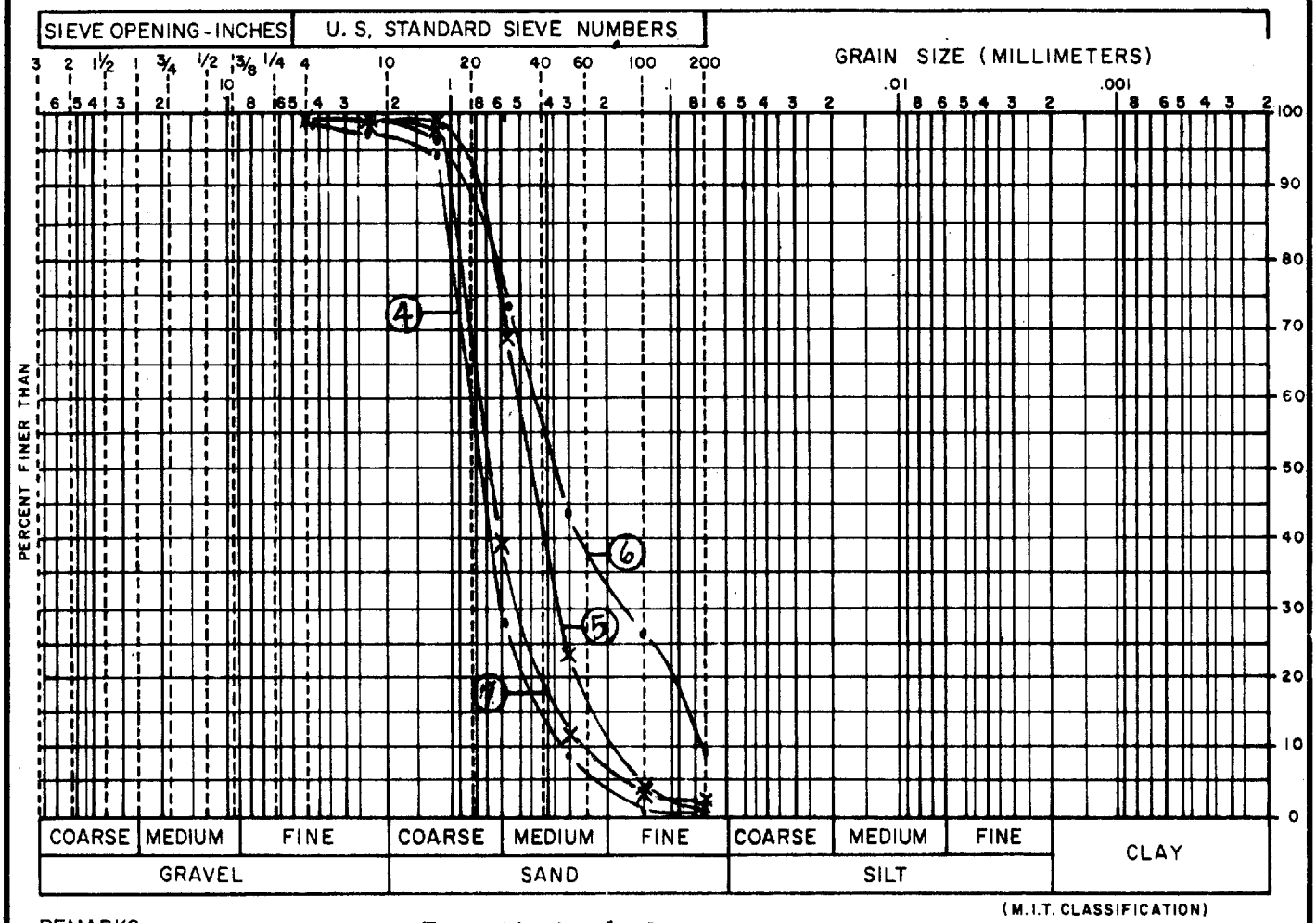
FIGURE NO. II-25

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-9

Depth:

4 9.0 feet
5 12.0 feet
6 15.0 feet
7 18.0 feet

DATE: August 29, 1962

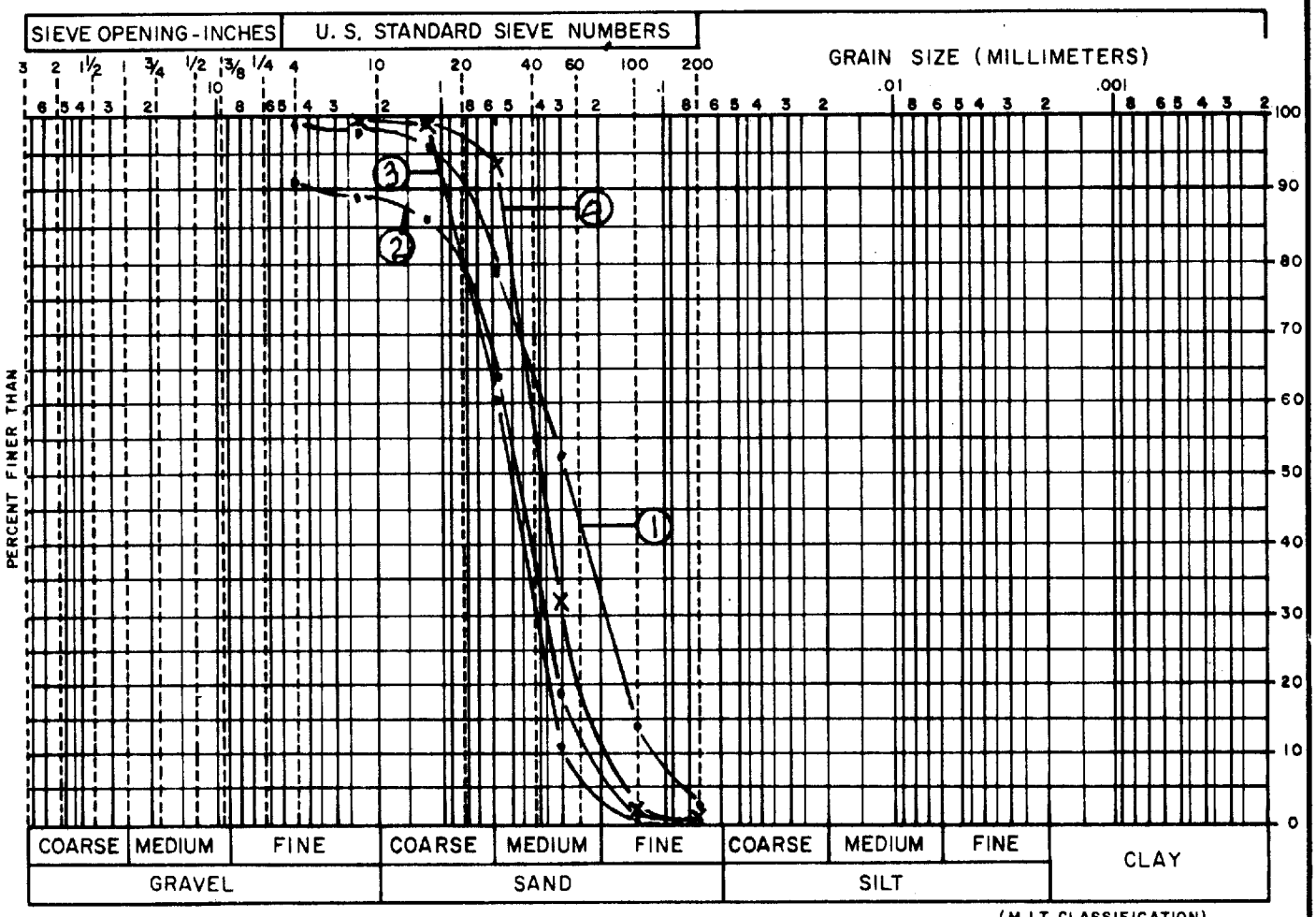
FIGURE NO. TT-26

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-10

Depth:

① 2.0 feet
② 3.5 feet
③ 5.0 feet
④ 10.0 feet

DATE: August 29, 1962

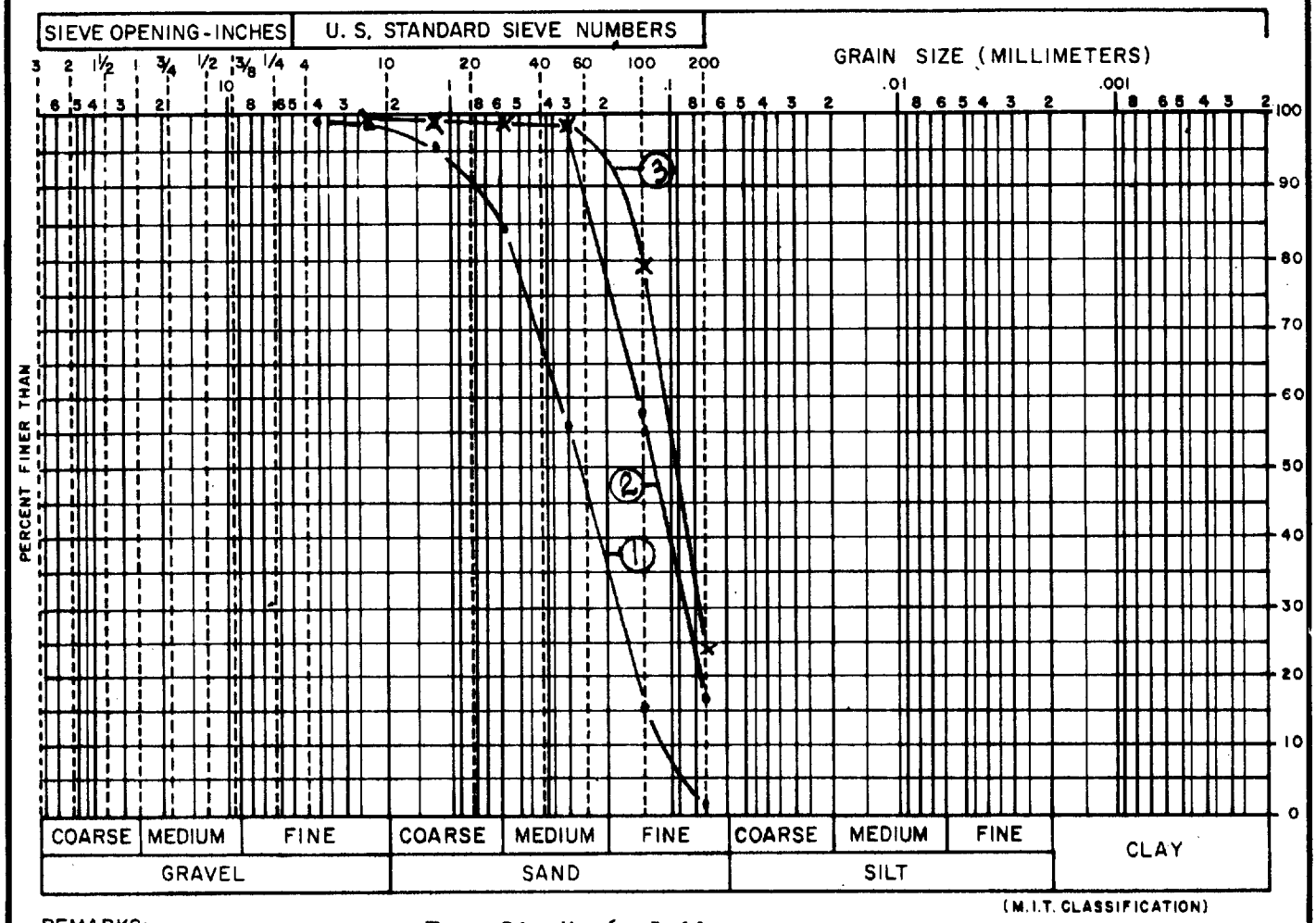
FIGURE NO: II-27

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-11

Depth:

(1) 3.5 feet
(2) 5.0 feet
(3) 13.0 feet

DATE: August 29, 1962

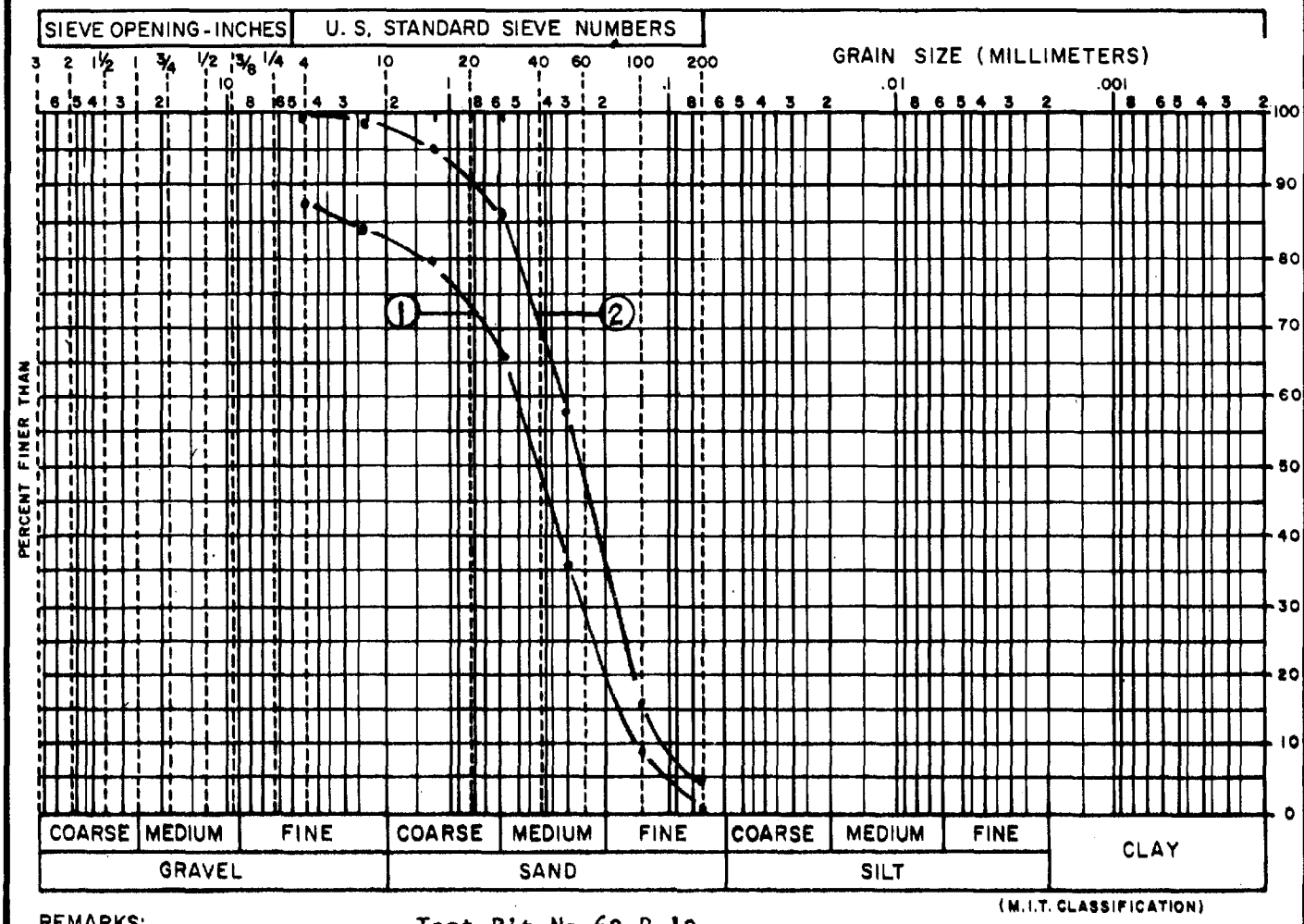
FIGURE NO: 11-28

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-12

Depth:

① 1.5 feet
② 4.0 feet

DATE: August 29, 1962

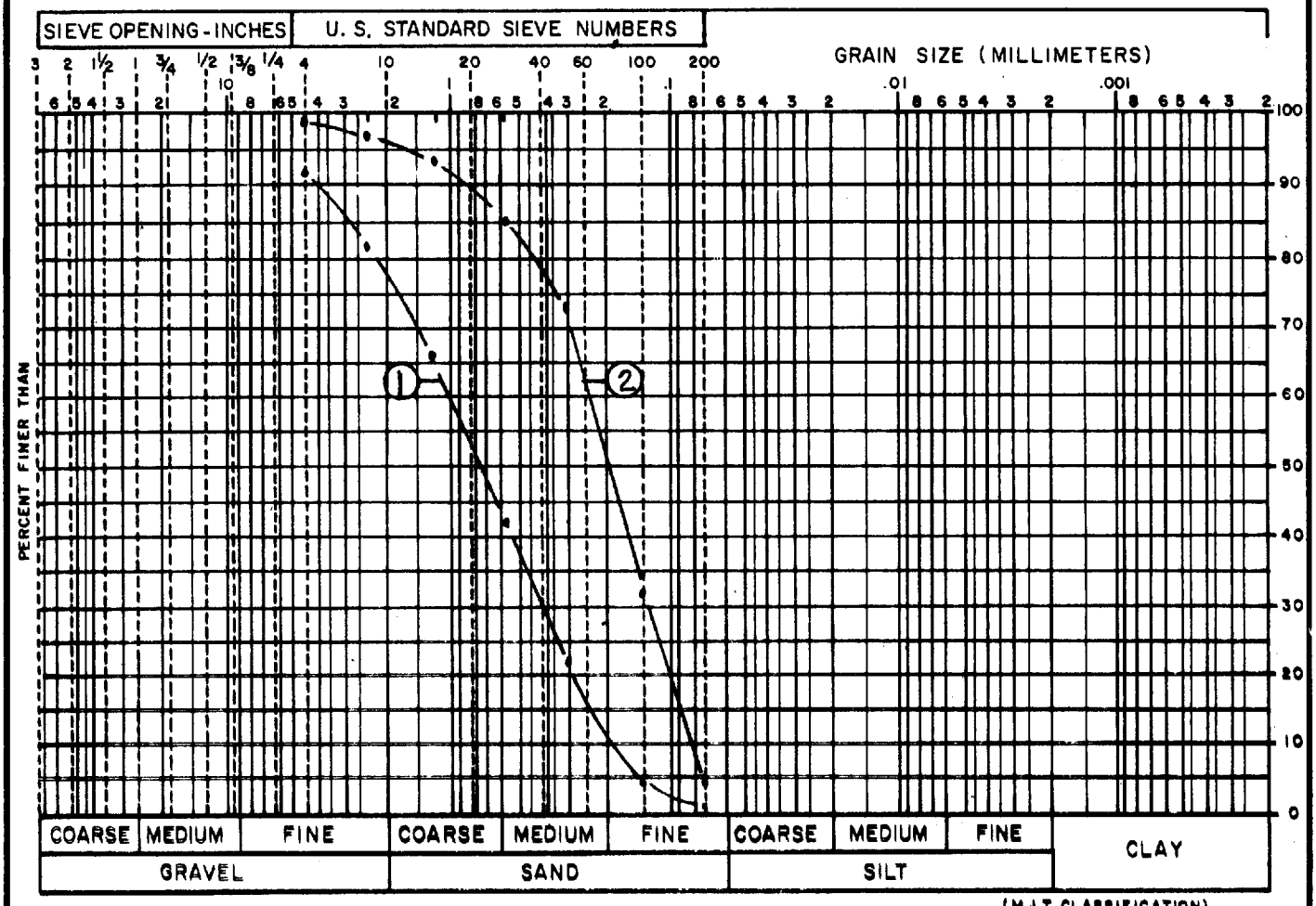
FIGURE NO: II-29

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-13

Depth:

(1) 2.0 feet
(2) 4.0 feet

DATE August 29, 1962

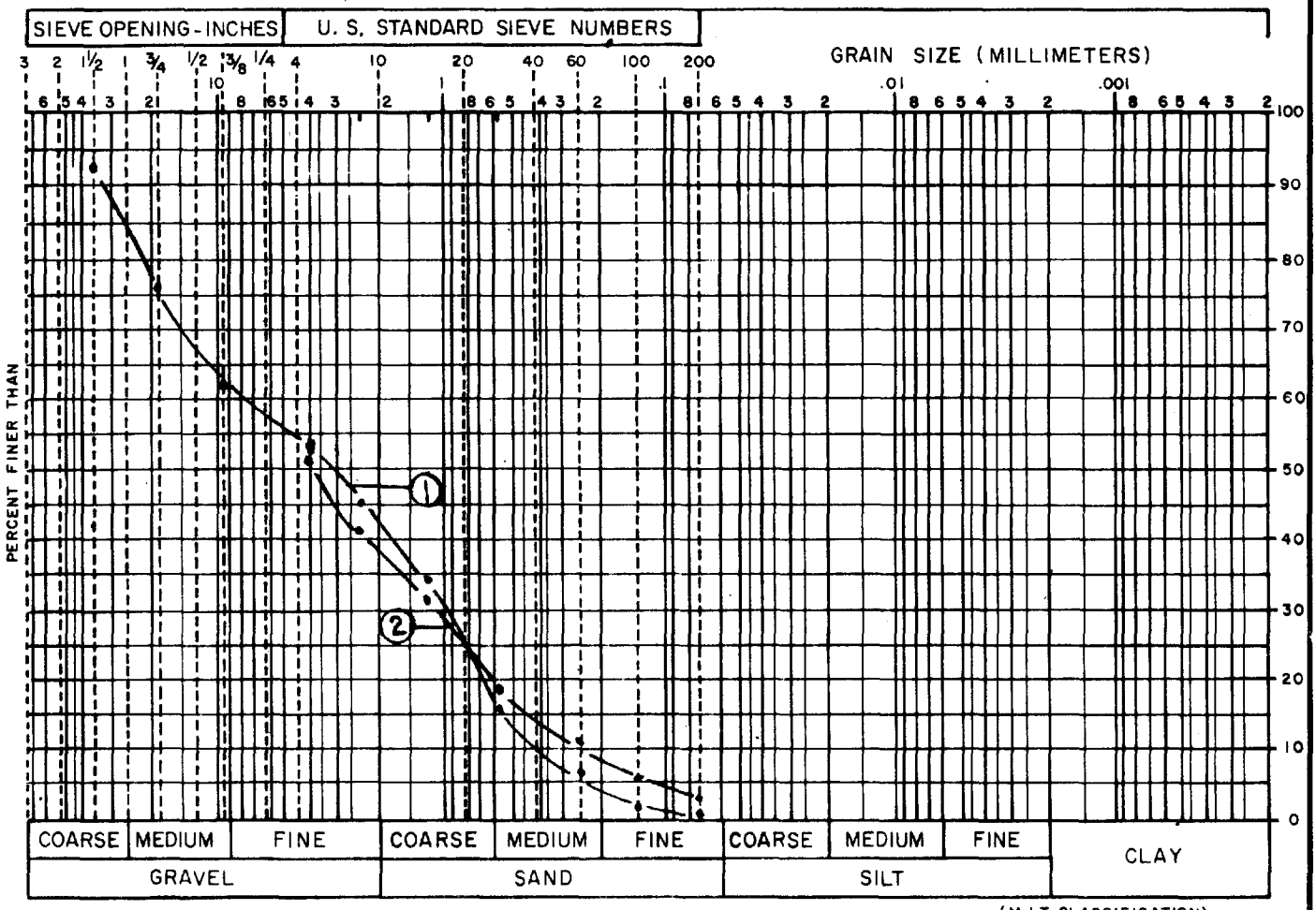
FIGURE NO: II-30

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-14

Depth:

① 2.5 feet
② 5.0 feet

DATE: August 29, 1962

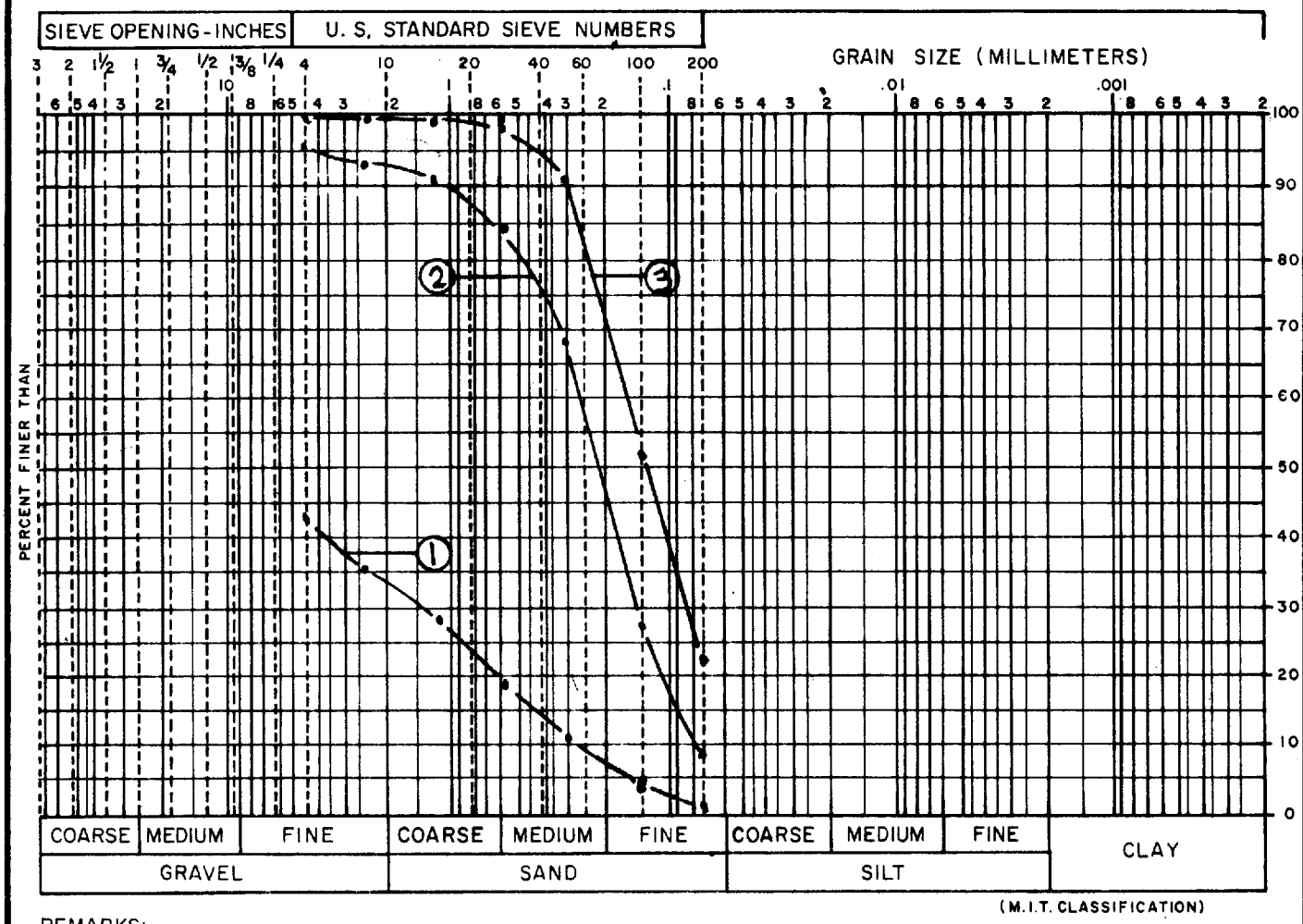
FIGURE NO: II-31

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-15

Depth:

(1) 4.0 feet
(2) 6.0 feet
(3) 8.5 feet

DATE: August 29, 1962

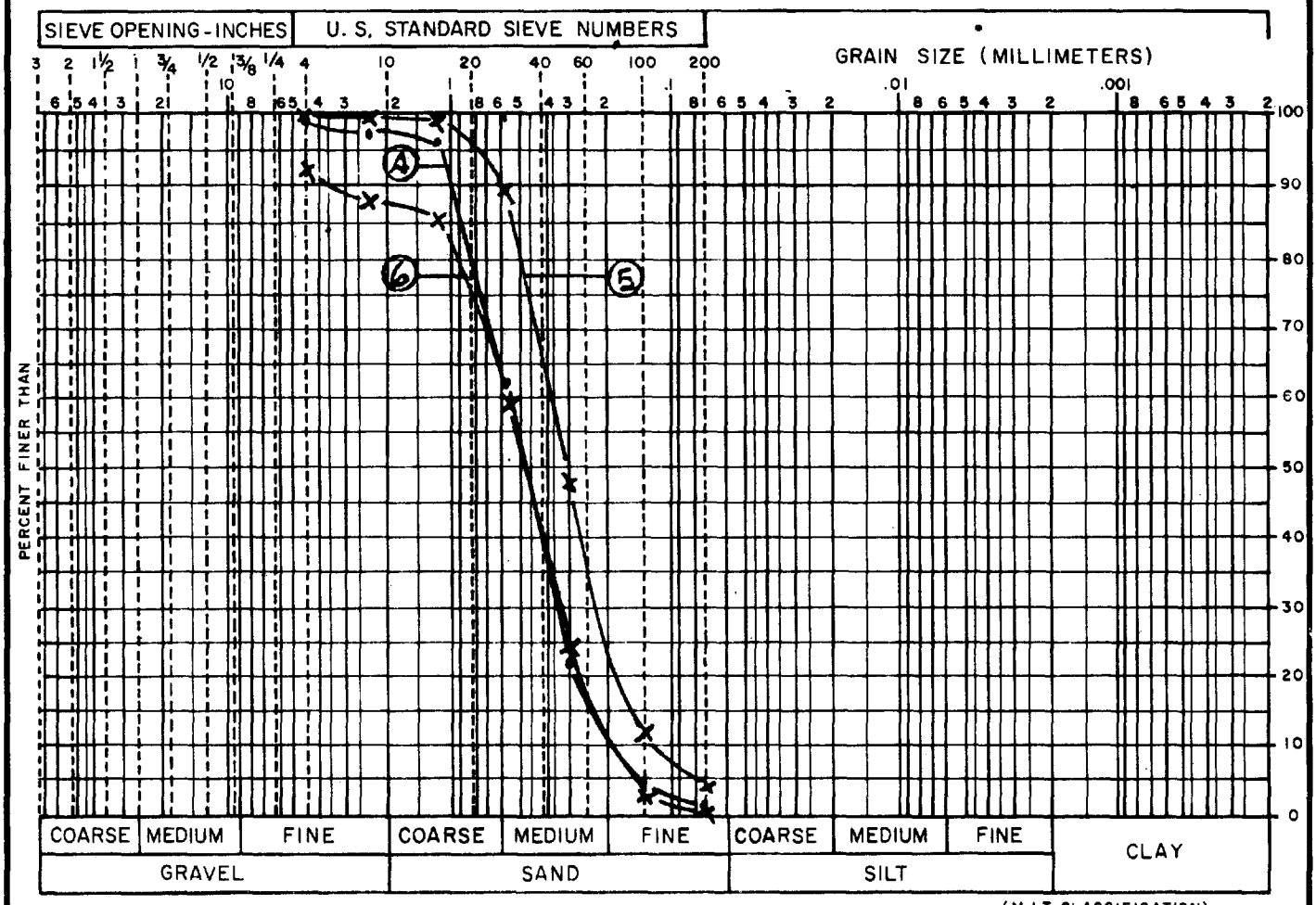
FIGURE NO: 11-32

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



(M.I.T. CLASSIFICATION)

REMARKS: Test Pit No 62-R-15

Depth:

(4) 9.5 feet
(5) 19.0 feet
(6) 19.0 feet

DATE: August 29, 1962

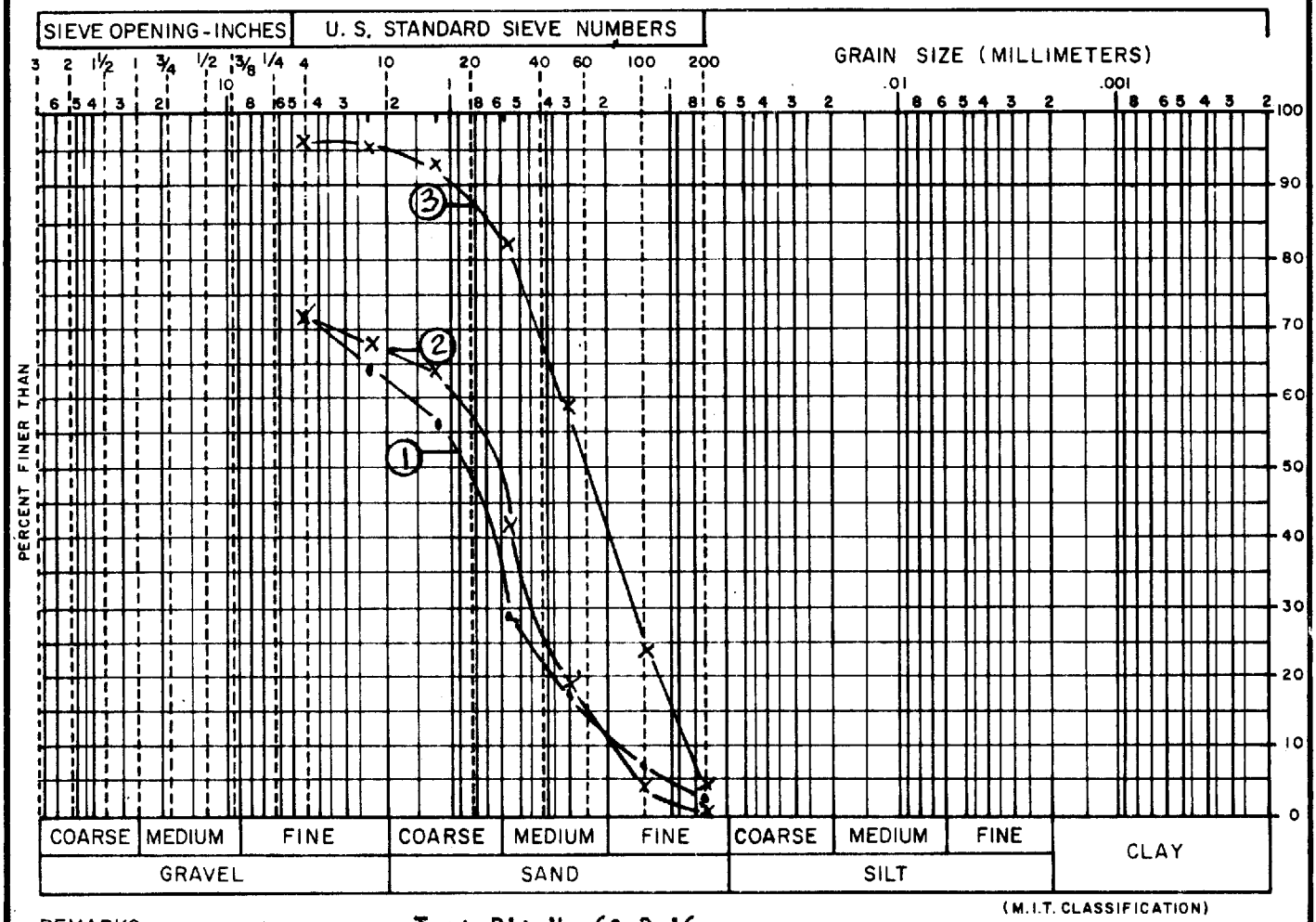
FIGURE NO. II-33

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-16

Depth:

(1) 3.0 feet
(2) 5.0 feet
(3) 6.5 feet

DATE: August 29, 1962

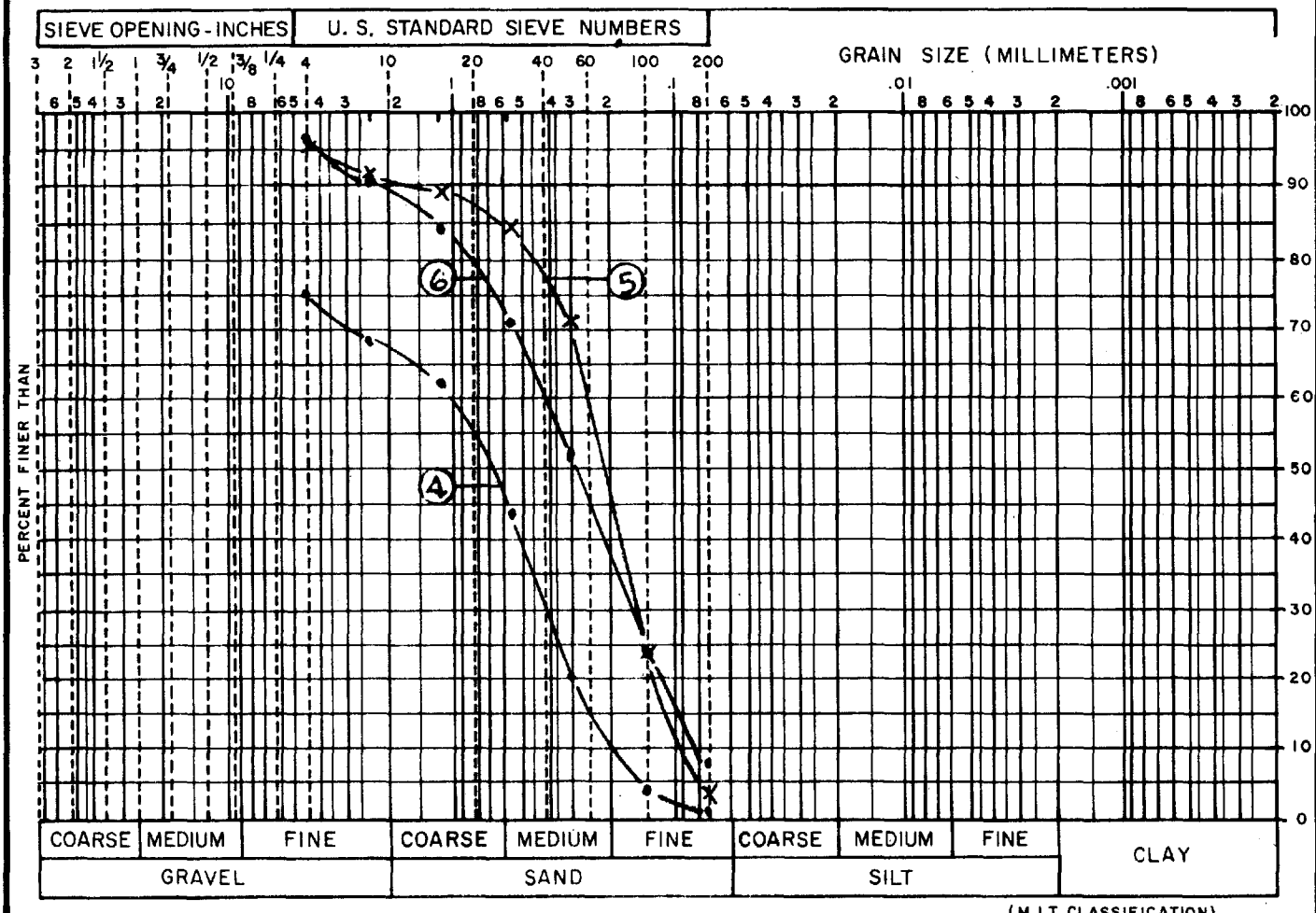
FIGURE NO. 11-34

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-16

Depth:

④ 7.5 feet
⑤ 11.0 feet
⑥ 18.0 feet

DATE: August 29, 1962

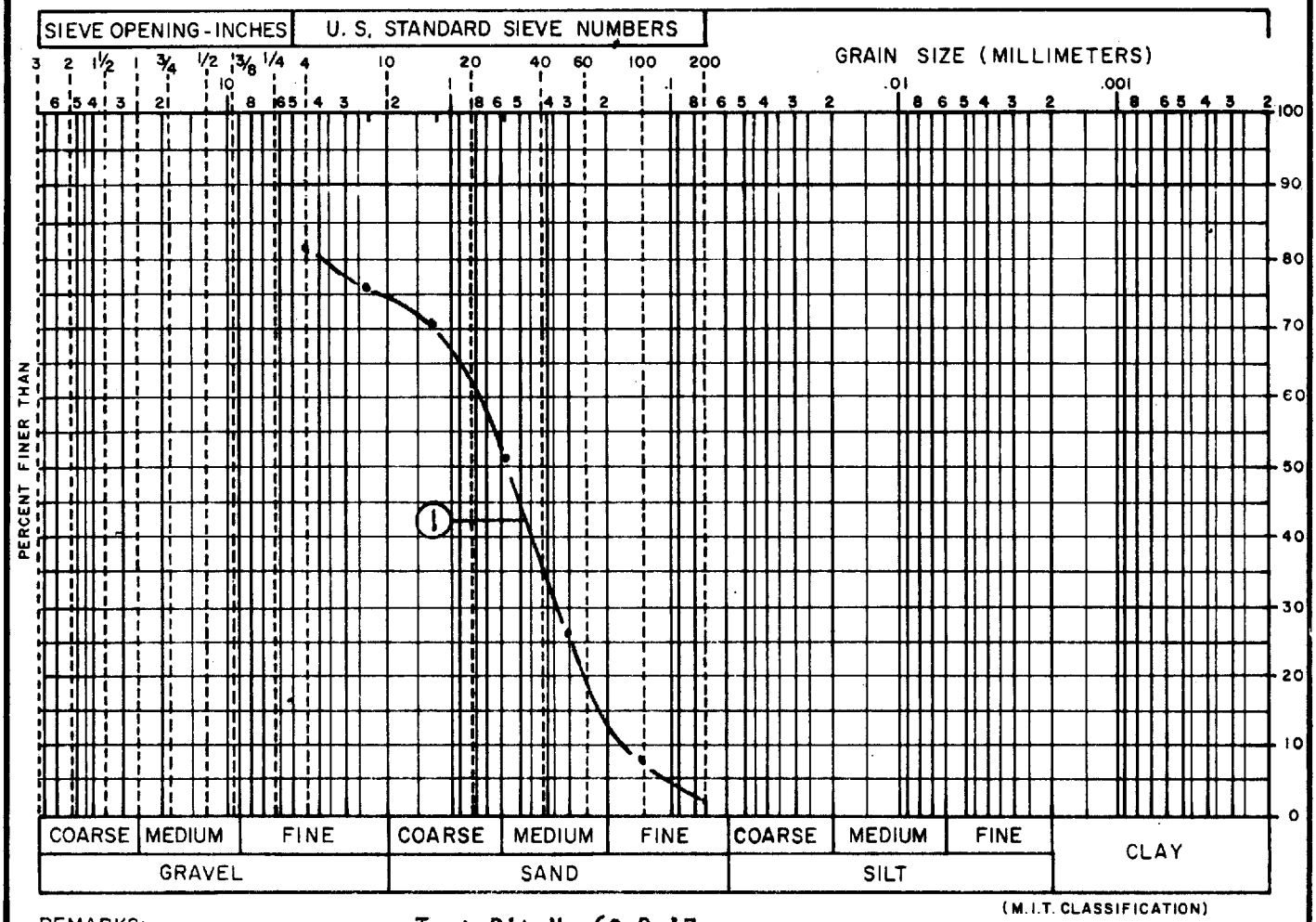
FIGURE NO. II-35

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-17

Depth:

① 2.0 feet

DATE: August 29, 1962

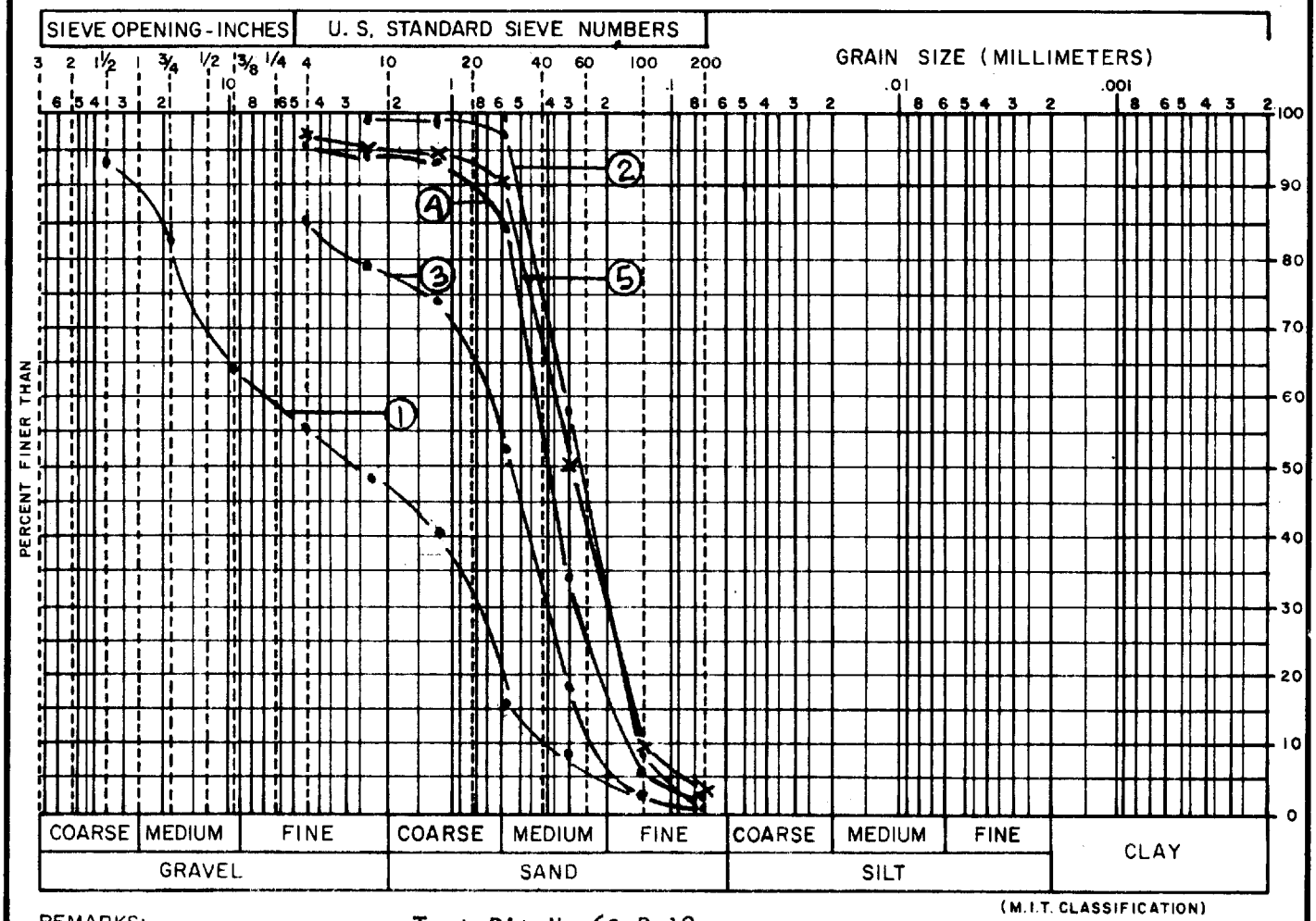
FIGURE NO. TT-36

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-18

Depth:

1. 2.5 feet
2. 4.0 feet
3. 7.0 feet
4. 11.0 feet
5. 18.0 feet

DATE: August 29, 1962

TT-FORM No 4

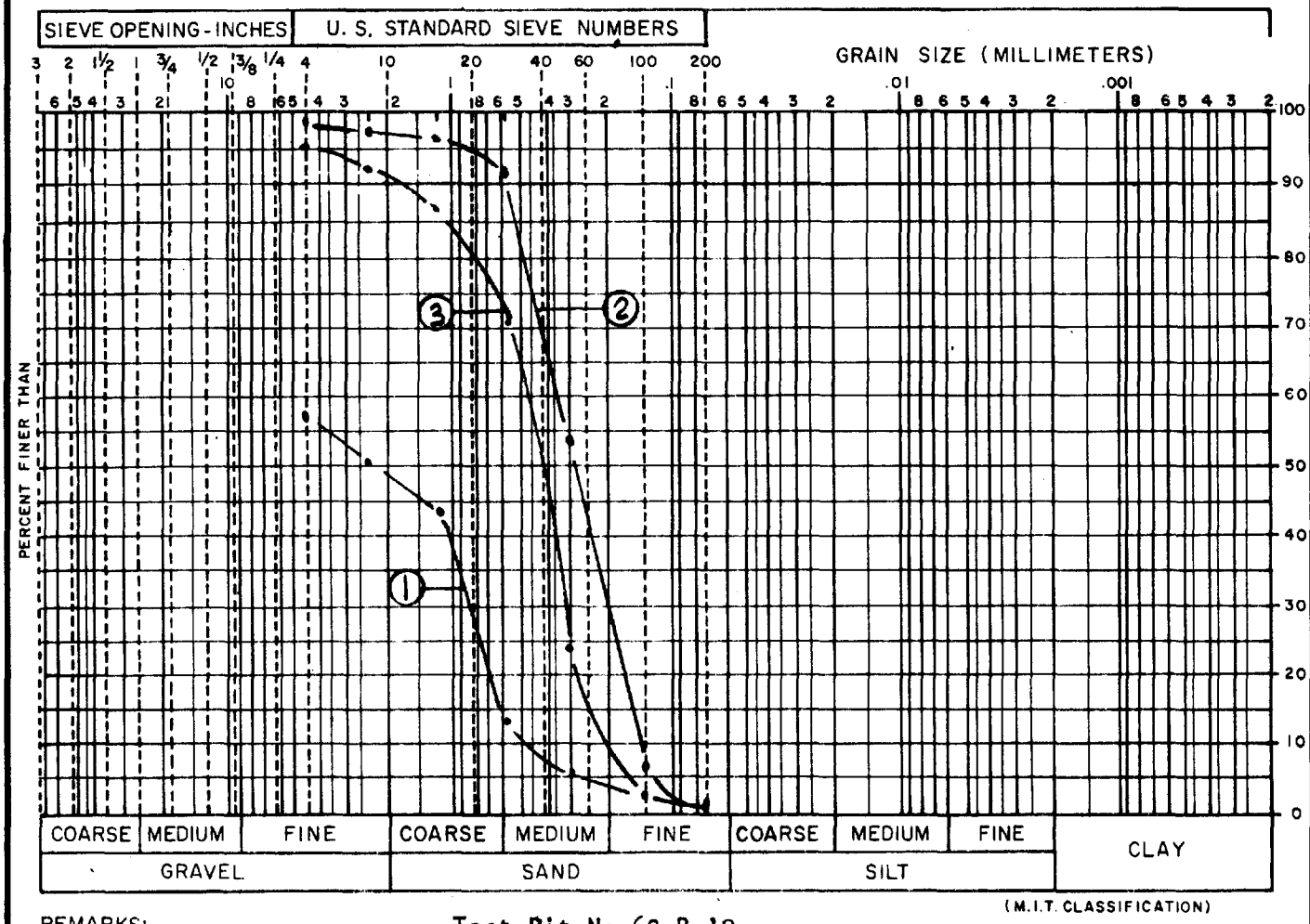
FIGURE NO: II-37

TERRATECH LTD.

1440 ST CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-19

Depth:

(1) 2.0 feet
(2) 4.0 feet
(3) 5.0 feet

DATE: August 29, 1962

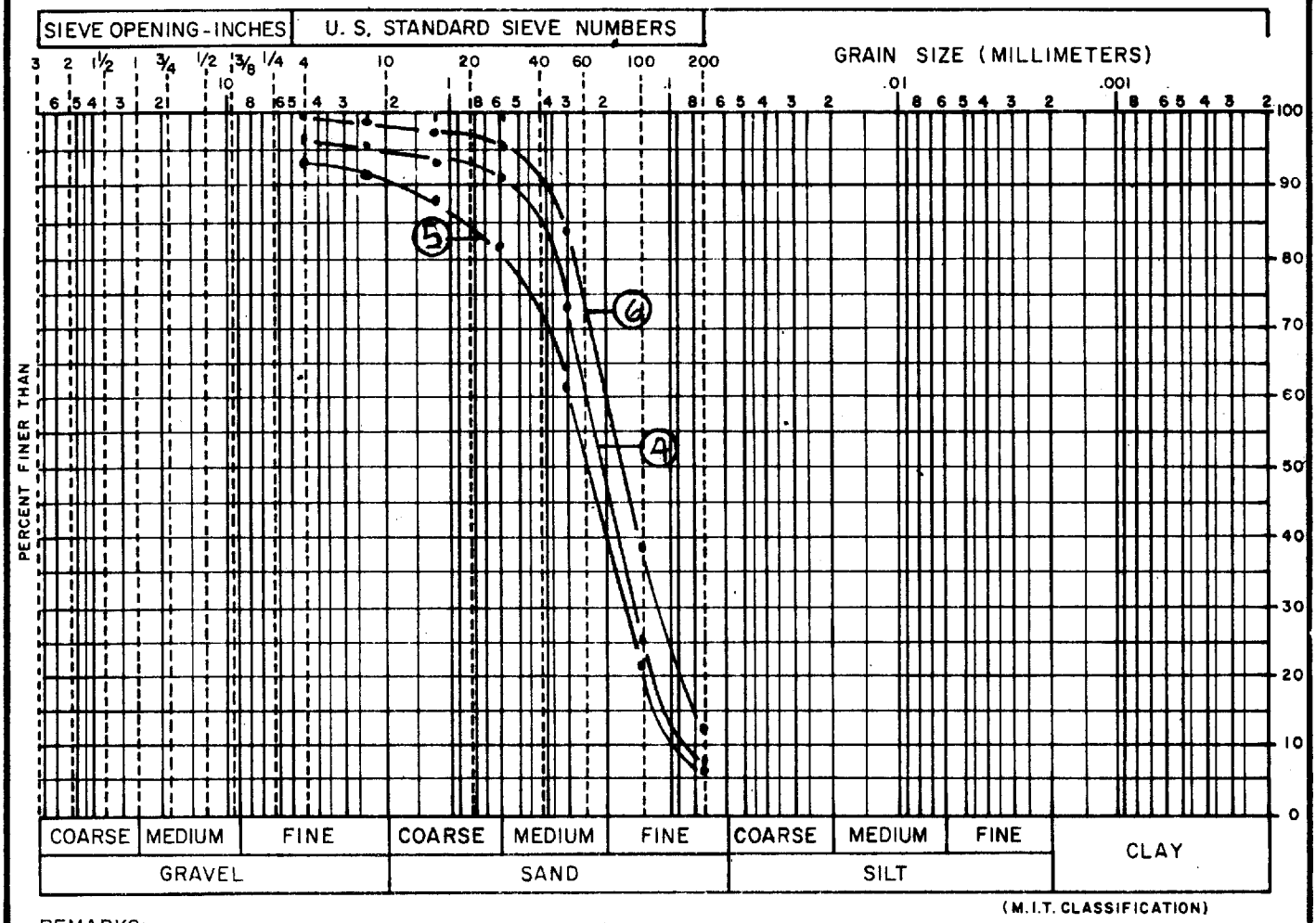
FIGURE NO: 11-38

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-19

Depth:

(A) 12.0 feet (33/66)
(5) 12.0 feet (50/50)
(6) 13.0 feet

DATE: August 29, 1962

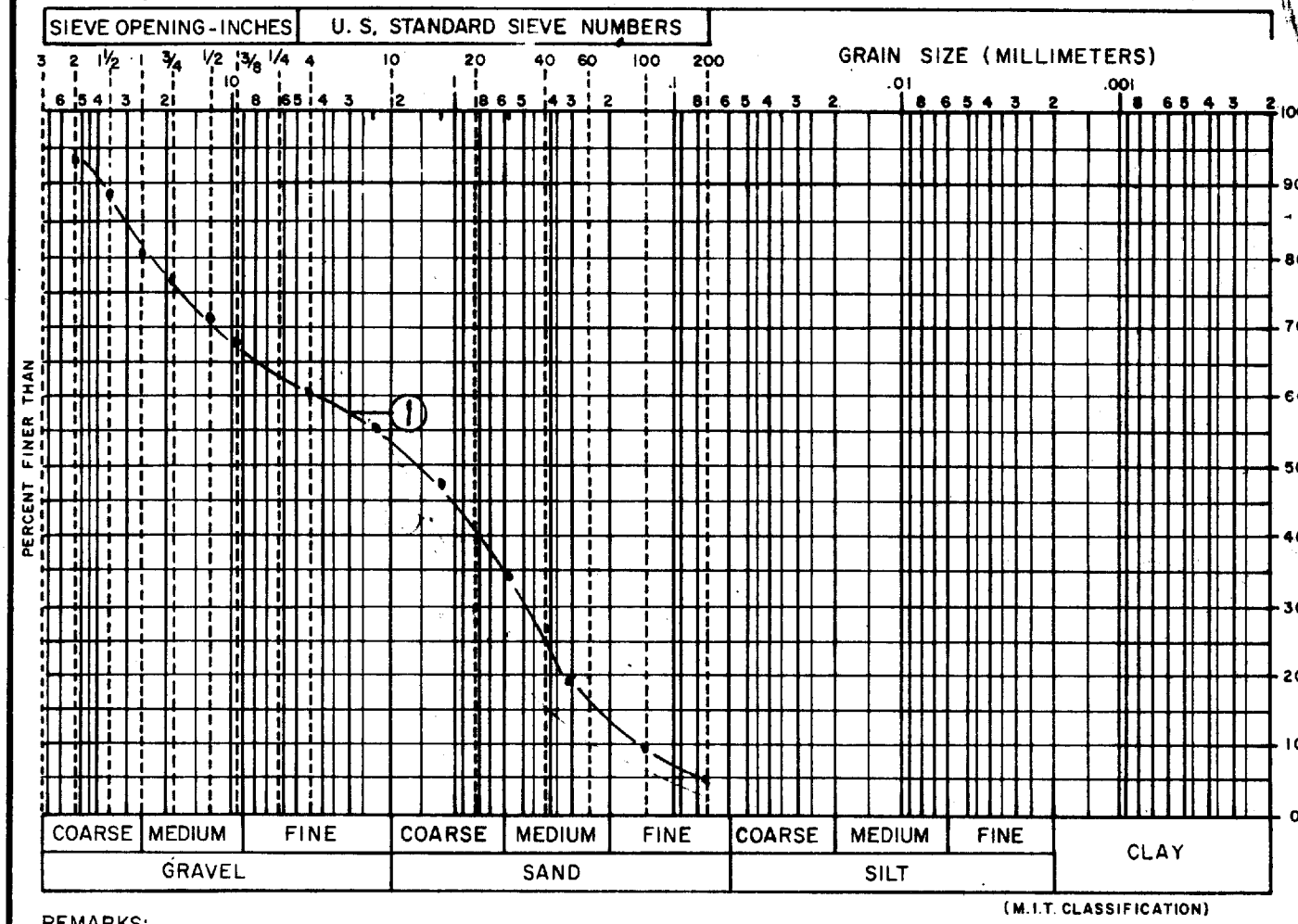
FIGURE NO: II-39

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-20

Depth:

① 2.0 feet

DATE: August 30, 1962

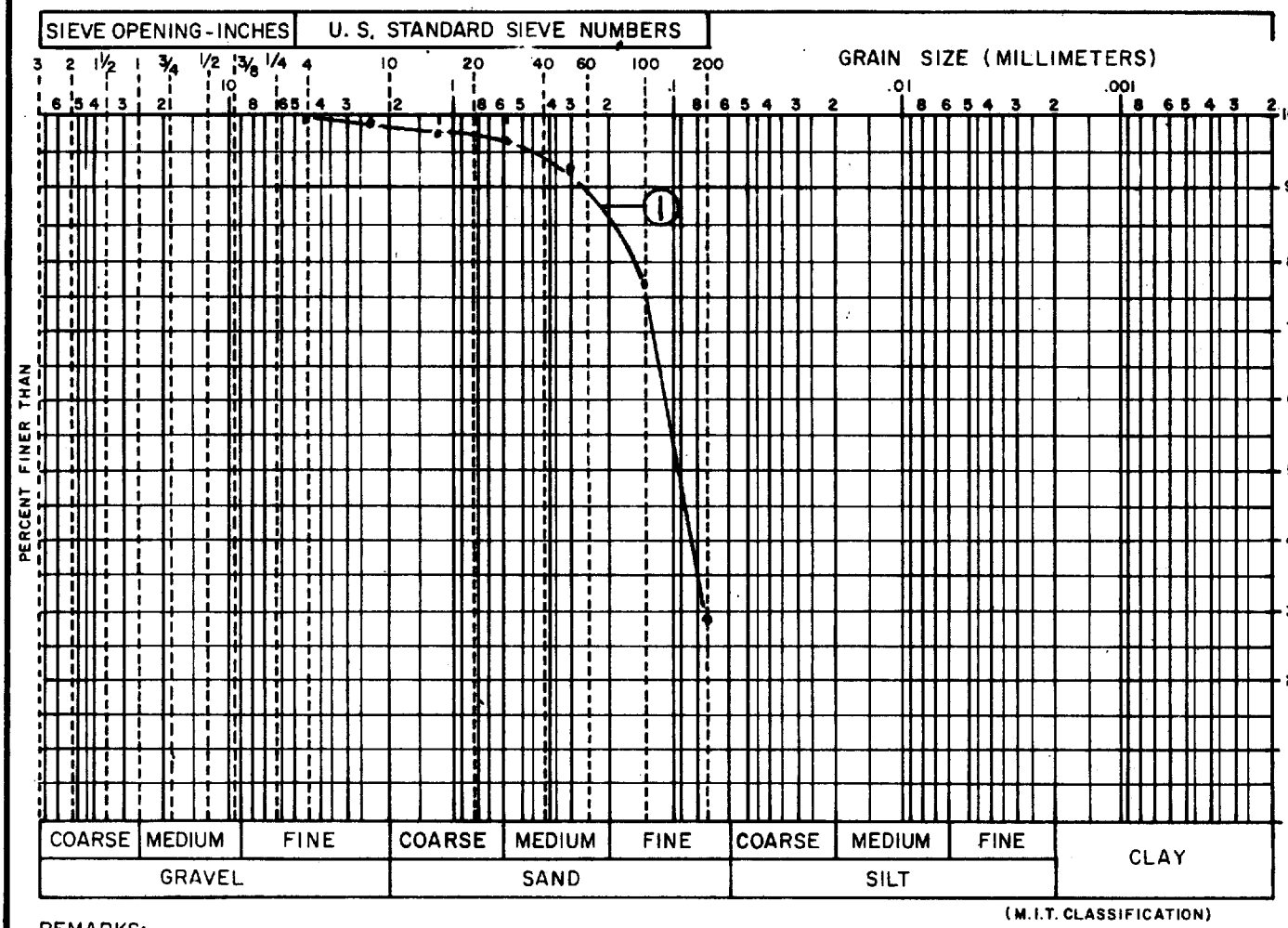
FIGURE NO. II-40

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-21

Depth:

(1) 3.5 feet

DATE: August 30, 1962

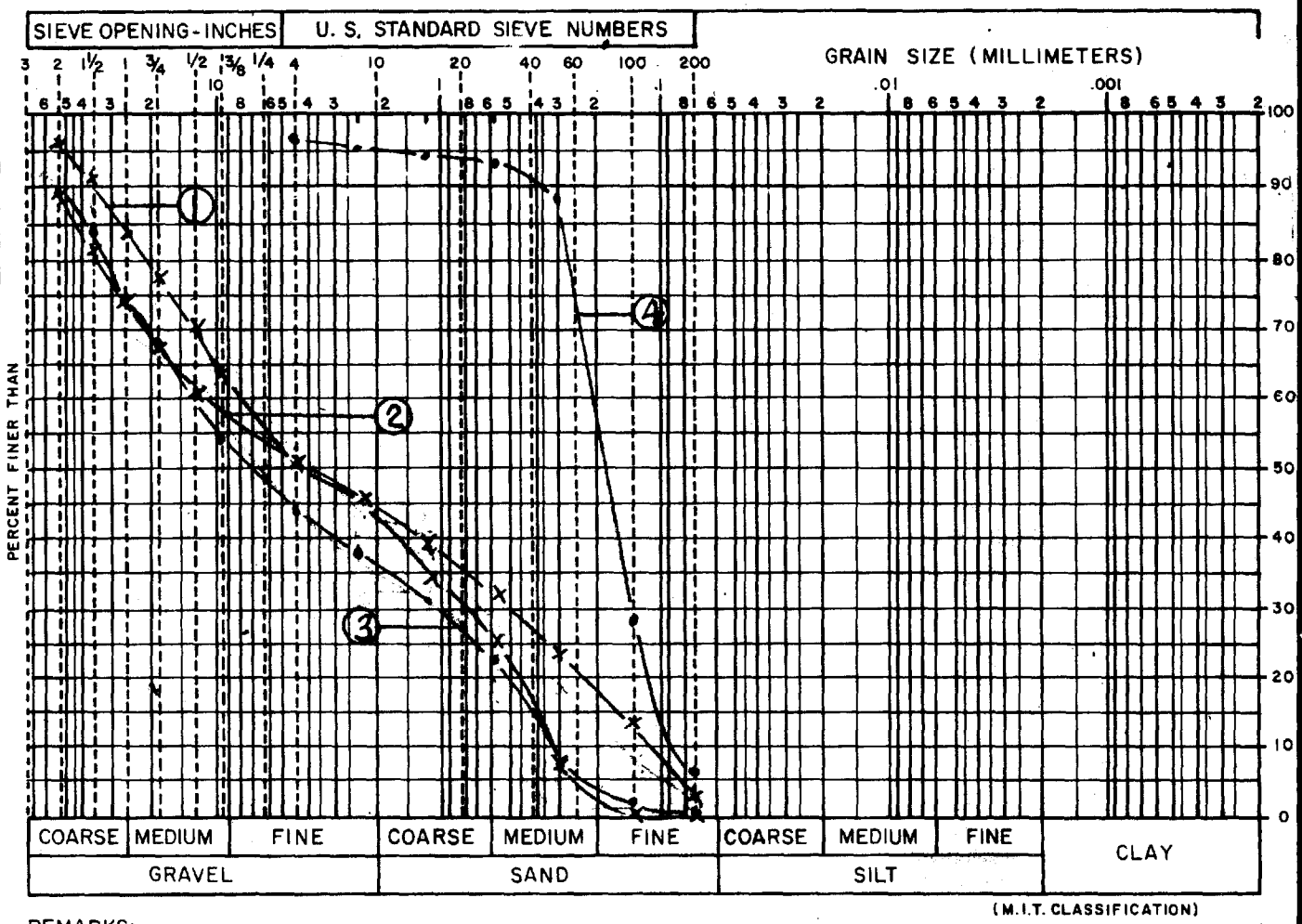
FIGURE NO: II-41

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-22

Depth:

① 2.0 feet
② 4.0 feet
③ 6.0 feet
④ 8.0 feet

DATE: August 30, 1962

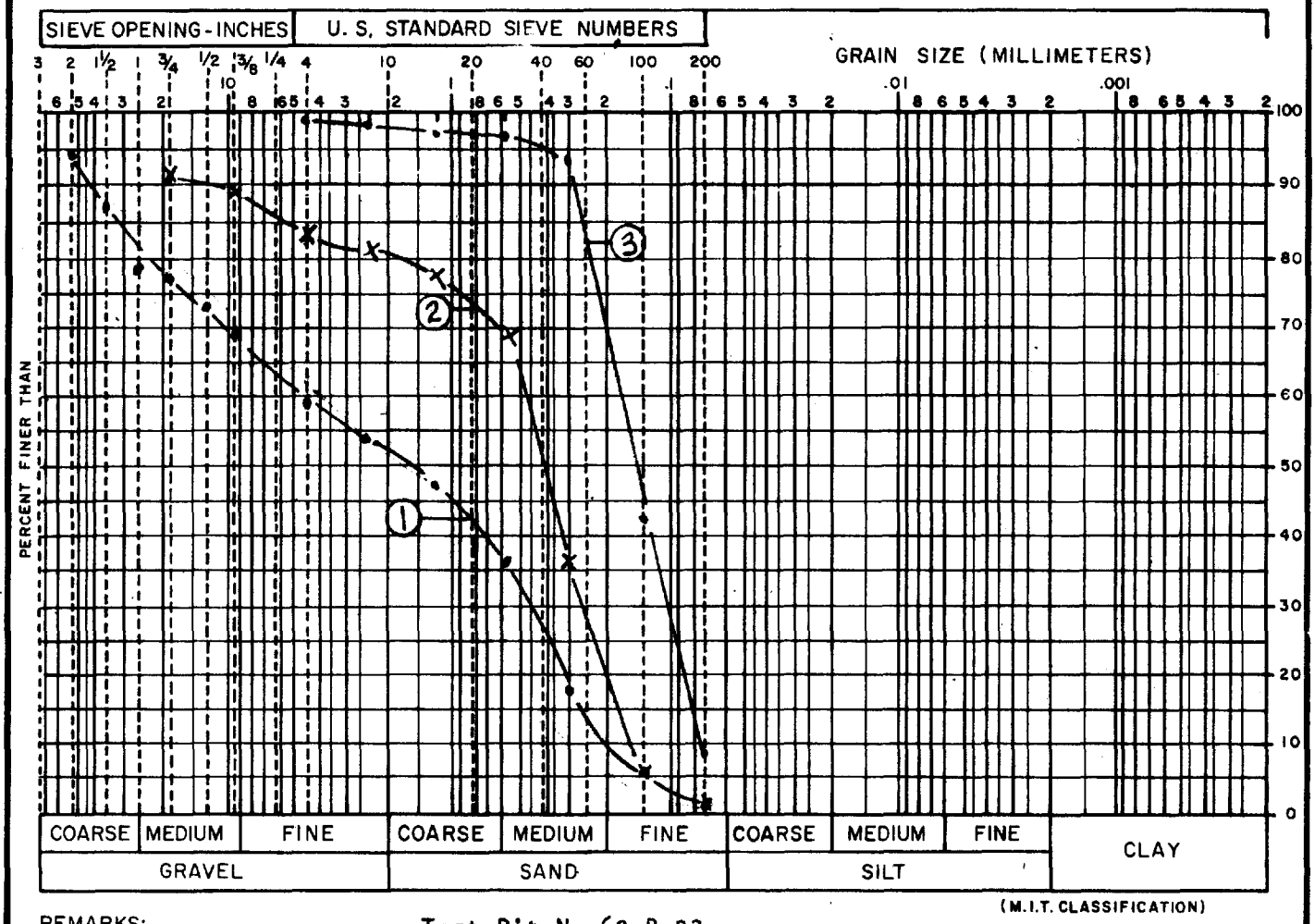
FIGURE NO: 11-42

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-23

Depth:

① 4.0 feet
② 12.0 feet
③ 14.0 feet

DATE: August 30, 1962

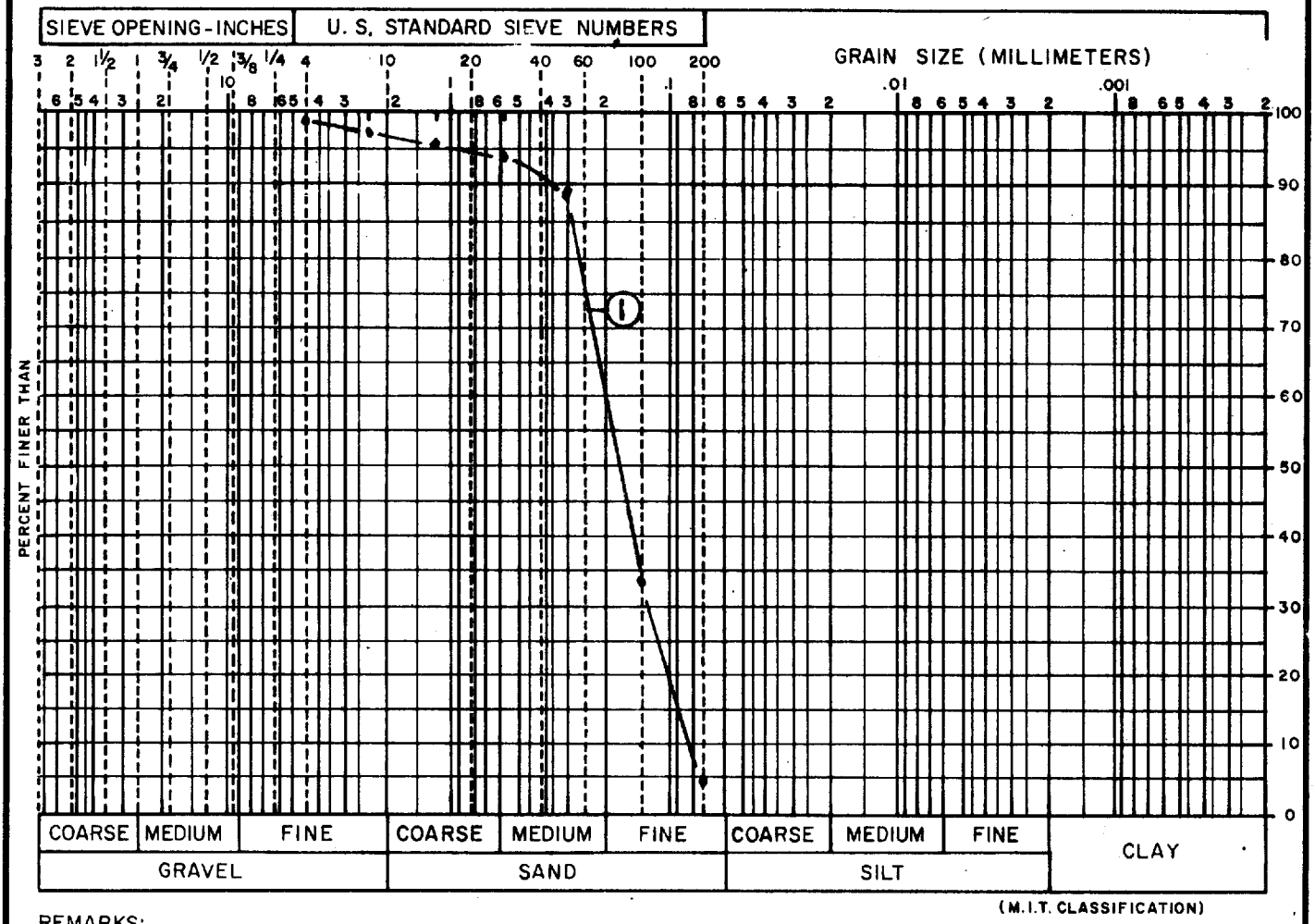
FIGURE NO: II-43

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-24

Depth:

① 7.0 feet

DATE: August 30, 1962

TT-FORM Nº4

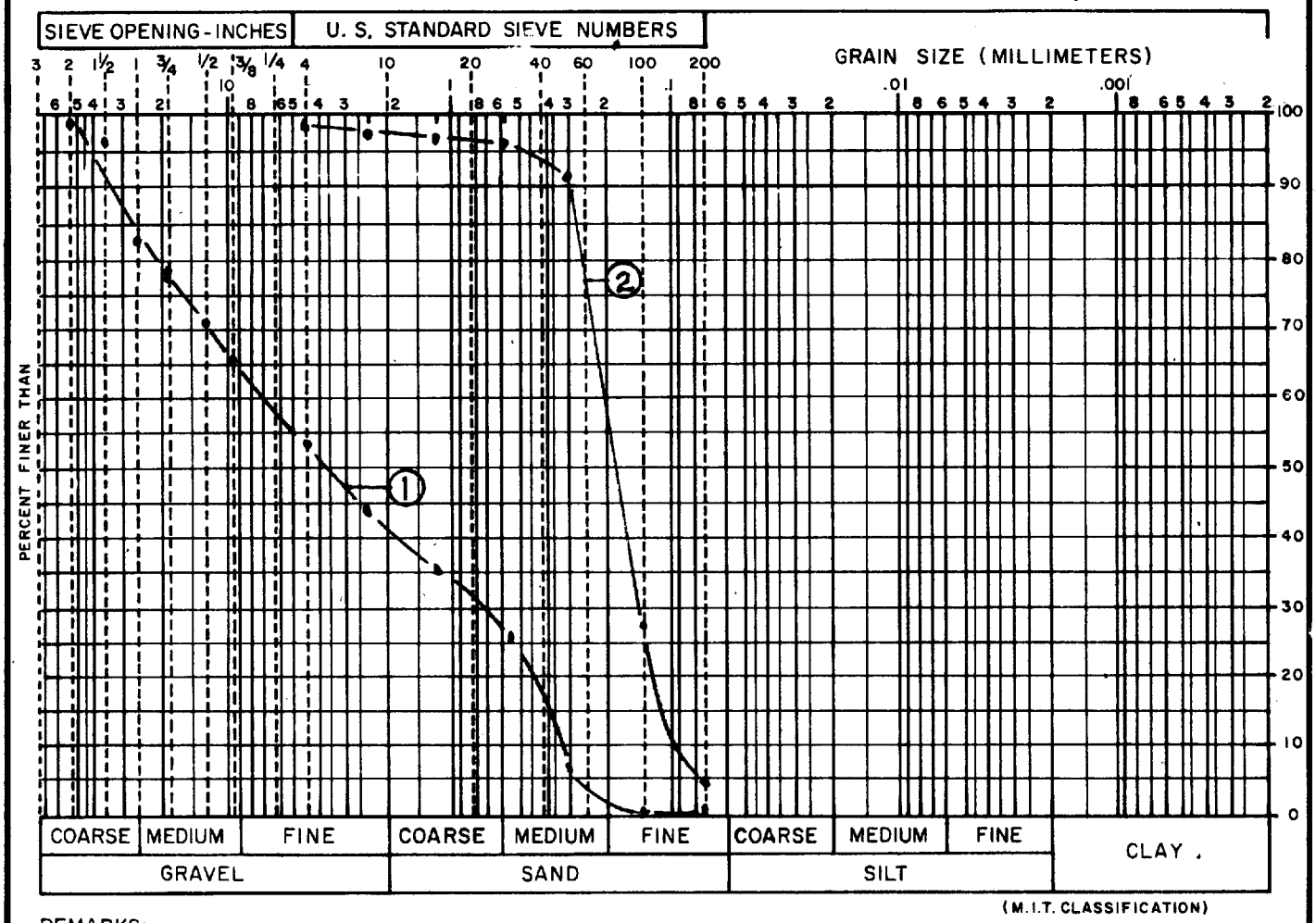
FIGURE NO. 11-44

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-25

Depth:

① 4.0 feet
② 7.0 feet

DATE: August 30, 1962

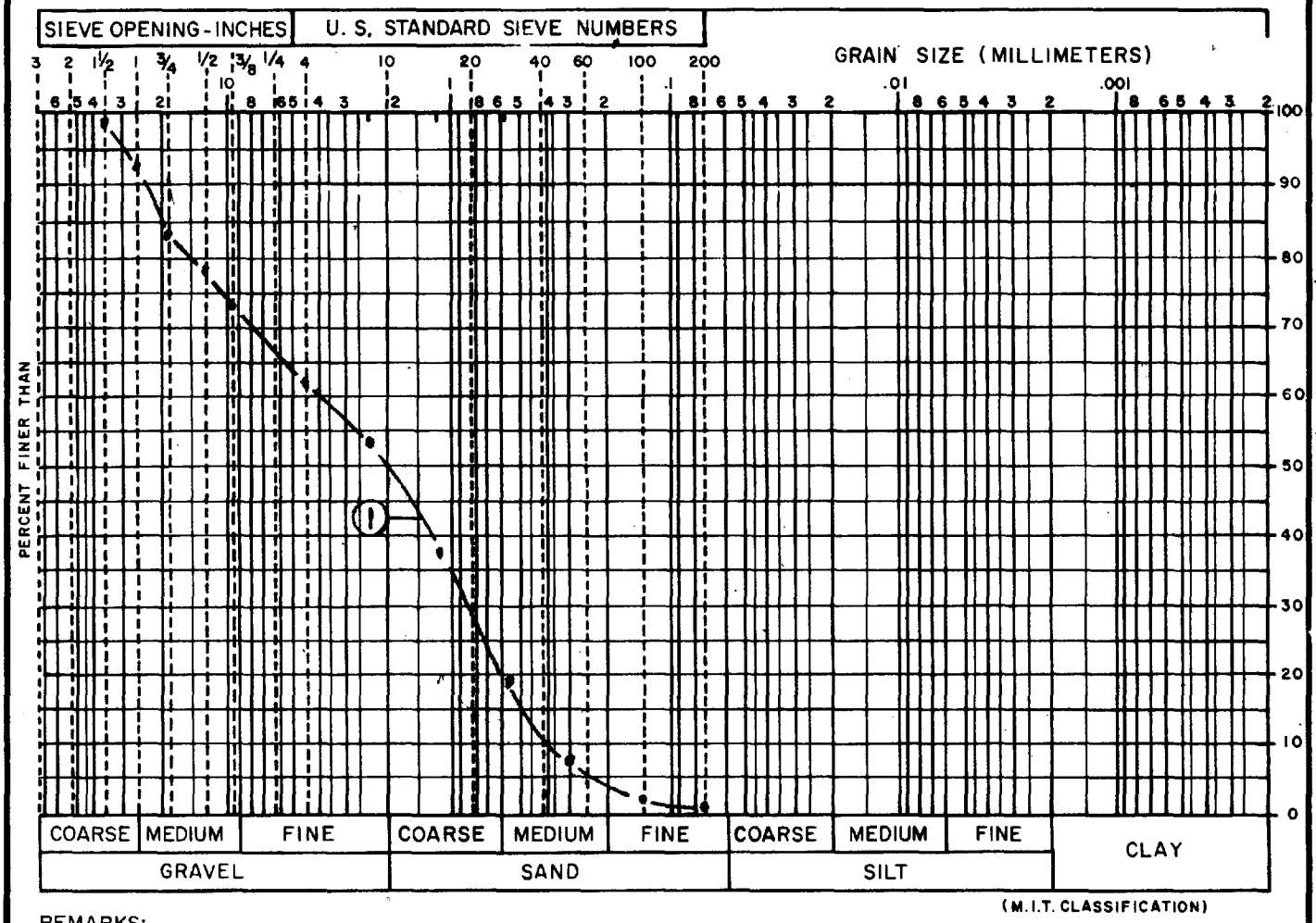
FIGURE NO: II-45

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-26

Depth:

① 2.5 feet

DATE: August 30, 1962

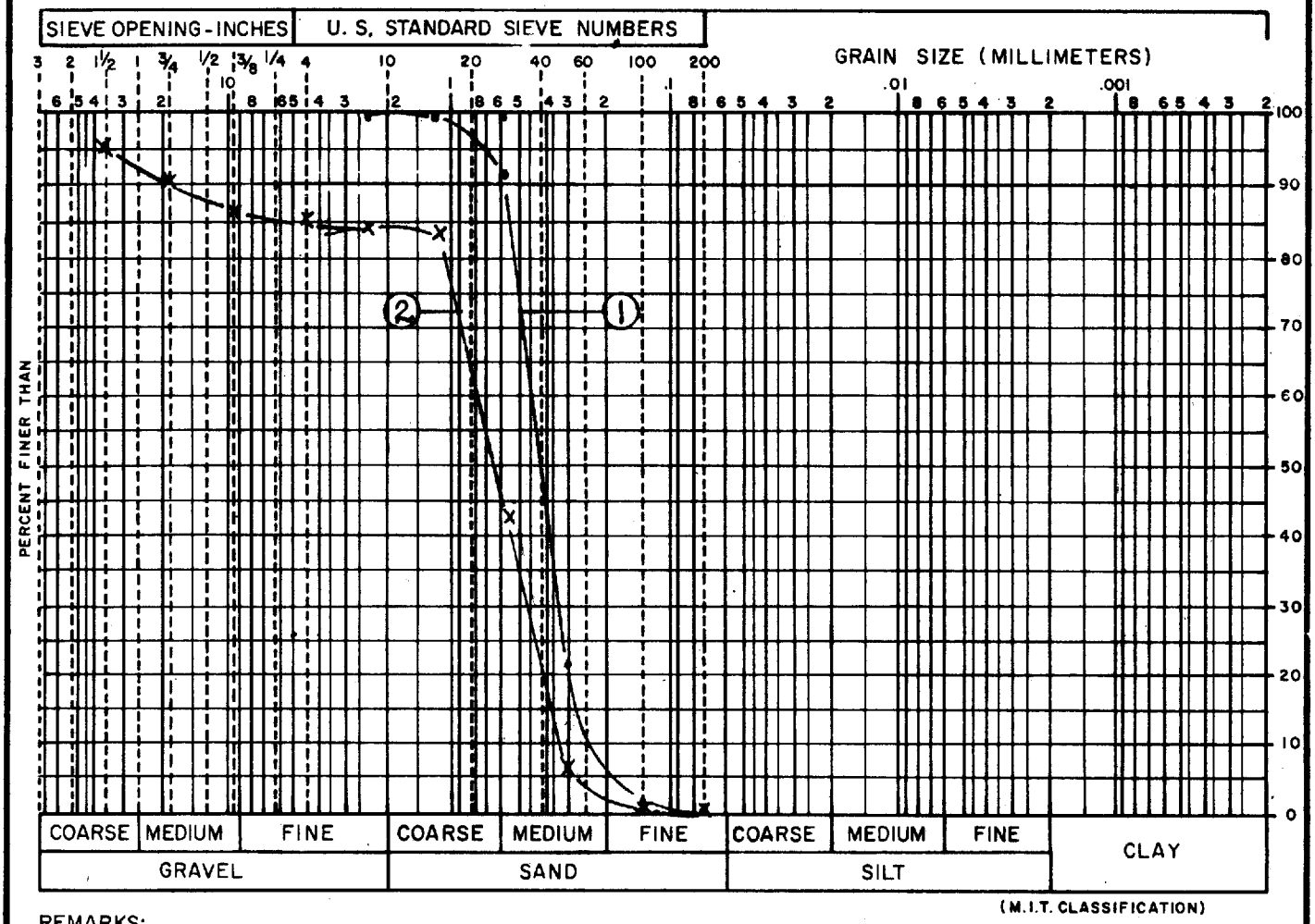
FIGURE NO: TT-46

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-27

Depth:

(1) 2.0 feet
(2) 4.0 feet

DATE: August 30, 1962

TT-FORM №4

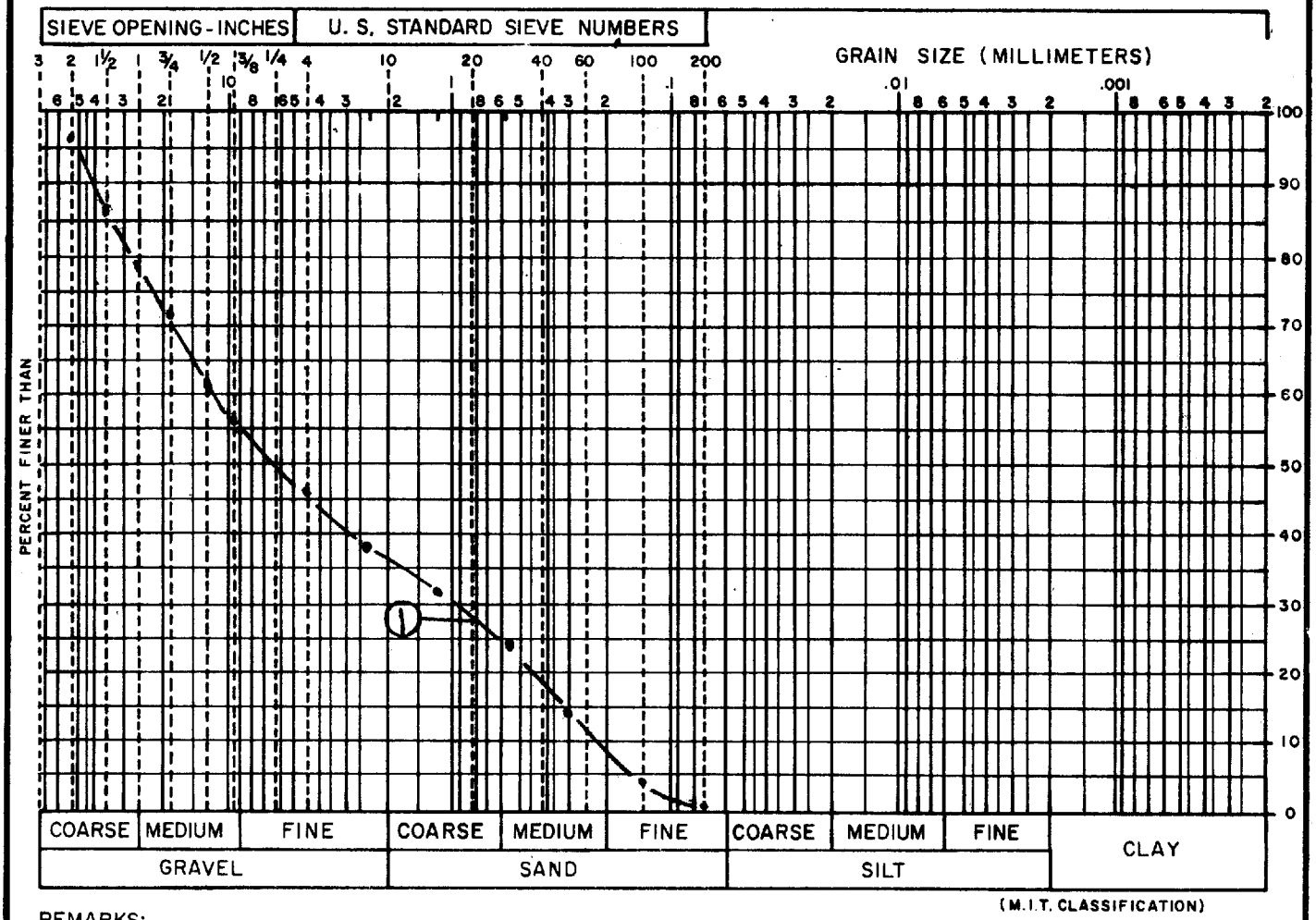
FIGURE NO: 11-47

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-28

Depth:

① 3.0 feet

DATE: August 30, 1962

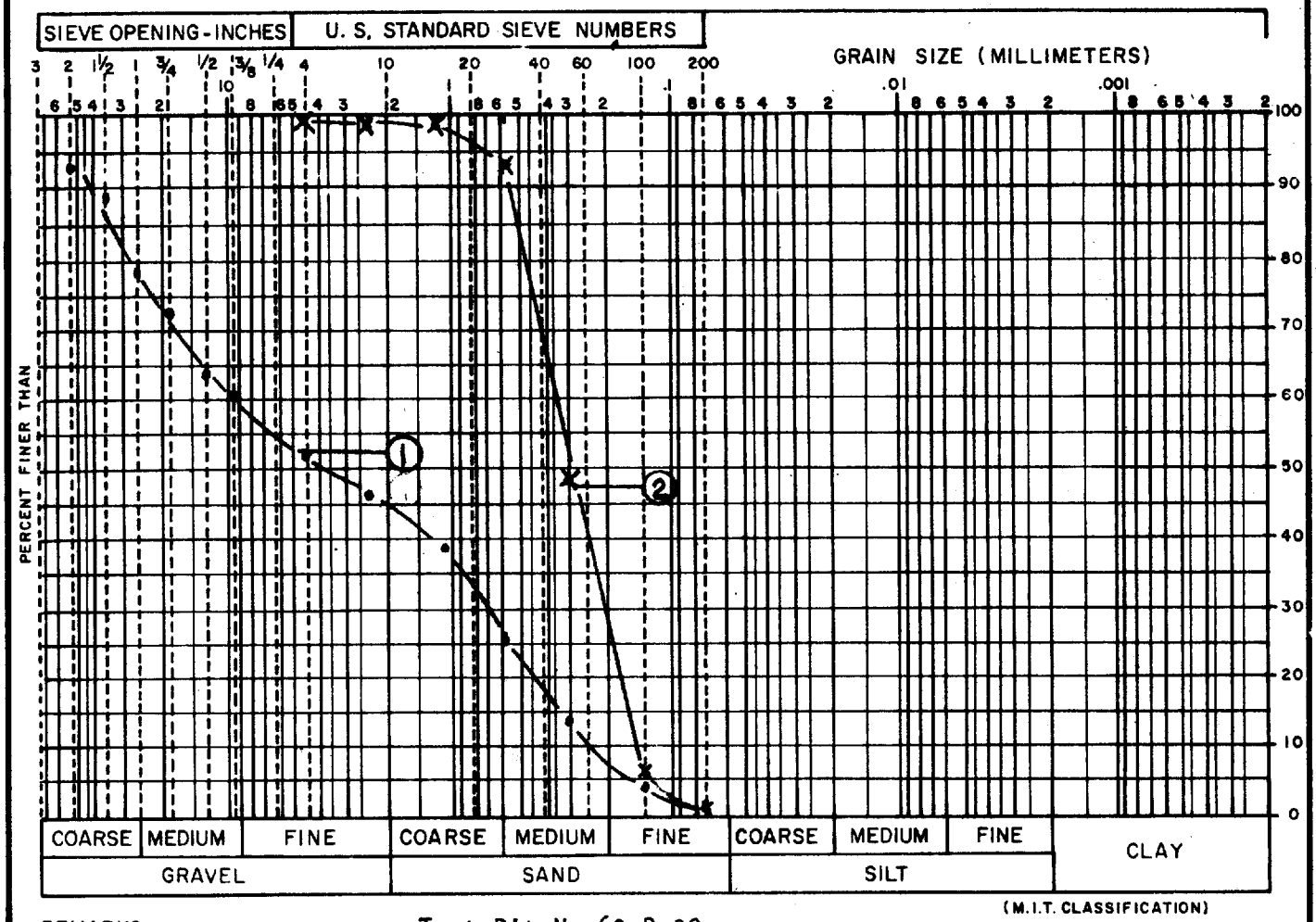
FIGURE NO: 11-48

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-30

Depth:

① 2.0 feet
② 4.0 feet

DATE: August 30, 1962

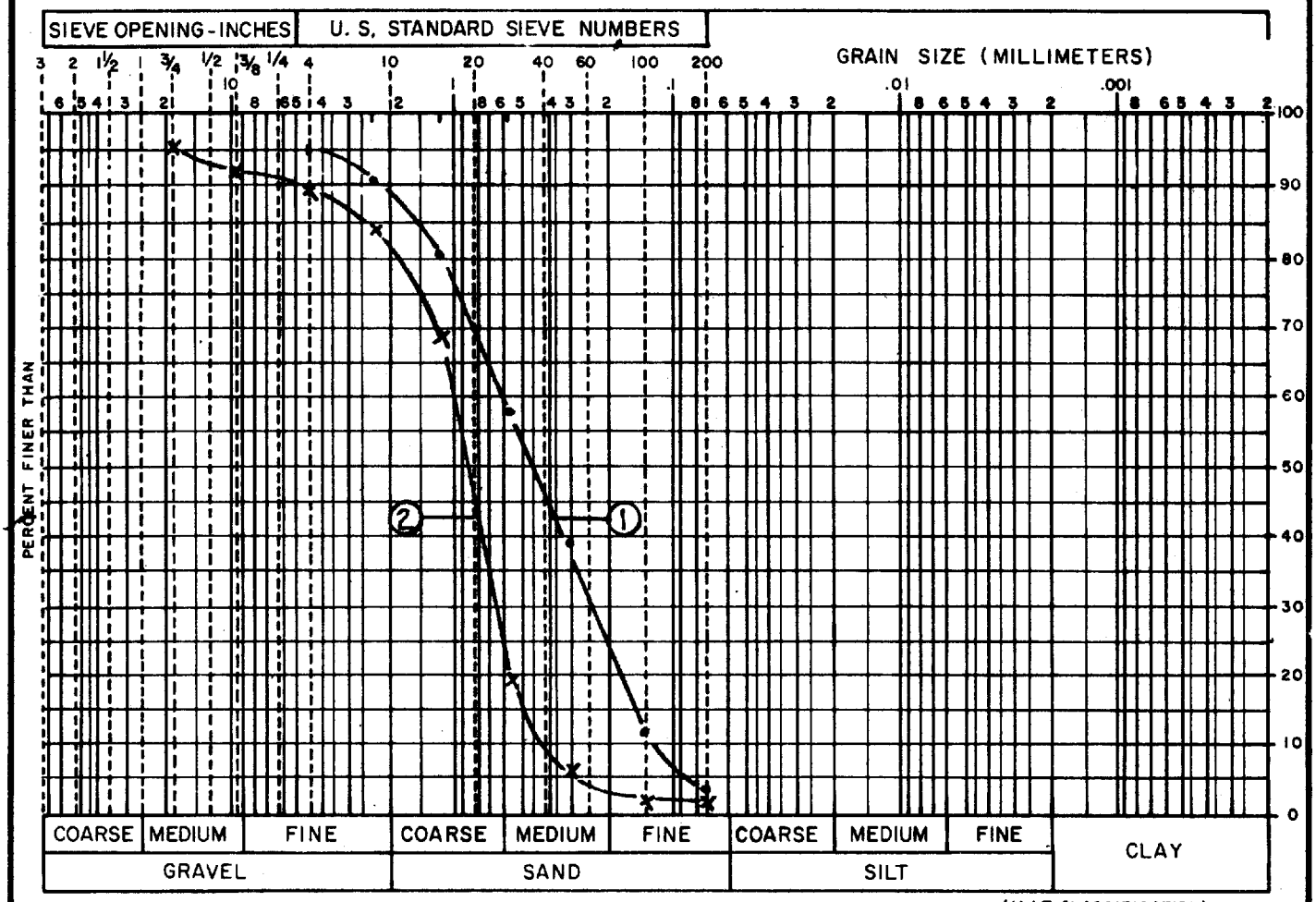
FIGURE NO: II-49

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-34

Depth:

① 0.0 to 8.0 feet
② 6.0 feet

DATE: August 30, 1962

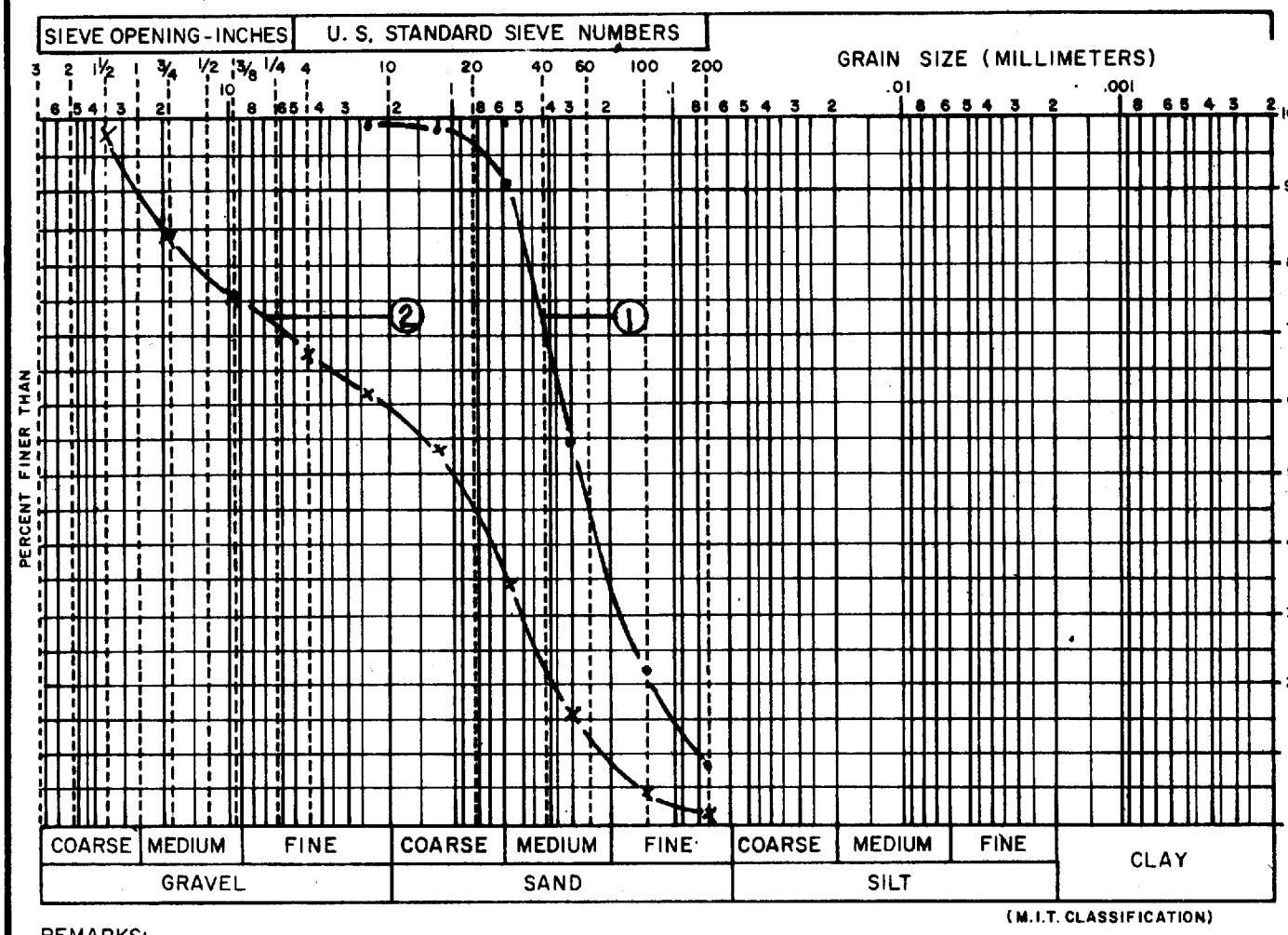
FIGURE NO: 11-50

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-36

Depth:

① 5.0 to 6.0 feet
② 12.0 feet

DATE: August 30, 1962

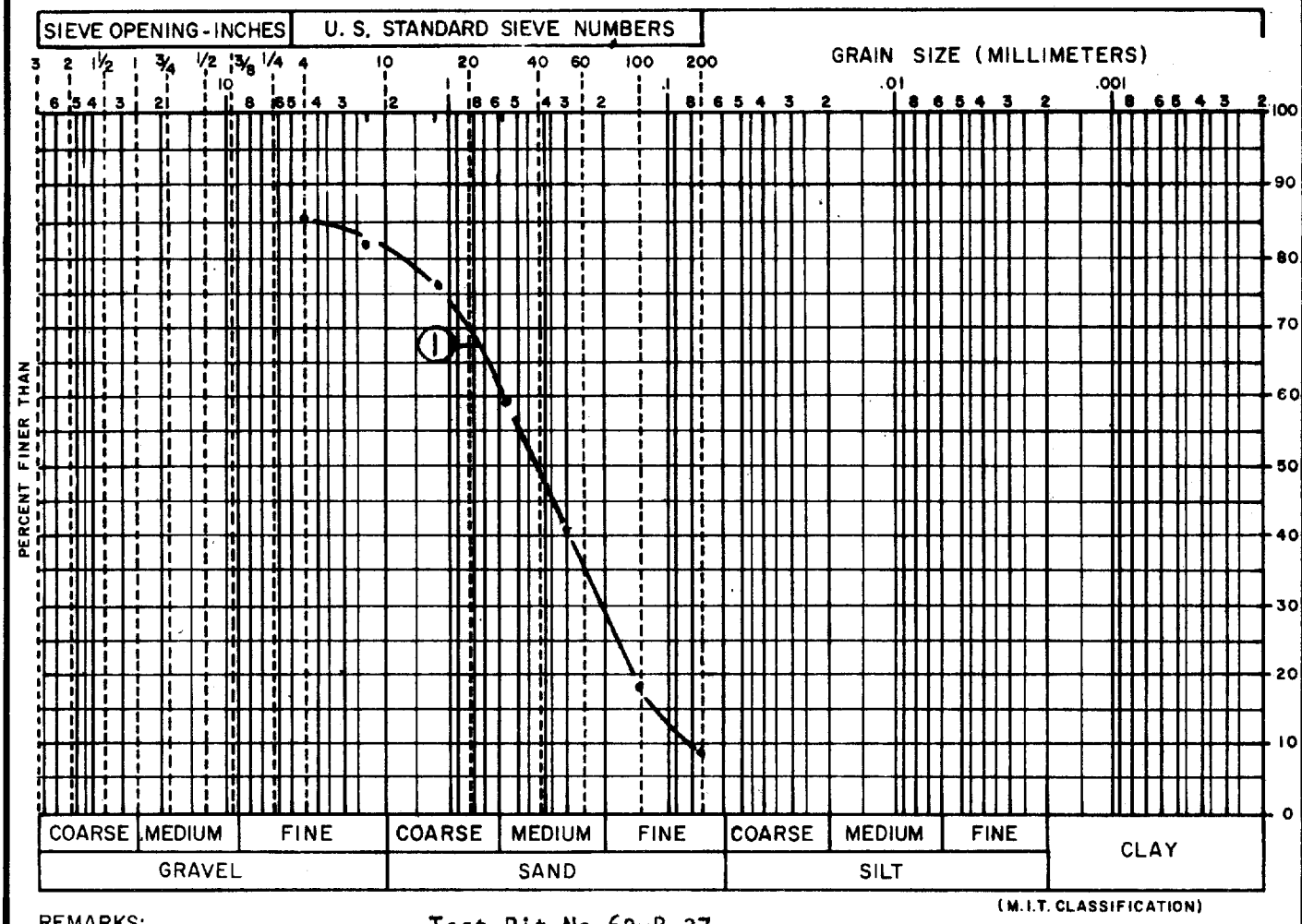
FIGURE NO: II-51

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-37

Depth:

① 3.5 feet

DATE: August 30, 1962

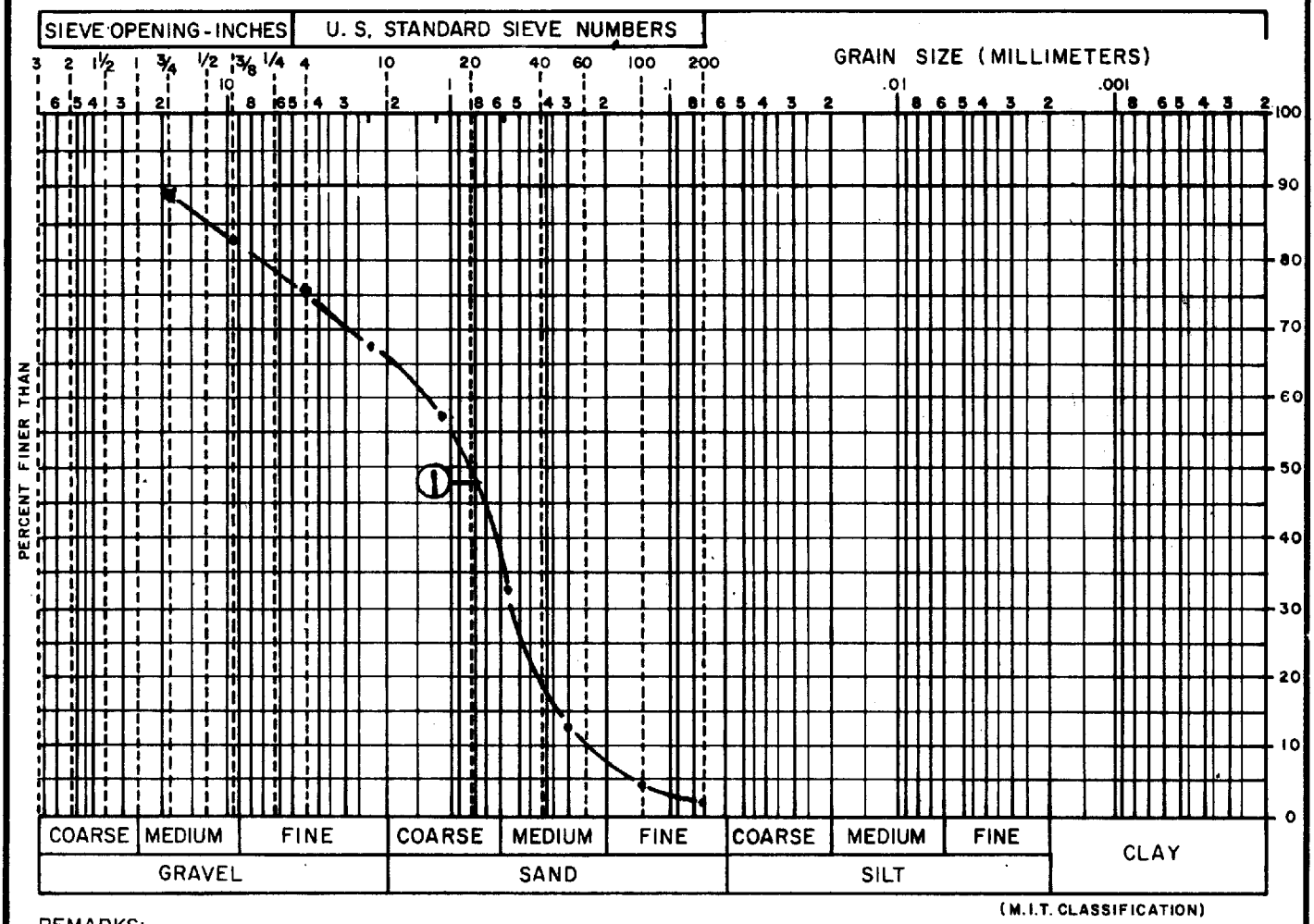
FIGURE NO: II-52

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Hill - (TT-35-62)



REMARKS:

Test Pit No 62-R-38

Depth:

① 4.0 feet

DATE: August 30, 1962

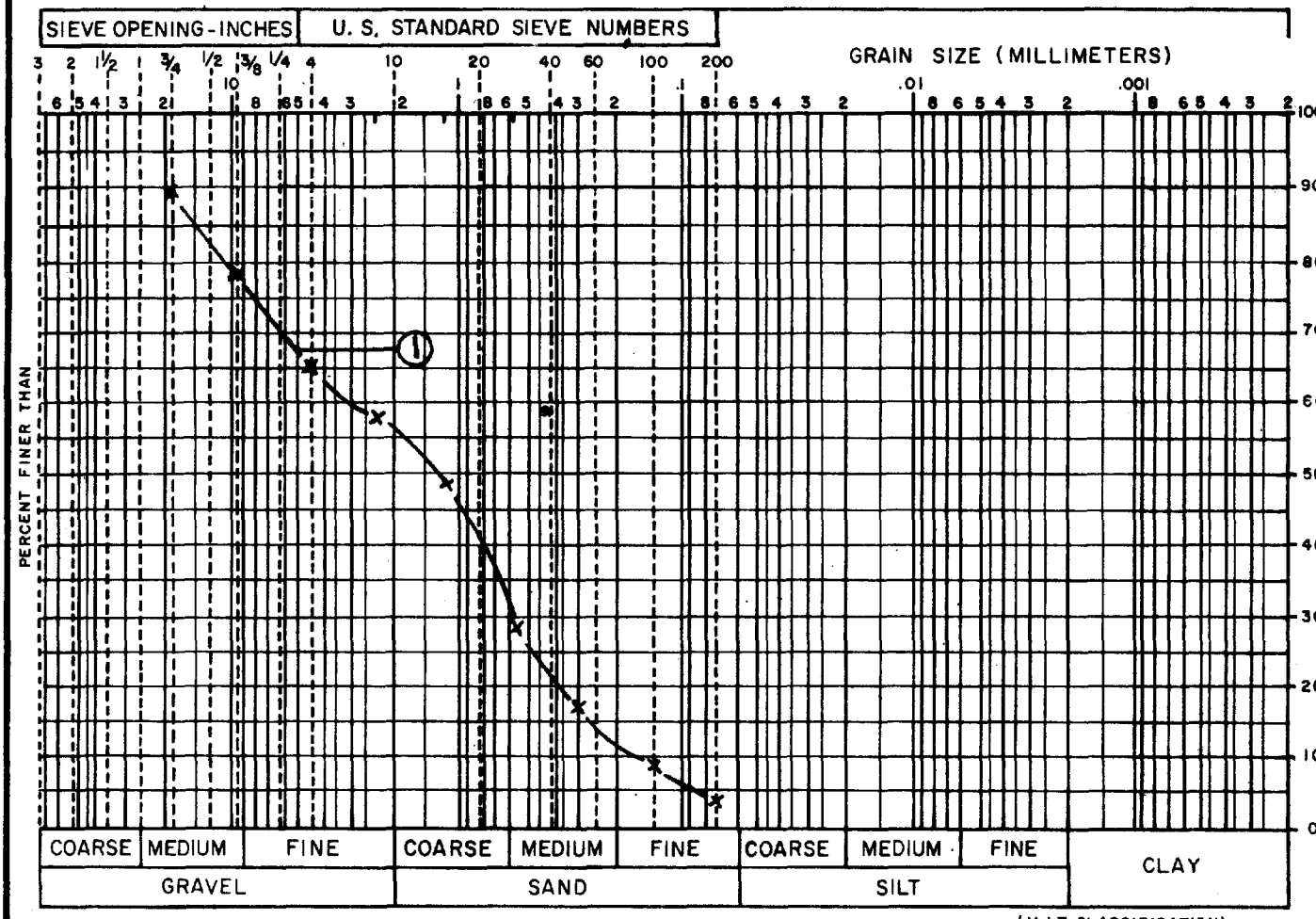
FIGURE NO: II-53

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-39

Depth:

① 5.0 feet

DATE: August 30, 1962

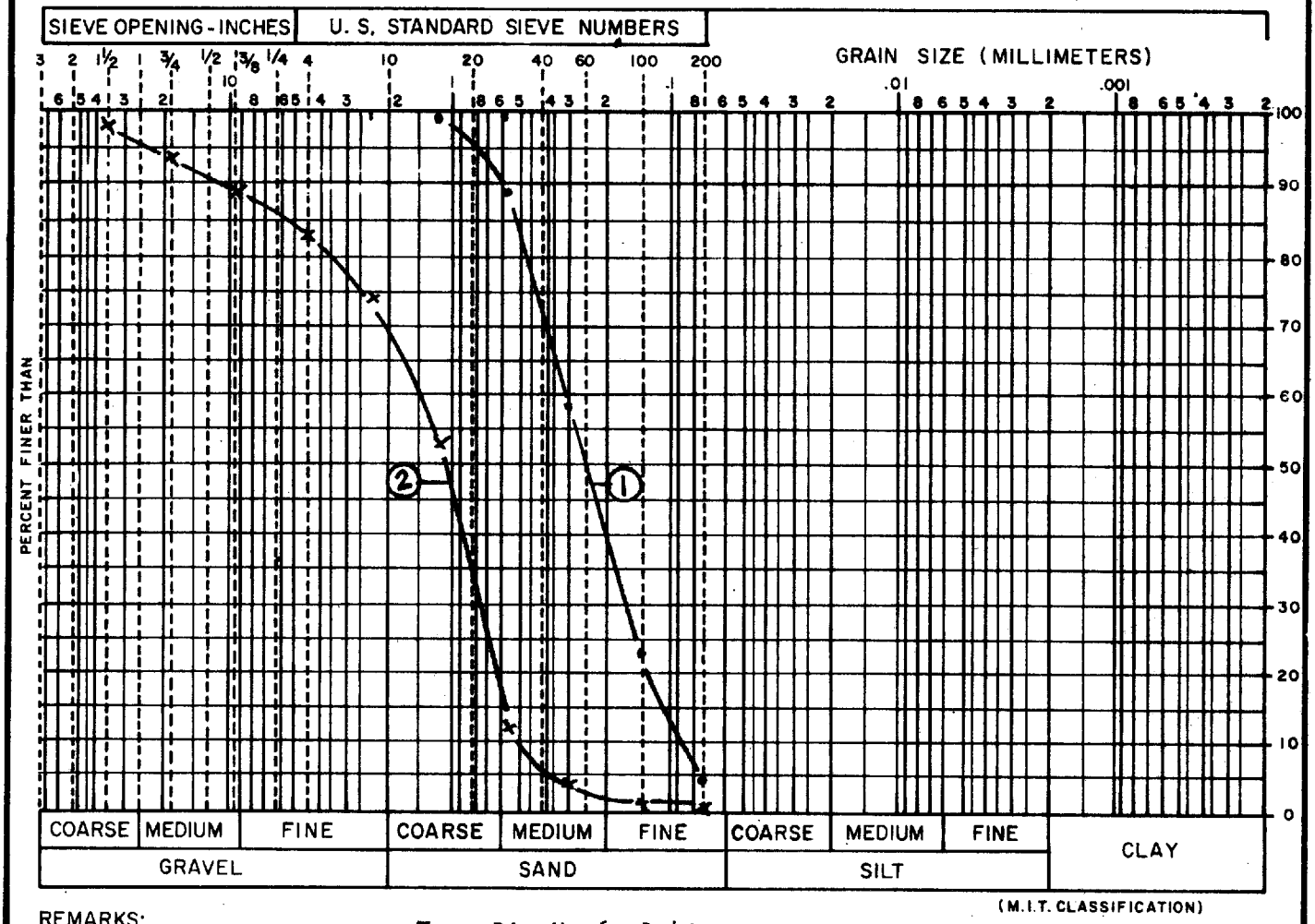
FIGURE NO: II-54

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-40

Depth:

① 7.0 feet
② 10.0 feet

DATE: August 30, 1962

TT-FORM No 4

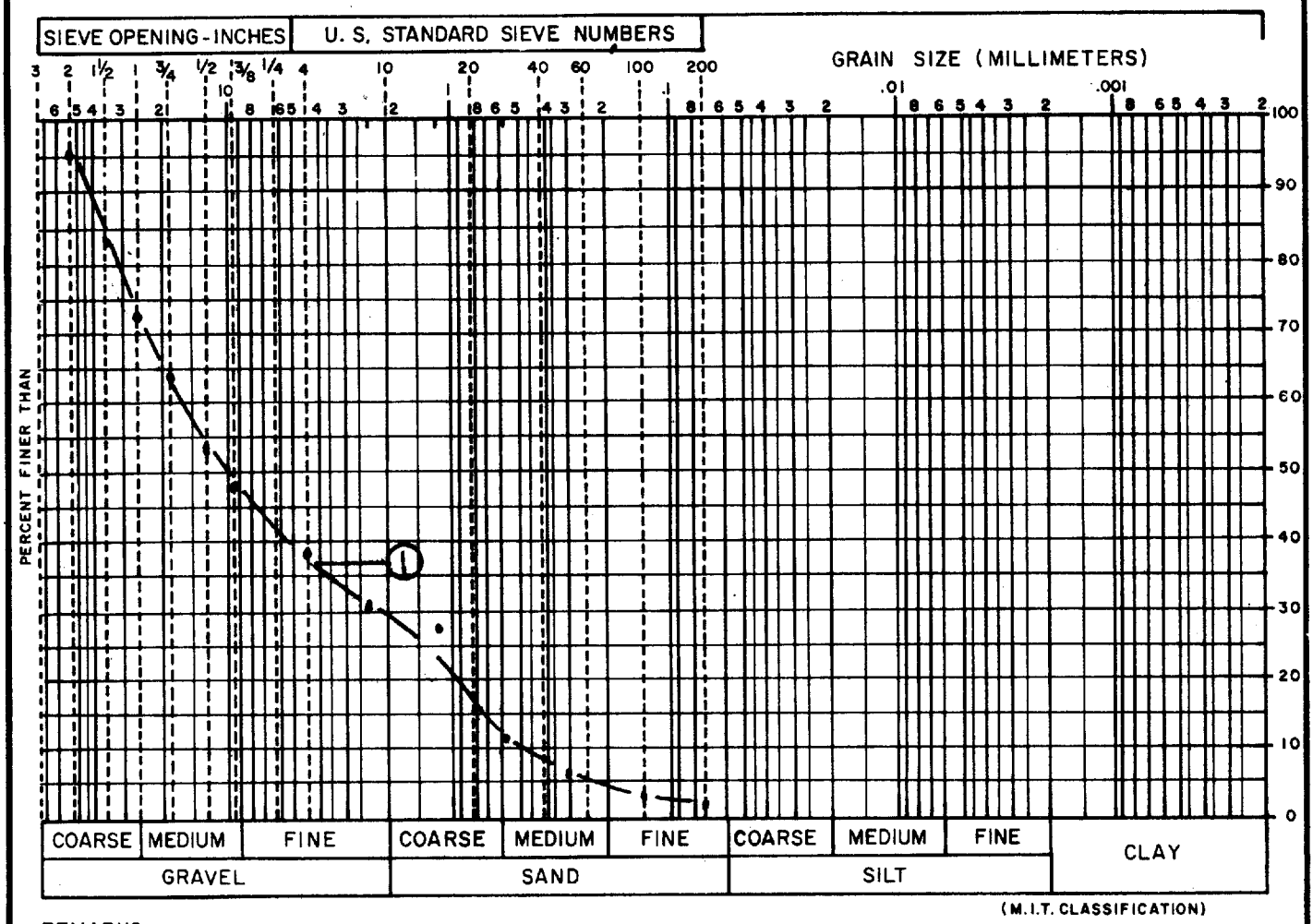
FIGURE NO: 11-55

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-41

Depth:

① 12.0 feet

DATE: August 30, 1962

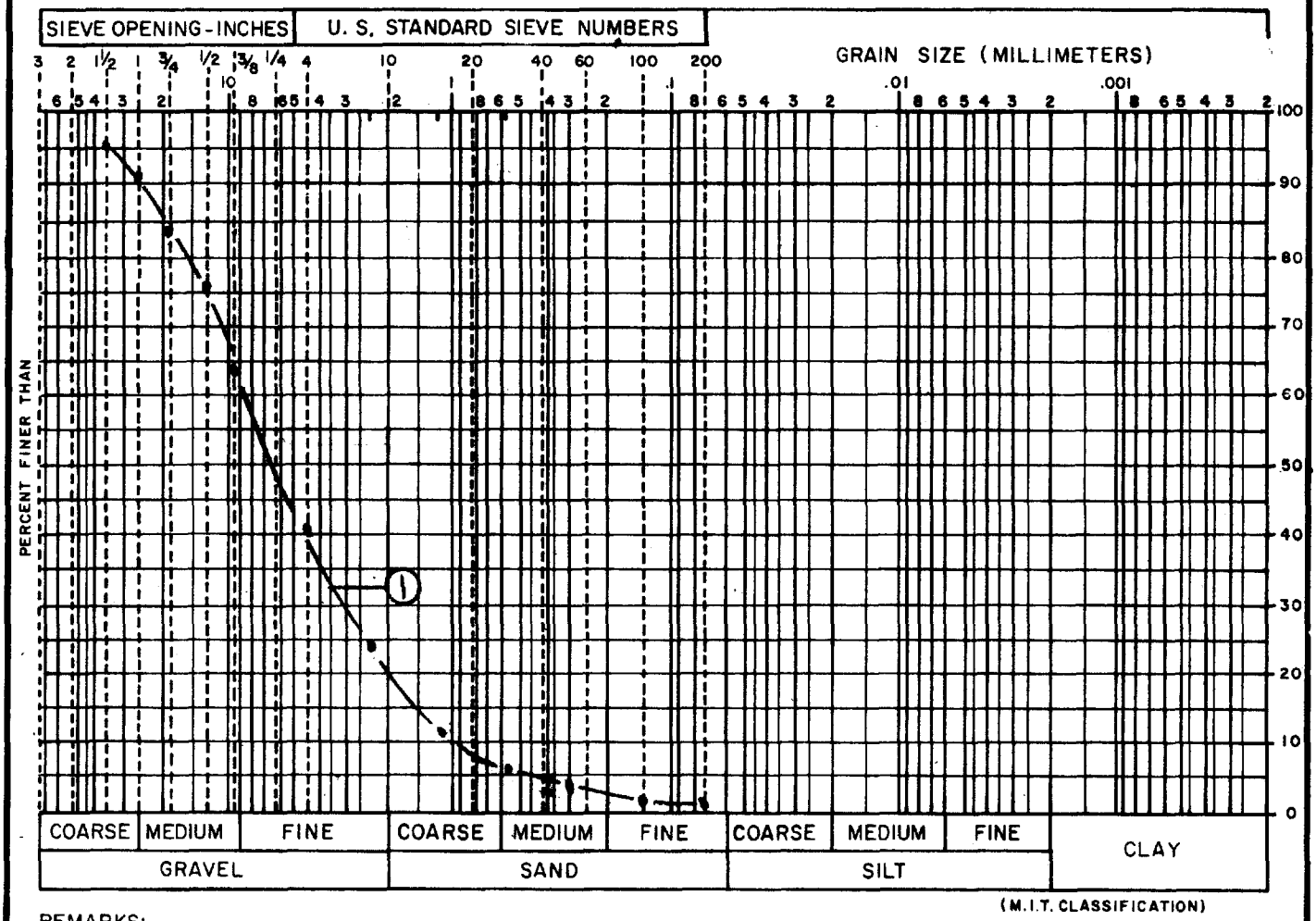
FIGURE NO. TT-56

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-42

Depth:

① 10.0 feet

DATE: August 30, 1962

TT-FORM. Nº4

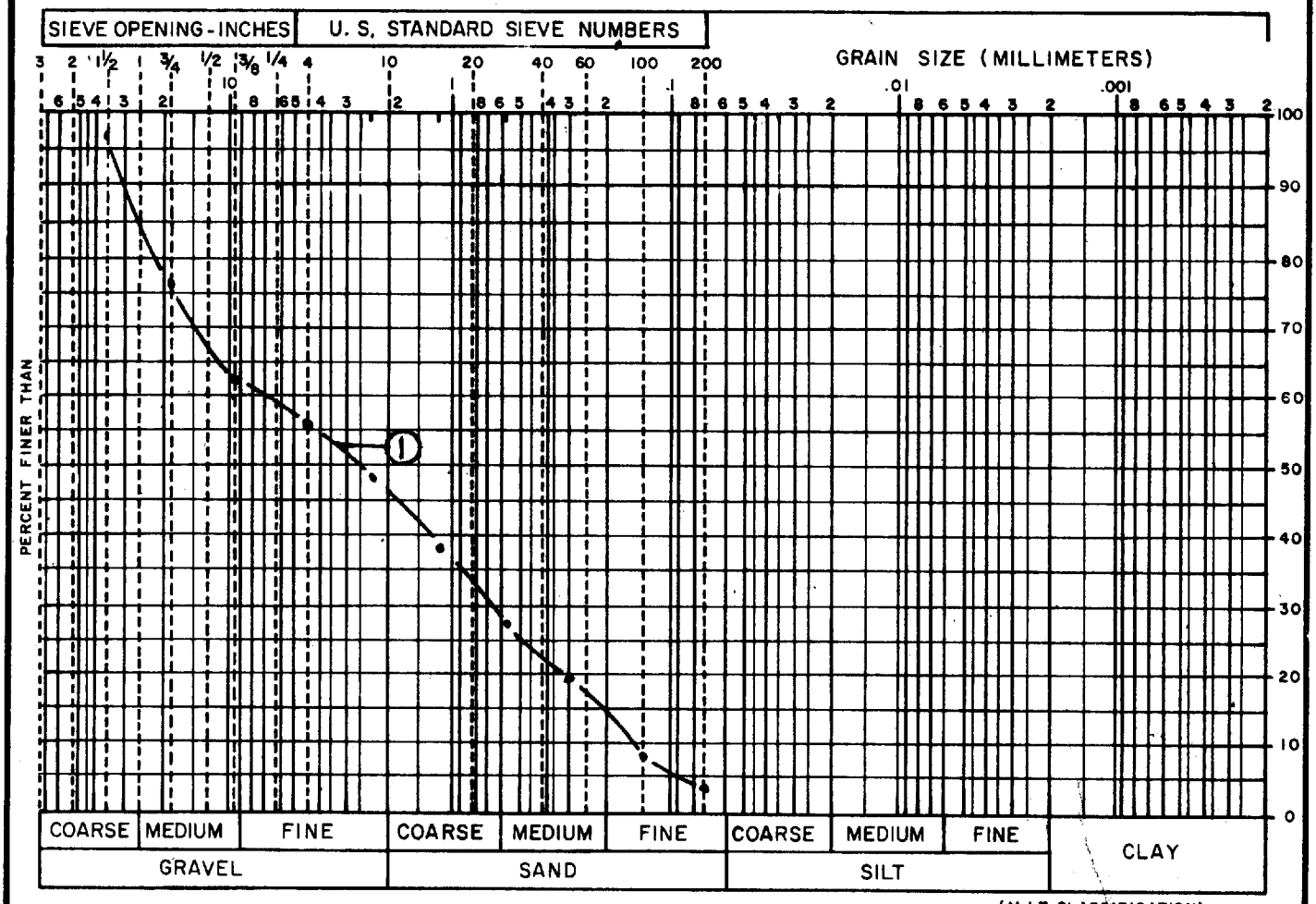
FIGURE NO: 11-57

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-43

Depth:

① 3.0 feet

DATE August 30, 1962

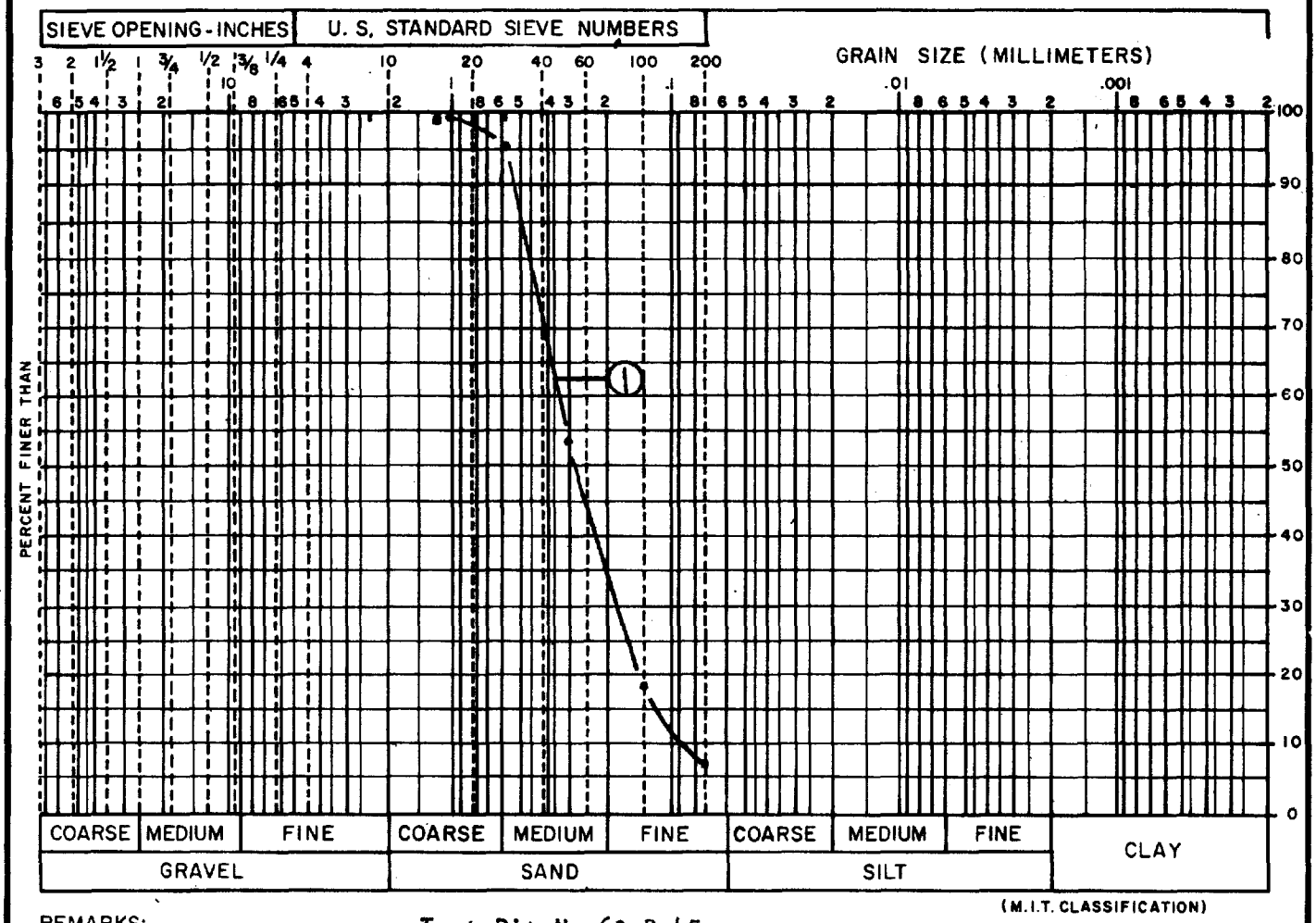
FIGURE NO: II-58

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-45

Depth:

① 3.5 feet

DATE: August 30, 1962

TT-FORM No 4

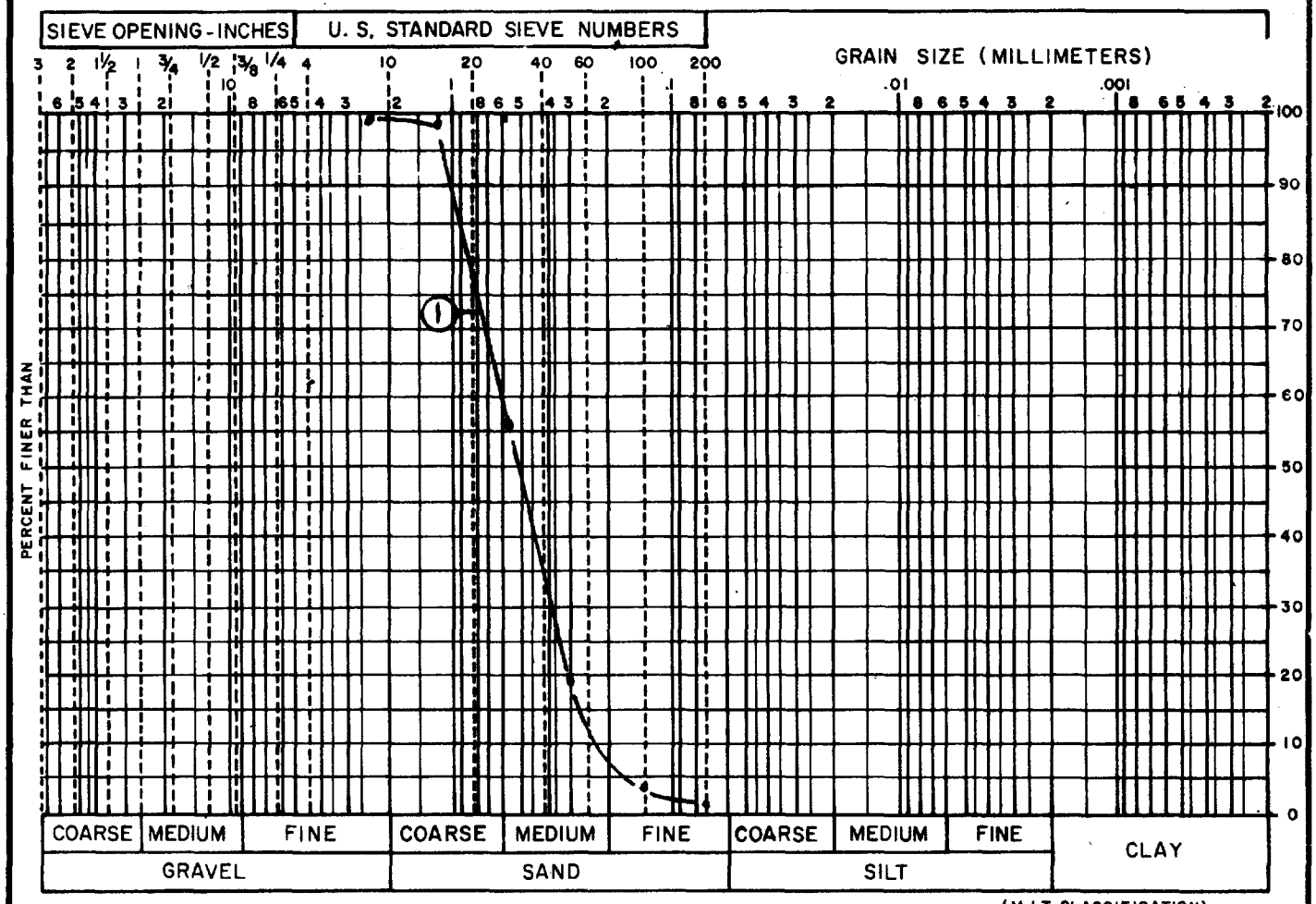
FIGURE NO. II-59

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-46

Depth:

① 4.0 feet

DATE: August 30, 1962

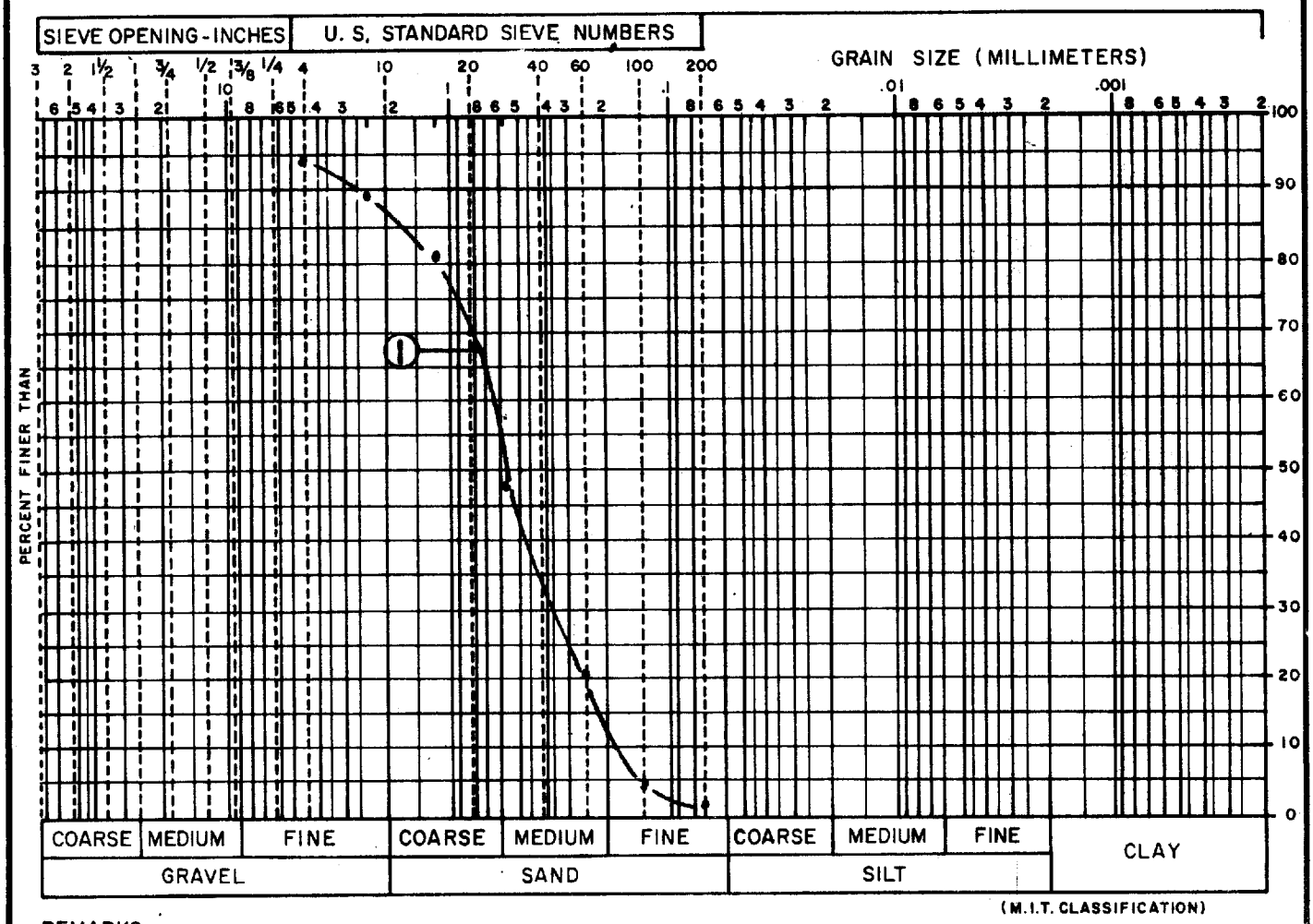
FIGURE NO: 11-60

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-47

Depth:

① 5.0 feet

DATE: August 30, 1962

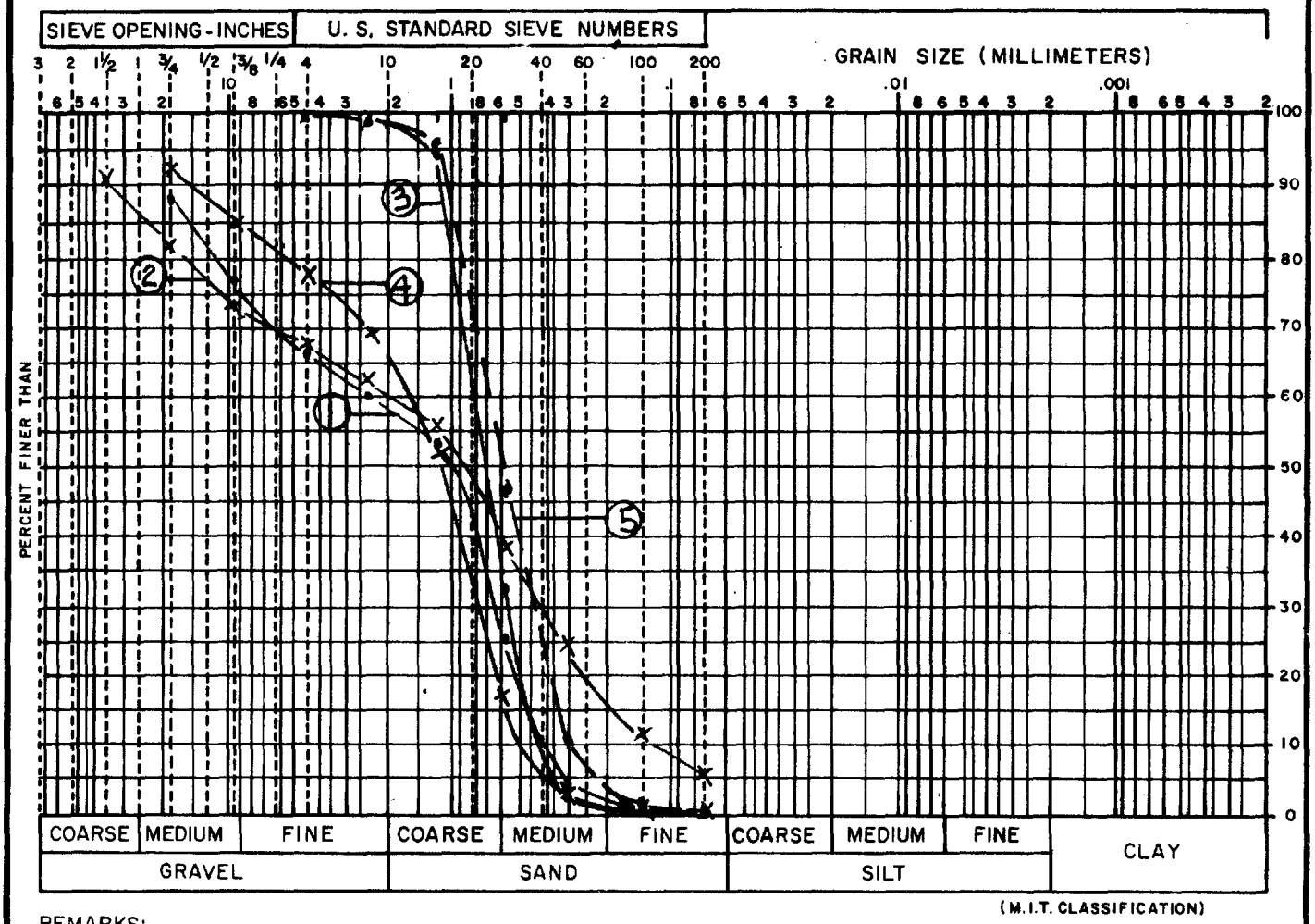
FIGURE NO. II-61

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-48

Depth:

① 2.0 feet
② 6.0 feet
③ 20.0 feet
④ 25.0 feet
⑤ 35.0 feet

DATE: August 30, 1962

TT-FORM No 4

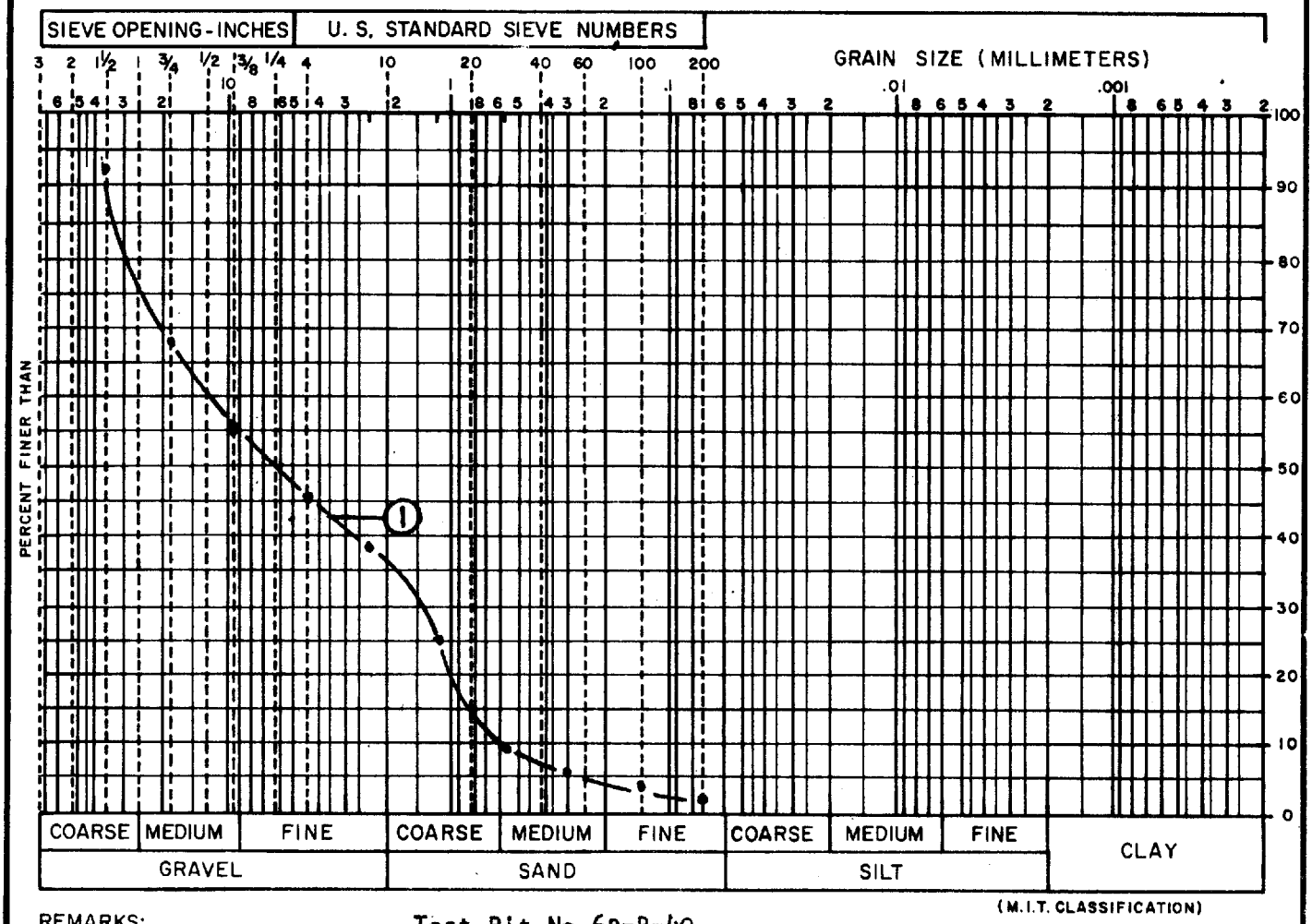
FIGURE NO: 11-62

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-49

Depth:

① 7.0 feet

DATE: August 30, 1962

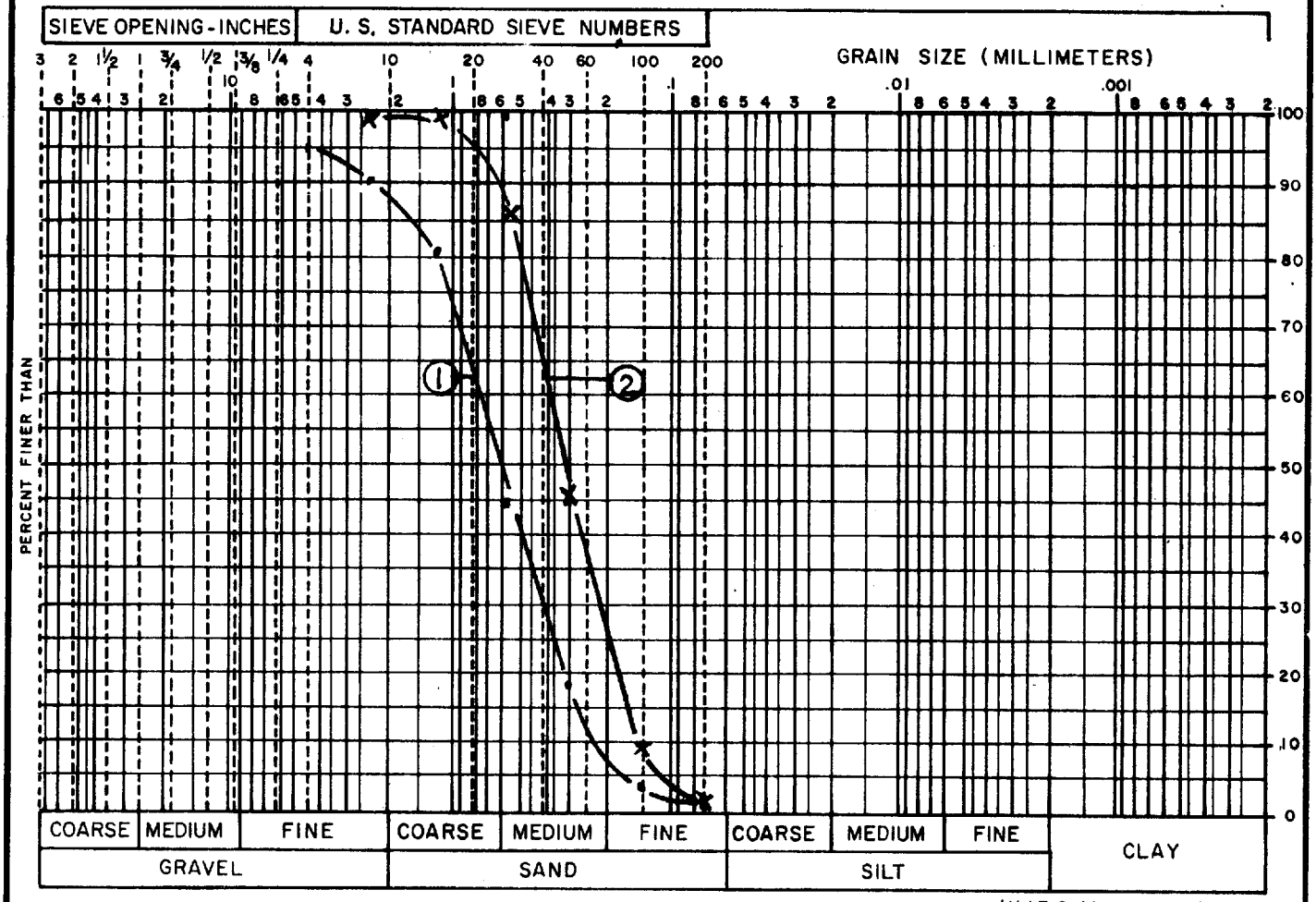
FIGURE NO: II-63

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-50

Depth:

① 4.0 feet
② 10.0 feet

DATE: August 30, 1962

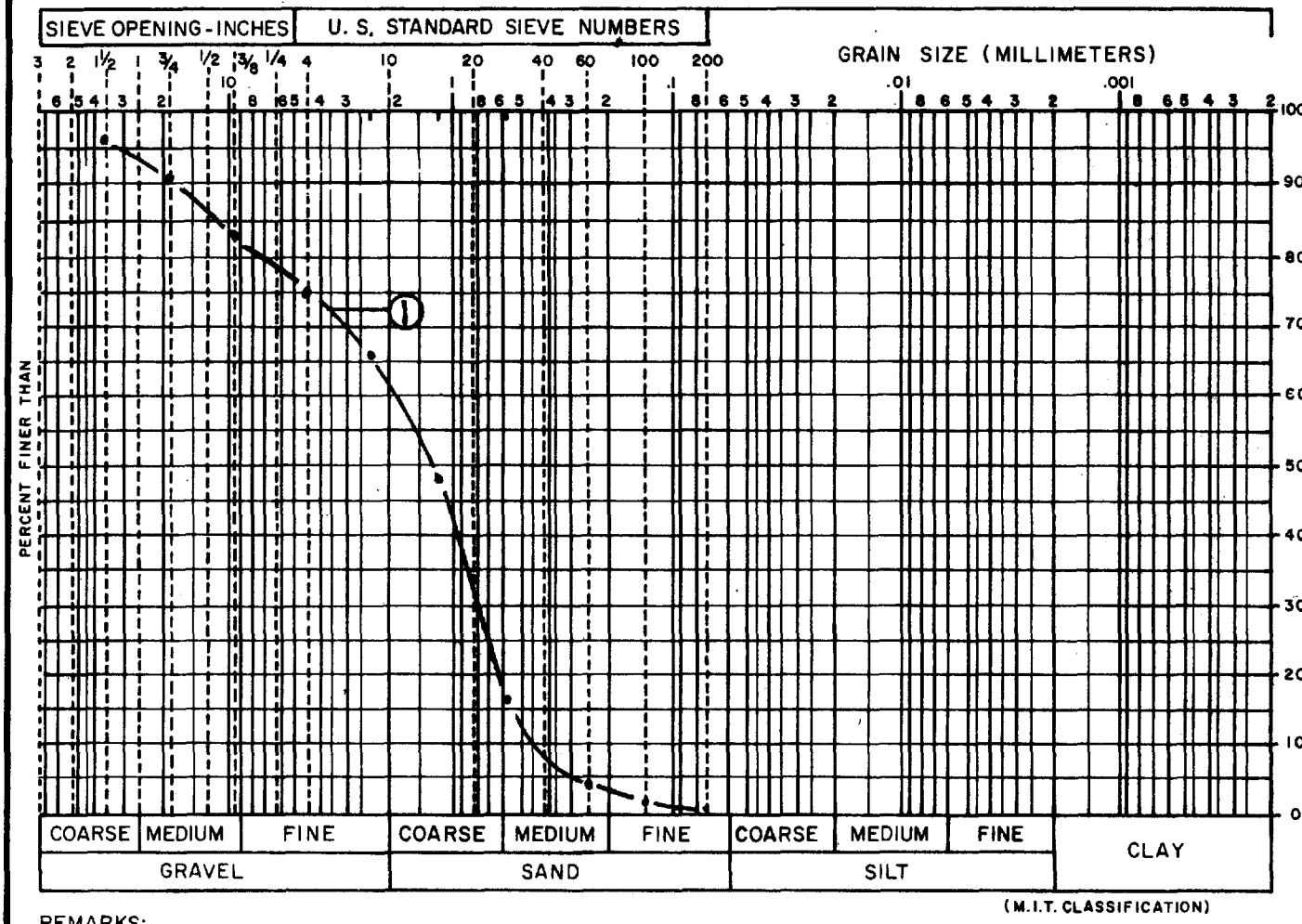
FIGURE NO: II-64

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



(M.I.T. CLASSIFICATION)

REMARKS:

Test Pit No 62-R-54

Depth:

① 5.0 feet

DATE: August 30, 1962

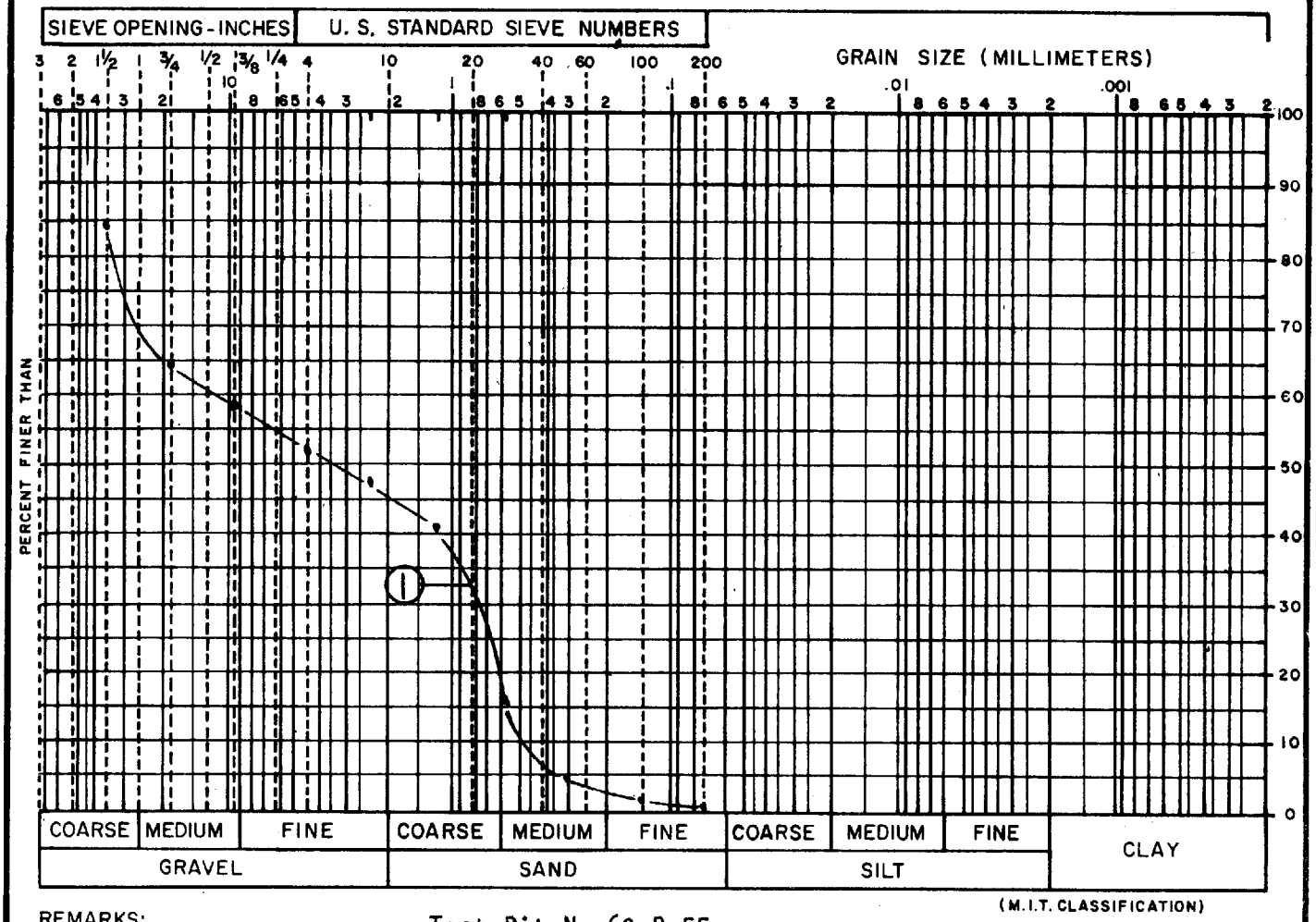
FIGURE NO: 11-65

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-55

Depth:

① 3.0 feet

DATE: August 30, 1962

TT-FORM No 4

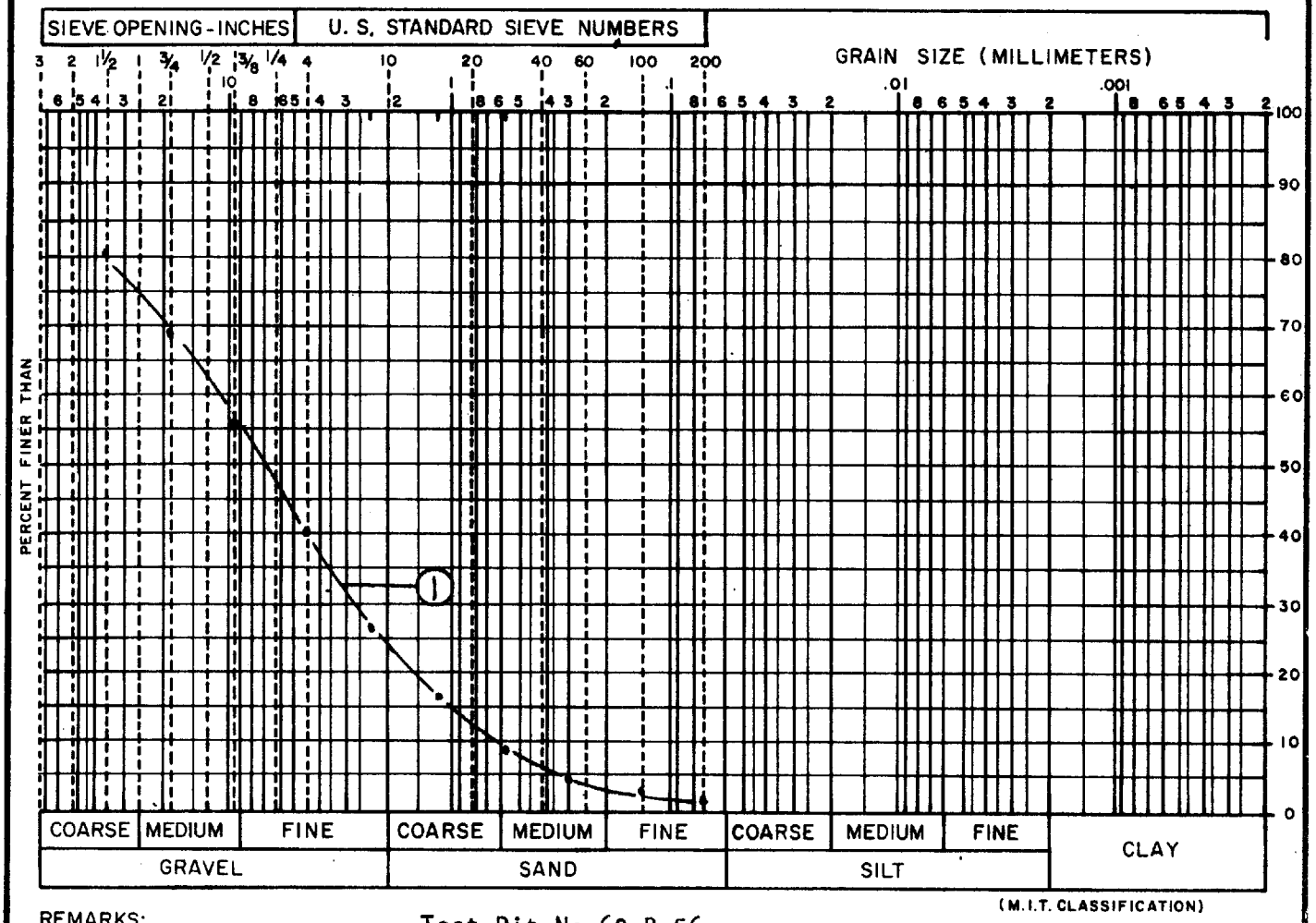
FIGURE NO: 11-66

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-56

Depth:

① 3.0 feet

DATE: August 30, 1962

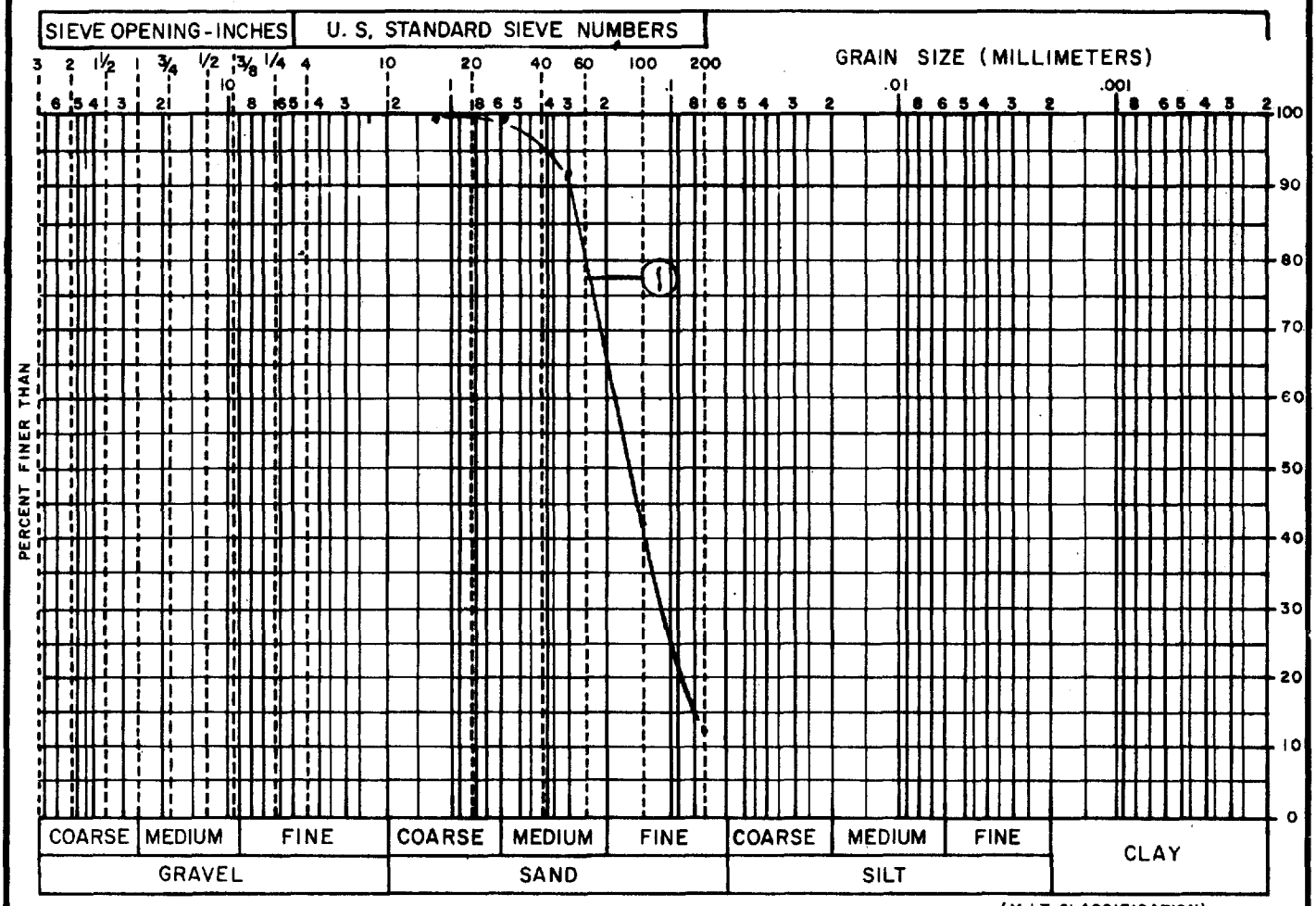
FIGURE NO: 11-67

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-57

Depth:

① 3.0 feet

DATE: August 30, 1962

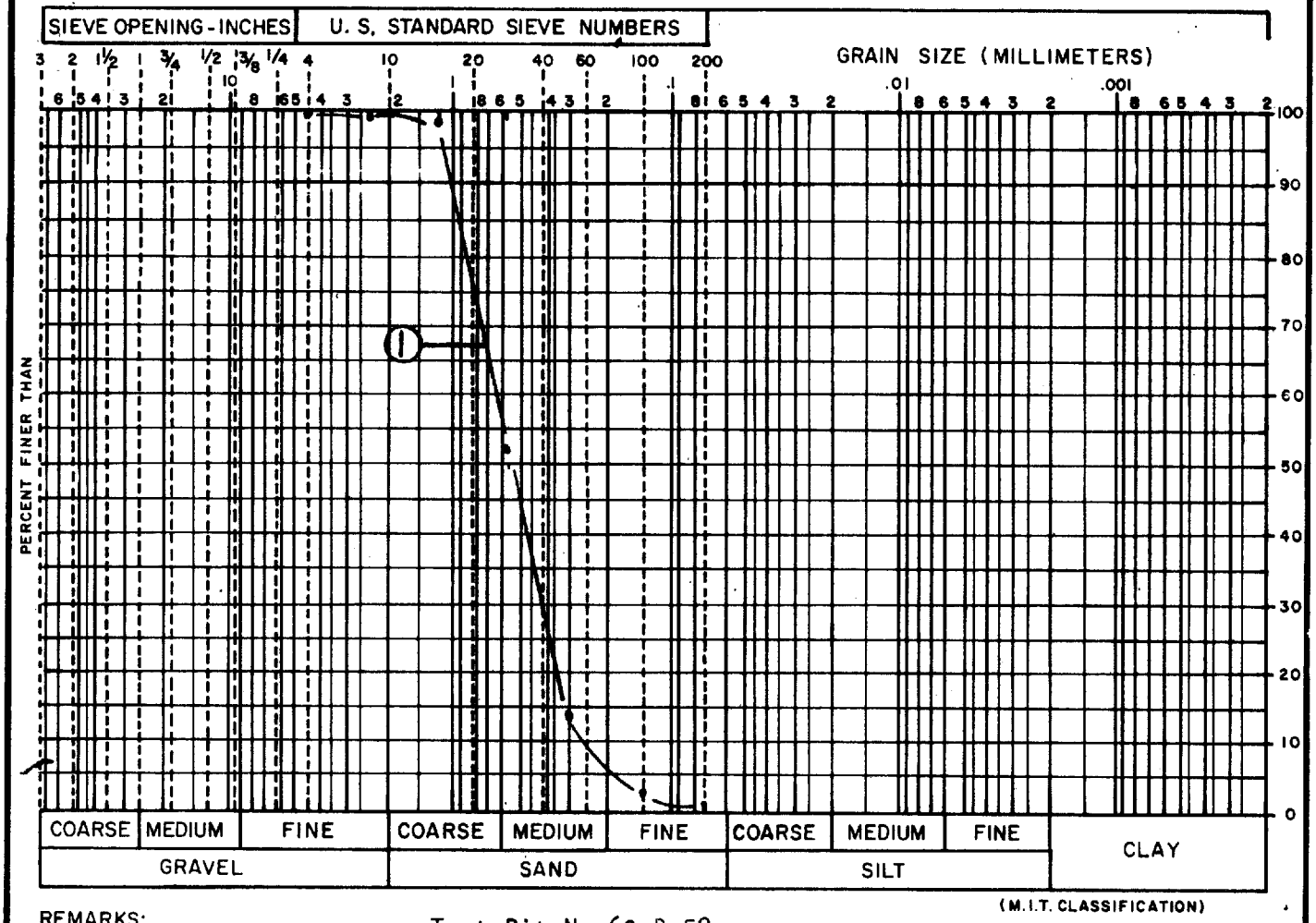
FIGURE NO: 11-68

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-58

Depth:

① 3.0 feet

DATE: August 30, 1962

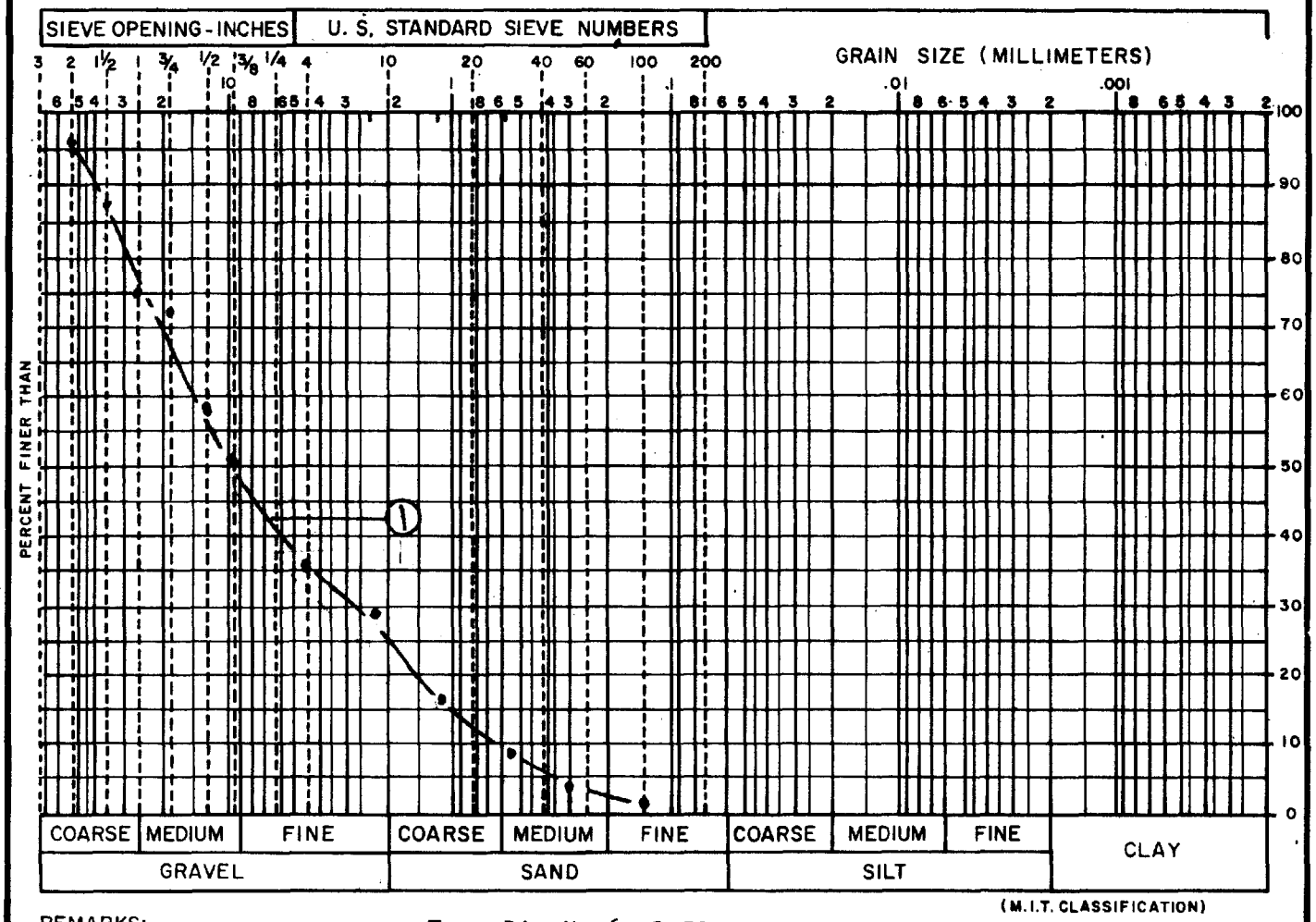
FIGURE NO: II-69

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-59

Depth:

① 3.0 feet

DATE: August 30, 1962

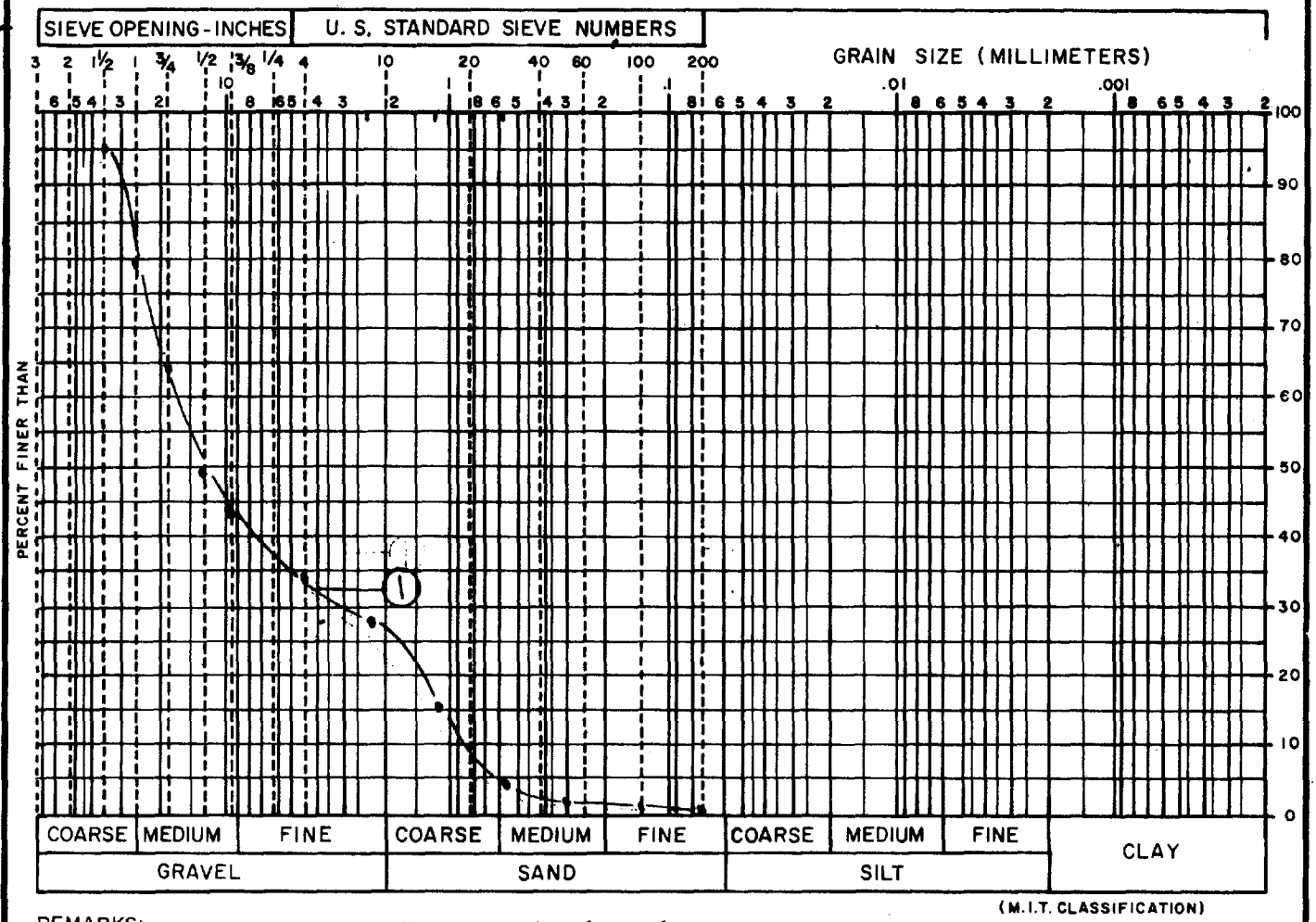
FIGURE NO: II-70

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Hill - (TT-35-62)



REMARKS: Test Pit No 62-R-60

Depth:

① 4.0 feet

DATE: August 30, 1962

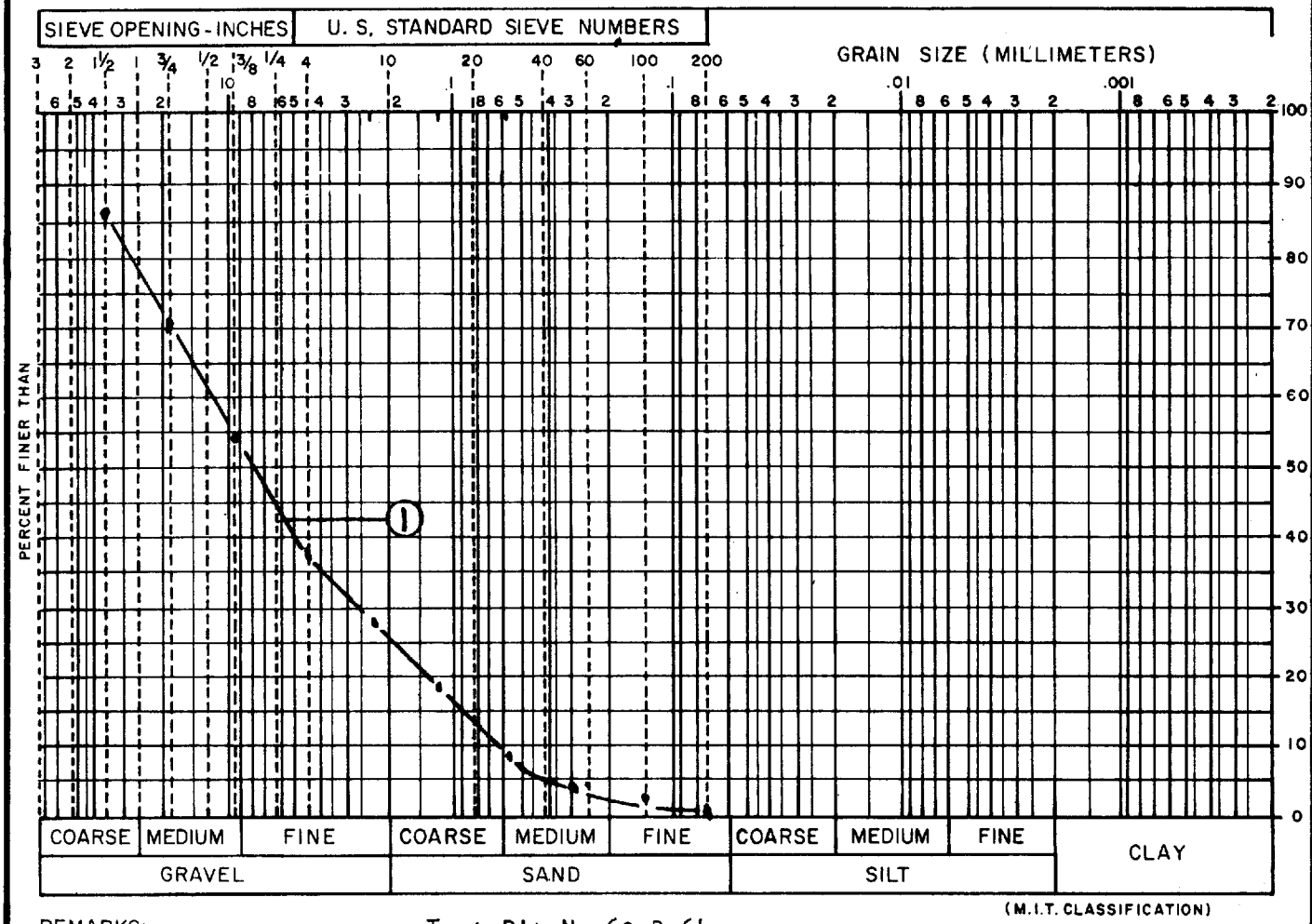
FIGURE NO: TT-71

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-64

Depth:

① 4.0 feet

DATE: August 30, 1962

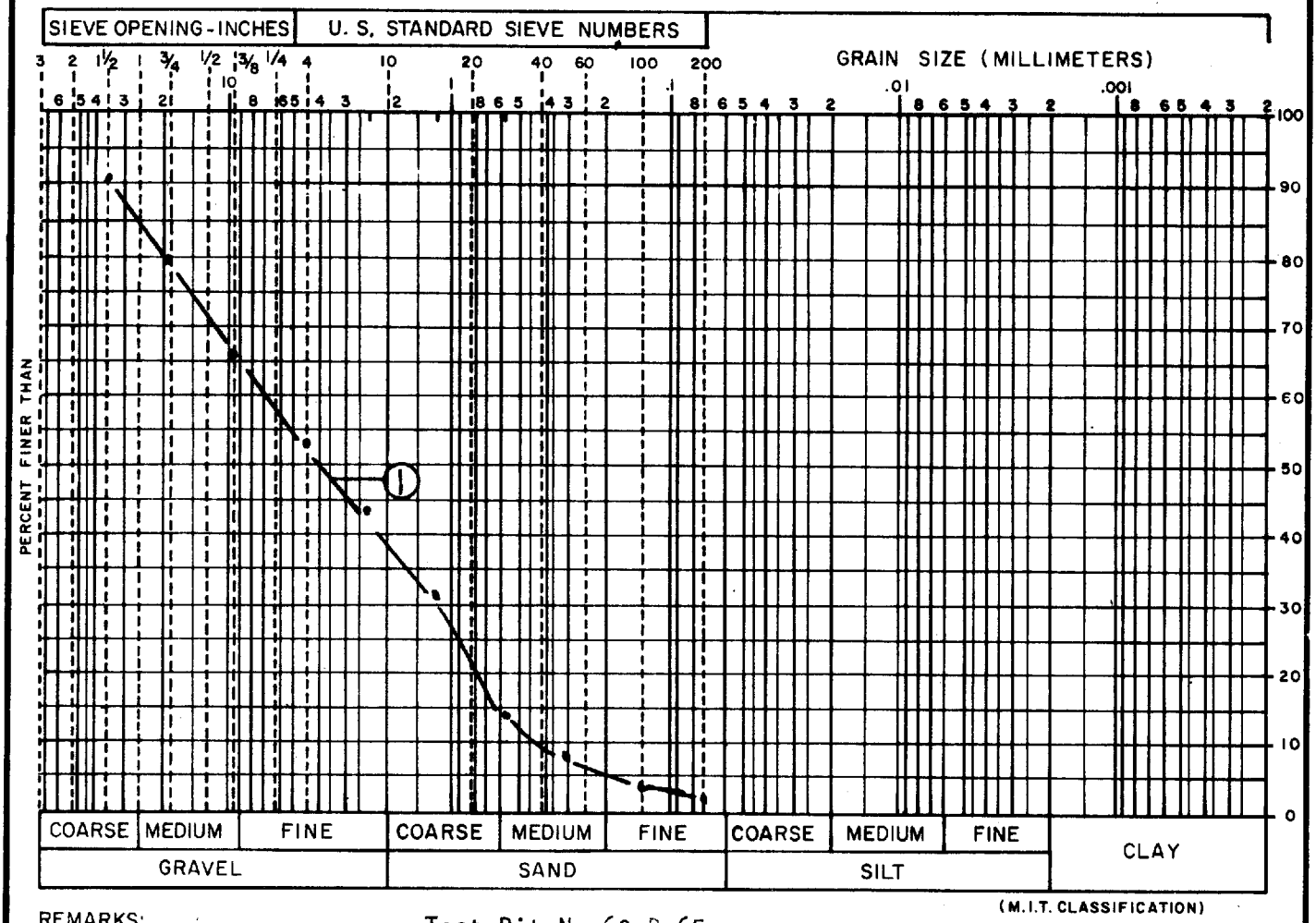
FIGURE NO. 11-72

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-65

Depth:

① 8.0 feet

DATE: August 30, 1962

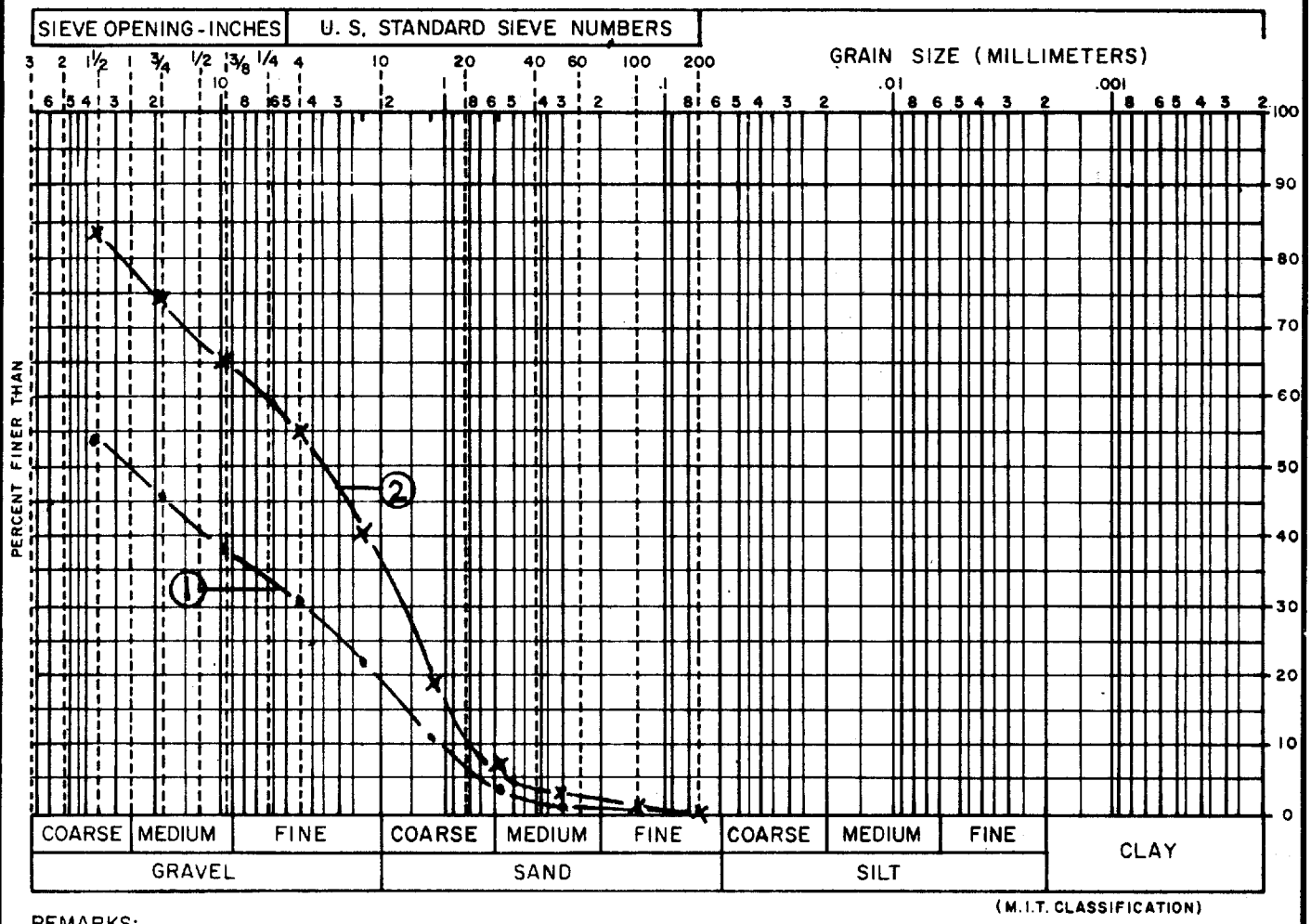
FIGURE NO. II-73

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road -



REMARKS:

Test Pit No 62-R-67

Depth:

① 3.0 feet
② 6.0 feet

DATE: August 30, 1962

TT-FORM Nº4

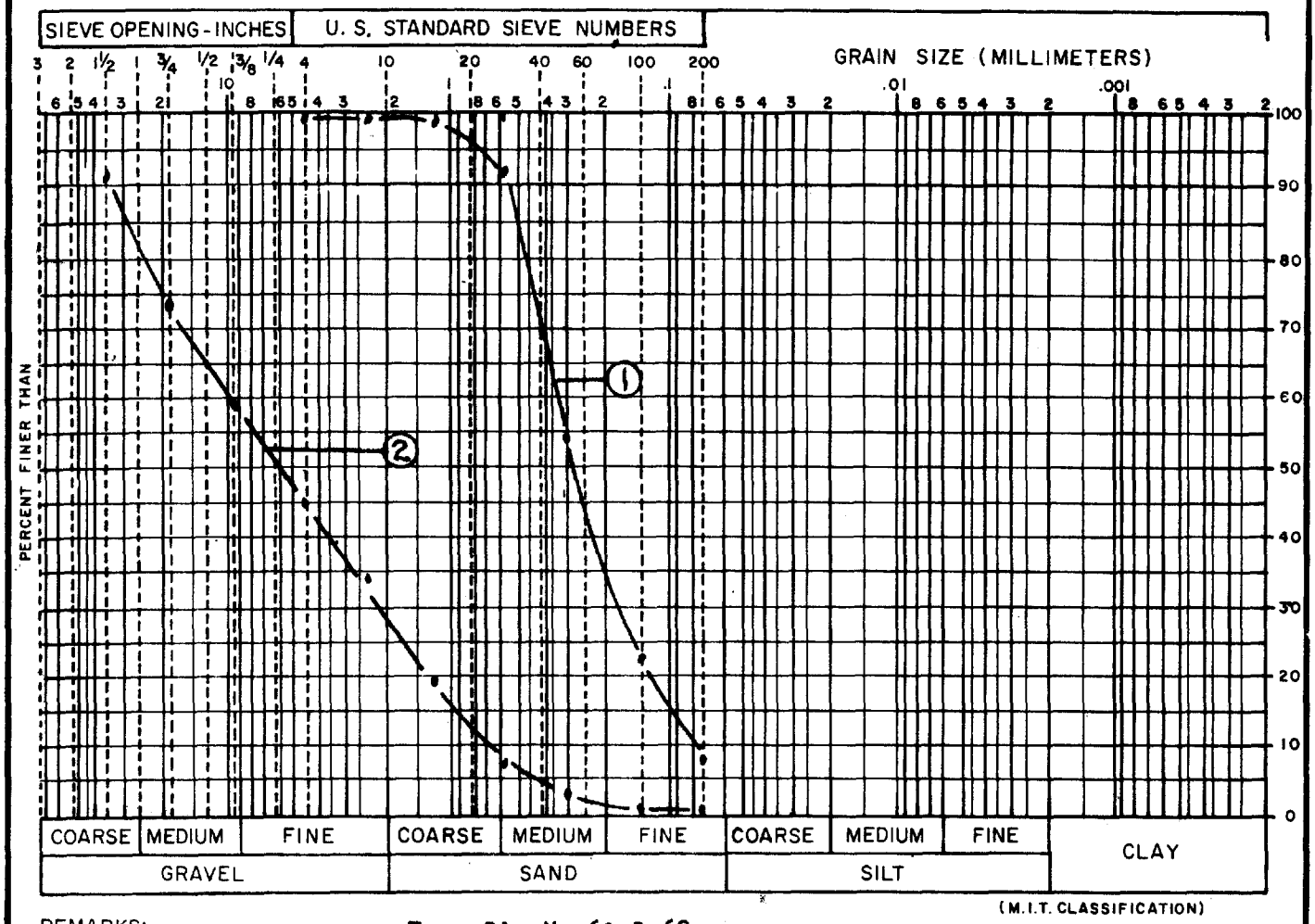
FIGURE NO: 11-74

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-68

Depth:

① 2.5 feet

② 3.5 feet

DATE: August 30, 1962

TT-FORM №4

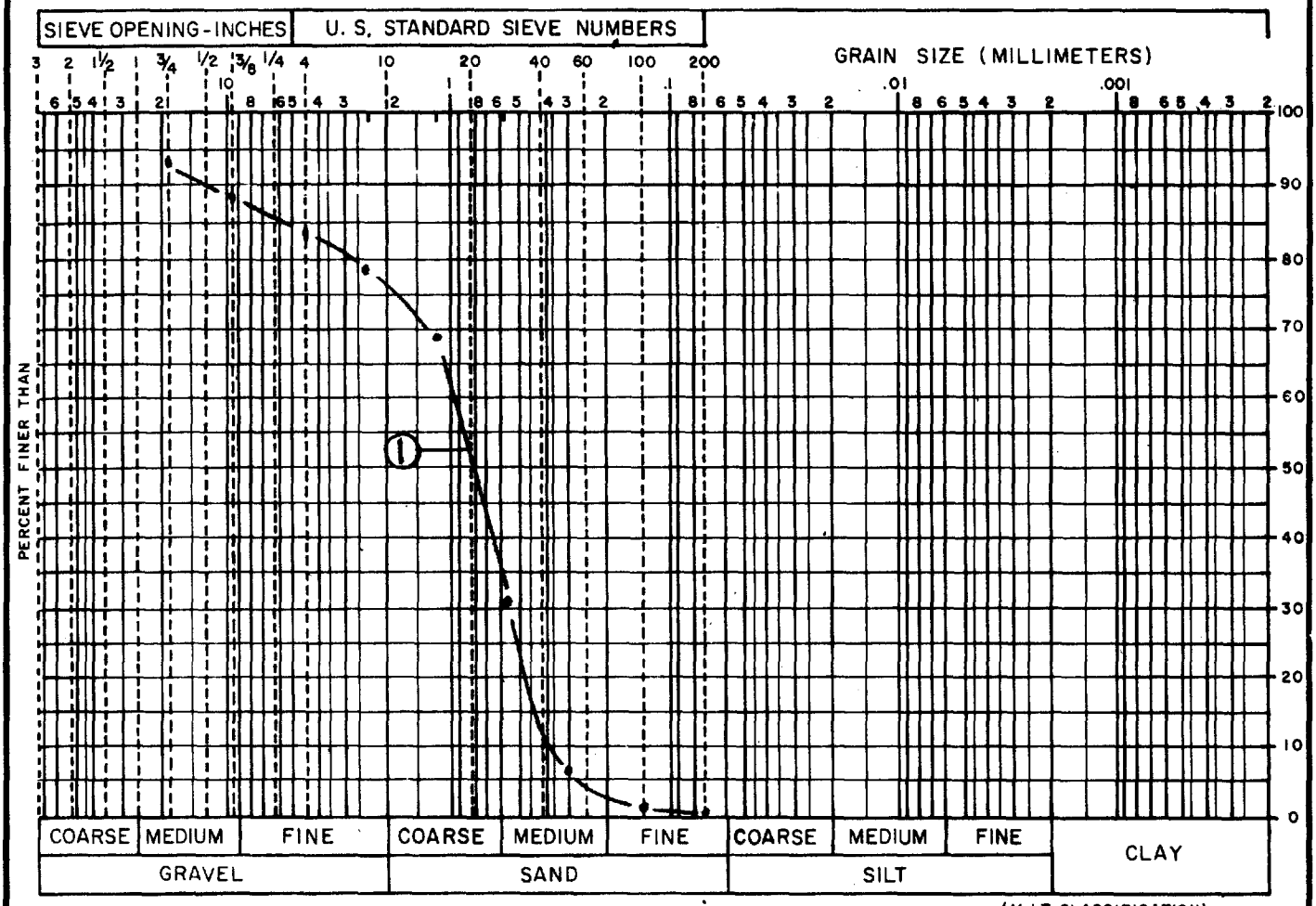
FIGURE NO: 11-75

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Hill - (TT-35-62)



REMARKS: Test Pit No 62-R-69

Depth:

① 4.0 feet

DATE August 30, 1962

TT-FORM No 4

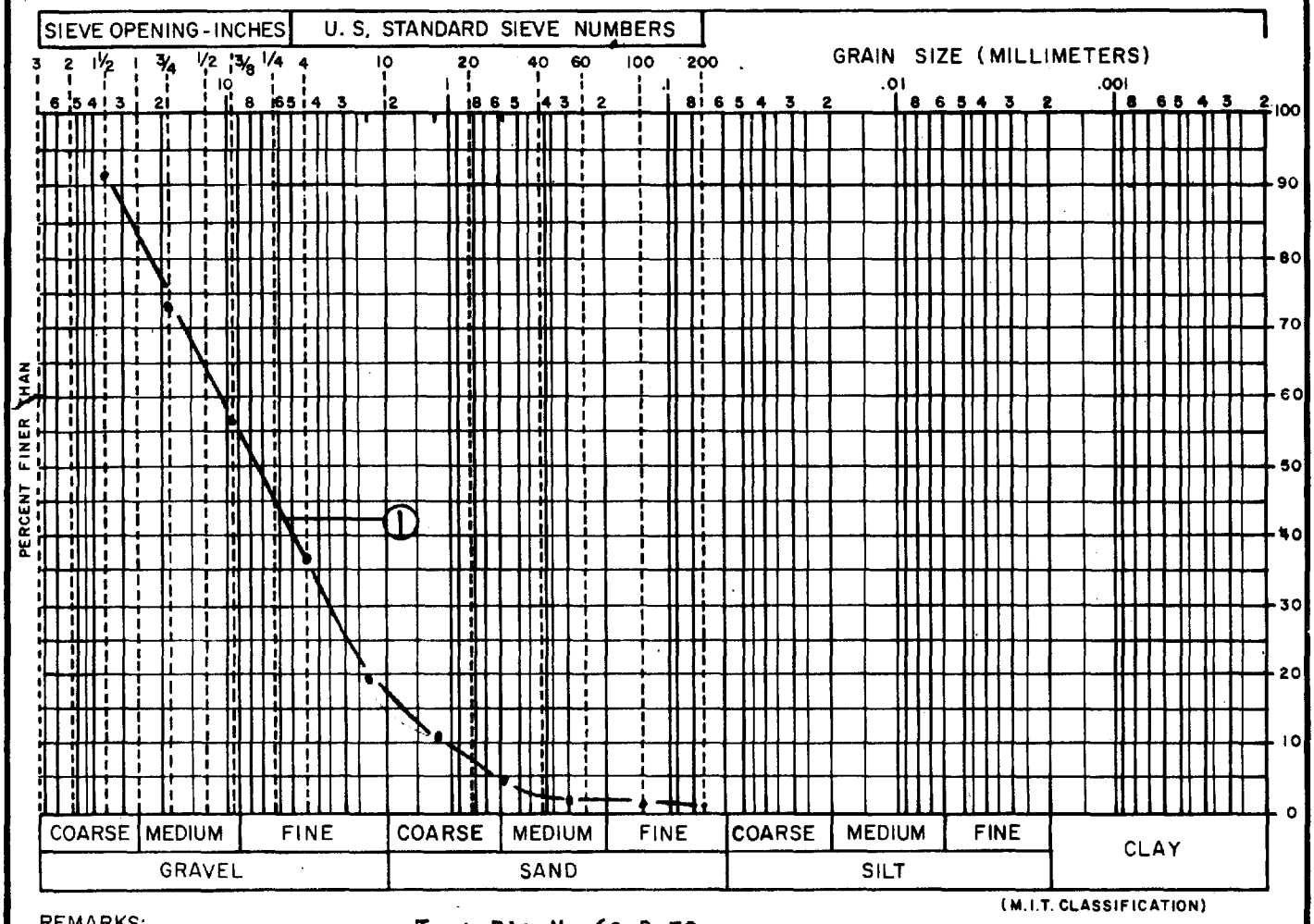
FIGURE NO: 11-76

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-70

Depth:

① 5.0 feet

DATE August 30, 1962

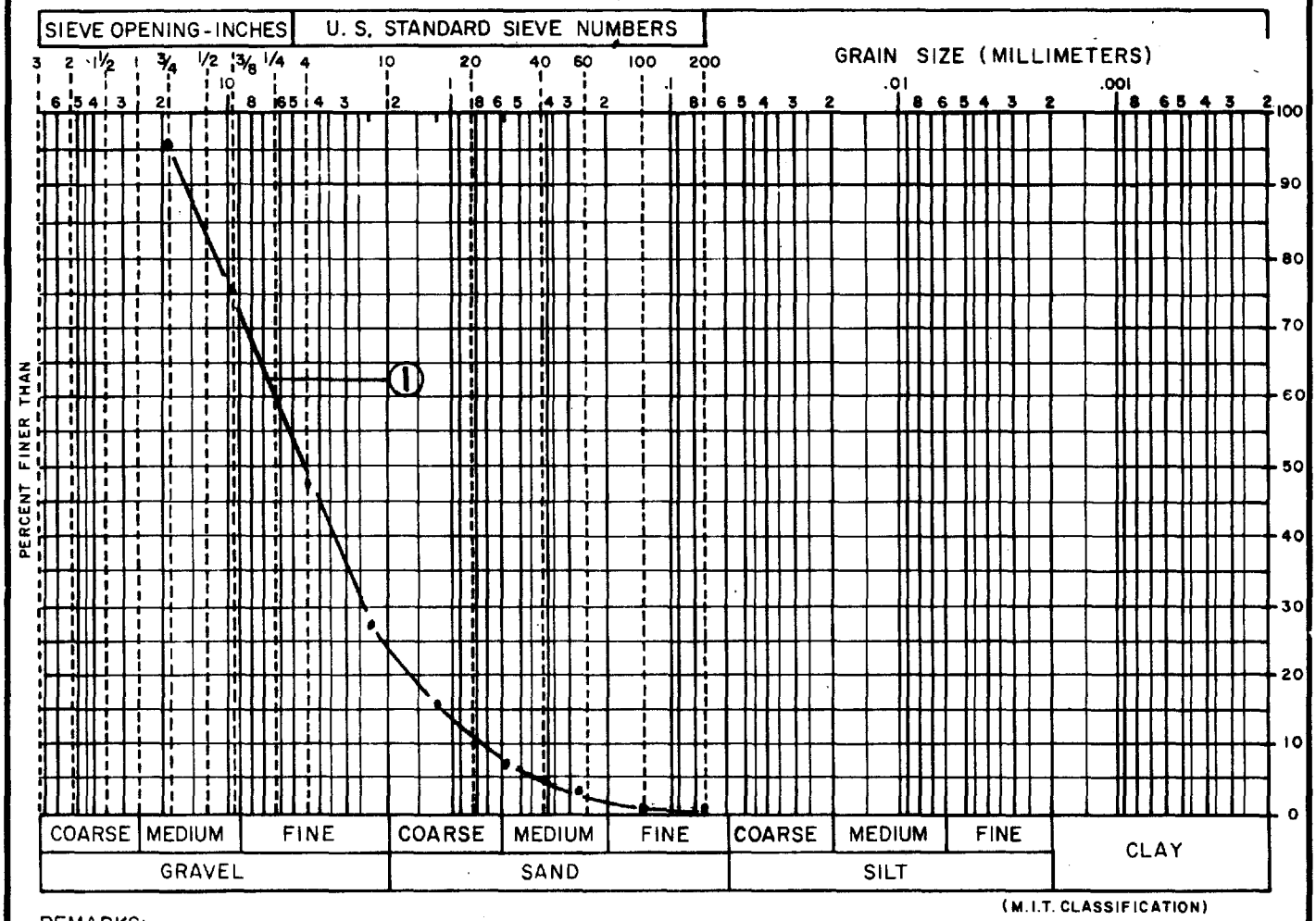
FIGURE NO: II-77

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-71

Depth:

① 1.0 to 5.0 feet

DATE: August 31, 1962

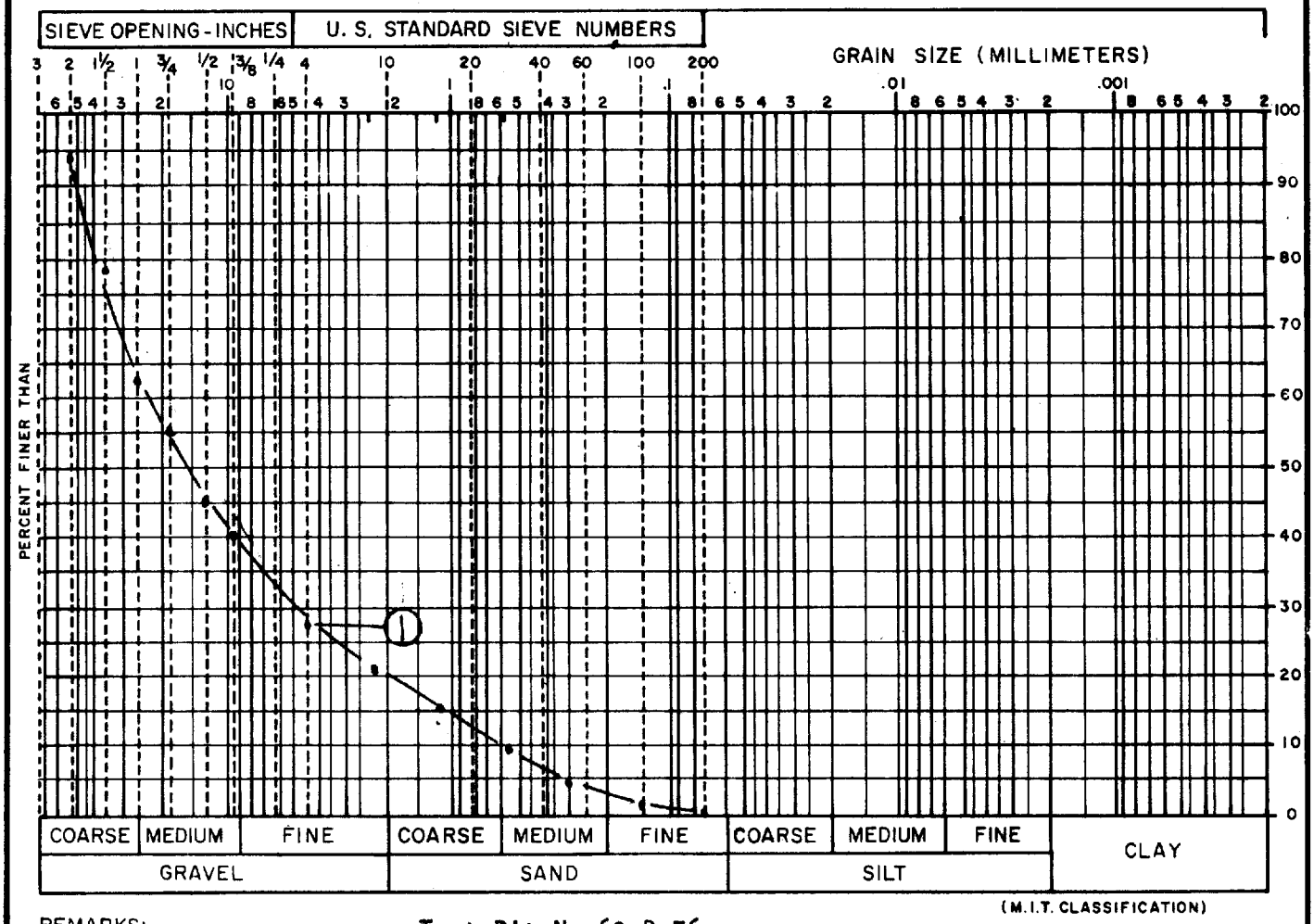
FIGURE NO: 11-78

TERRATECH LTD.

1440 ST CATHERINE ST WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-76

Depth:

① 4.0 feet

DATE: August 31, 1962

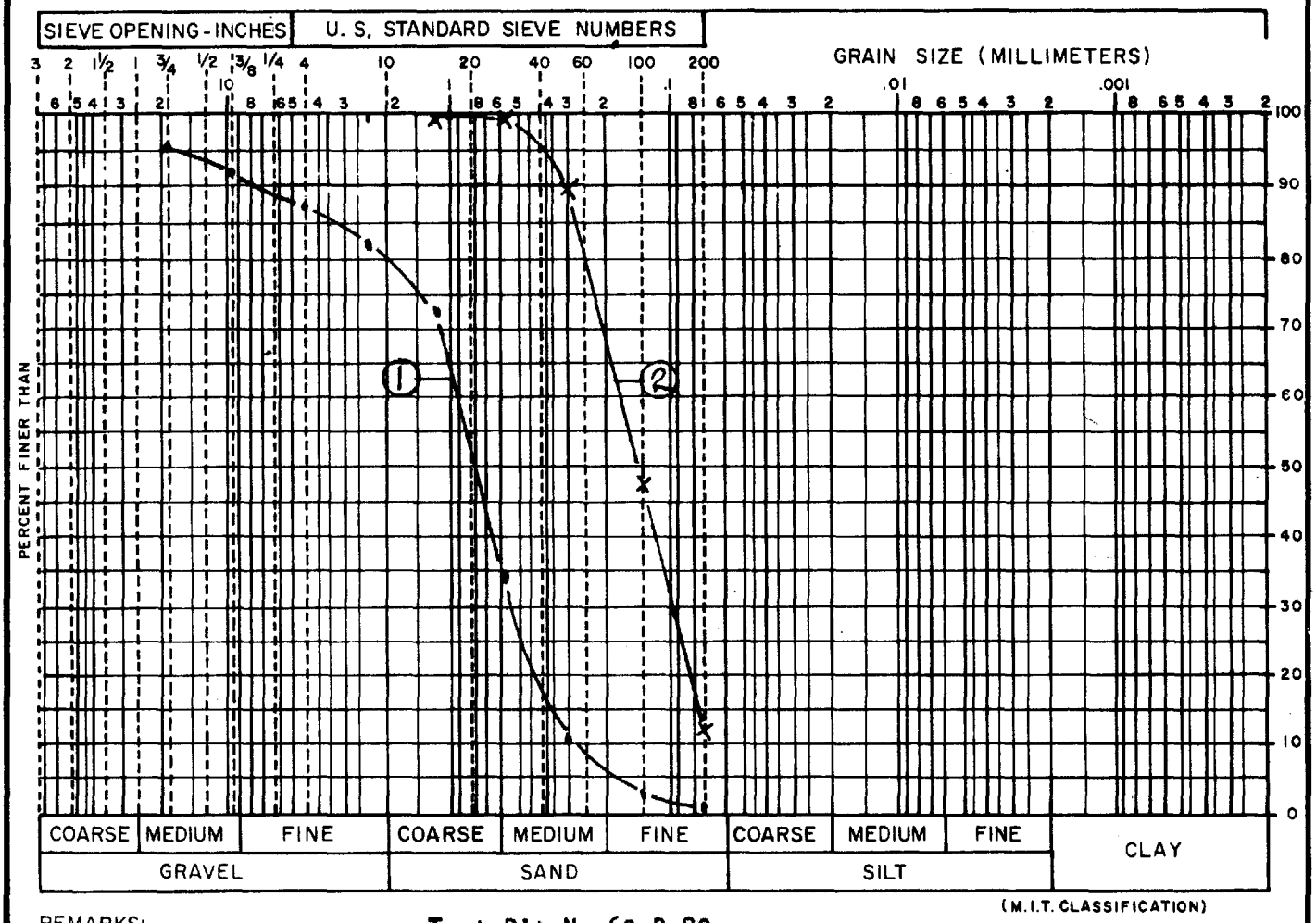
FIGURE NO. 11-79

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-80

Depth:

① 2.5 feet
② 4.0 feet

DATE: August 31, 1962

TT-FORM Nº4

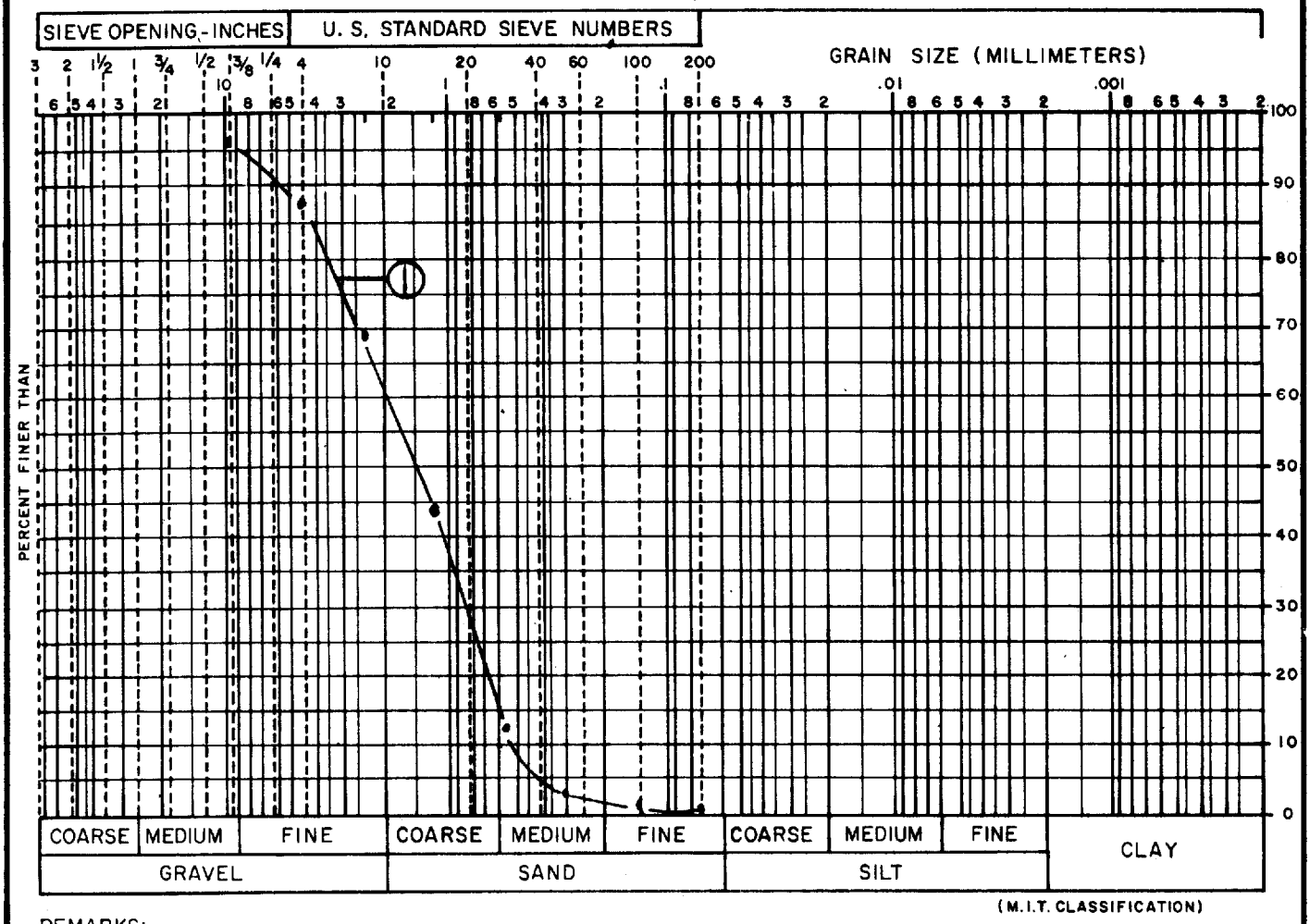
FIGURE NO: II-80

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-82

Depth:

① 4.0 feet

DATE: August 31, 1962

TT-FORM No 4

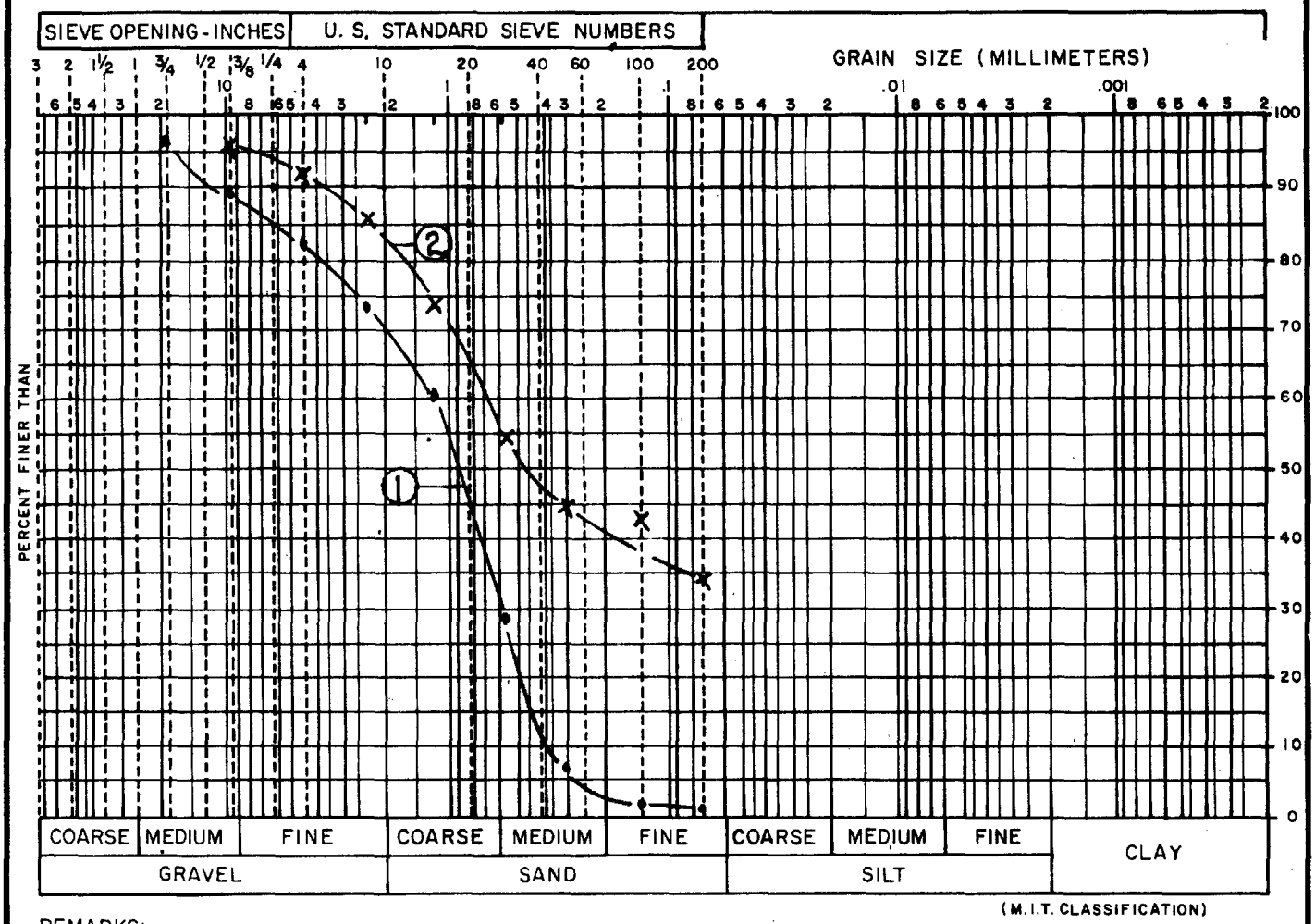
FIGURE NO. 11-81

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-84

Depth:

① 5.0 feet
② 14.0 feet

DATE: August 31, 1962

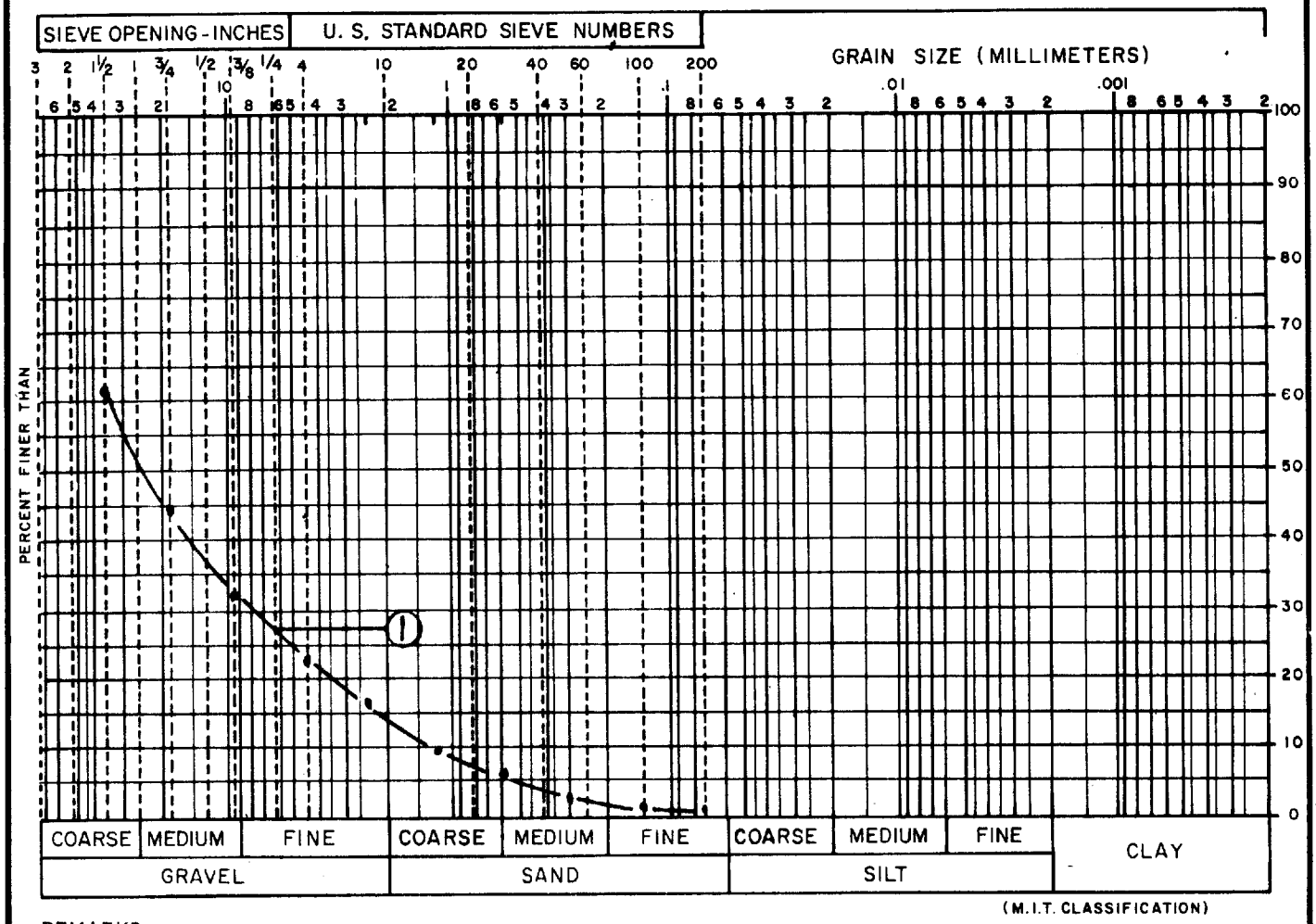
FIGURE NO: 11-82

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-86

Depth:

① 4.0 feet

DATE: August 31, 1962

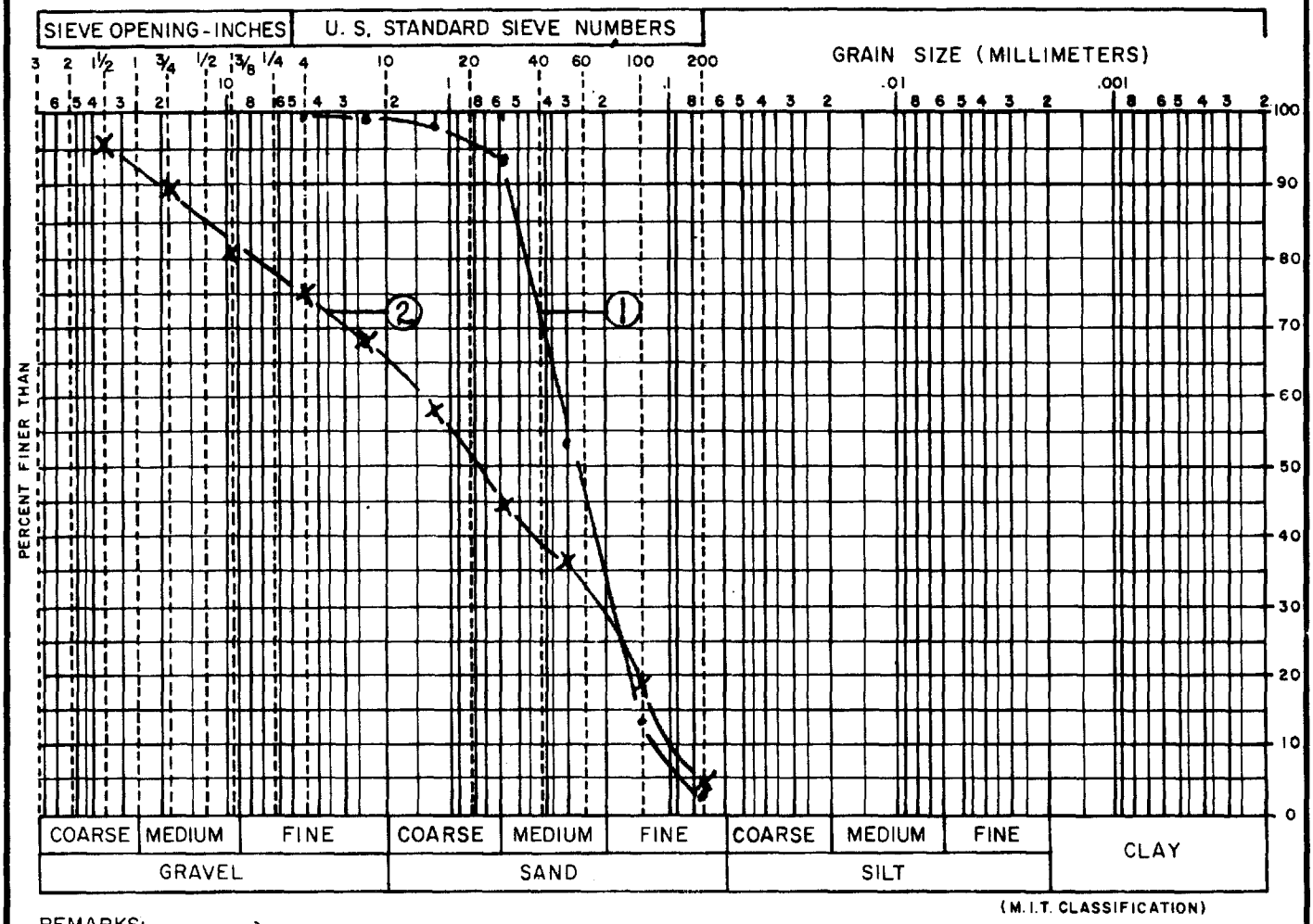
FIGURE NO. II-83

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

Test Pit No 62-R-87

Depth:

① 3.0 feet
② 6.0 feet

DATE: August 31, 1962

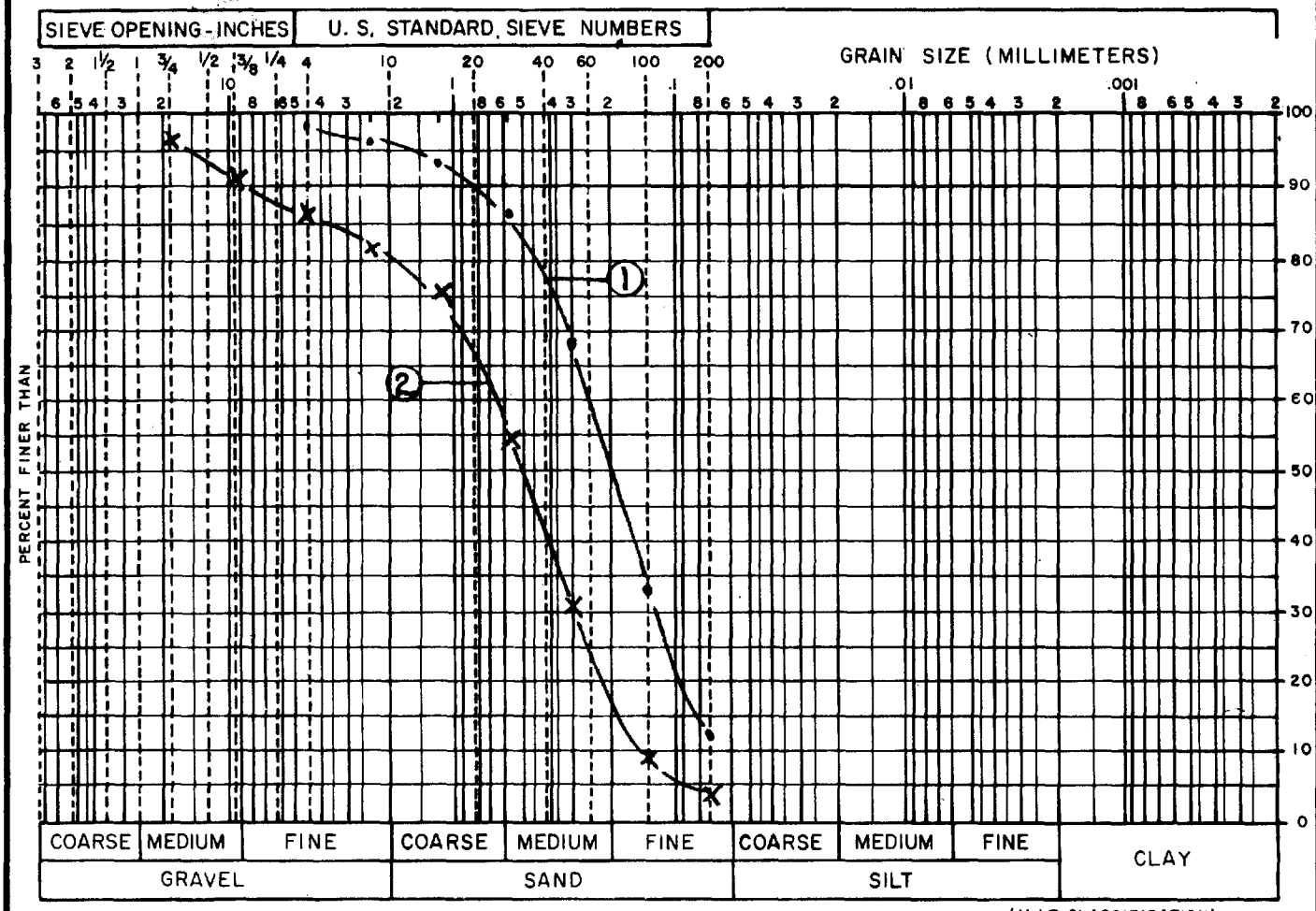
FIGURE NO. 11-84

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS: Test Pit No 62-R-88

Depth:

① 3.0 feet
② 5.0 feet

DATE August 31, 1962

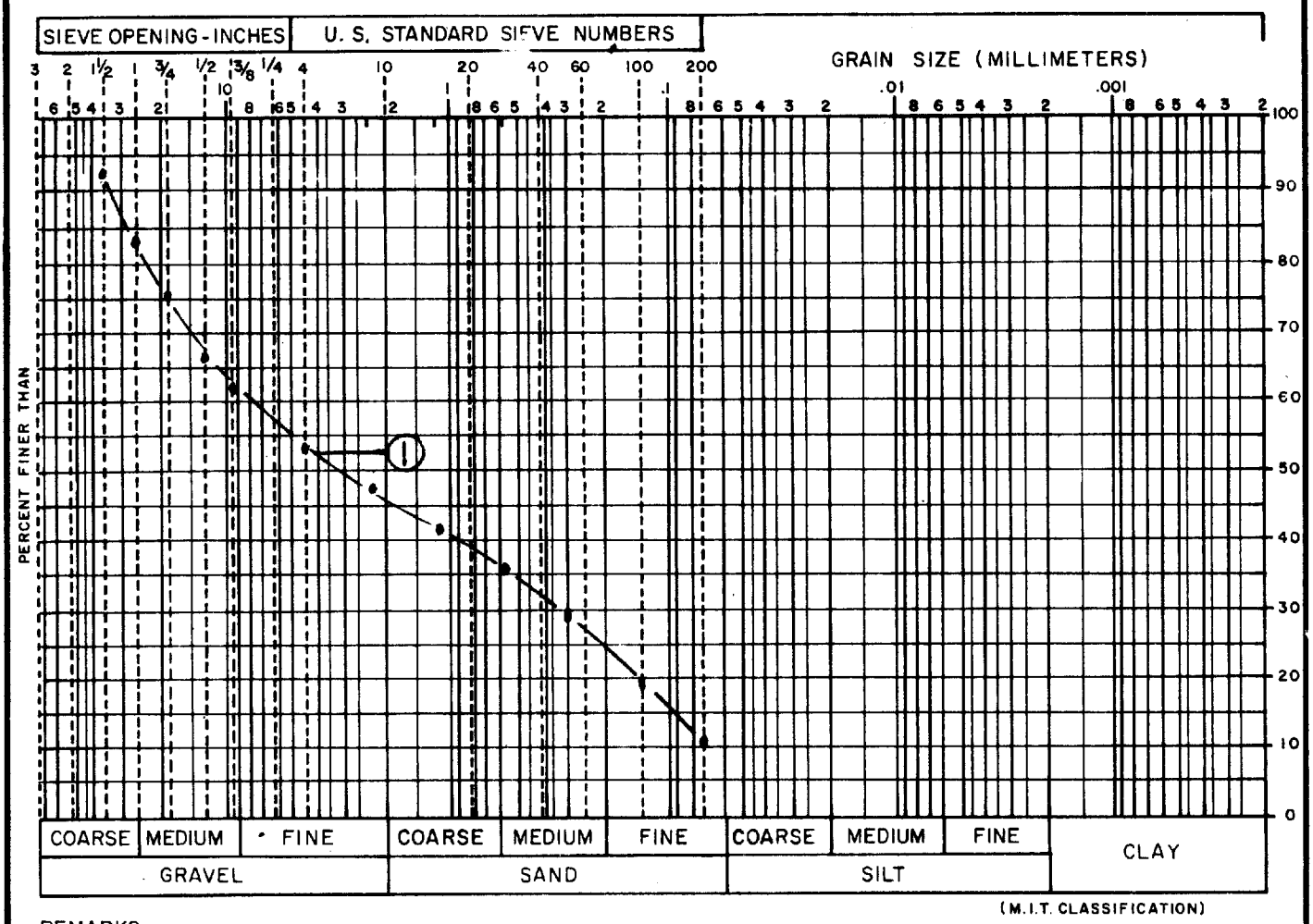
FIGURE NO: II-85

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



(M.I.T. CLASSIFICATION)

REMARKS:

TEST PIT No 62-R-91

DATE:

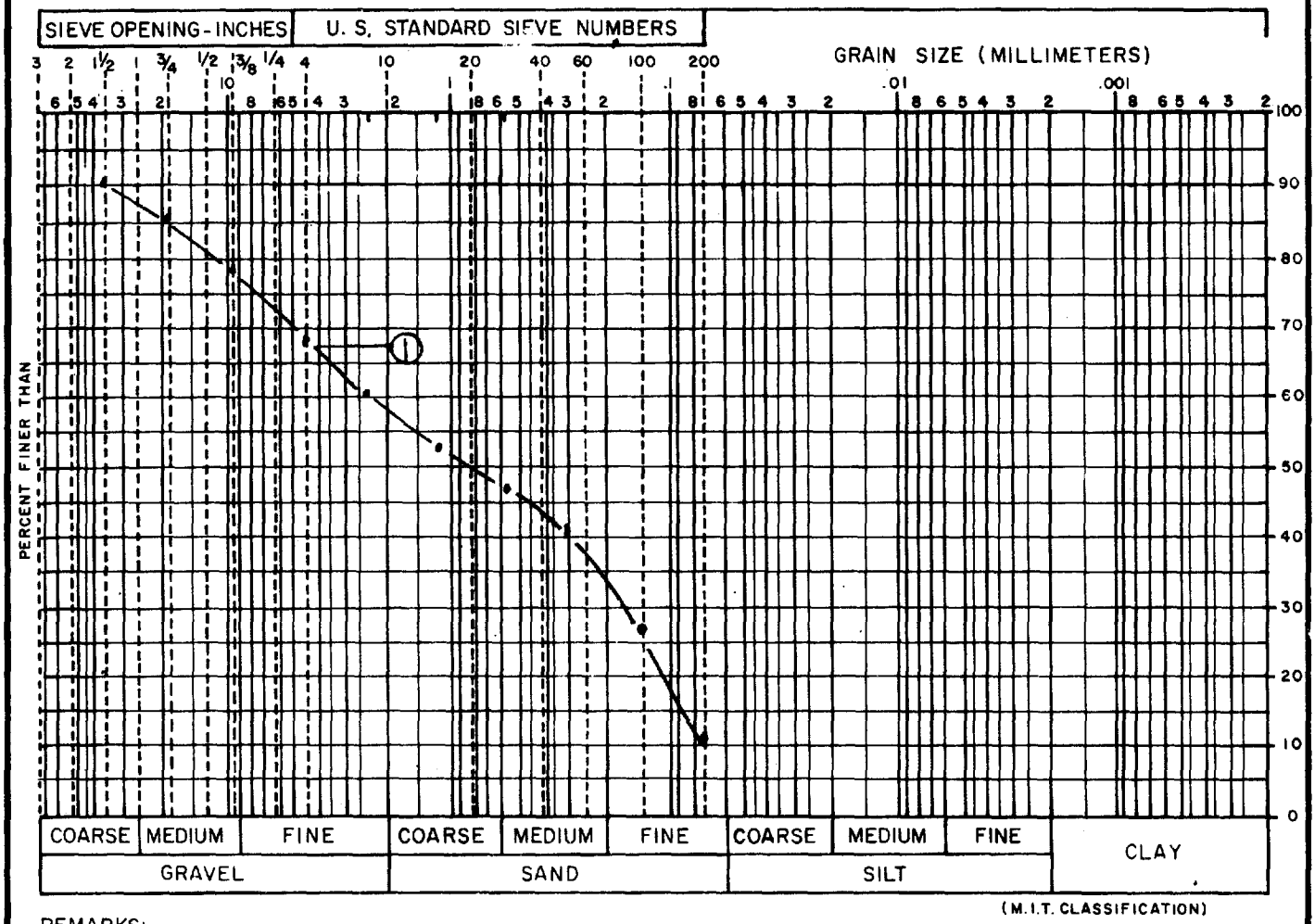
FIGURE NO: TT-86

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - (Proposed Road) - (TT-35-62)



REMARKS:

TEST PIT No 62-R-92

DATE:

TT-FORM Nº4

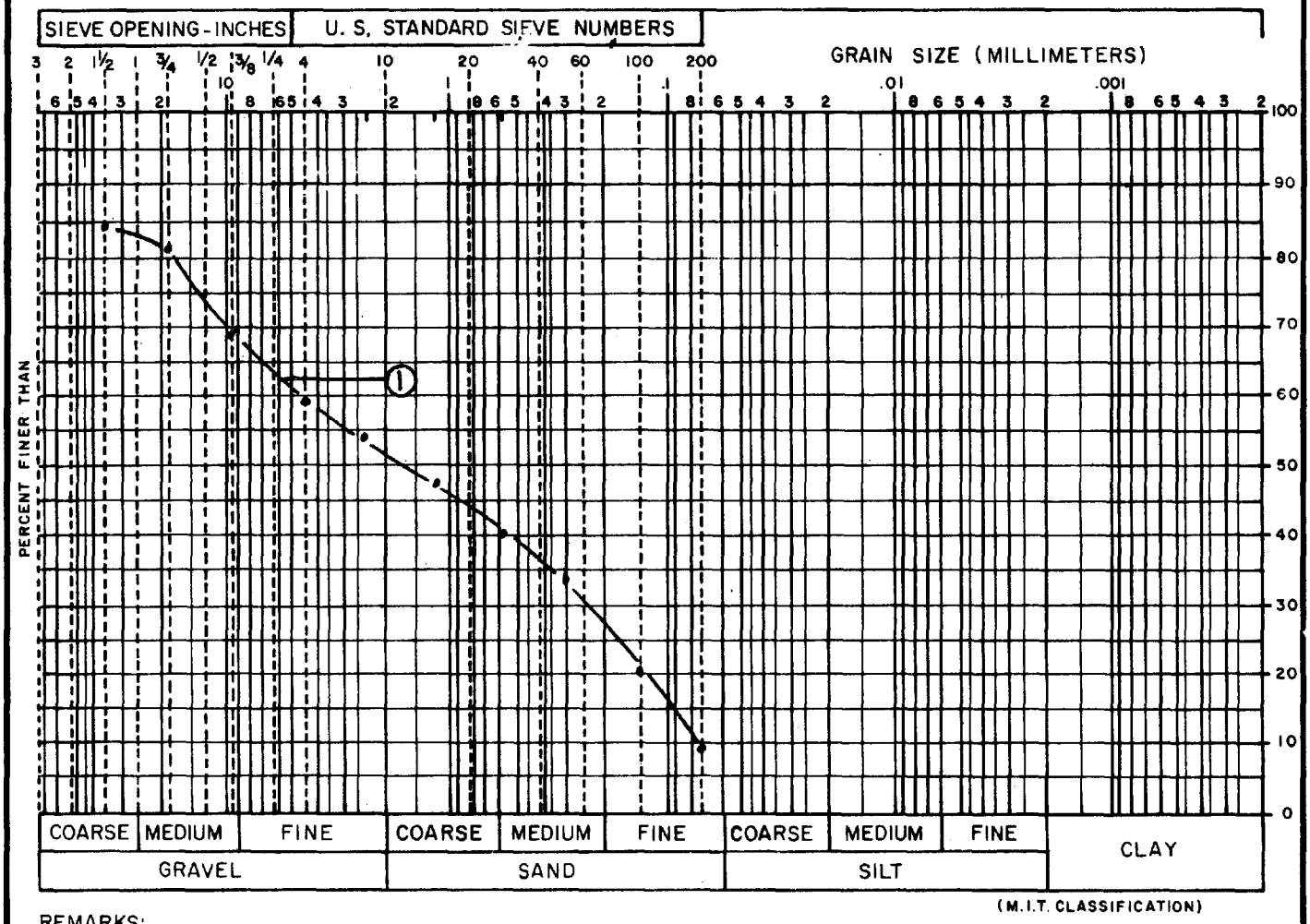
FIGURE NO. 11-87

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



(M.I.T. CLASSIFICATION)

REMARKS:

TEST PIT No 62-R-93

DATE:

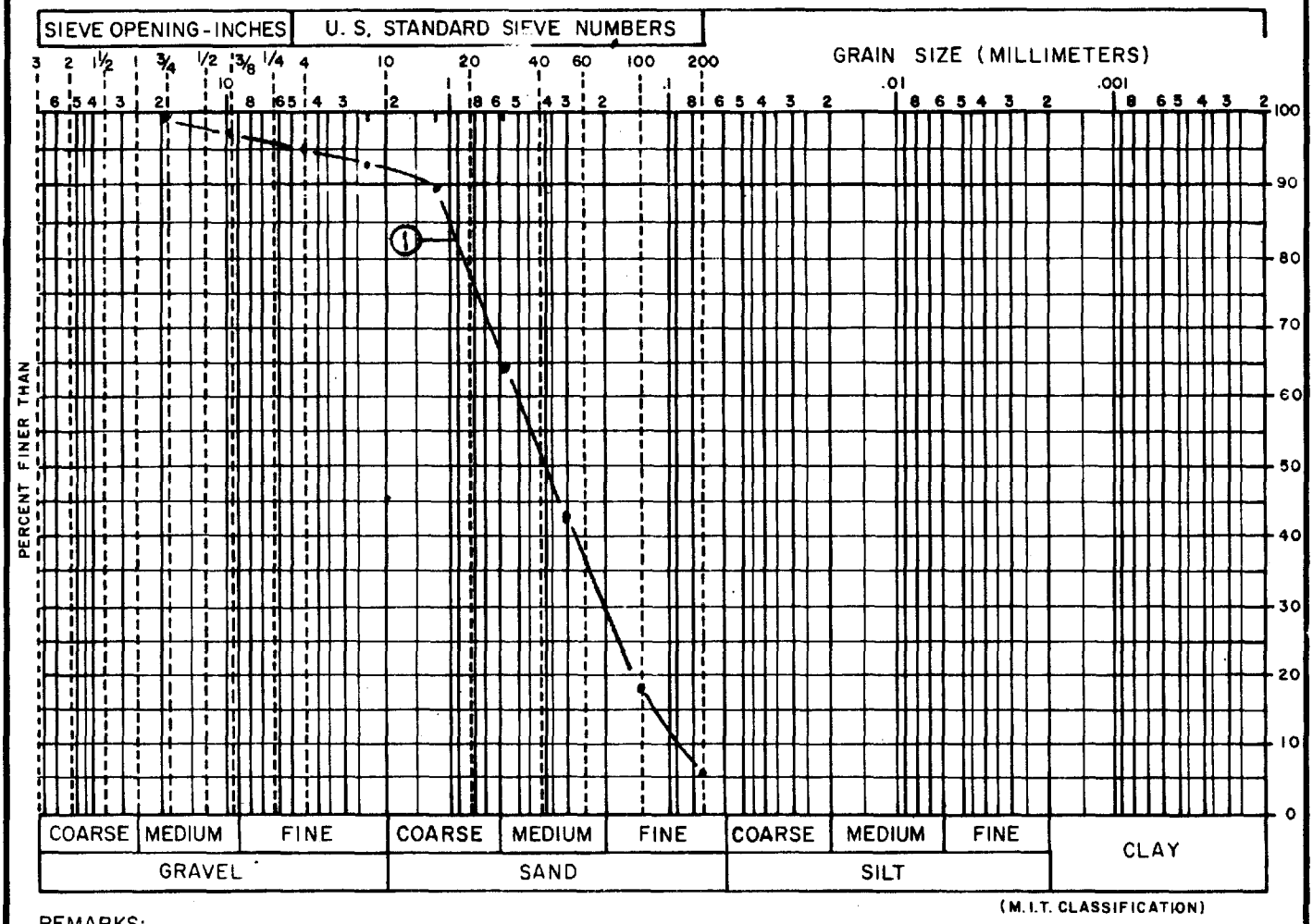
FIGURE NO. 11-88

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project (TT-35-62) Proposed Road



(M.I.T. CLASSIFICATION)

REMARKS:

TEST PIT No 62-R-94

Depth

5.0 feet

DATE:

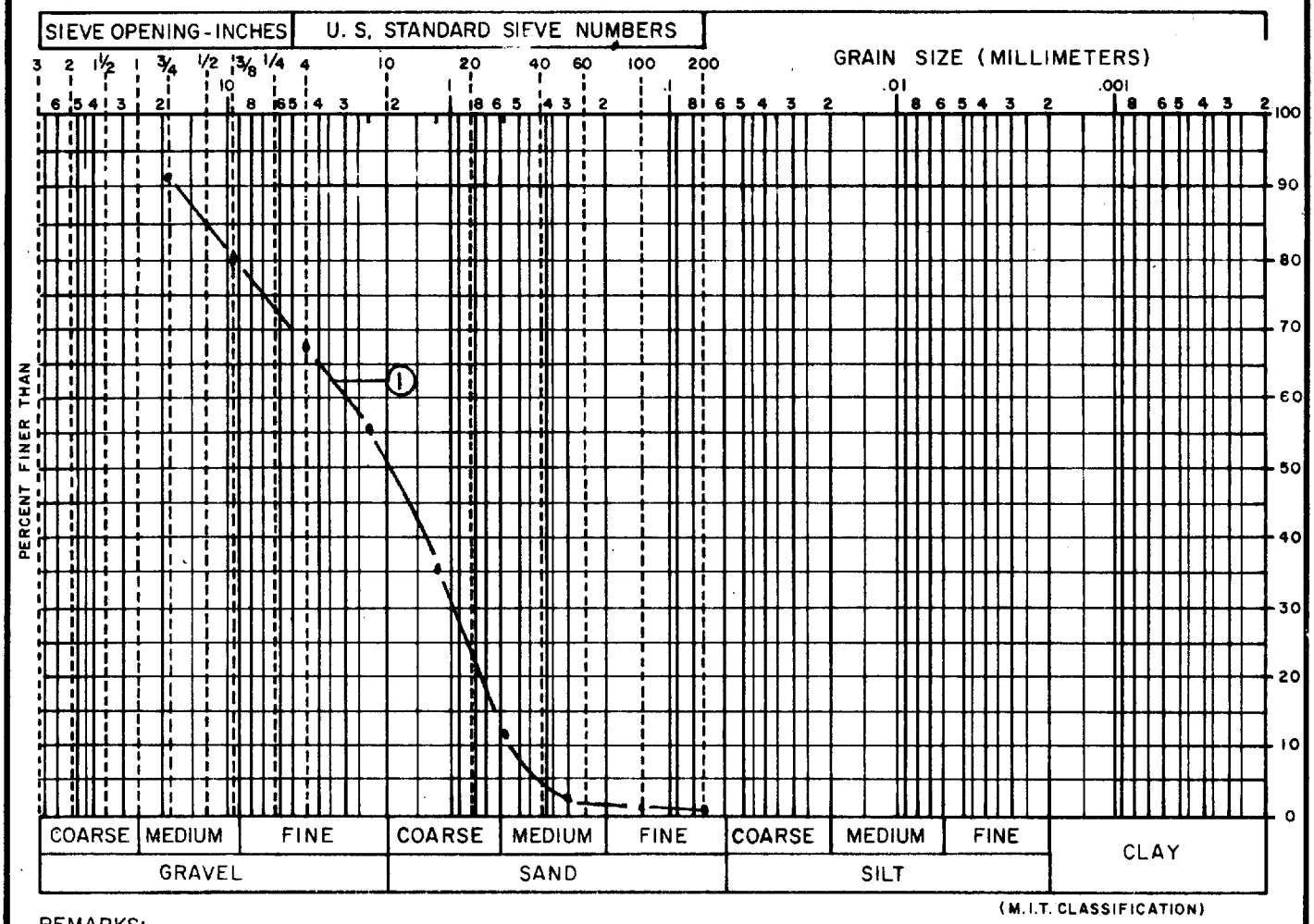
FIGURE NO: II-89

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT: Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

TEST PIT No 62-R-95

Depth

4.0 feet

DATE:

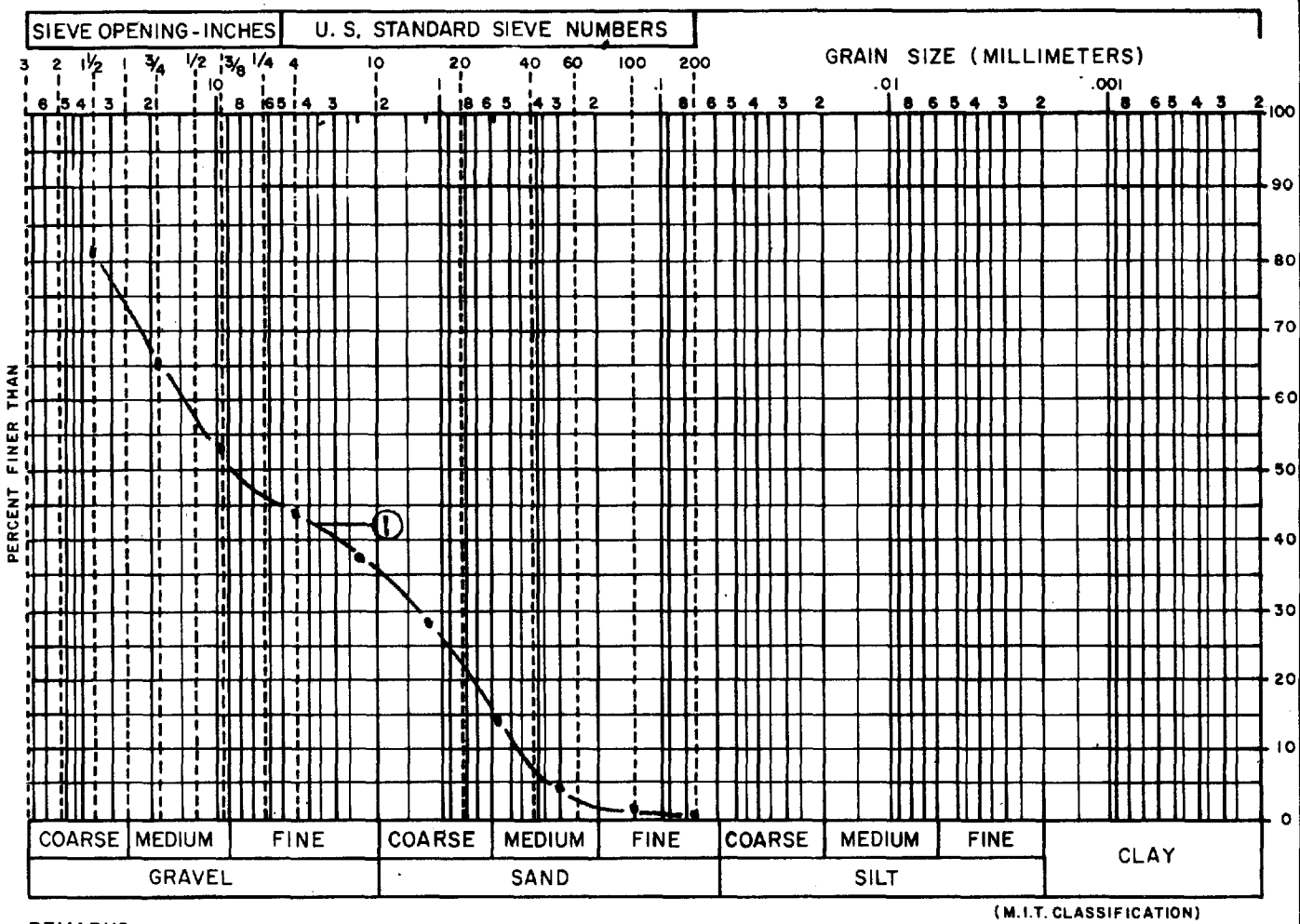
FIGURE NO: 11-30

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

TEST PIT No 62-R-96

DATE:

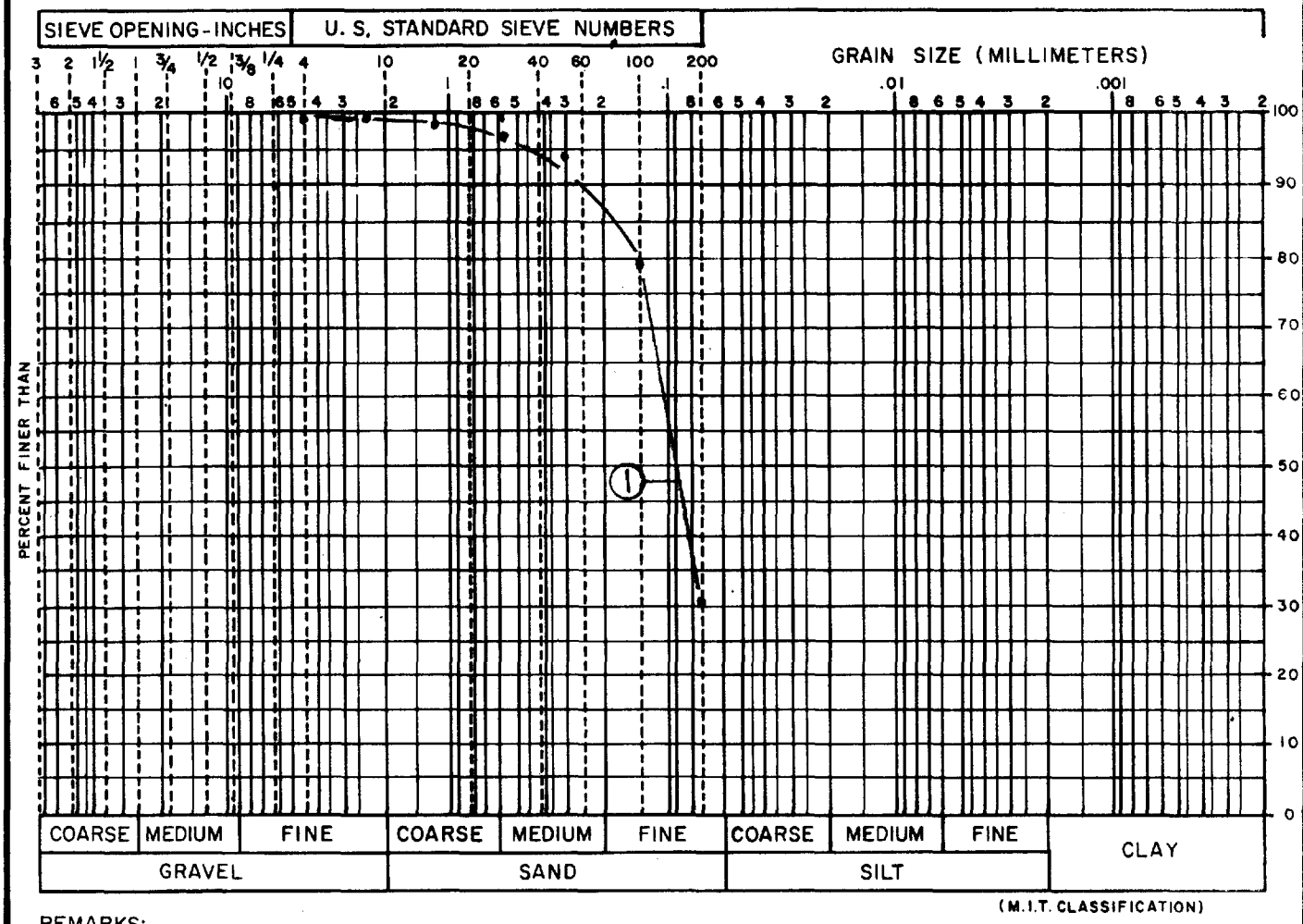
FIGURE NO. 11-91

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

DECEPTION RIVER MOUTH

Depth: 20 feet

DATE:

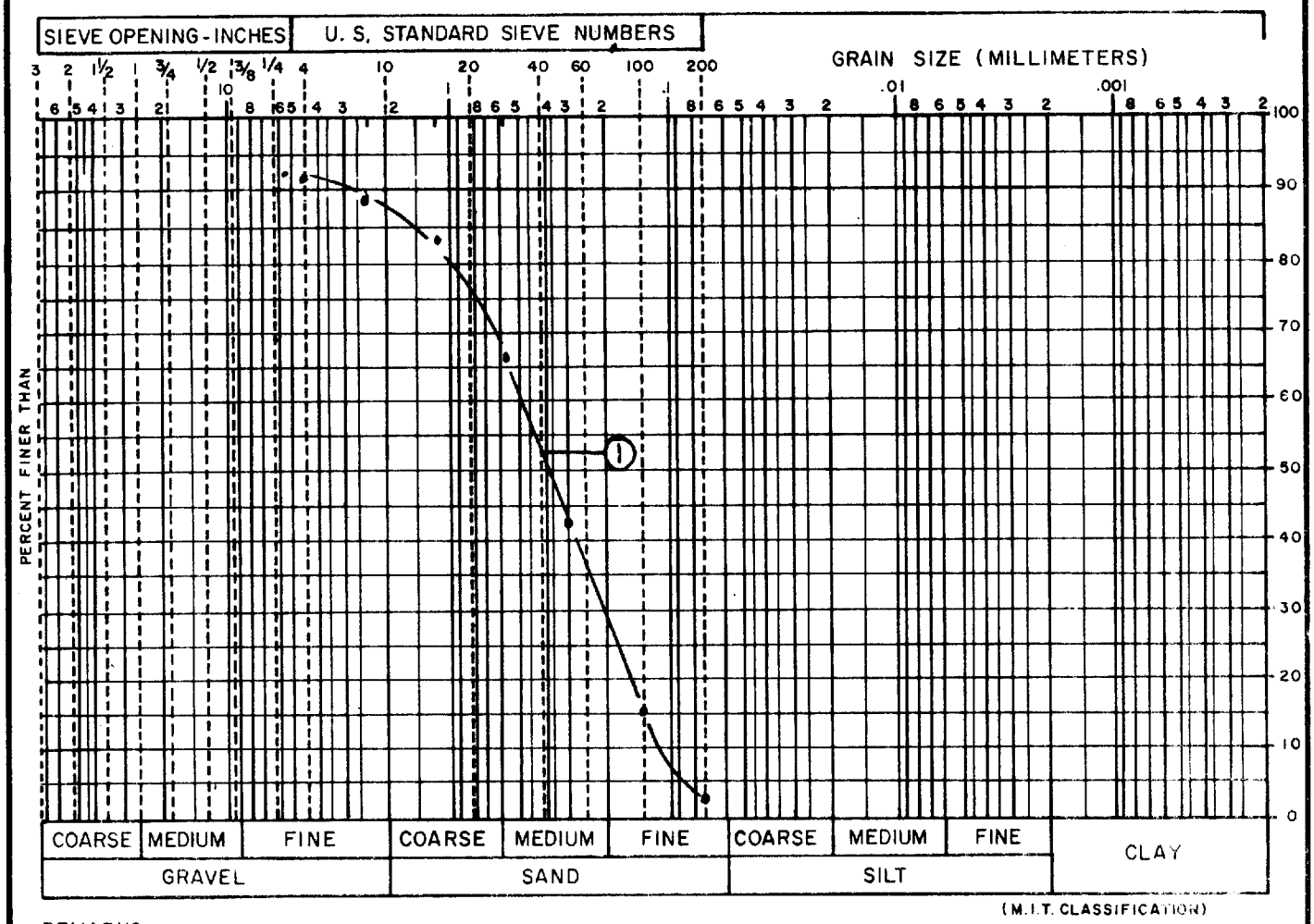
FIGURE NO. 11-92

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

SAMPLE TAKEN BETWEEN 62-R-12 and 62-R-13

Depth: 1.0 feet.

DATE:

TT-FORM No. 4

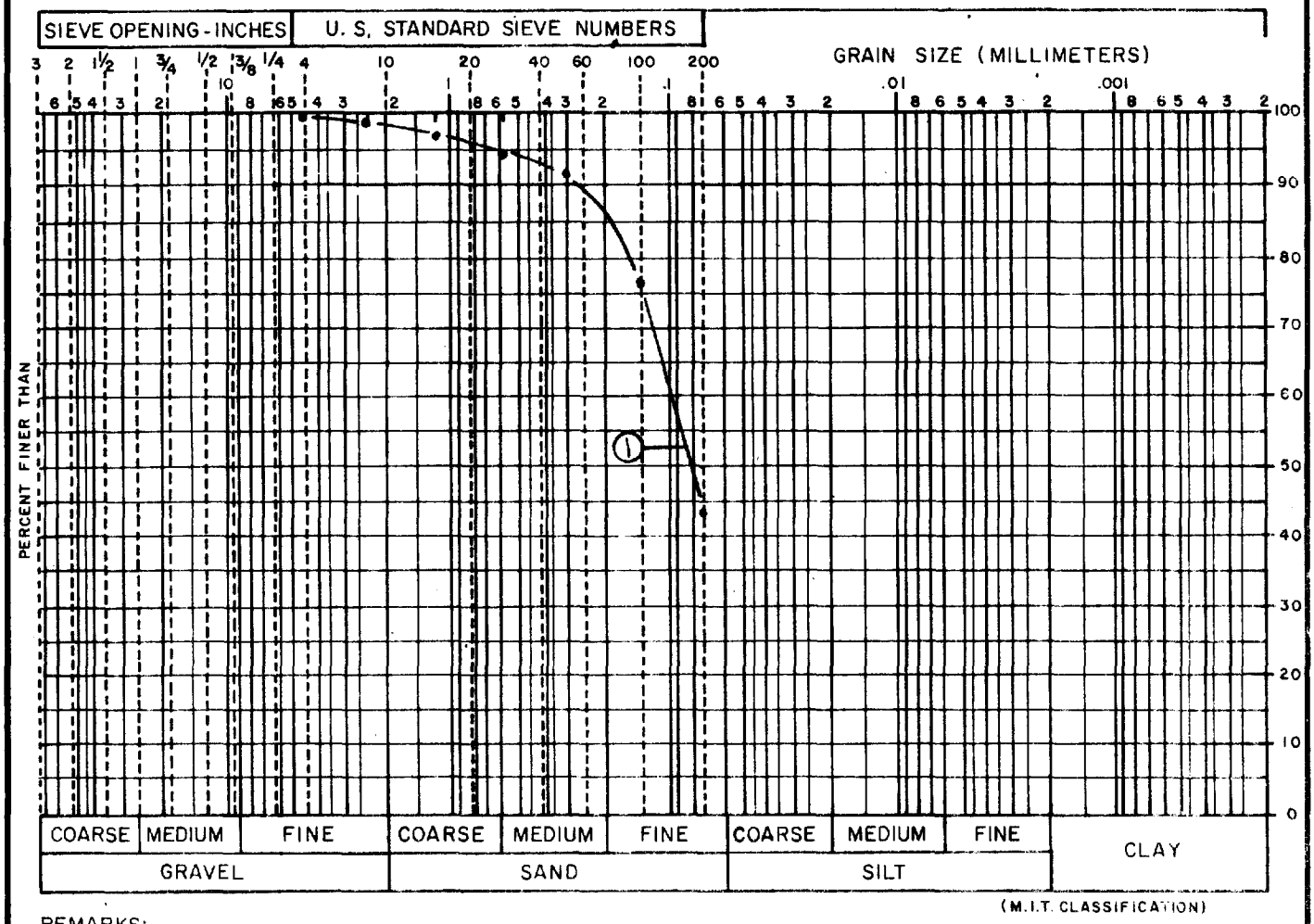
FIGURE NO. 11-93

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

SAMPLE TAKEN 300 FEET WEST OF 62-RD-5

DATE:

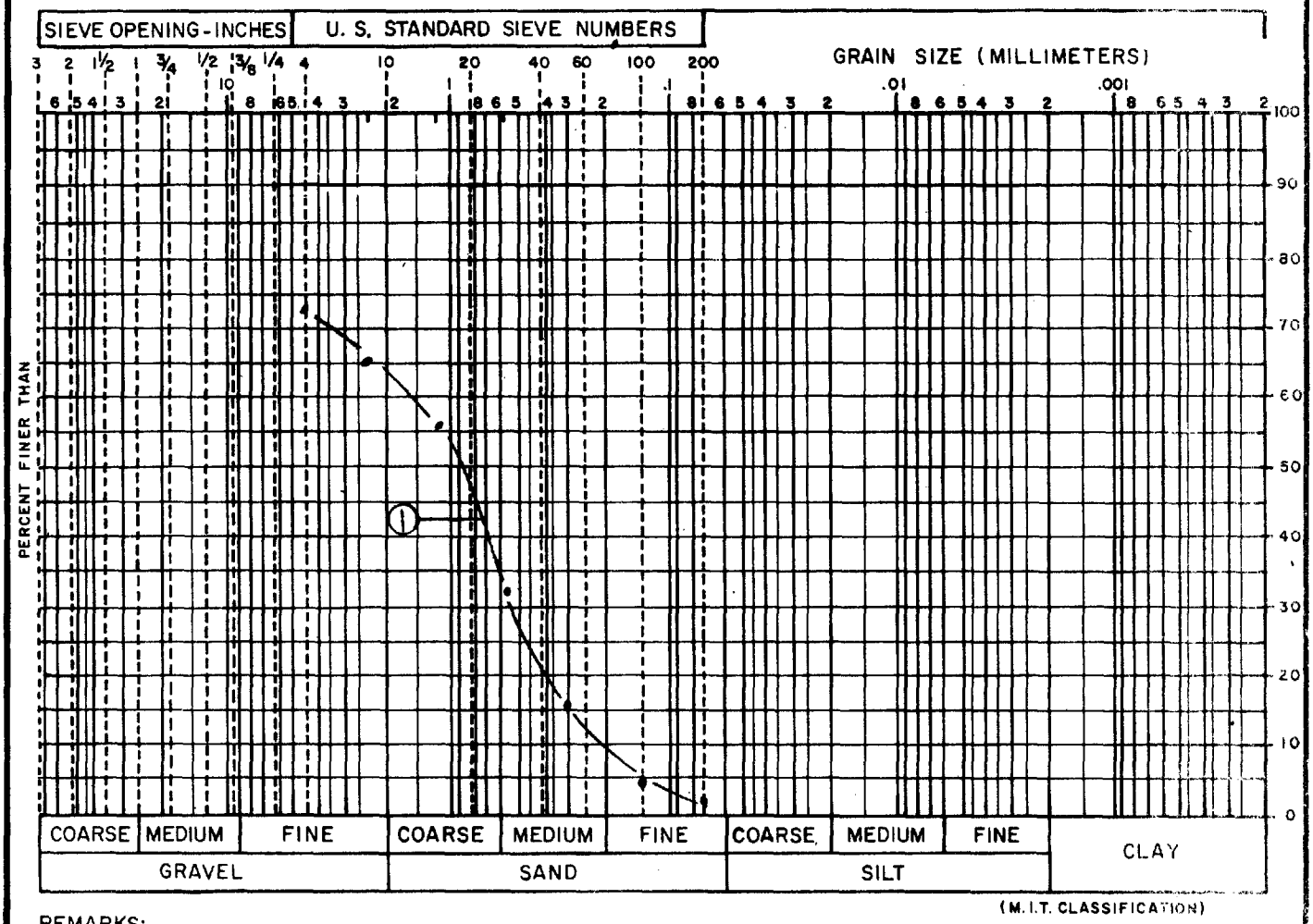
FIGURE NO. II-84

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road - (TT-35-62)



REMARKS:

SAMPLE TAKEN 750 FEET SOUTH OF 62-RD-10

DATE:

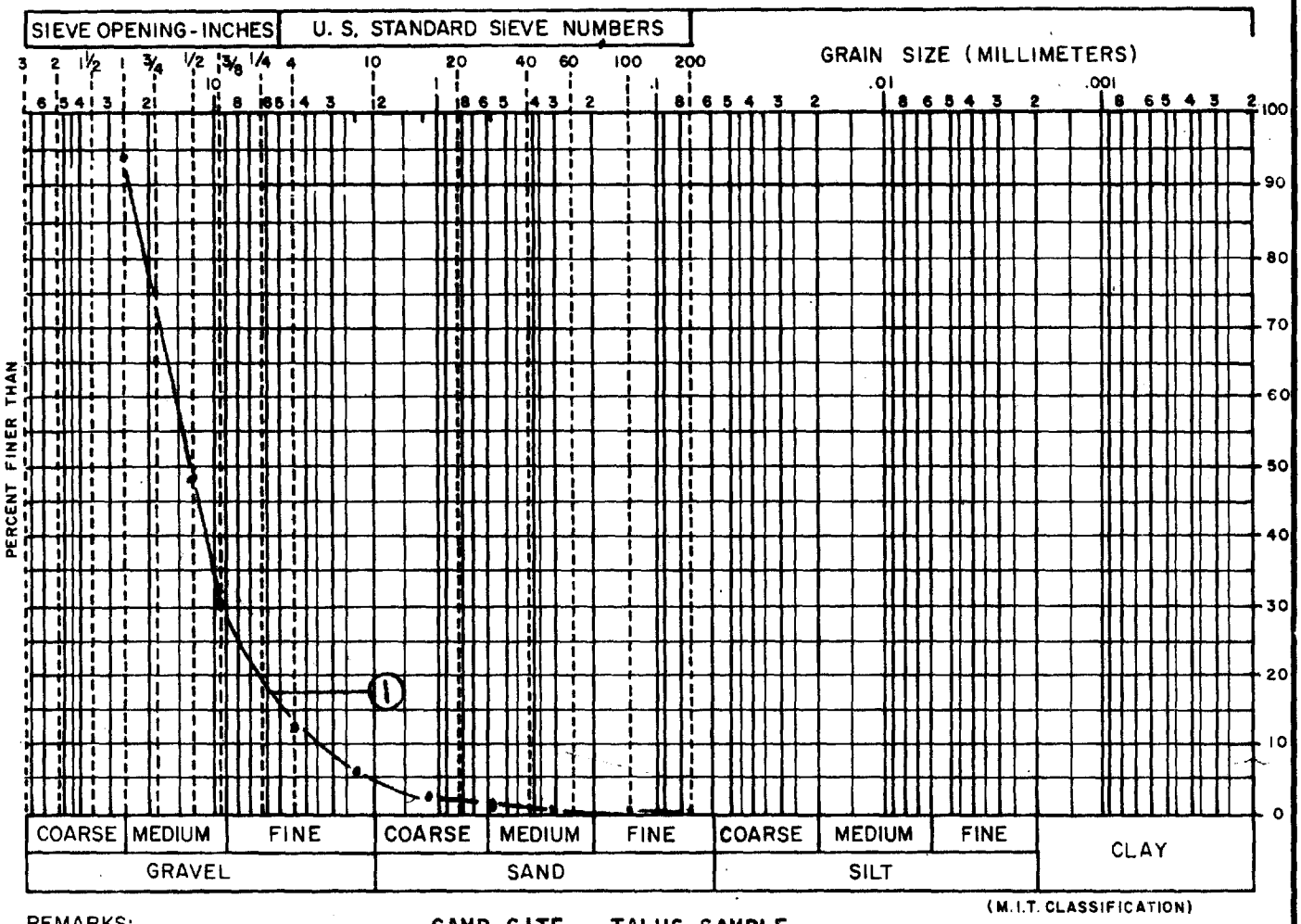
FIGURE NO: II-95

TERRATECH LTD.

1440 ST. CATHERINE ST. WEST, MONTREAL, QUE.

GRAIN-SIZE DISTRIBUTION

PROJECT Asbestos Hill Project - Proposed Road (TT-35-62)



REMARKS: CAMP SITE - TALUS SAMPLE

Depth:

2.5 feet

DATE:

APPENDIX III

Water Content Test Results

TERRATECH LTD.

WATER CONTENT TESTS.

Test Pit No	Depth (feet)	Water Content (%)
62-R-1	1	35.8
62-R-1	2	21.2
62-R-1	3	20.5
62-R-1	4	24.5
62-R-1	4.5	20.6
62-R-1	5.0	21.2
62-R-1	5.5	28.1
62-R-2	4	7.9
62-R-2	7	29.0
62-R-2	11	9.8
62-R-2	23	36.2
62-R-2	28	28.6
62-R-3	2	25.2
62-R-3	3	3.8
62-R-3	4	25.2
62-R-3	4.5	18.2
62-R-4	4.5	21.3
62-R-4	5.5	51.6
62-R-4	8	23.3
62-R-4	14	26.5
62-R-4	16	21.5
62-R-5	4.5	11.5
62-R-5	5.0	45.7
62-R-5	8.5	20.3
62-R-5	12.0	29.8
62-R-7	3	18.2
62-R-7	12	18.5
62-R-7	20	18.3
62-R-8	3	21.9
62-R-8	4	11.7
62-R-8	6	16.0
62-R-8	11	25.3
62-R-8	12	22.9
62-R-8	14	62.4
62-R-9	4	19.9
62-R-9	12	21.0
62-R-11	4.5	19.45
62-R-11	8.0	26.70
62-R-11	12.0	27.21
62-R-12	3.5	35.4

TERRATECH LTD.

WATER CONTENT TESTS.

Test Pit No	Depth (feet)	Water Content (%)
62-R-13	3.0	18.1
62-R-15	7.0	18.4
62-R-15	8.5	16.5
62-R-15	9.5	3.0
62-R-15	18.0	18.5
62-R-16	6.0	16.5
62-R-16	7.0	10.7
62-R-17	3.0	20.2
62-R-34	1.4	34.00
62-R-34	6.5	18.65
62-R-34	7.5	24.7
62-R-34	8.5	21.8
62-R-35	5.0	20.4
62-R-35	6.0	20.9
62-R-36	6.0	24.5
62-R-36	8.0	28.5
62-R-37	1.5	31.1
62-R-37	3.0	30.8
62-R-37	3.5	19.1
62-R-38	5.0	19.8
62-R-38	8.0	18.0
62-R-40	8.0	20.8
62-R-40	9.0	21.2
62-R-43	3.0	11.2
62-R-43	3.5	9.9
62-R-43	4.0	12.4
62-R-45	3.5	29.4
62-R-45	4.0	20.6
62-R-45	5.0	22.2
62-R-45	6.0	22.6
62-R-46	3.5	26.3
62-R-46	4.0	28.6
62-R-46	5.0	26.5

TERRATECH LTD.

WATER CONTENT TESTS.

Test Pit No	Depth (feet)	Water Content (%)
62-R-47	3.0	16.7
62-R-47	4.0	13.8
62-R-47	5.0	22.0
62-R-49	5	11.4
62-R-49	6	15.9
62-R-49	7	15.0
62-R-51	1.5	57.2
62-R-51	3.0	64.1
62-R-51	4.0	90.3
62-R-51	5.0	28.9
62-R-51	6.0	49.6
62-R-52	2.0	83.0
62-R-52	3.0	70.4
62-R-52	4.0	73.2
62-R-52	5.0	72.6
62-R-54	5	18.9
62-R-54	6	18.2
62-R-54	7	24.2
62-R-54	7-A	24.0
62-R-54	7-B	25.6
62-R-54	8	19.4
62-R-65	6.0	11.6
62-R-65	7.0	10.3
62-R-65	8.0	12.3
62-R-69	5.5	14.8
62-R-84	6.5	14.5
62-R-84	7.5	21.0
62-R-87	5.0	33.9
62-R-88	4.0	20.5
62-R-88	5.0	18.9
Hole No		
62-RD-1	12.0 - 12.4	25.3
62-RD-5	8.5 - 10.0	27.0

APPENDIX IV

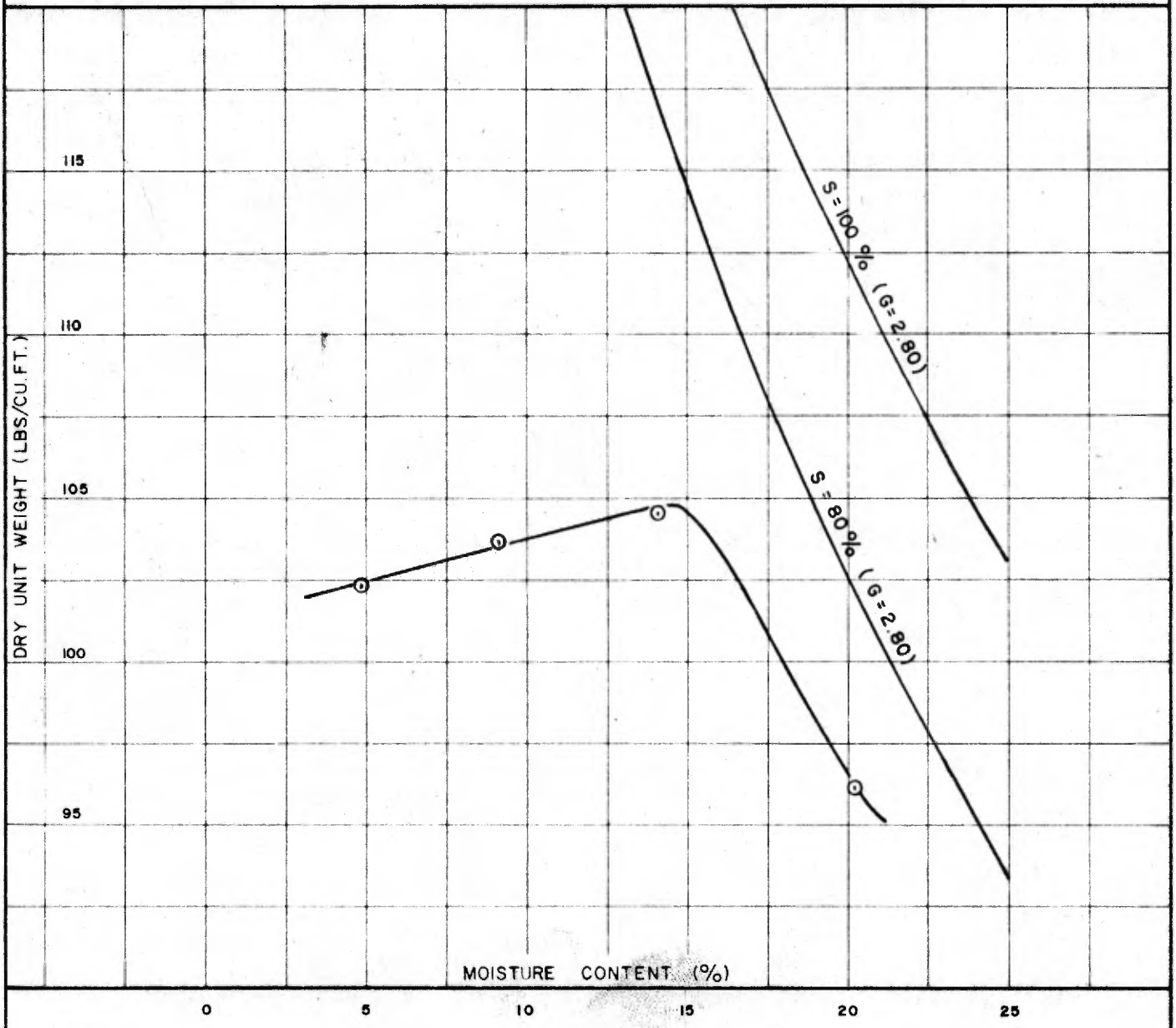
Compaction Test Results

FIGURE N° IV-1

TERRATECH LTD.

STANDARD COMPACTION TEST

PROJECT: Asbestos Hill Project, Proposed Road (TT-35-62)



NOTES

Test pit No 62-R-9, depth: 9 feet (40/60)

MAXIMUM DRY UNIT WEIGHT = 104.8 LBS/CU.FT.

OPTIMUM MOISTURE CONTENT = 14.5 %

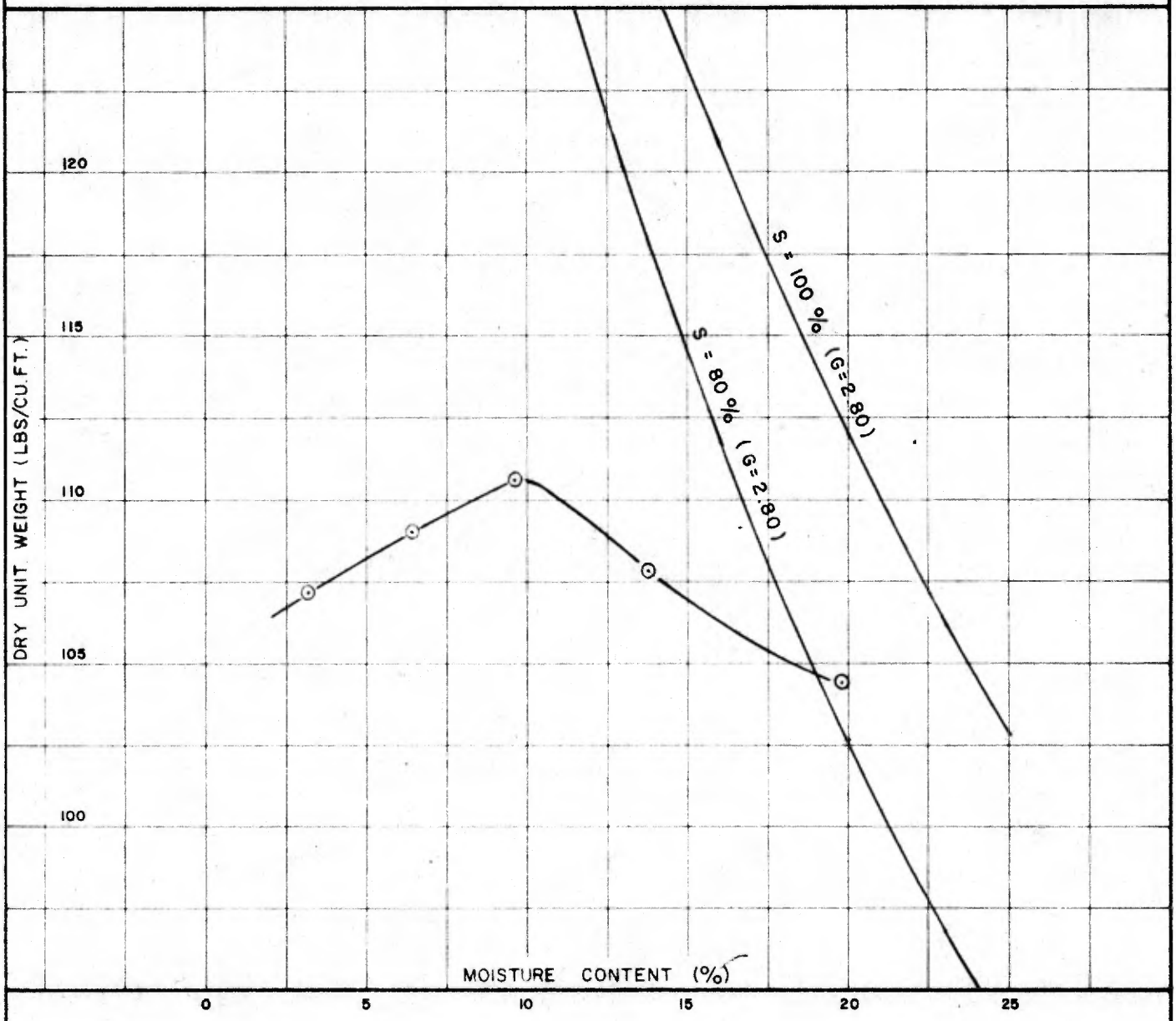
DATE: _____

FIGURE N° IV-2

TERRATECH LTD.

STANDARD COMPACTION TEST

PROJECT: Asbestos Hill Project, Proposed Road (TT-35-62)



NOTES

Test pit No 62-R-9, depth: 15 feet

Grain size curve given on figure II-25

MAXIMUM DRY UNIT WEIGHT = 111.1 LBS/CU. FT.

OPTIMUM MOISTURE CONTENT = 9.5 %

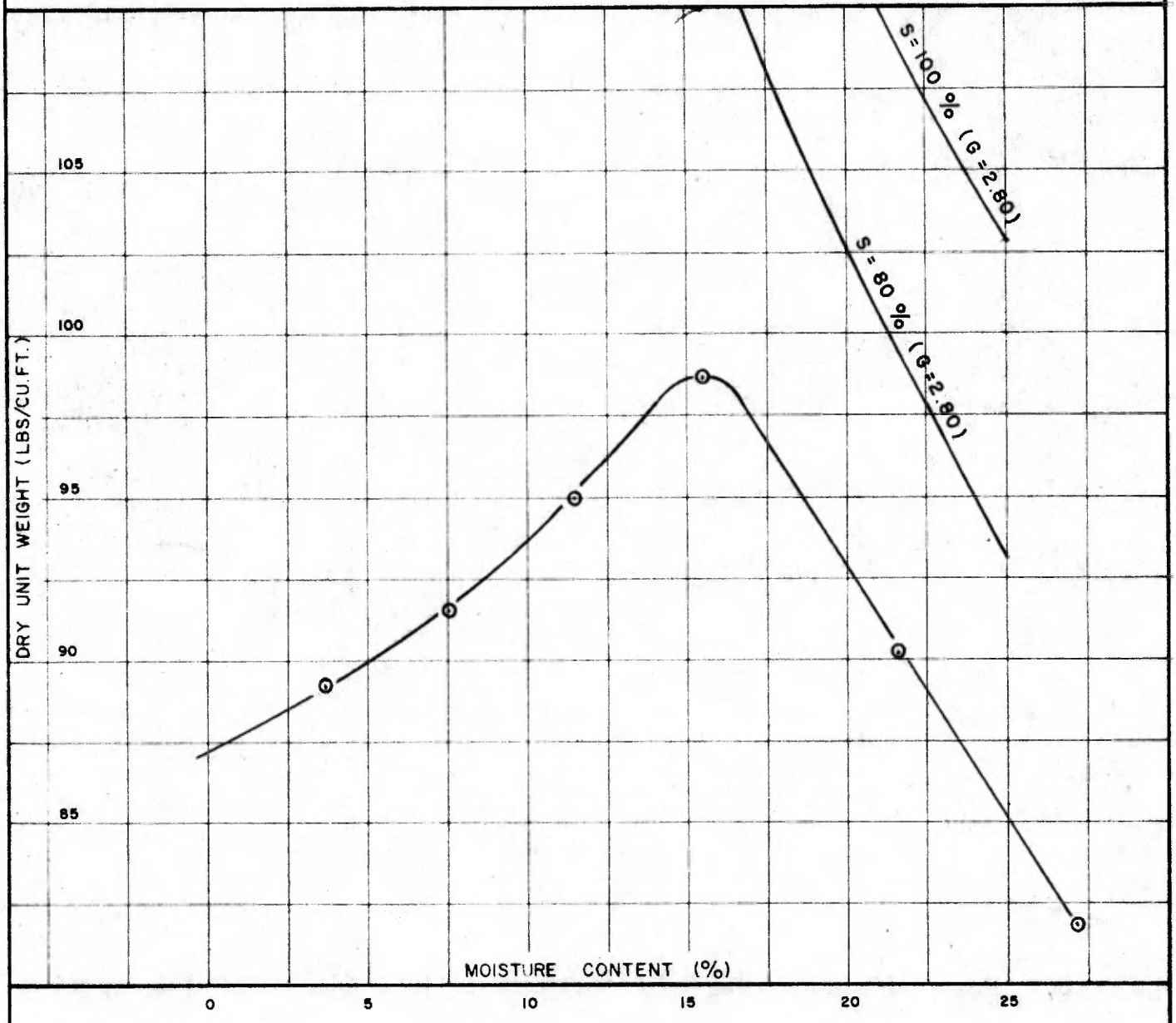
DATE:

FIGURE N° IV-3

TERRATECH LTD.

STANDARD COMPACTION TEST

PROJECT: Asbestos Hill Project, Proposed Road, (TT-35-62)



NOTES

Test pit No 62-R-11, depth: 5 feet

Grain size curve given on figure II-27

MAXIMUM DRY UNIT WEIGHT = 98.7 LBS/CU.FT.

OPTIMUM MOISTURE CONTENT = 15.5 %

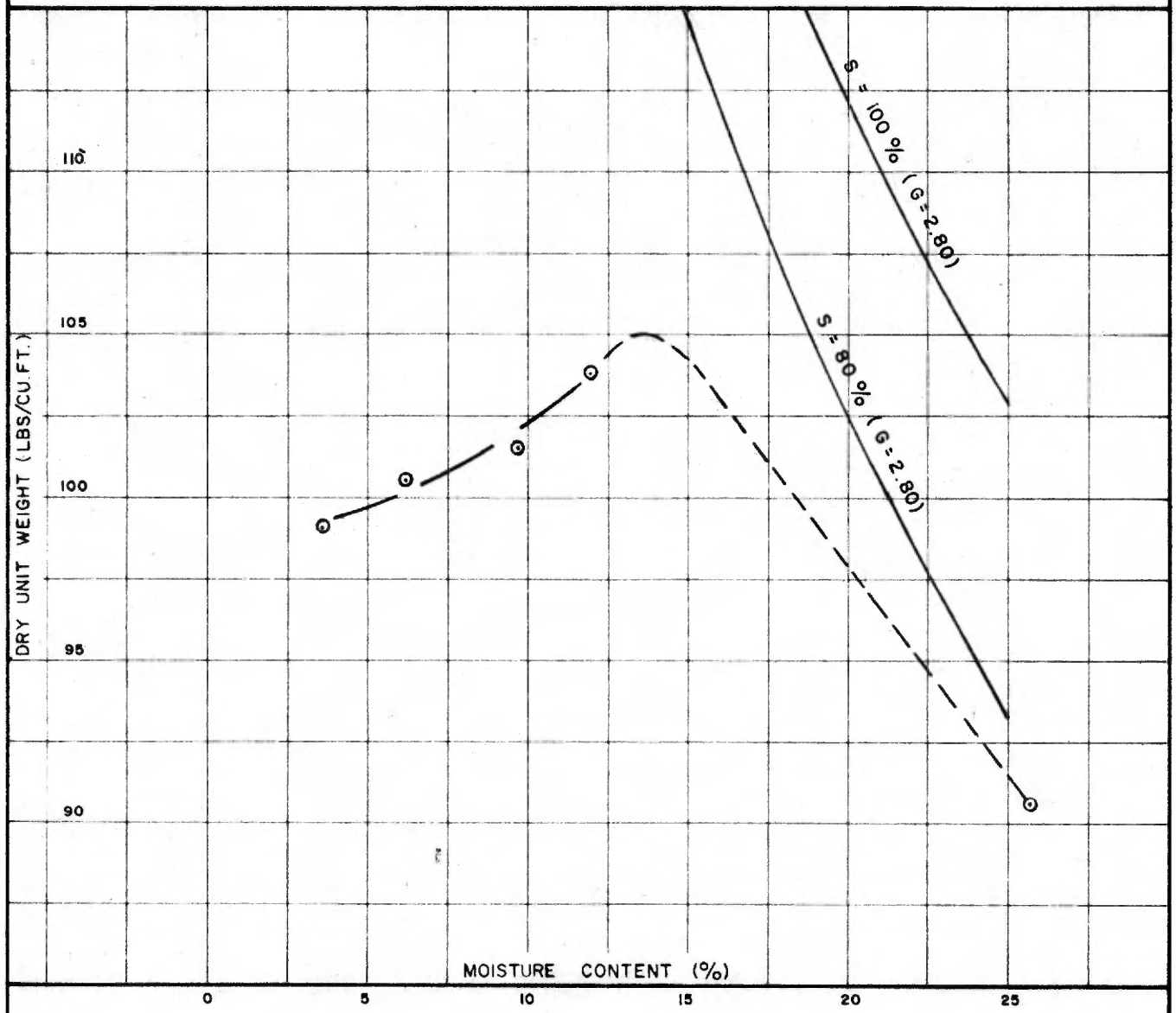
DATE: _____

FIGURE N° IV-4

TERRATECH LTD.

STANDARD COMPACTION TEST

PROJECT: Asbestos Hill Project, Proposed Road, (TT-35-62)



NOTES

Test pit No 62-R-16, Depth: 11 feet.

Grain size given on figure II-34

MAXIMUM DRY UNIT WEIGHT = 105.0 LBS/CU. FT.

OPTIMUM MOISTURE CONTENT = 13.5 %

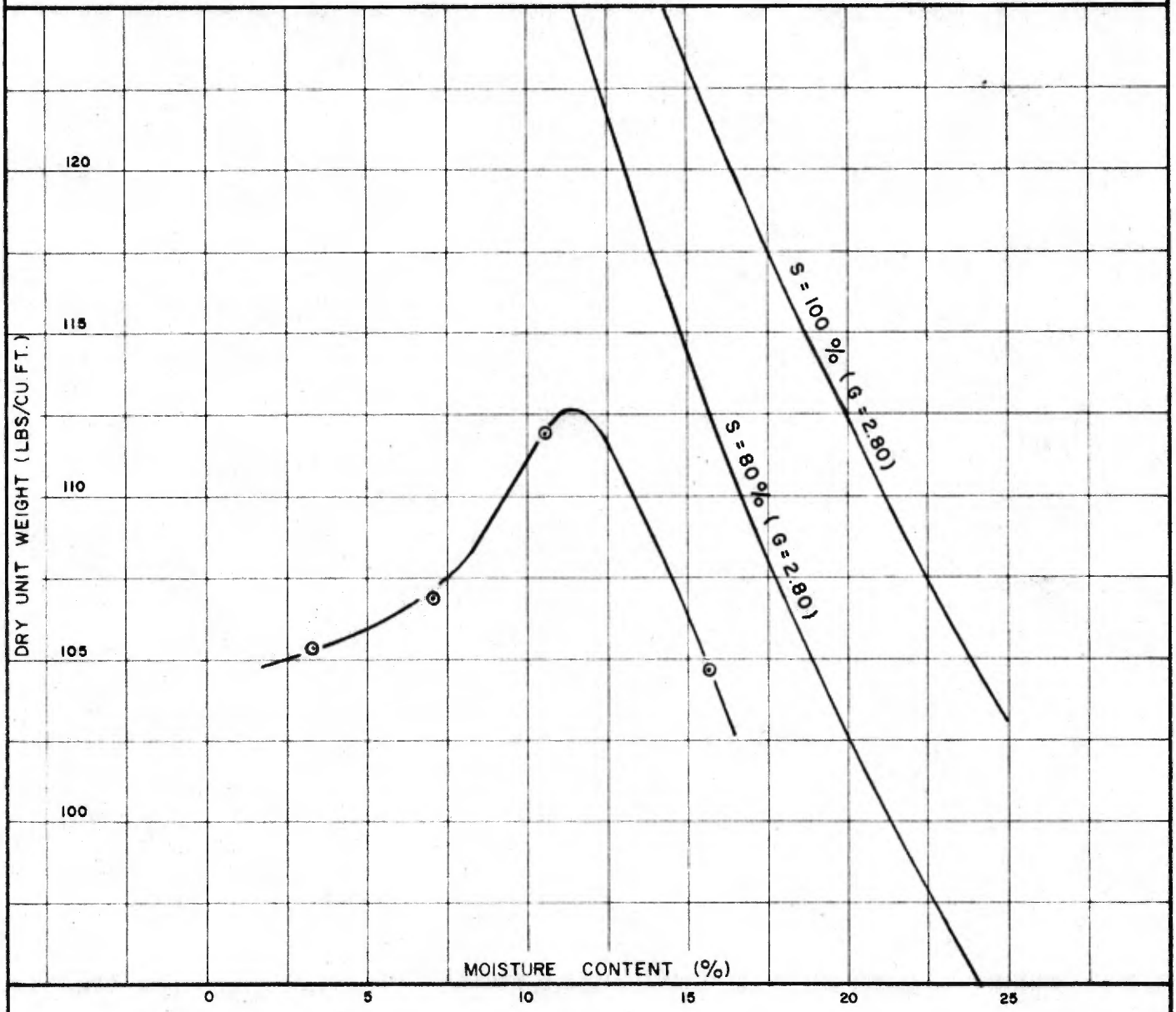
DATE: _____

FIGURE N° IV -5

TERRATECH LTD.

STANDARD COMPACTION TEST

PROJECT: Asbestos Hill Project, Proposed Road, (TT-35-62)



NOTES

Test pit No 62-R-19, Depth: 12 feet (50/50)

Grain size curve given on figure II-38

MAXIMUM DRY UNIT WEIGHT = 112.5 LBS/CU.FT.

OPTIMUM MOISTURE CONTENT = 11.5 %

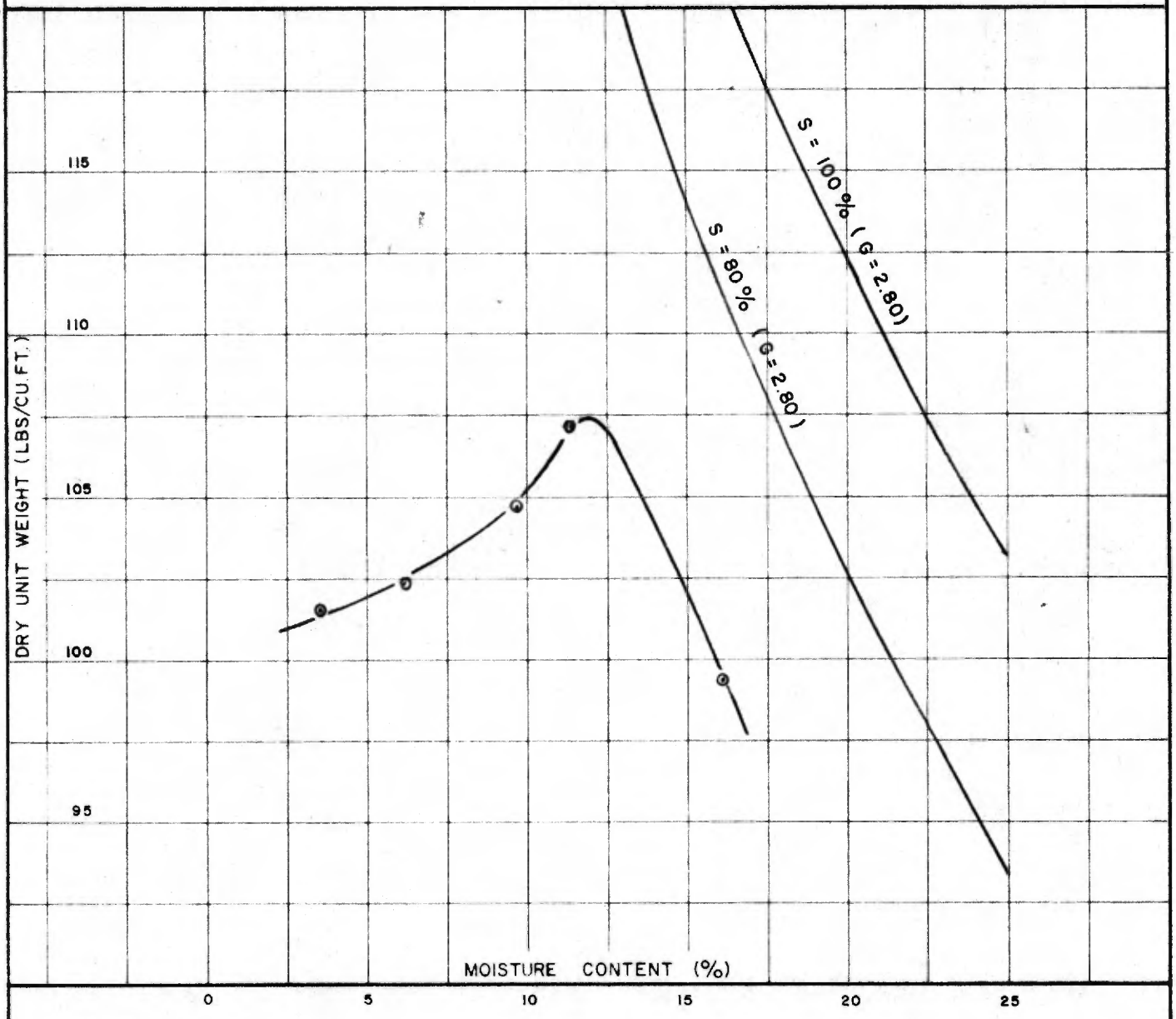
DATE: _____

FIGURE N° IV-6

TERRATECH LTD.

STANDARD COMPACTION TEST

PROJECT: Asbestos Hill Project, Proposed Road, (TT-35-62)



NOTES

Test pit No 62-R-19, Depth: 12 feet (33/66)

Grain size curve given on figure II-38

MAXIMUM DRY UNIT WEIGHT = 107.2 LBS/CU. FT.

OPTIMUM MOISTURE CONTENT = 11.8 %

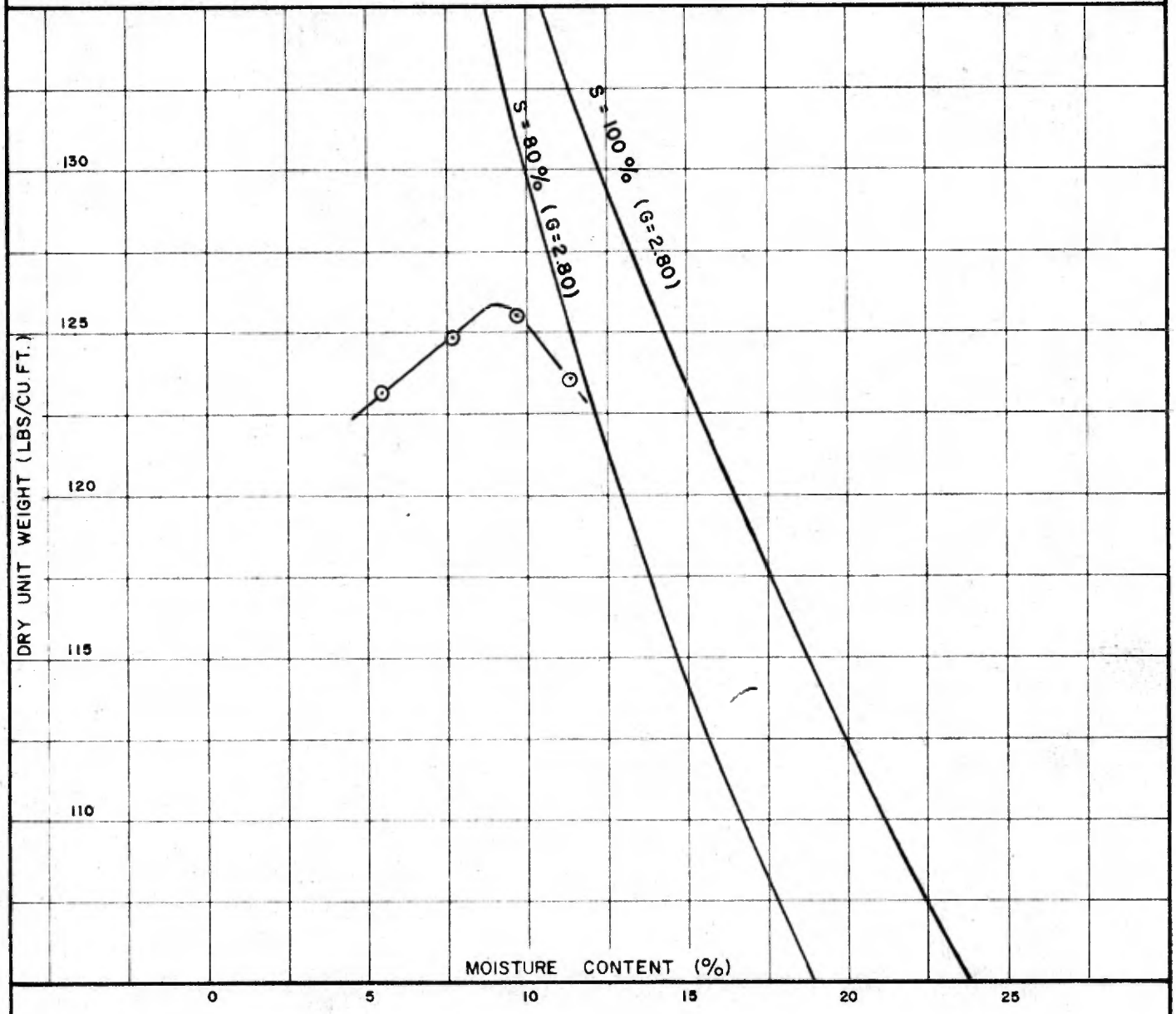
DATE: _____

FIGURE N° IV-7

TERRATECH LTD.

STANDARD COMPACTION TEST

PROJECT: Asbestos Hill Project, Proposed Road, (TT-35-62)



NOTES

Test pit No 62-R-22, Depth: 4 feet

Grain size curve given on figure II-41

Specific gravity, G = 2.78

MAXIMUM DRY UNIT WEIGHT = 126.0 LBS/CU. FT.

OPTIMUM MOISTURE CONTENT = 9.0 %

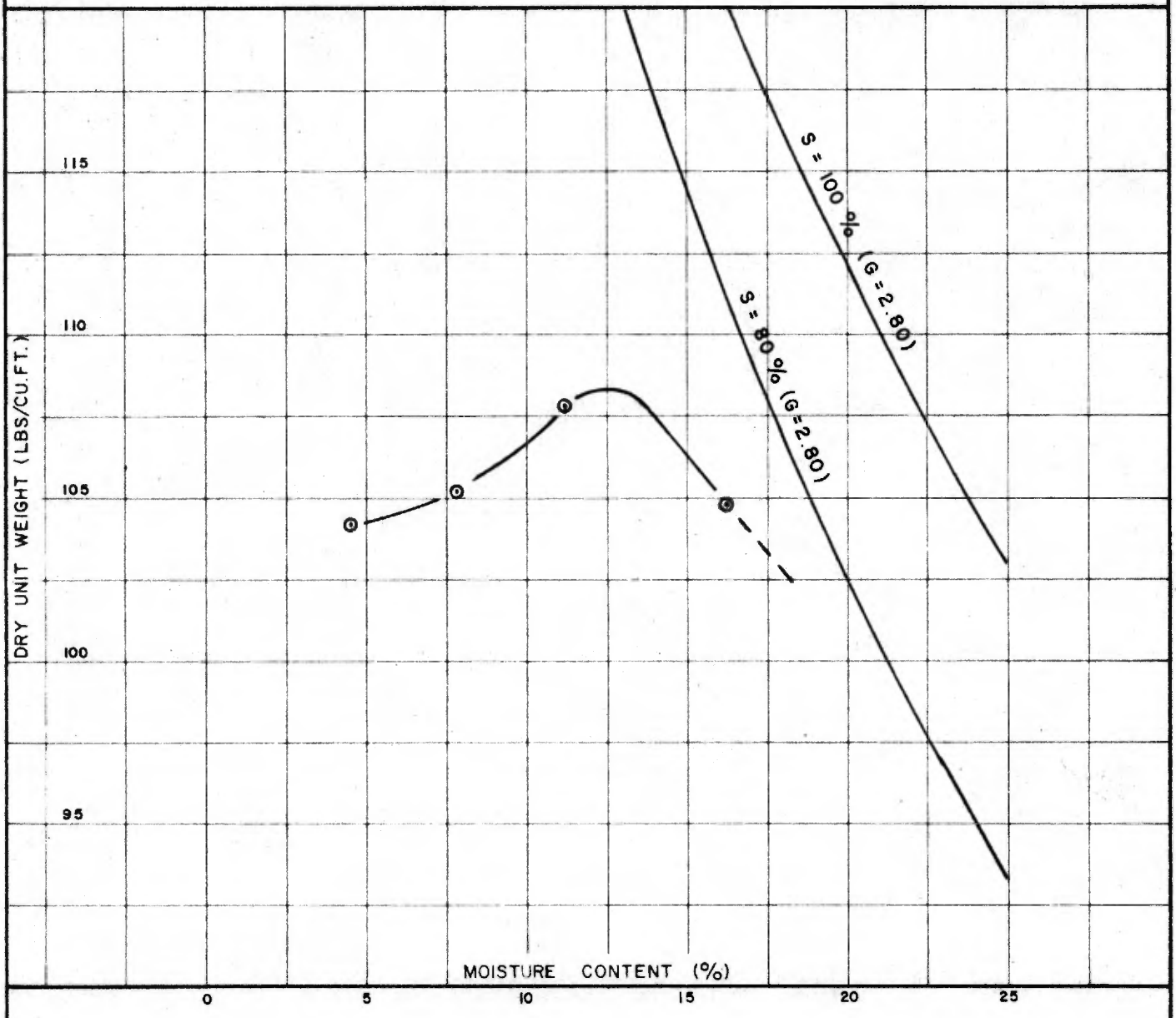
DATE: _____

FIGURE N° IV-8

TERRATECH LTD.

STANDARD COMPACTION TEST

PROJECT: Asbestos Hill Project, Proposed Road, (TT-35-62)



NOTES

Test pit No 62-R-34, Depth: 0 to 8 feet (50/50)

MAXIMUM DRY UNIT WEIGHT = 108.5 LBS/CU.FT.

OPTIMUM MOISTURE CONTENT = 12.5 %

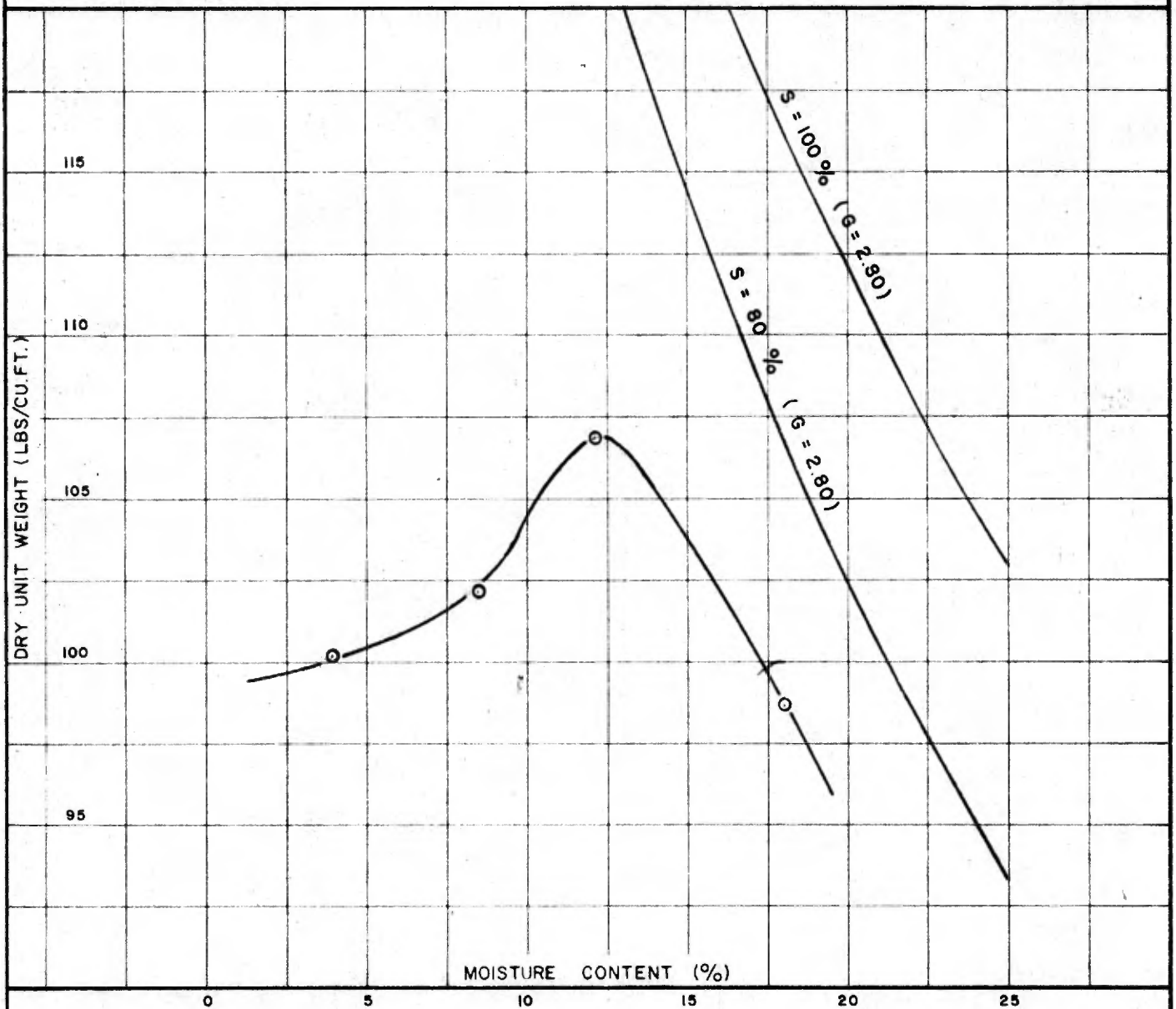
DATE:

FIGURE N° IV-9

TERRATECH LTD.

STANDARD COMPACTION TEST

PROJECT: Asbestos Hill Project, Proposed Road, (TT-35-62)



NOTES

Test pit No 62-R-36, Depth: 5 to 6 feet (50/50)

MAXIMUM DRY UNIT WEIGHT = 106.8 LBS/CU. FT.

OPTIMUM MOISTURE CONTENT = 12.1 %

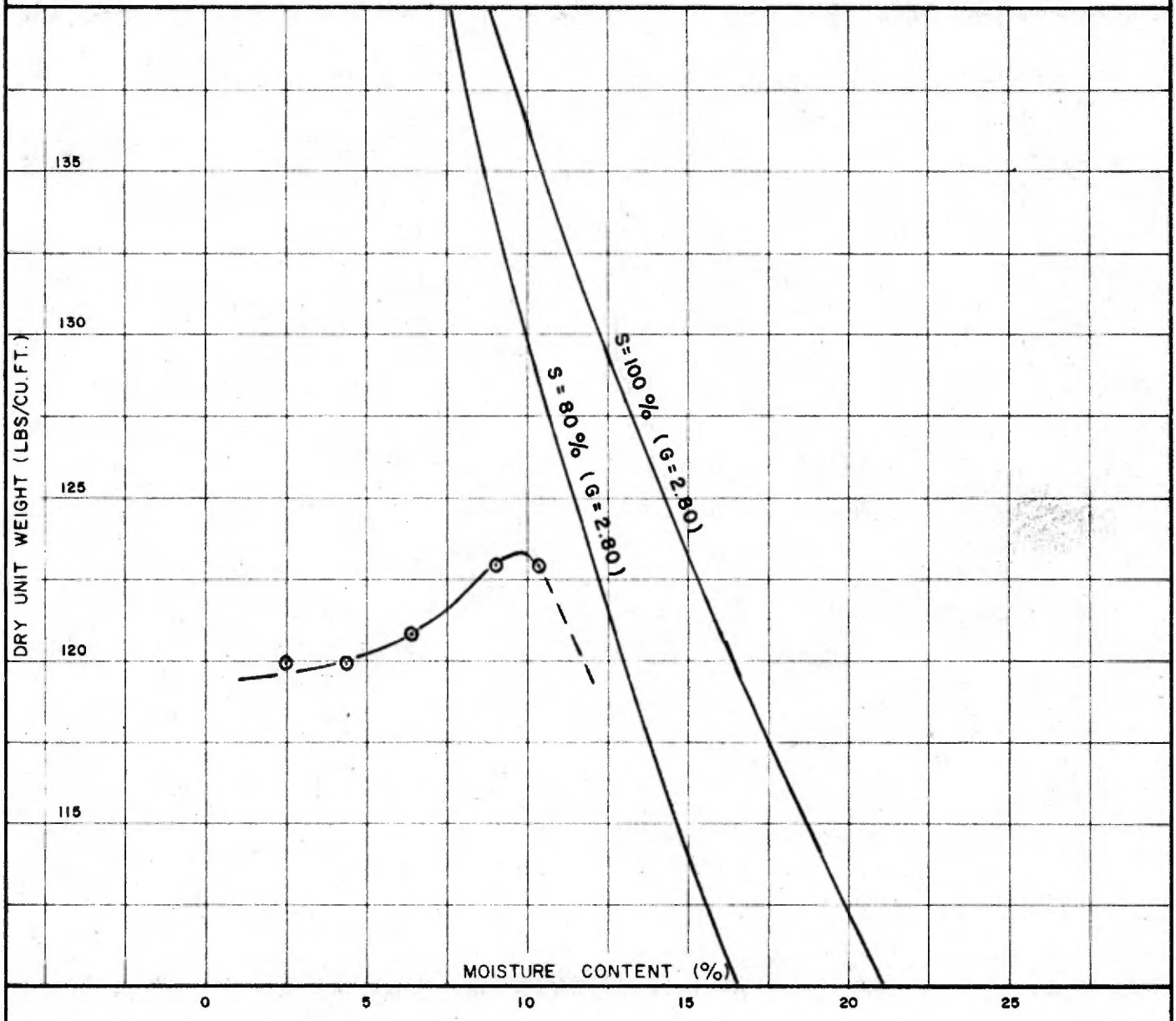
DATE: _____

FIGURE N° IV-10

TERRATECH LTD.

STANDARD COMPACTION TEST

PROJECT: Asbestos Hill Project, Proposed Road, (TT=35-62)



NOTES

Test pit No 62-R-42, Depth: 10 feet

Grain size curve given on figure II=56

Specific gravity, G= 2.81

MAXIMUM DRY UNIT WEIGHT = 123.5 LBS/CU. FT

OPTIMUM MOISTURE CONTENT = 9.8 %

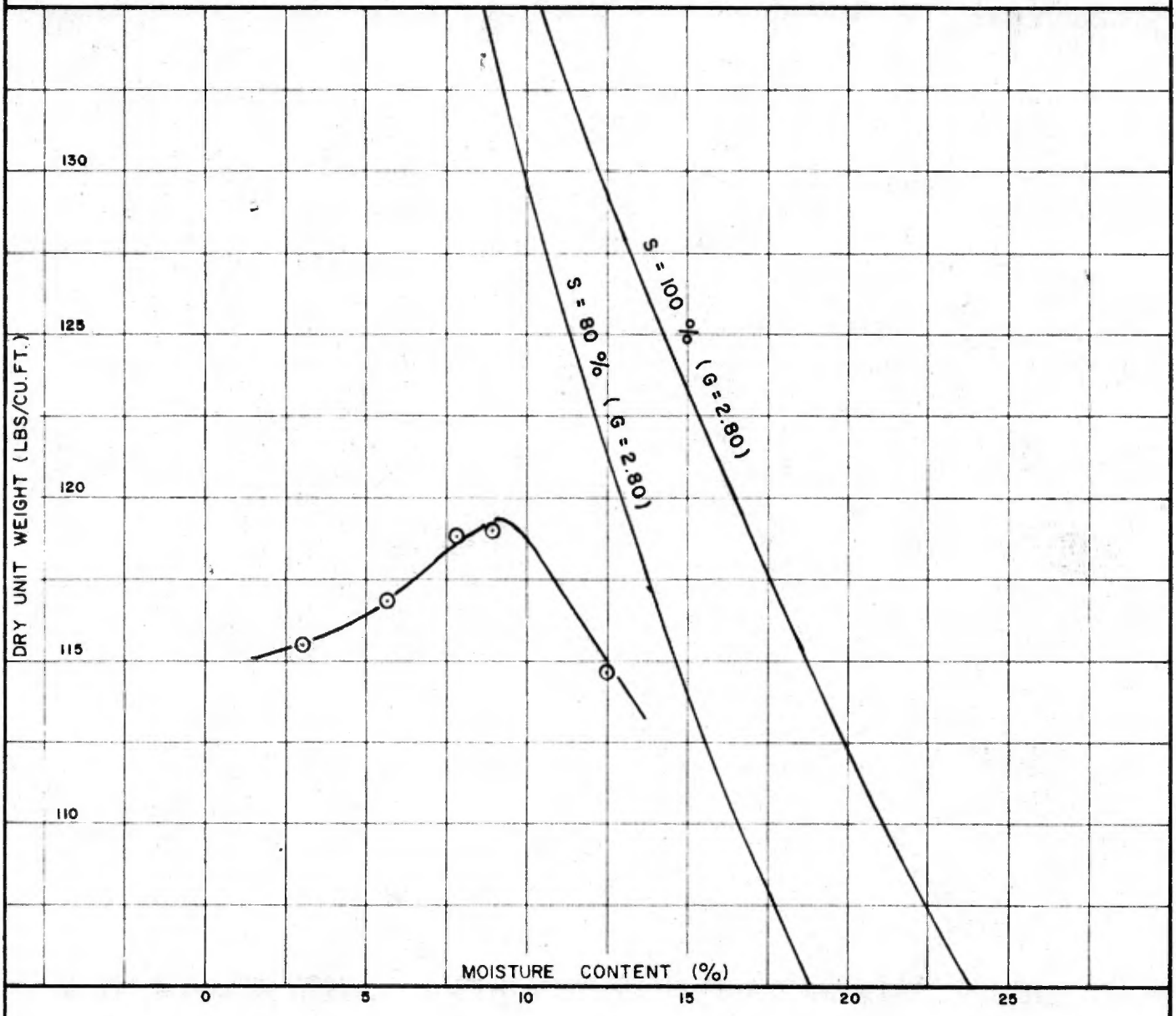
DATE: _____

FIGURE N° IV-11

TERRATECH LTD.

STANDARD COMPACTION TEST

PROJECT: Asbestos Hill Project, Proposed Road, (TT-35-62)



NOTES

Test pit No 62-R-43, Depth 3 feet (100)

Grain size curve given on figure II-57

MAXIMUM DRY UNIT WEIGHT = 119.5 LBS/CU.FT

OPTIMUM MOISTURE CONTENT = 9.2 %

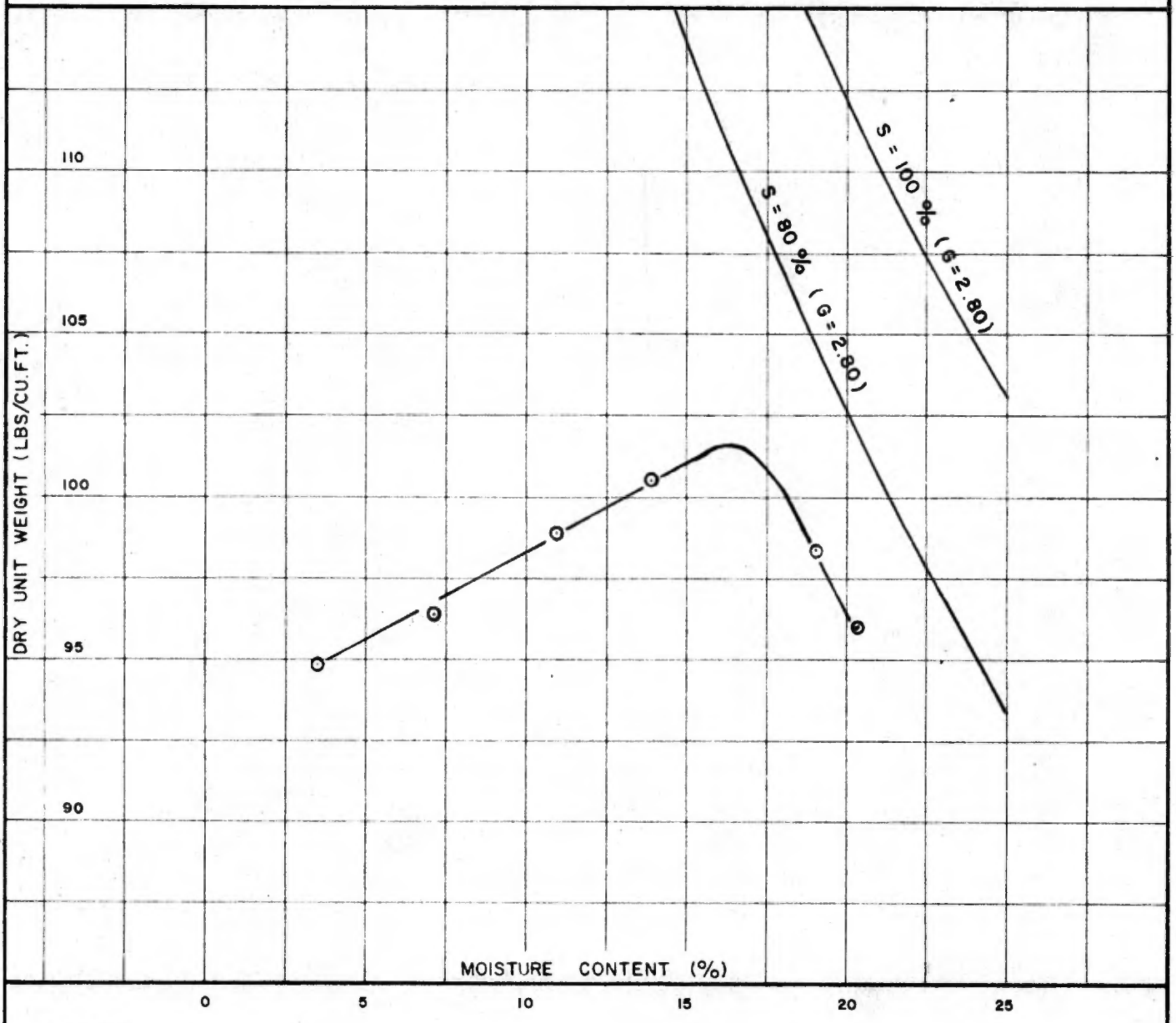
DATE: _____

FIGURE N° IV -12

TERRATECH LTD.

STANDARD COMPACTION TEST

PROJECT : Asbestos Hill Project, Proposed Road, (TT-35-62)



NOTES

Test pit No 62-R-45, Depth: 3.5 feet (50/50)

MAXIMUM DRY UNIT WEIGHT = 101.5 LBS/CU. FT.

OPTIMUM MOISTURE CONTENT = 16.5 %

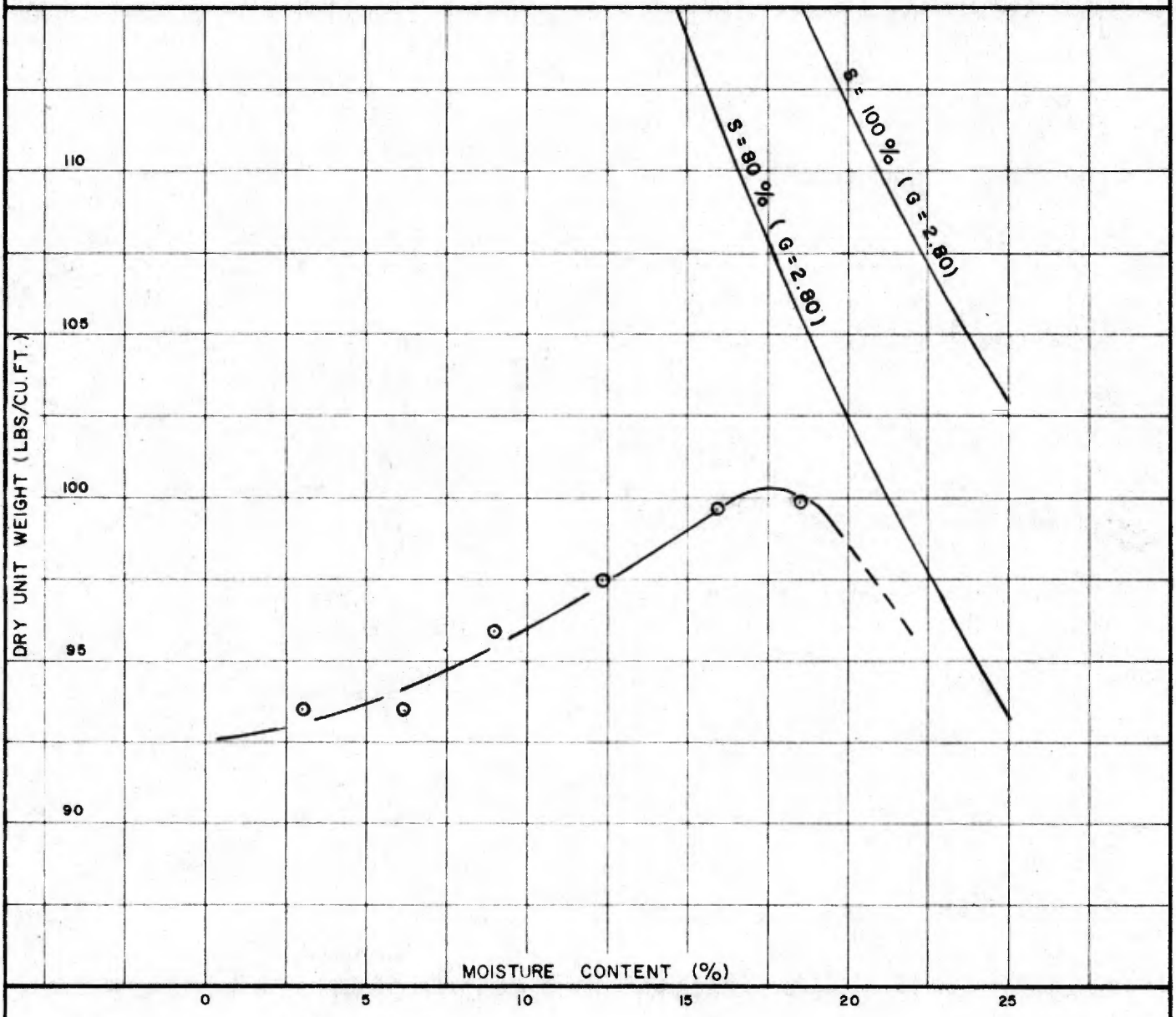
DATE : _____

FIGURE N° IV-13

TERRATECH LTD.

STANDARD COMPACTION TEST

PROJECT: Asbestos Hill Project, Proposed Road, (TT-35-62)



NOTES

Test pit No 62-R-46, Depth: 4 feet (100

Grain size curve given on figure II-59

MAXIMUM DRY UNIT WEIGHT = 100.5 LBS/CU.FT.

OPTIMUM MOISTURE CONTENT = 17.5 %

DATE: _____