

PERCENT FINER BY WEIGHT



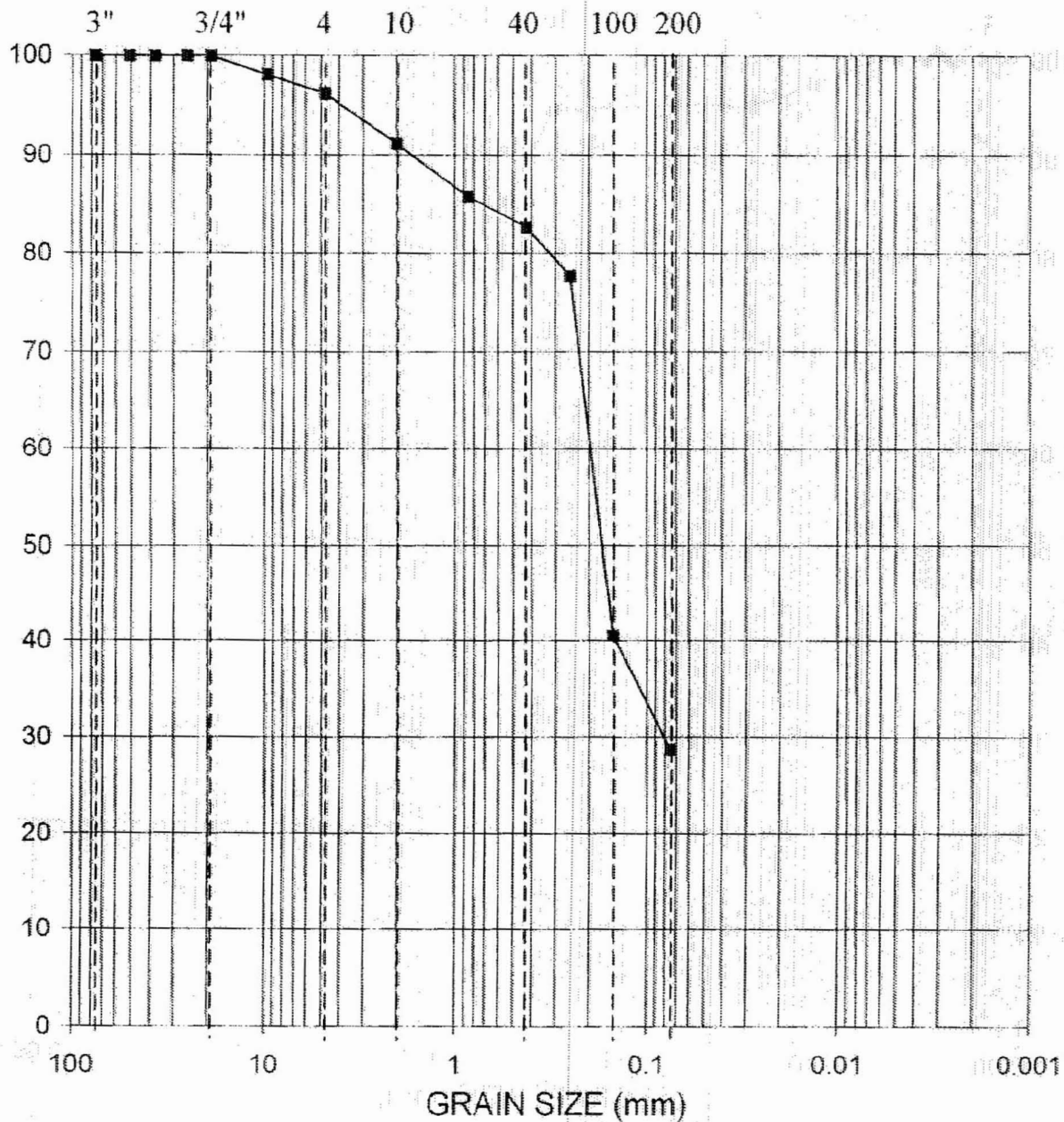
ASTM D422



Schnabel
Schnabel Engineering

PERCENT FINER BY WEIGHT

U.S. Standard Sieve Nos.



GRAVEL	SAND	SILT OR CLAY
--------	------	--------------

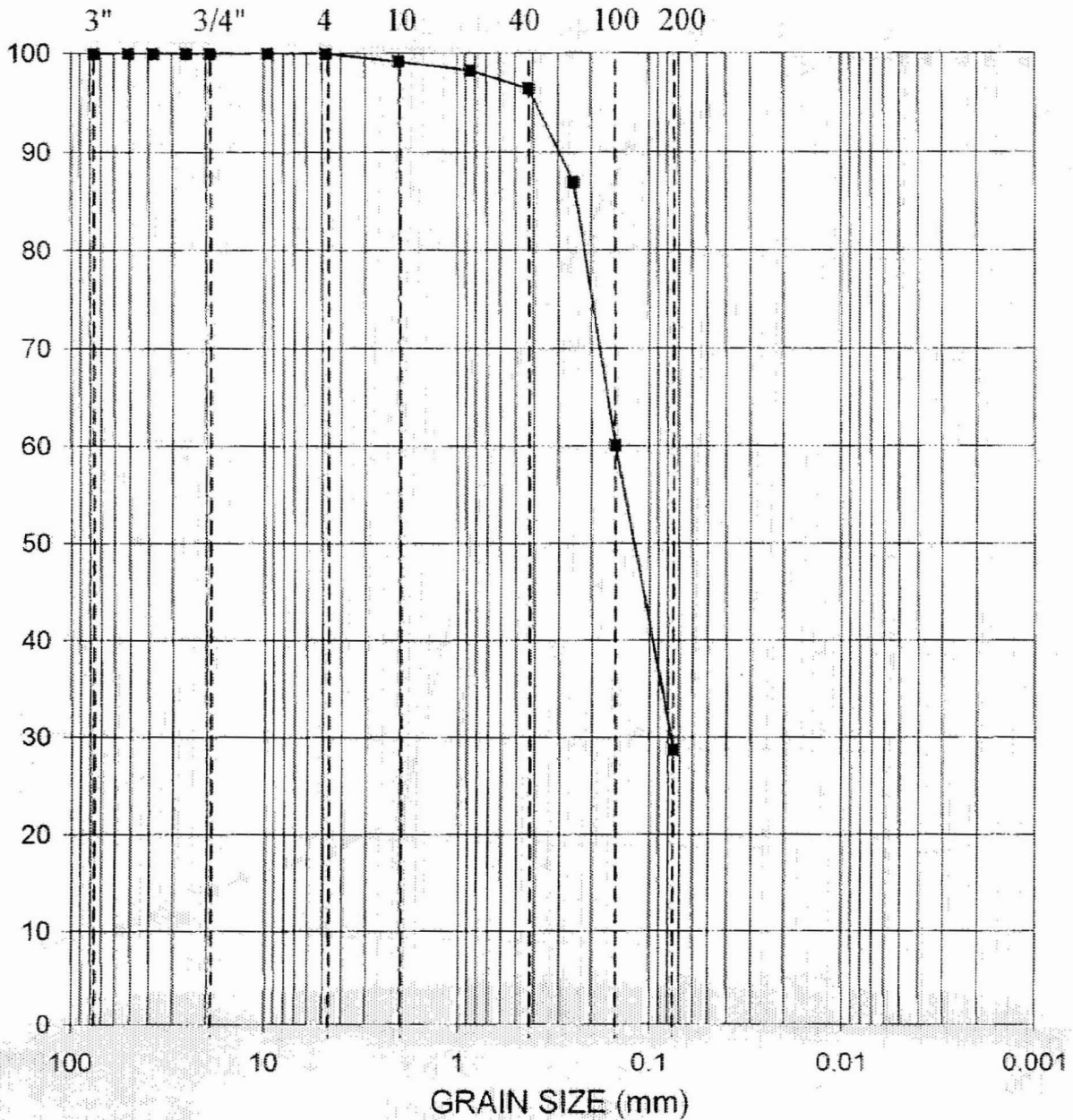
GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/13/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
B-413	133.5	Silty SAND, trace shells, green	SM				

U.S. Standard Sieve Nos.

PERCENT FINER BY WEIGHT



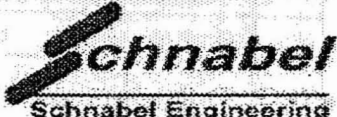
GRAVEL

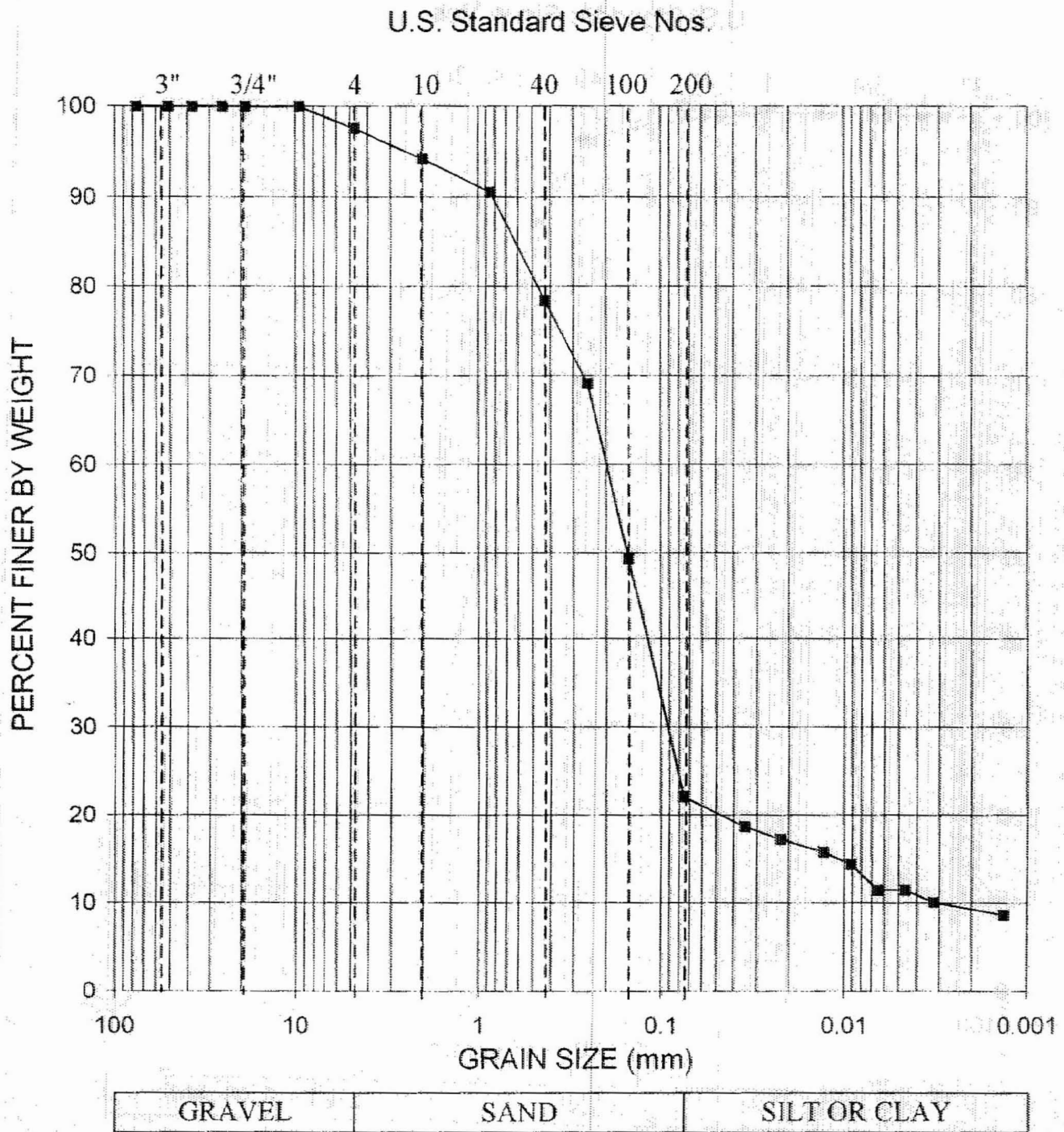
SAND

SILT OR CLAY

GRADATION CURVE

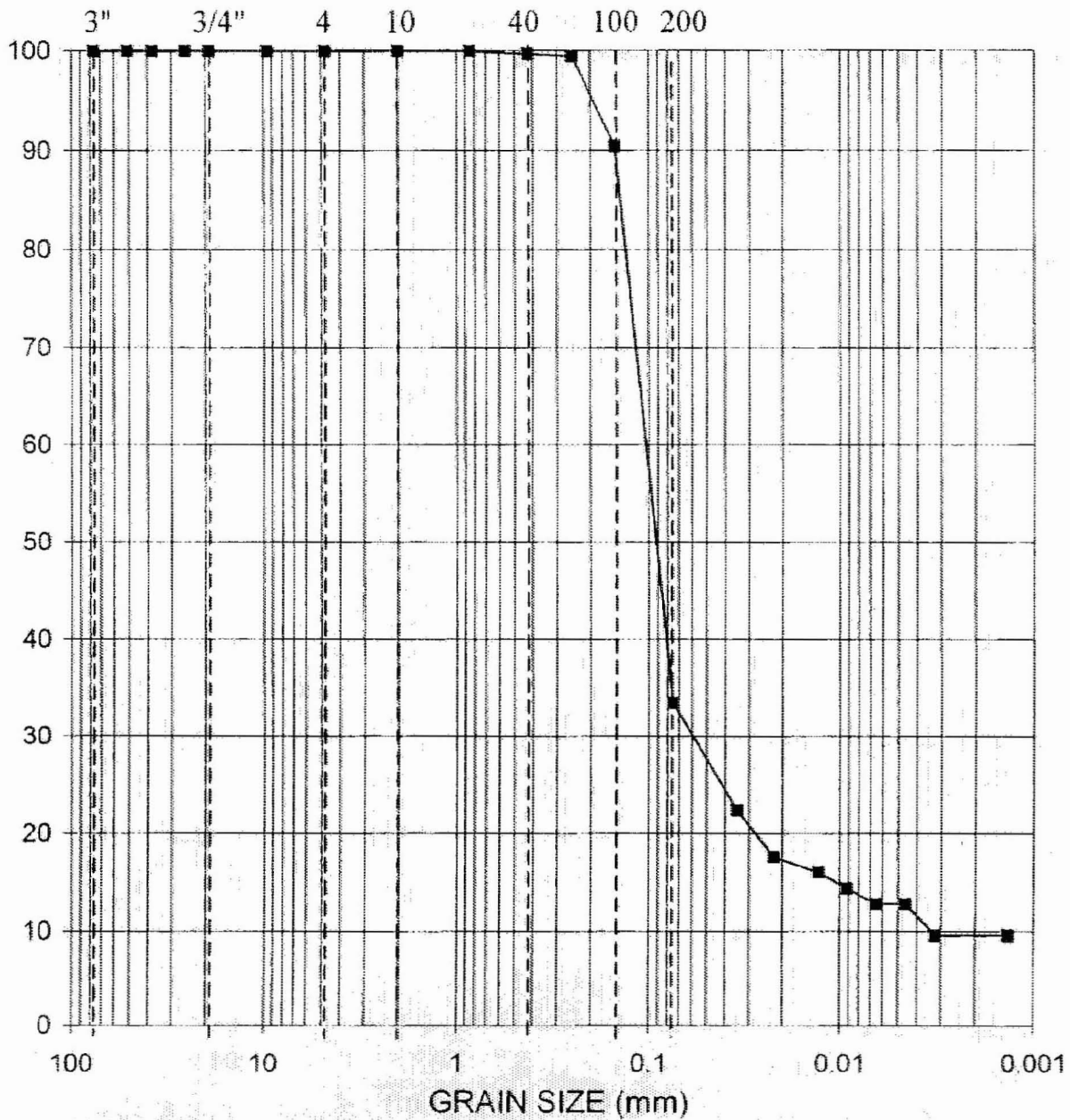
ASTM D422

Project	Constellation Energy Group COLA Project Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.	06120048 00	Date	9/13/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
B-413	148.5	Silty SAND, contains shells, green	SM				



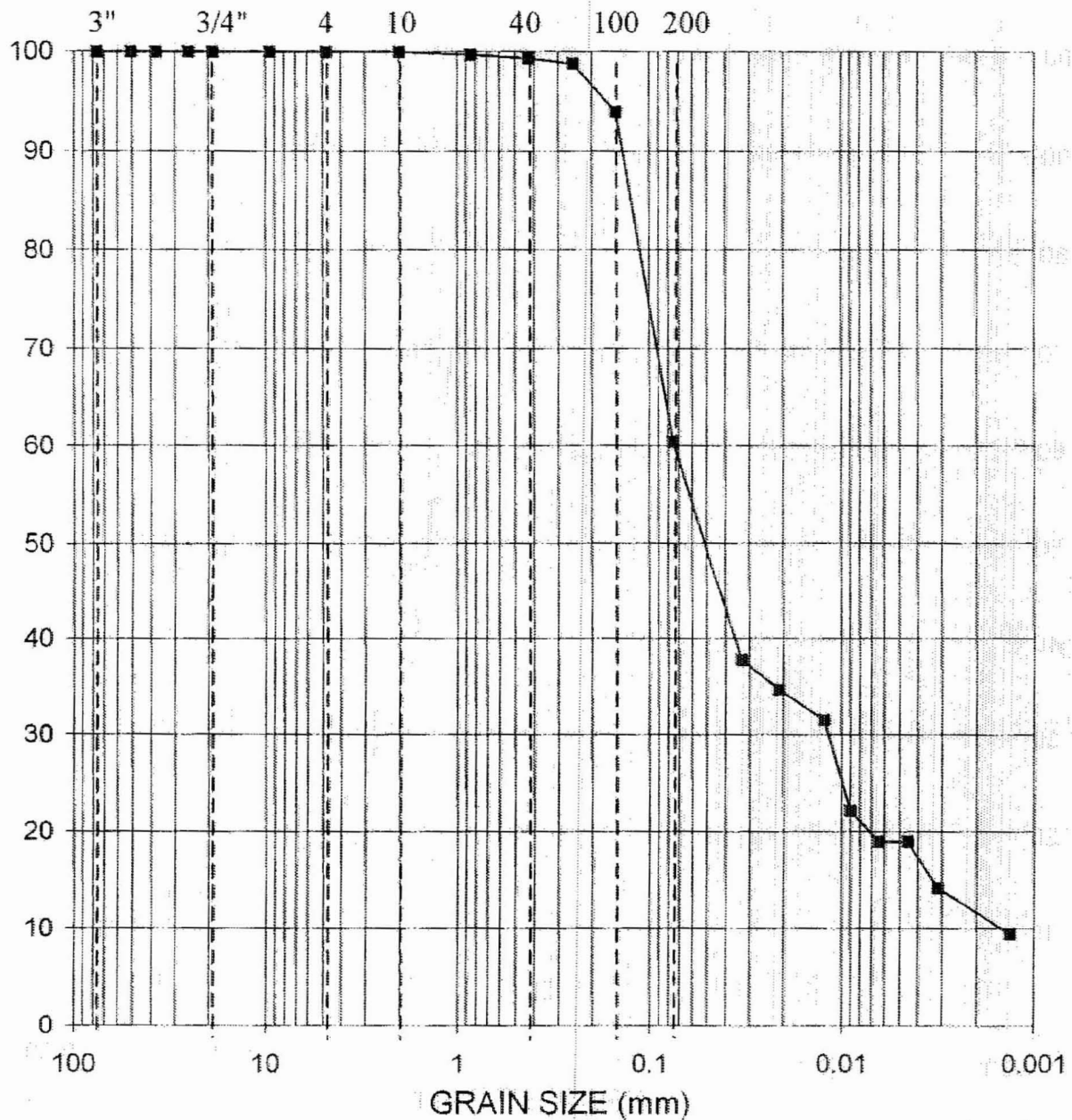
U.S. Standard Sieve Nos.

PERCENT FINER BY WEIGHT



PERCENT FINER BY WEIGHT

U.S. Standard Sieve Nos.

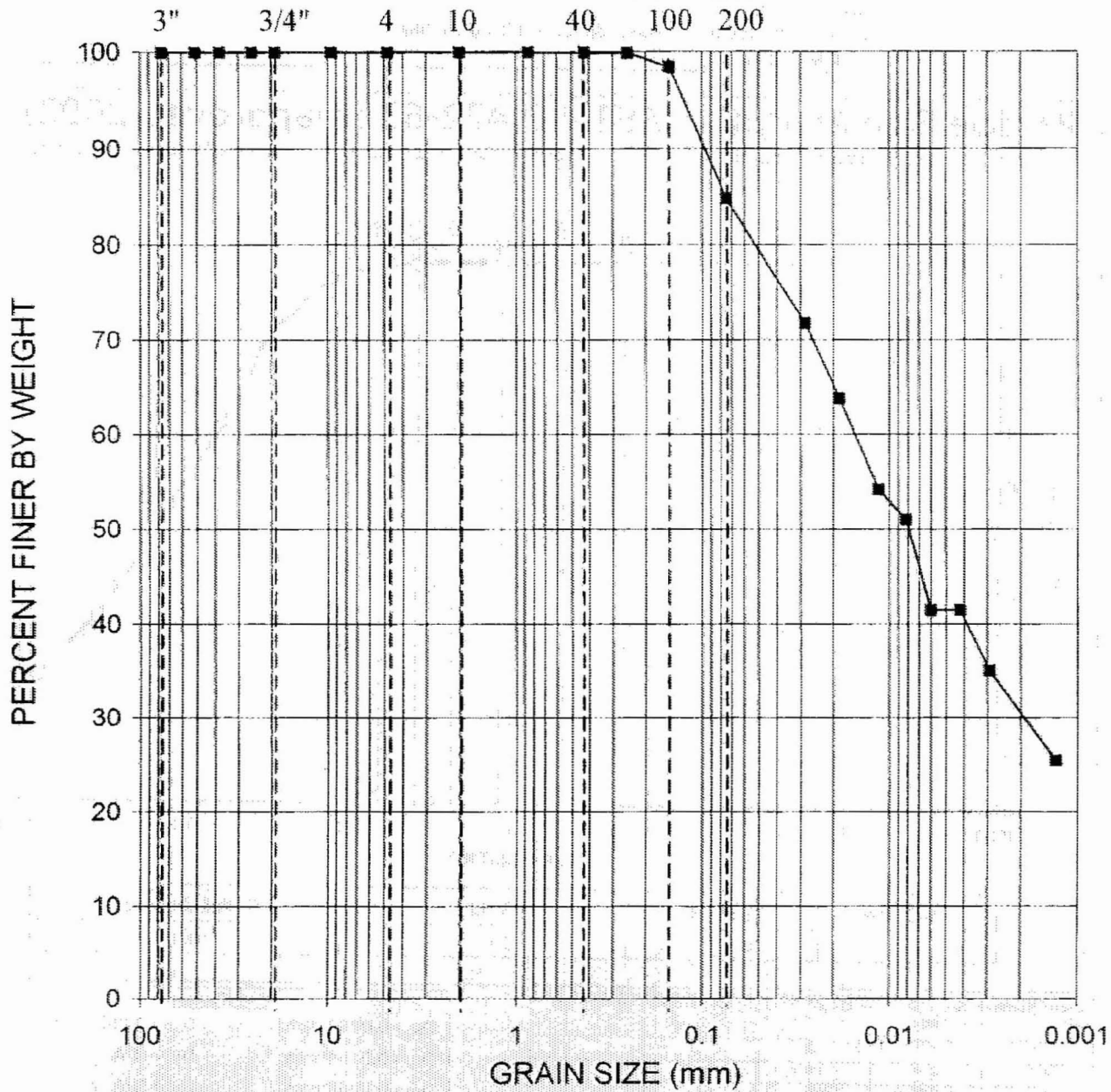


GRAVEL	SAND	SILT OR CLAY
--------	------	--------------

GRADATION CURVE
ASTM D422

Project	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.	06120048.00	Date	9/14/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
B-414	53.5	Sandy LEAN CLAY, dark gray	CL	42	19		

U.S. Standard Sieve Nos.

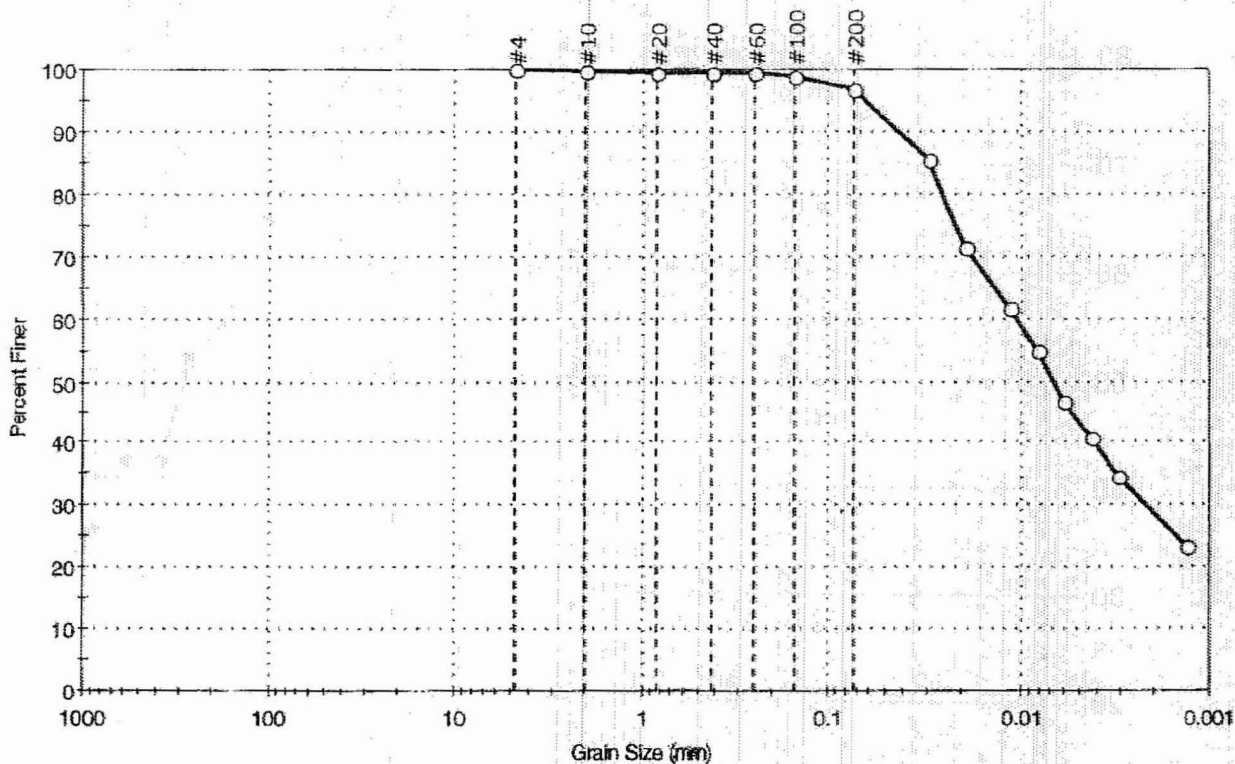


GeoTesting express

a subsidiary of Geocomp Corporation

Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Project No: GTX-6880
Location: Calvert County, MD	Boring ID: B-414	Sample Type: tube
Sample ID: S-17	Test Date: 10/27/06	Tested By: sam
Depth: 68.0-70.0 ft	Test ID: 98069	Checked By: mcm
Test Comment: ---		
Sample Description: Moist, dark greenish gray clay		
Sample Comment: ---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.1	3.1	96.8

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.425	99		
#60	0.25	99		
#100	0.15	99		
#200	0.075	97		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0293	86		
---	0.0192	71		
---	0.0113	62		
---	0.0082	55		
---	0.0060	47		
---	0.0043	41		
---	0.0031	34		
---	0.0013	23		

Coefficients

D ₈₅ = 0.0287 mm	D ₃₀ = 0.0022 mm
D ₆₀ = 0.0104 mm	D ₁₅ = N/A
D ₅₀ = 0.0068 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

Classification

ASTM fat clay (CH)

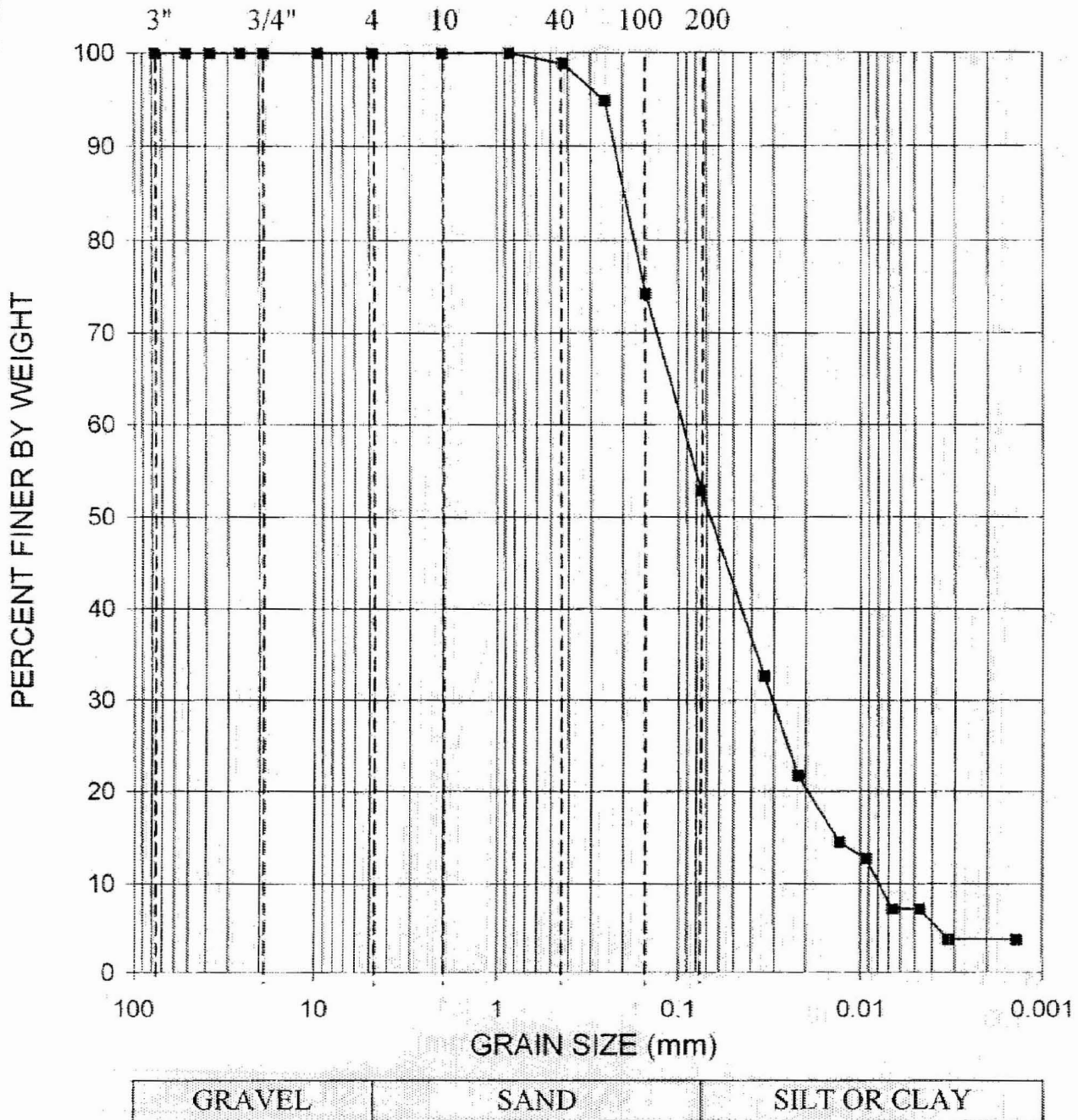
AASHTO Clayey Soils (A-7-6 (41))

Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

U.S. Standard Sieve Nos.

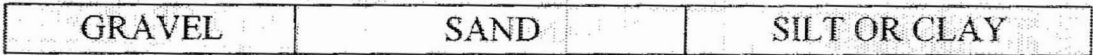


GRADATION CURVE

ASTM D422

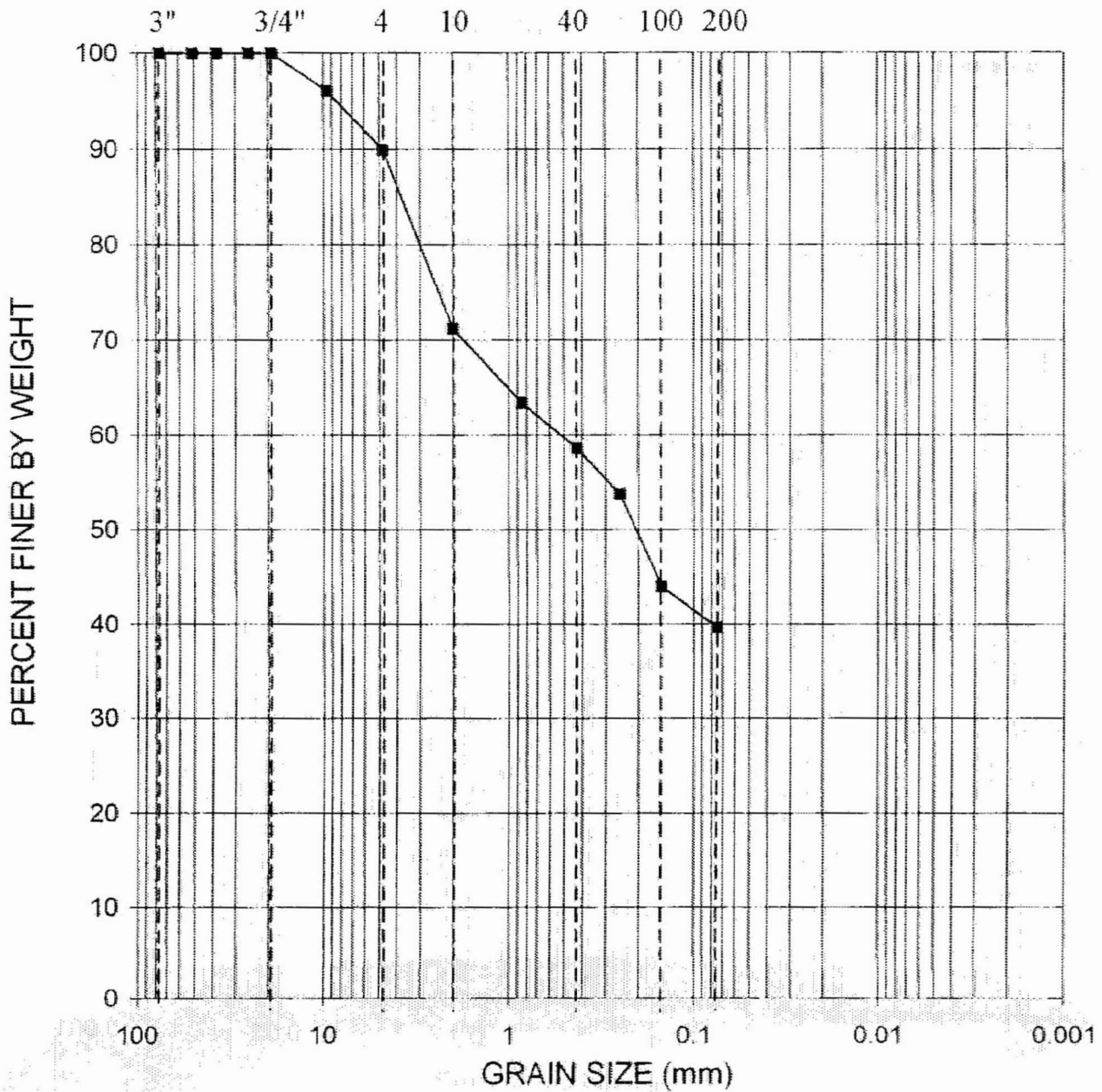
Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland				Contract No.:	06120048.00	Date:	9/21/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI			
B-414	73.5	Sandy LEAN CLAY, green	CL	39	19			

PERCENT FINER BY WEIGHT



ASTM D422

U.S. Standard Sieve Nos.



GRAVEL

SAND

SILT OR CLAY

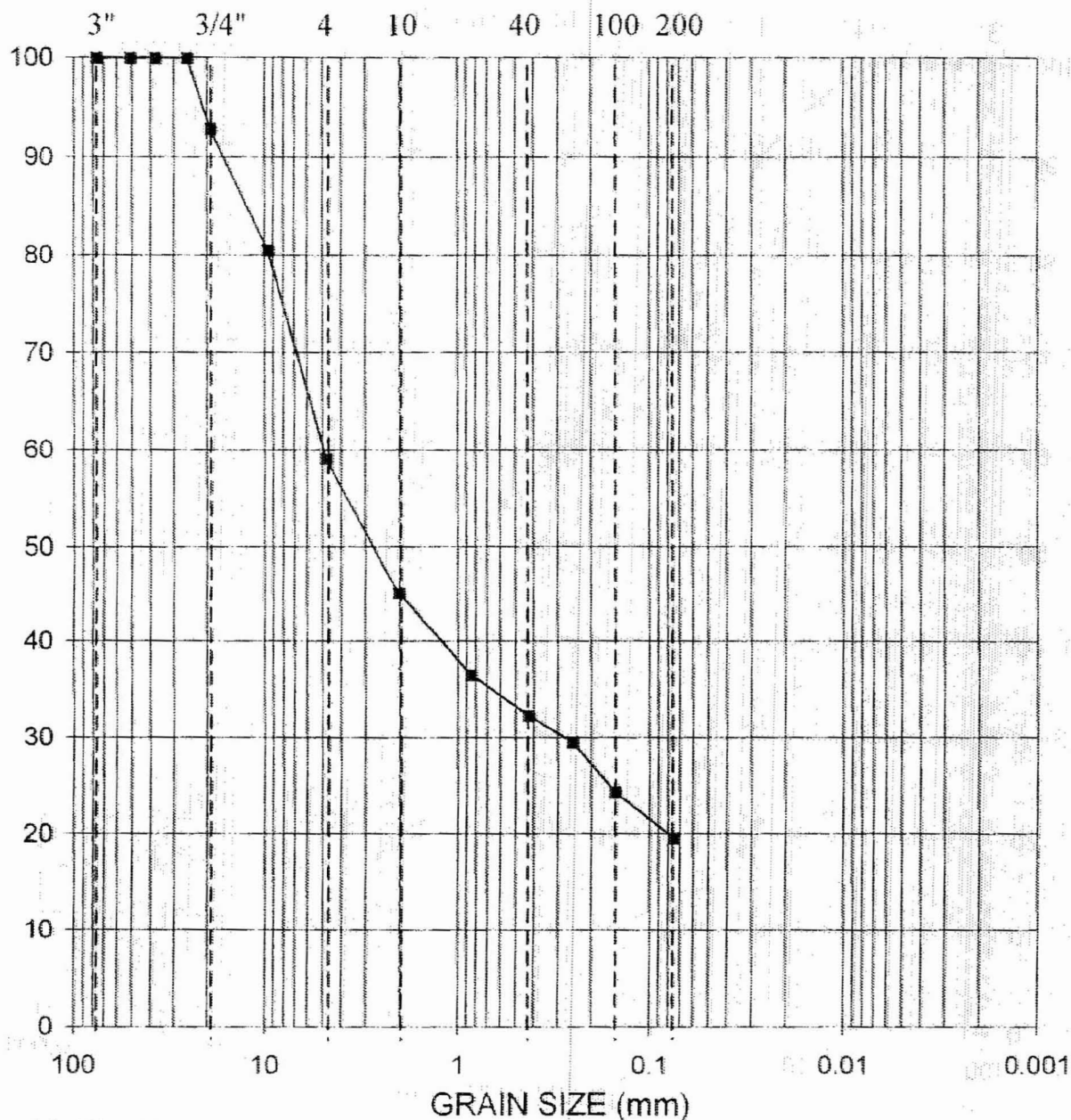
GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.	06120048.00	Date:	9/13/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
B-414	93.5	Silty SAND, trace shells, green	SM				

PERCENT FINER BY WEIGHT

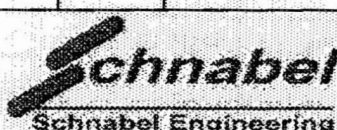
U.S. Standard Sieve Nos.



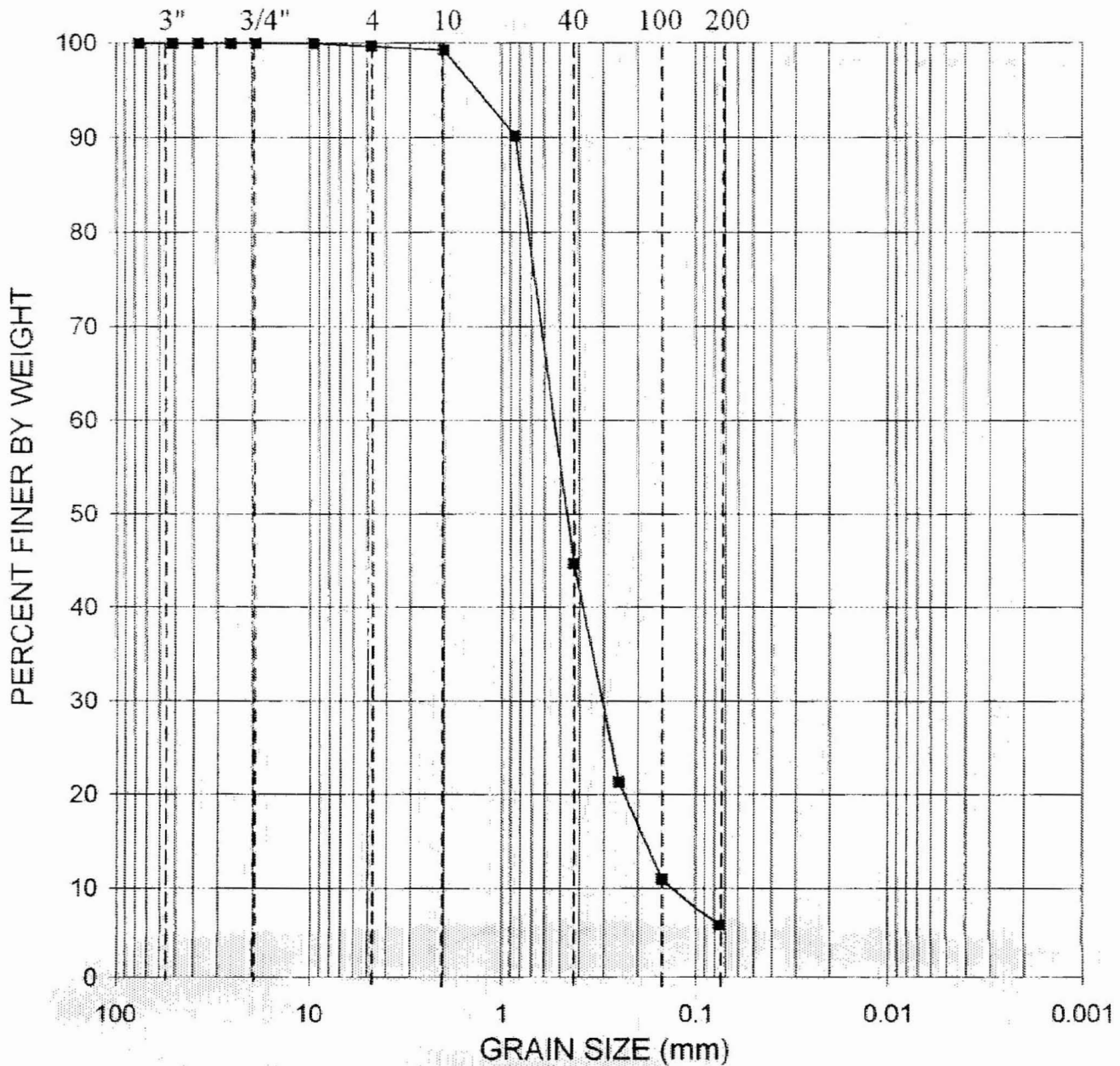
GRAVEL SAND SILT OR CLAY

GRADATION CURVE

ASTM D422

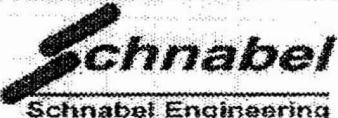
Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.	06120048.00	Date:	9/13/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-414	98.5	Silty SHELLS, with sand, gray	GM				

U.S. Standard Sieve Nos.



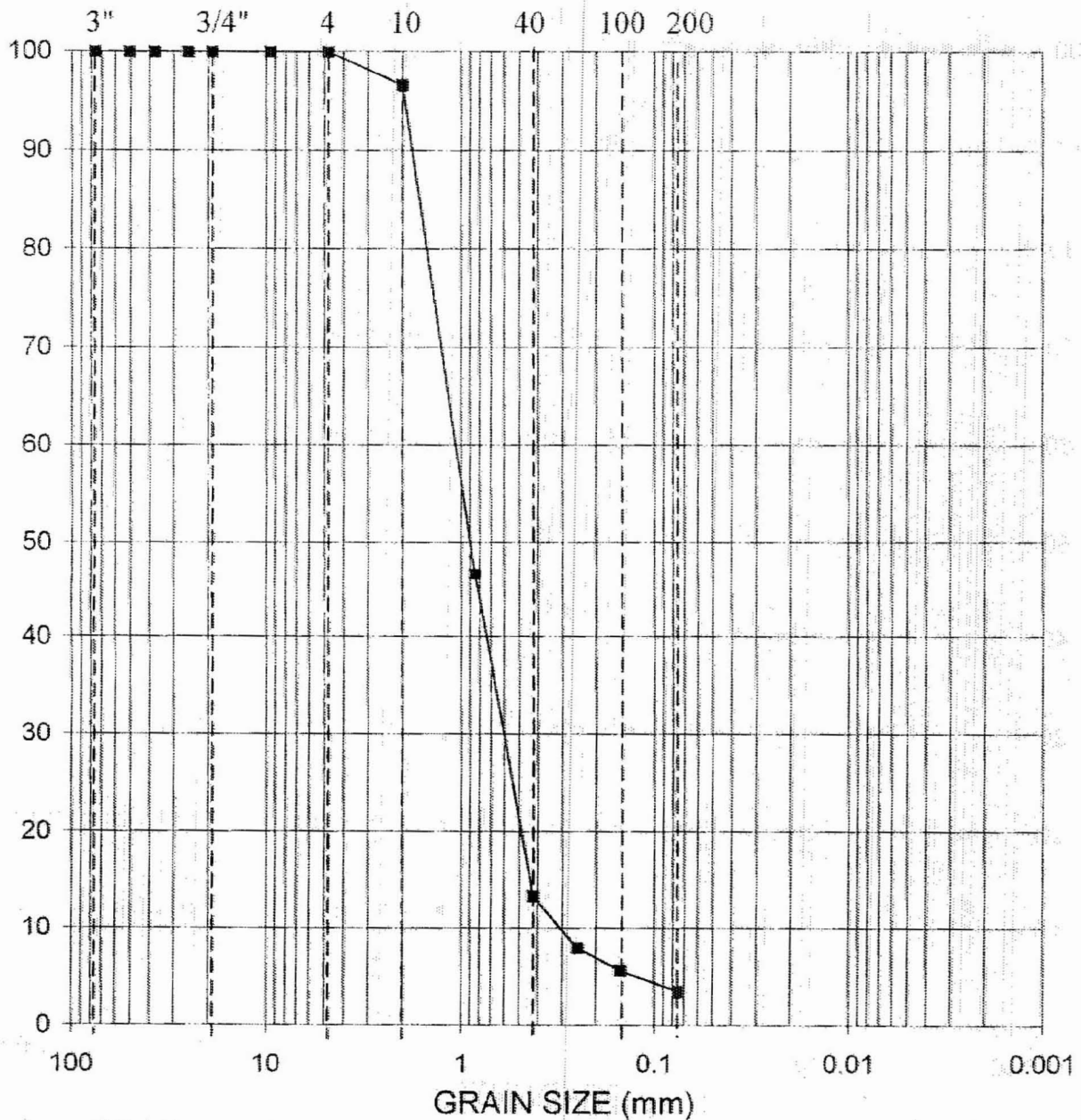
GRAVEL	SAND	SILT OR CLAY
--------	------	--------------

GRADATION CURVE ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	10/4/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-415	5	Poorly Graded SAND, with silt, tan	SP-SM				

PERCENT FINER BY WEIGHT

U.S. Standard Sieve Nos.



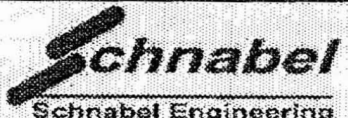
GRAVEL

SAND

SILT OR CLAY

GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.	06120048.00	Date:	10/4/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-415	13.5	Poorly Graded SAND, trace silt, brown	SP				