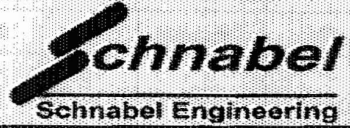
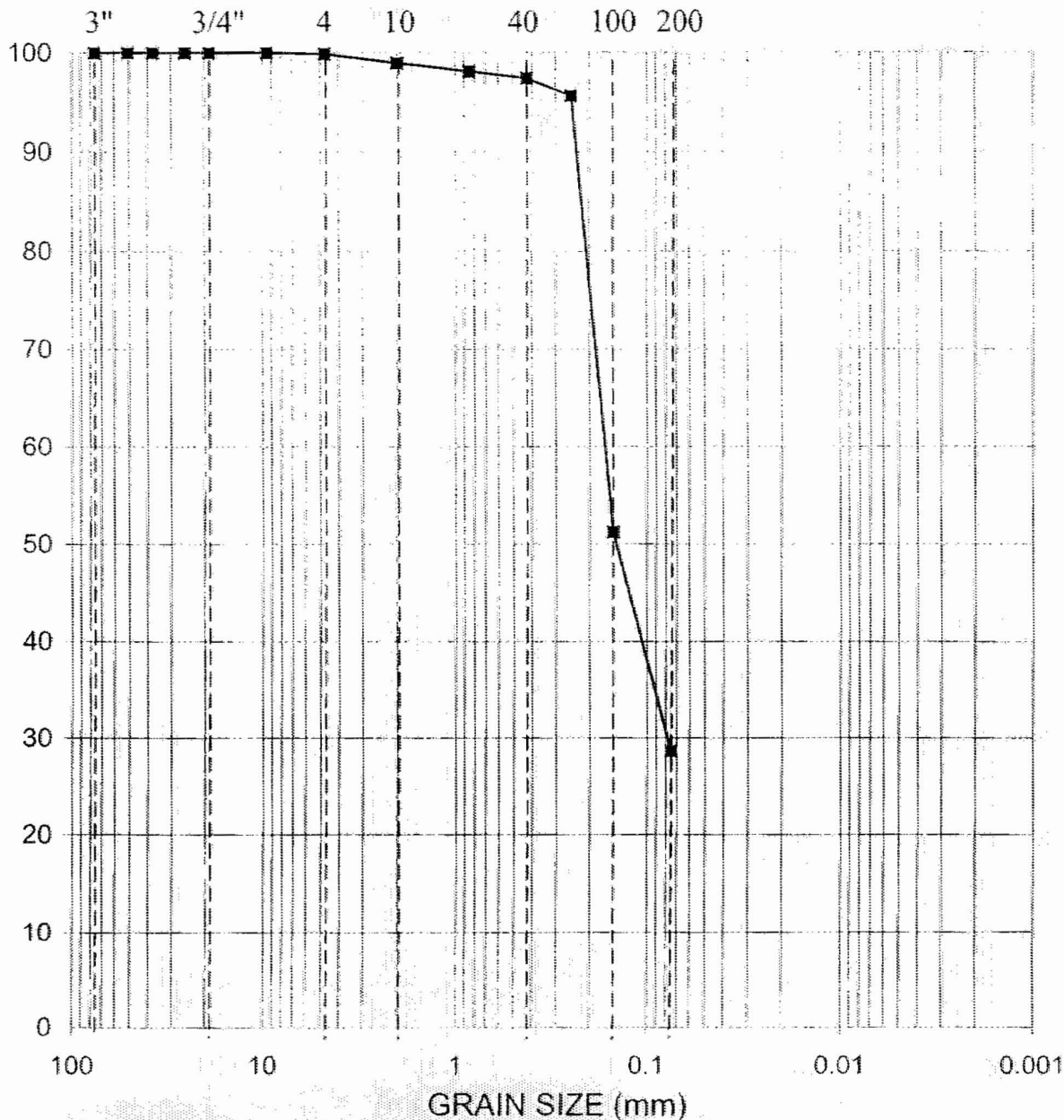


GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland				Contract No.:	06120048.00	Date:	8/28/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI			
B-315	63.5	Poorly Graded SAND, with silt, trace shells, dark green	SP-SM	NP	NP			

PERCENT FINER BY WEIGHT

U.S. Standard Sieve Nos.




GRAVEL

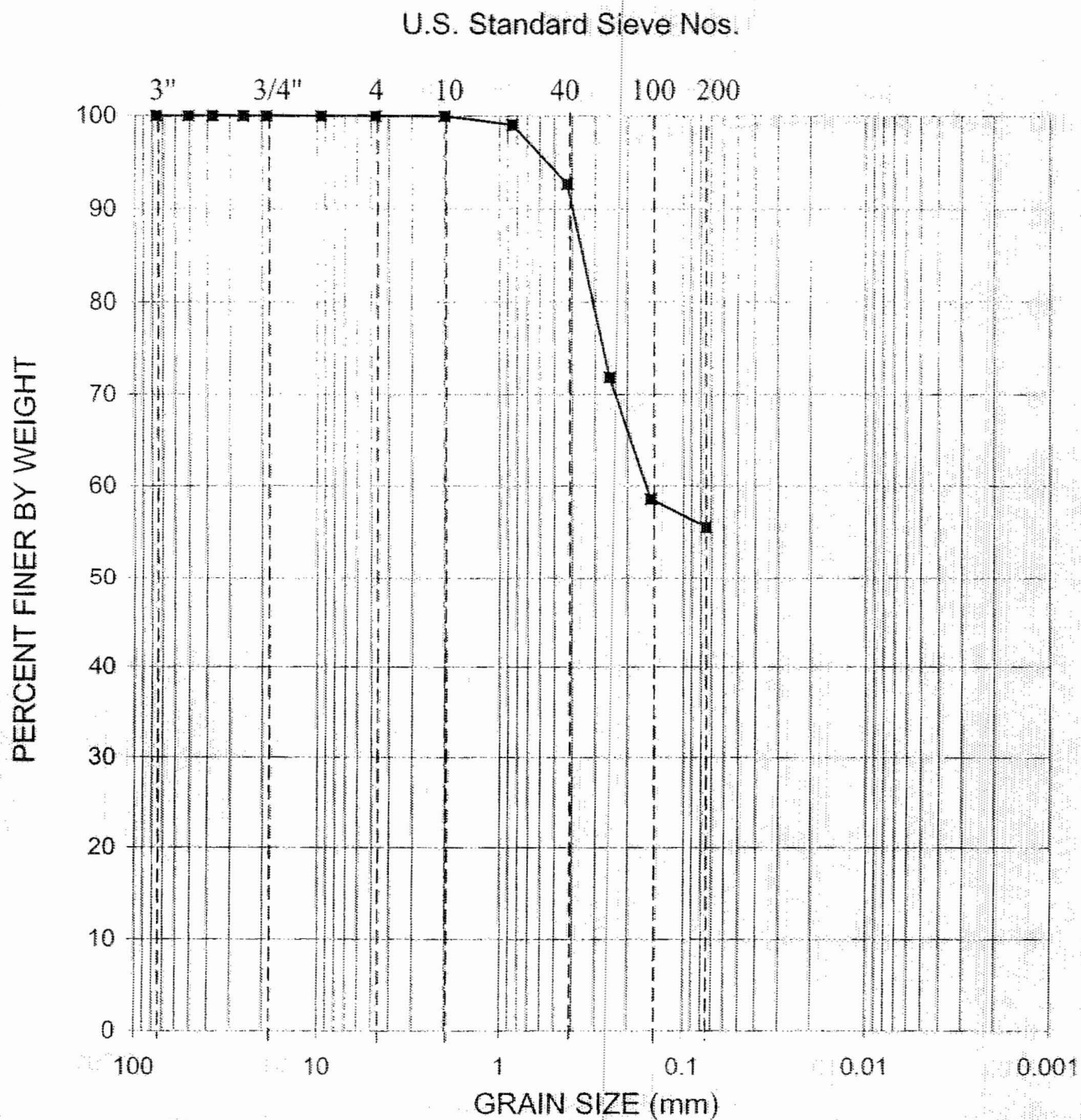
SAND

SILT OR CLAY

GRADATION CURVE


ASTM D422

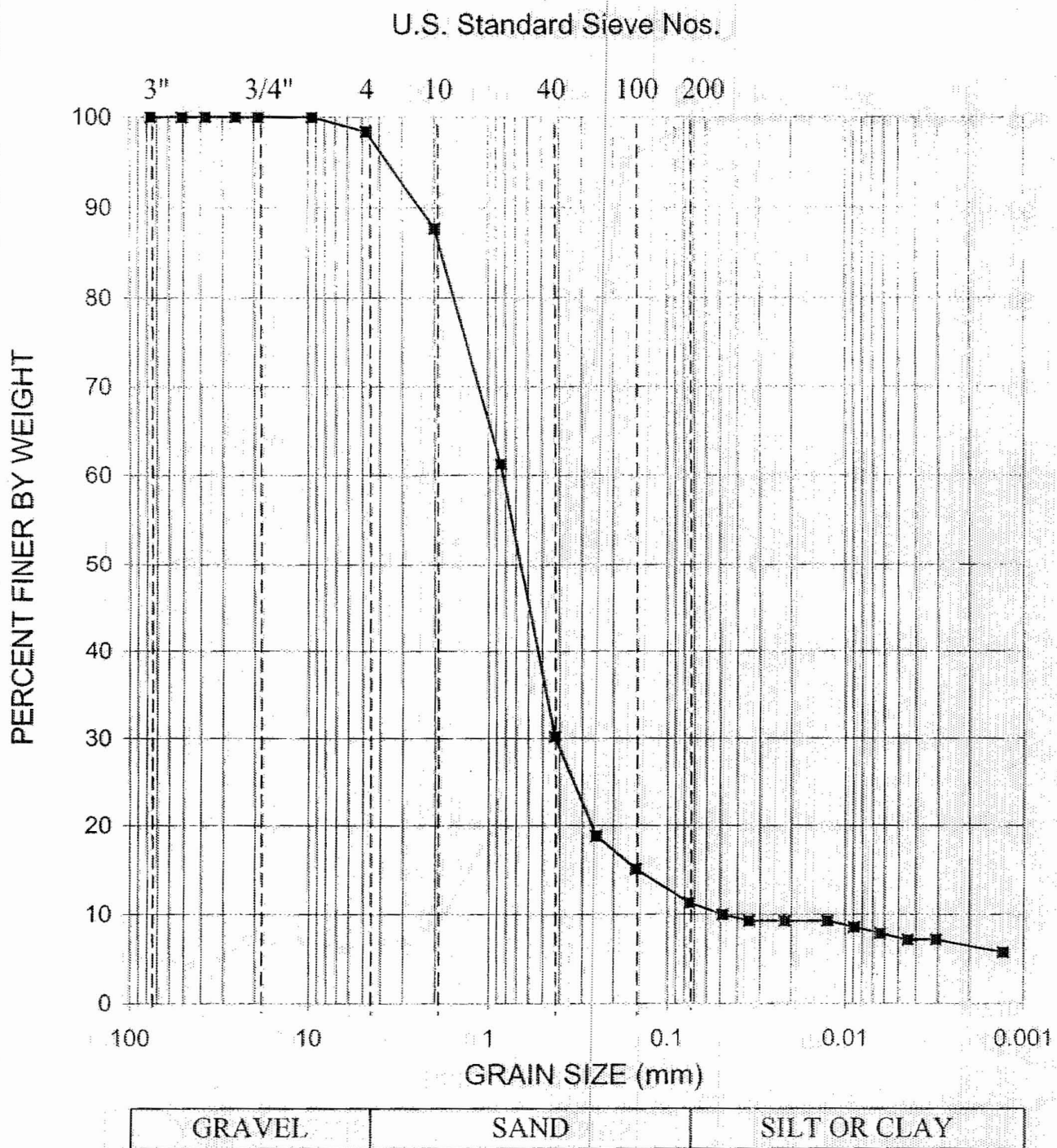
Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	8/28/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-315	83.5	Silty SAND, contains shells, green	SM	NP	NP		



GRADATION CURVE


ASTM D422

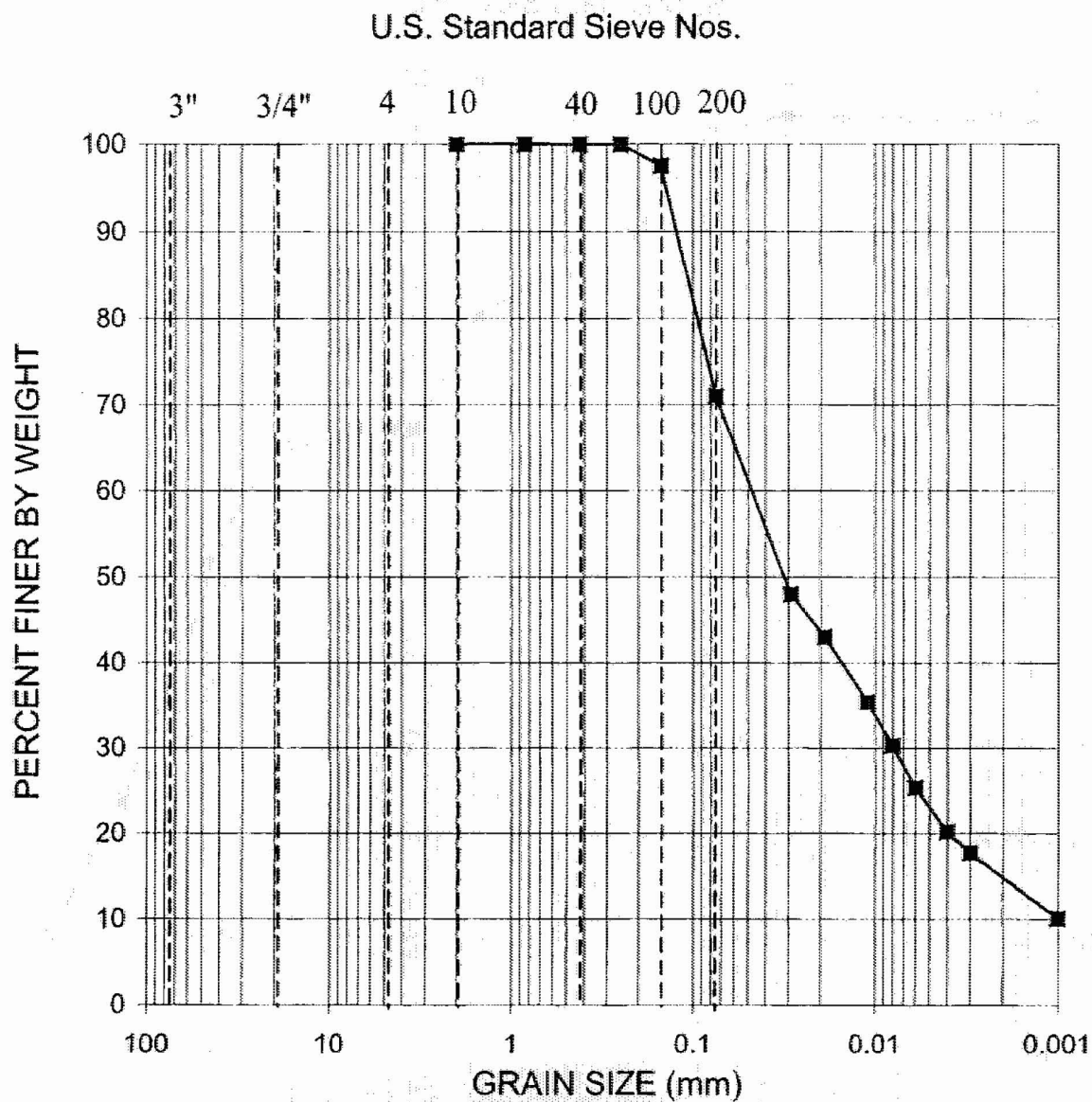
Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	8/21/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-316	7.5	Sandy LEAN CLAY, brown	CL				




GRADATION CURVE

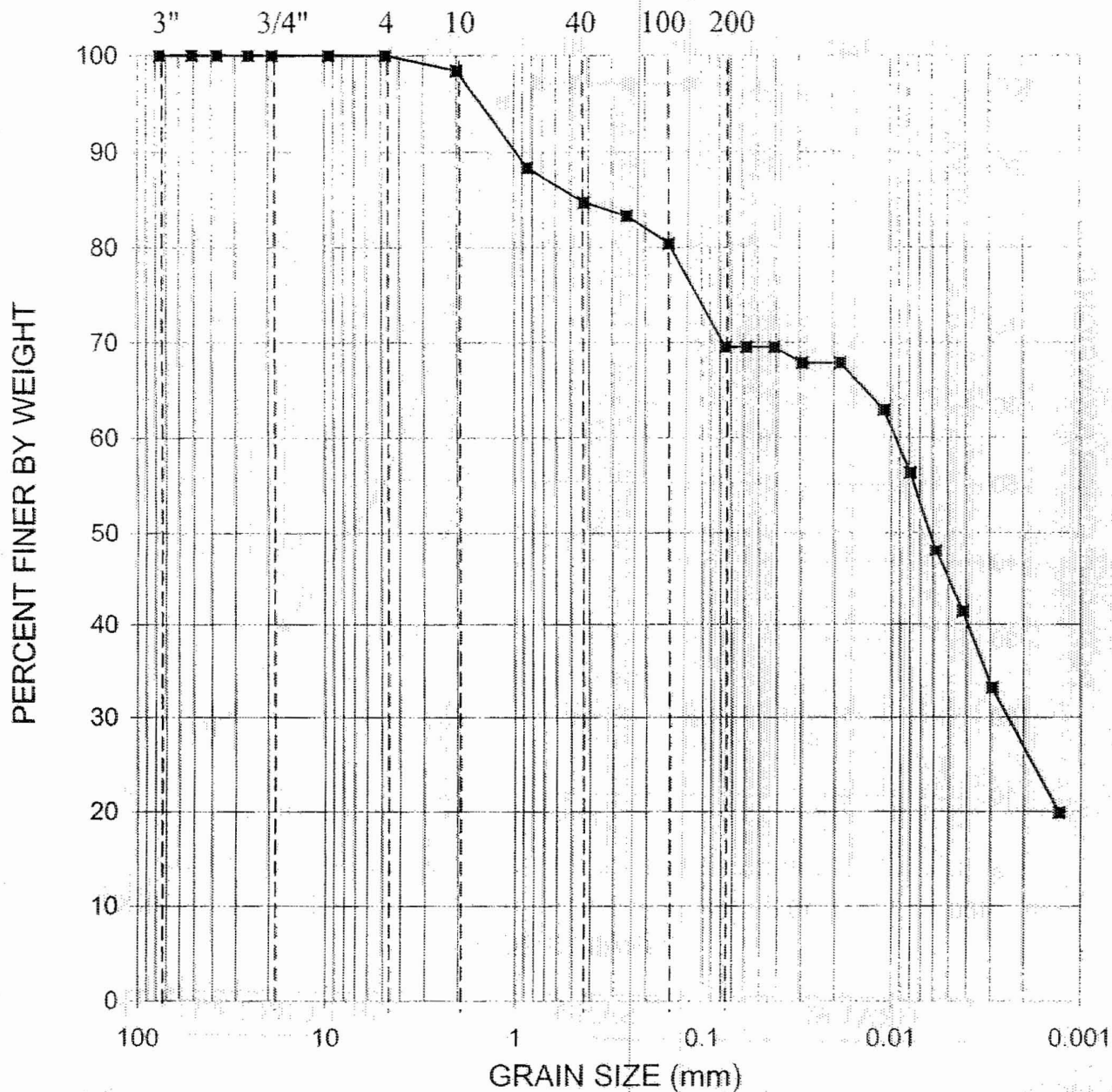
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland				Contract No.:	06120048.00	Date:	8/18/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI			
B-316	33.5	Poorly Graded SAND, with silt, trace gravel, light brown	SP-SM	43	26			



Key	Sample	Depth(ft.)	Sample Description	Class.	LL	PI	 GRADATION CURVES
■	B-316	43.5-45.5	LEAN CLAY with sand - gray	CL	44	28	
▲							Project: Calvert Cliffs Nuclear Power Plant
●							Contract No. 06120048
							Date: 10/26/06 Method: ASTM D422

U.S. Standard Sieve Nos.



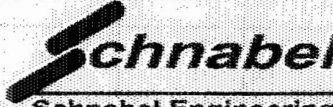
GRAVEL

SAND

SILT OR CLAY

GRADATION CURVE

ASTM D422

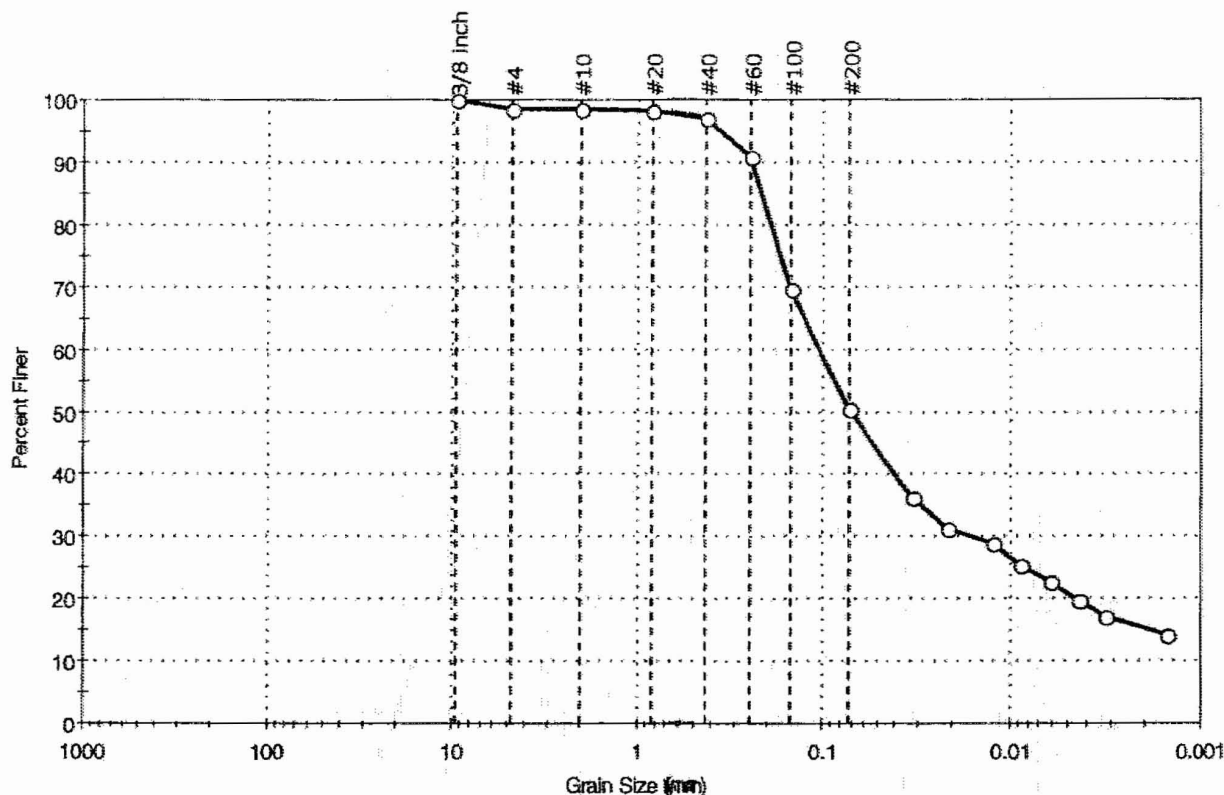
Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	8/28/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-316	48.5	Sandy ELASTIC SILT, gray	MH				

GeoTesting express

a subsidiary of Geocomp Corporation

Client: Schnabel Engineering, Inc.
 Project: Subsurface Investigation Calvert Cliffs Nuclear PP
 Location: Calvert County, MD Project No: GTX-6880
 Boring ID: B-316 Sample Type: tube Tested By: sam
 Sample ID: S-14 Test Date: 10/19/06 Checked By: mcm
 Depth: 53.5-55.5 ft Test Id: 101127
 Test Comment: ---
 Sample Description: Moist, dark olive gray sandy clay
 Sample Comment: ---

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	1.3	48.3	50.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/8 inch	9.5	100		
#4	4.75	99		
#10	2.0	99		
#20	0.85	98		
#40	0.42	97		
#60	0.25	93		
#100	0.15	70		
#200	0.075	50		
—	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
—	0.075	36		
—	0.06	31		
—	0.05	29		
—	0.04	25		
—	0.03	23		
—	0.025	20		
—	0.02	17		
—	0.015	14		

Coefficients

$D_{85} = 0.2165$ mm $D_{30} = 0.0156$ mm
 $D_{60} = 0.1052$ mm $D_{15} = 0.0019$ mm
 $D_{50} = 0.0724$ mm $D_{10} = 0.0005$ mm
 $C_u = N/A$ $C_c = N/A$

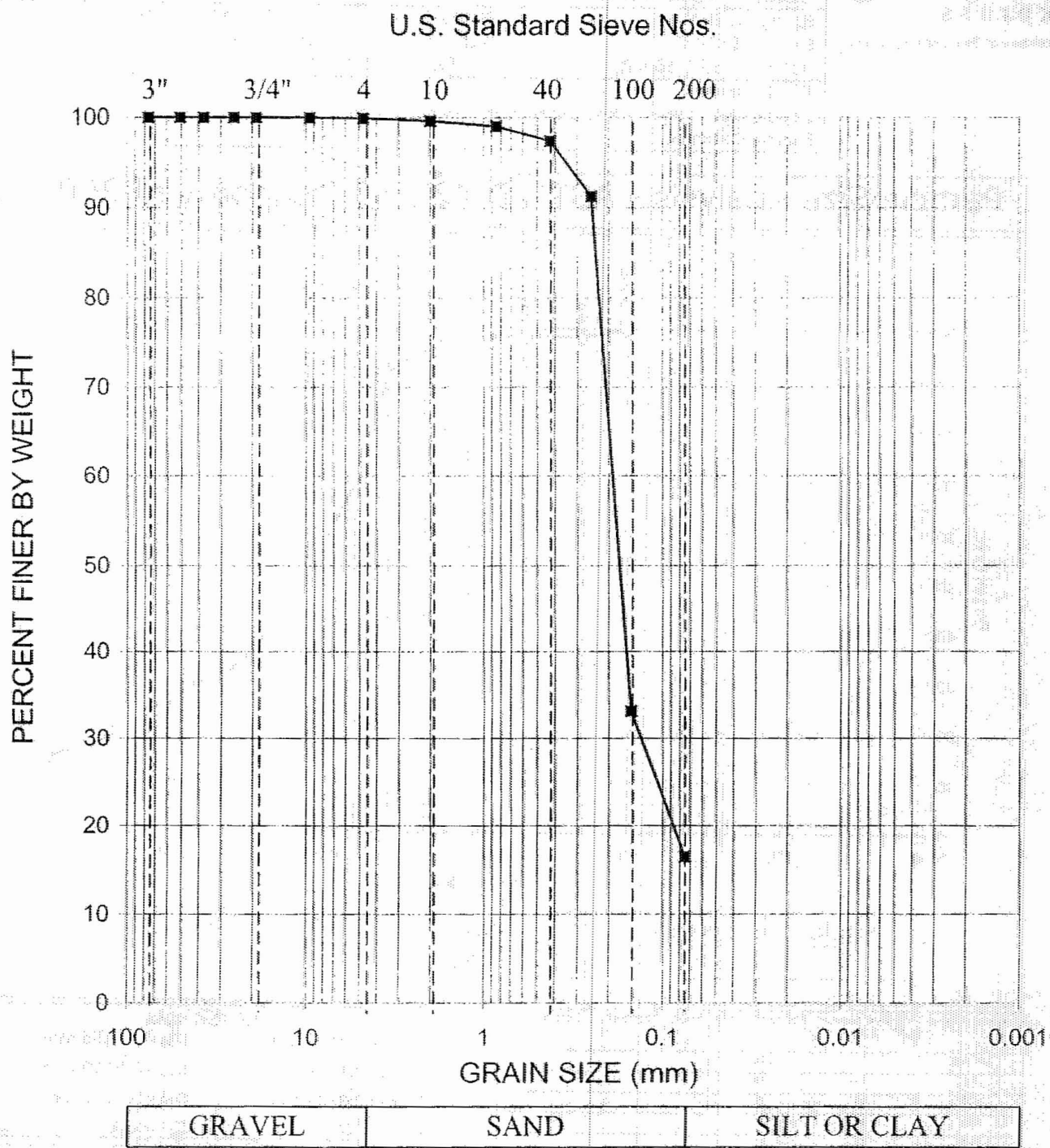
Classification

ASTM Sandy lean clay (CL)


AASHTO Clayey Soils (A-6 (8))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR
 Sand/Gravel Hardness : HARD

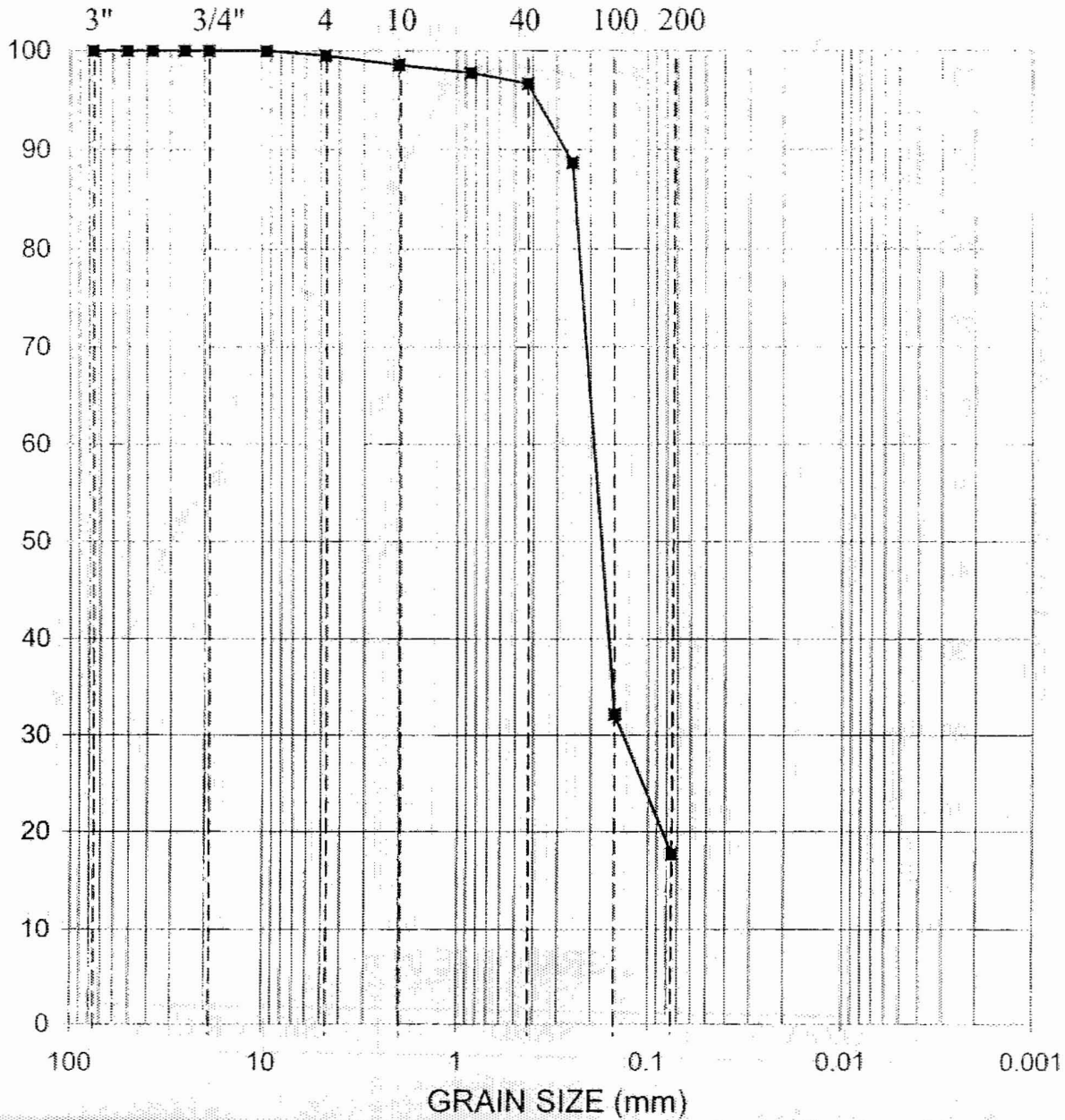


GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	8/21/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-316	68.5	Silty SAND, contains shells, dark green	SM				

U.S. Standard Sieve Nos.

PERCENT FINER BY WEIGHT




GRAVEL

SAND

SILT OR CLAY

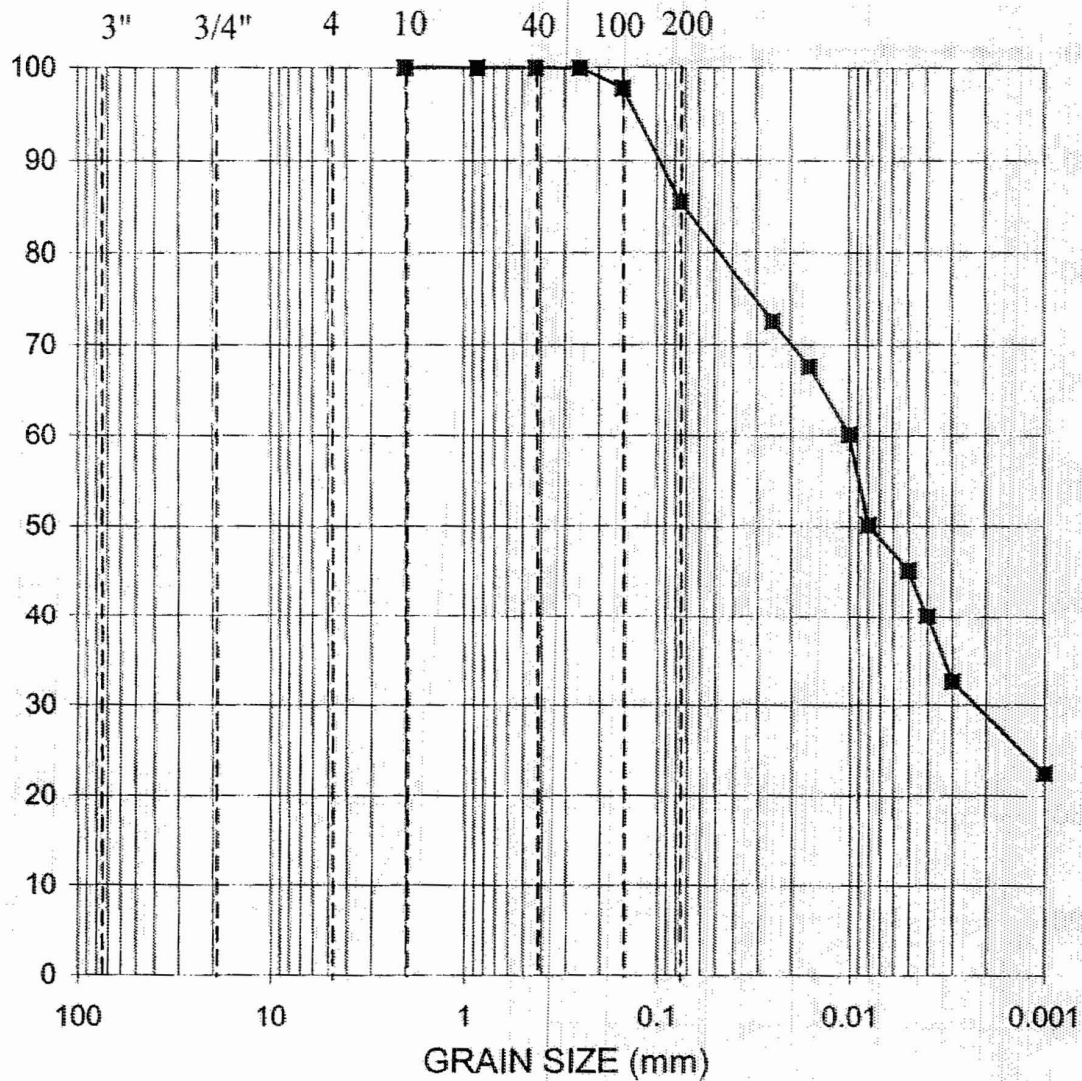
GRADATION CURVE

ASTM D422


Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.	06120048.00	Date:	8/21/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-316	93.5	Clayey SAND, contains shells, dark gray	SC				

PERCENT FINER BY WEIGHT

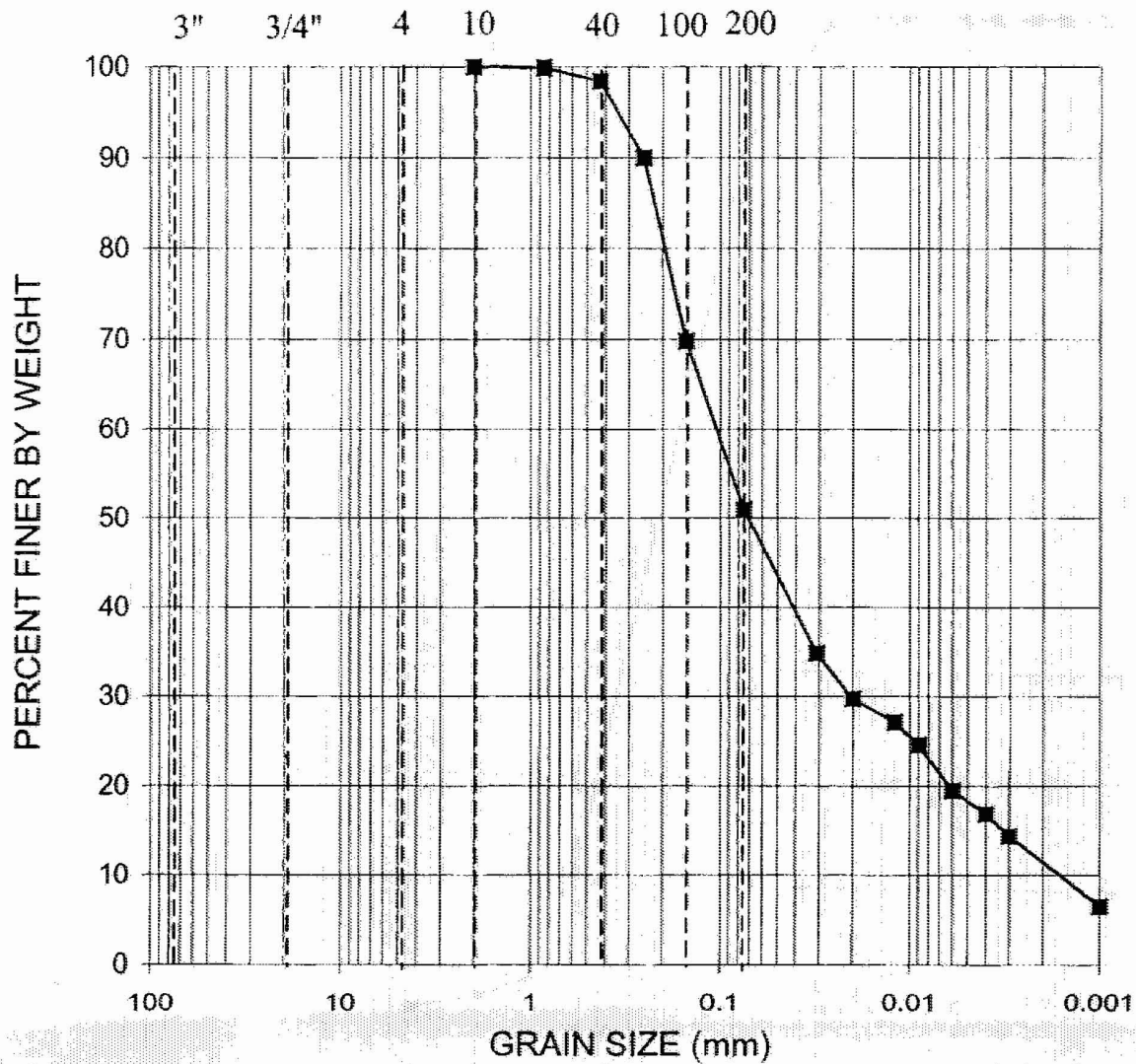
U.S. Standard Sieve Nos.




GRAVEL	SAND	SILT OR CLAY
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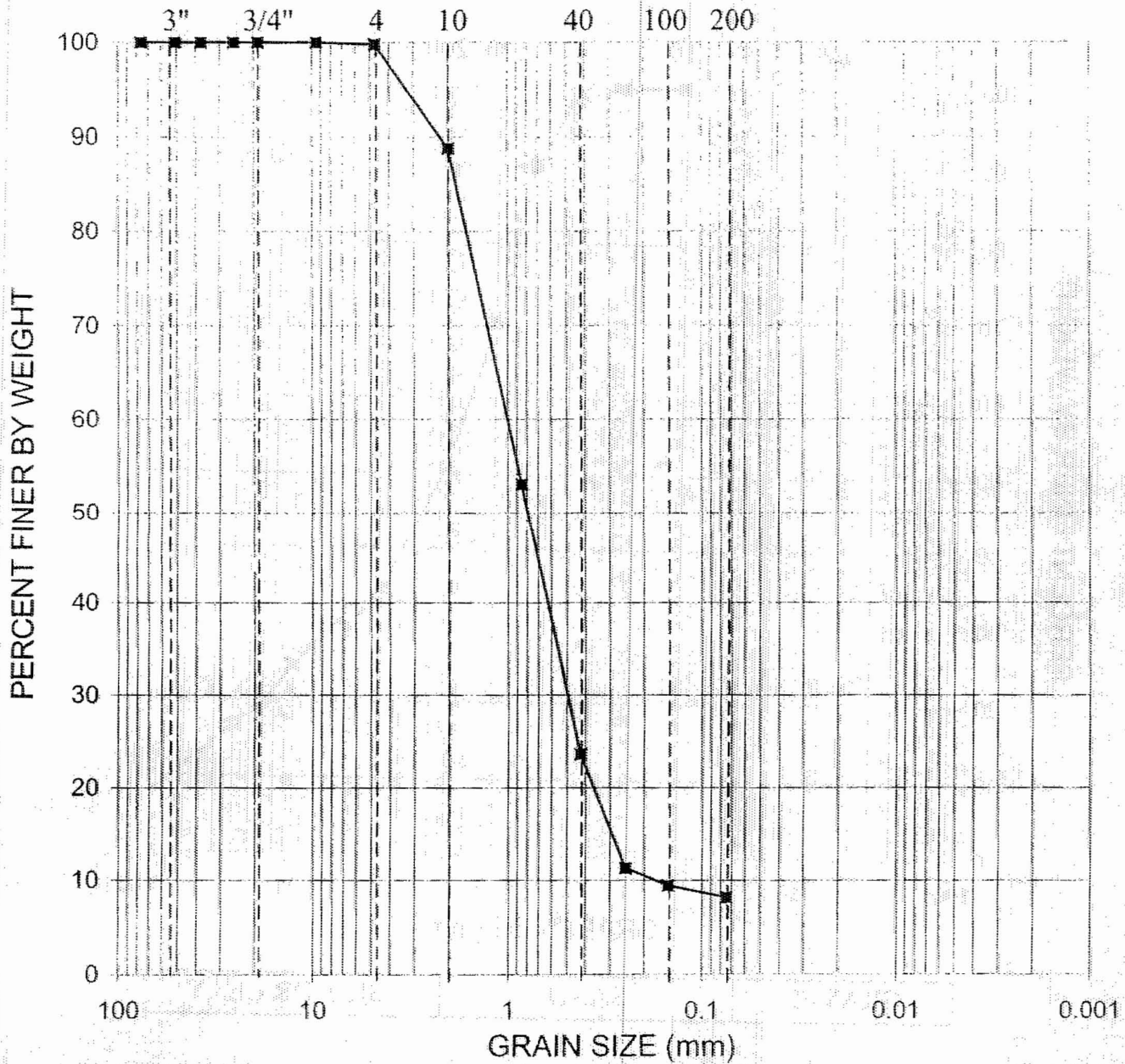
Key	Sample	Depth(ft.)	Sample Description	Class.	LL	PI	 Schnabel Engineering GRADATION CURVES
■	B-317	28.5-30.5	LEAN CLAY, trace sand - gray	CL	27	8	
▲							Project: Calvert Cliffs Nuclear Power Plant
●							Contract No. 06120048 Date: 10/06/06 Method: ASTM D422

U.S. Standard Sieve Nos.



Key	Sample	Depth(ft.)	Sample Description	Class.	LL	PI	 Schnabel Engineering GRADATION CURVES
■	B-317	48.5-50.3	Sandy LEAN CLAY - gray	CL	35	18	
▲							
●							Project: Calvert Cliffs Nuclear Power Plant Contract No. 06120048 Date: 10/06/06 Method: 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: 8/21/2006	
Boring No.	Depth (ft)	Sample Description			Class.	LL	PI	
B-319	2.5	Poorly Graded SAND with silt, brown			SP-SM			


PERCENT FINER BY WEIGHT



SAND

SILT OR CLAY

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	8/21/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-319	13.5	Poorly Graded SAND with silt, trace gravel, brown	SP-SM				



Schnabel
Schnabel Engineering