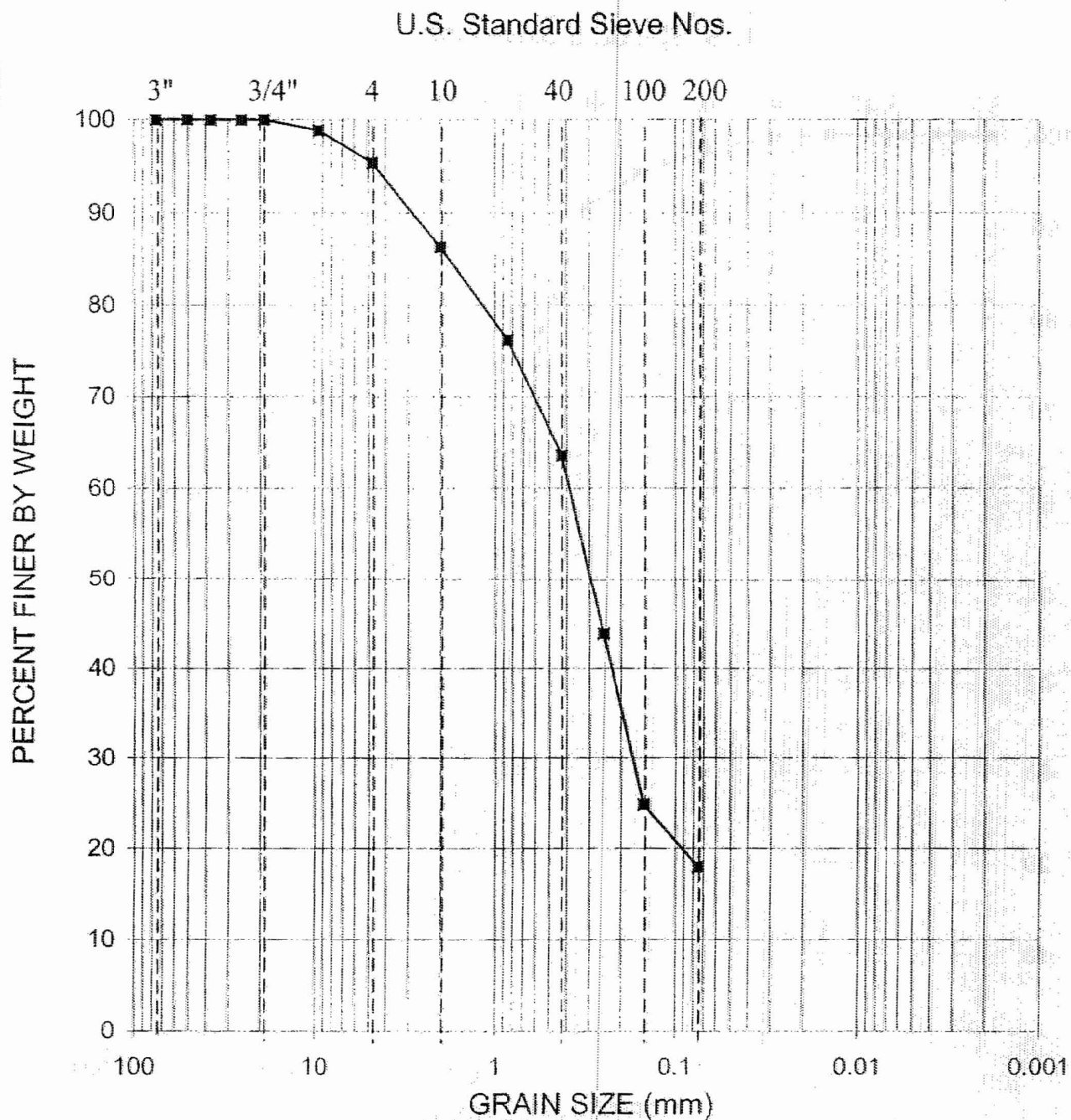


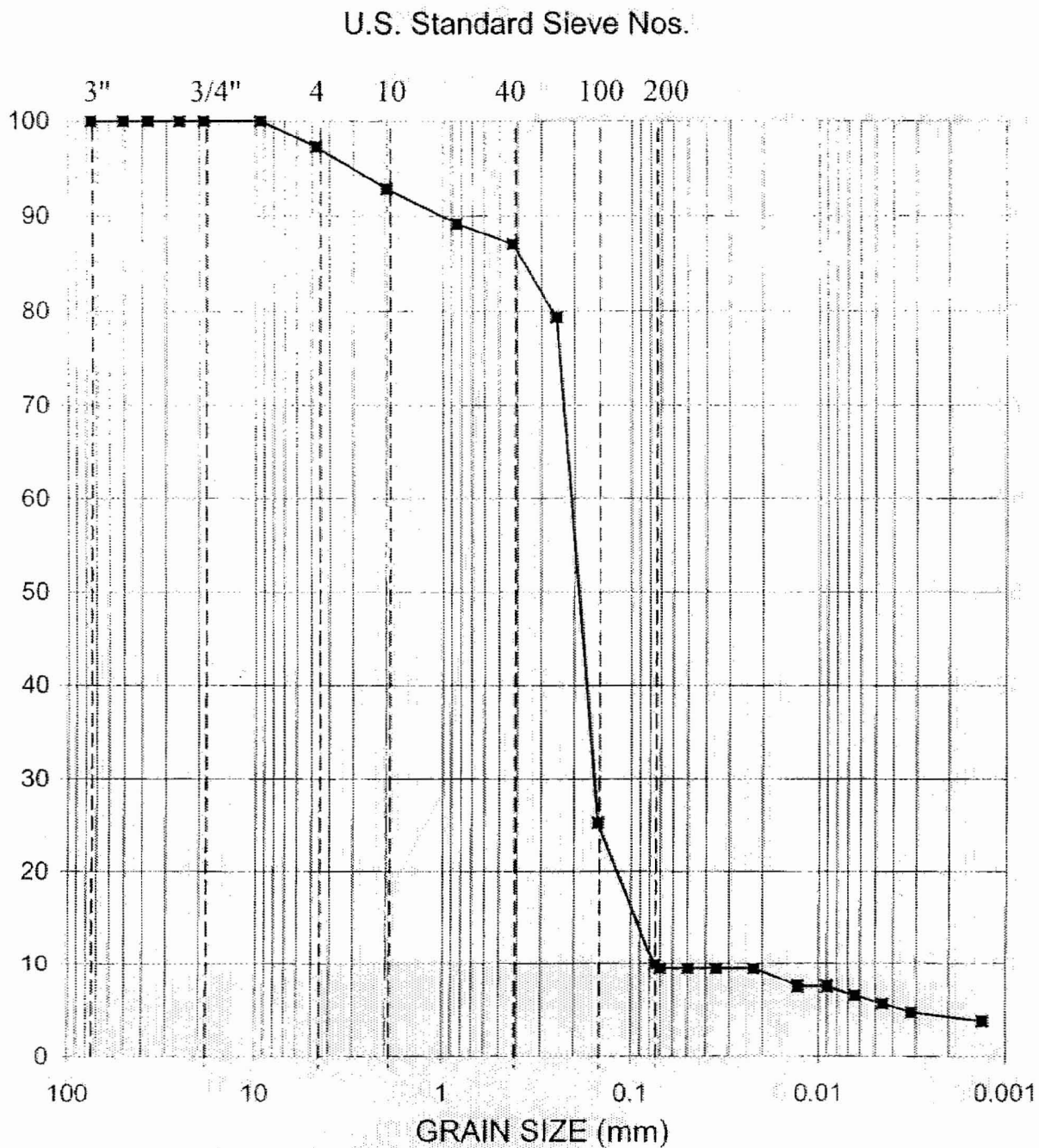


GRADATION CURVE

ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.: 06120048.00		Date: 8/17/2006	
Boring No.	Depth (ft)	Sample Description			Class.	LL	PI	
B-307	93.5	Silty SAND, trace shells, gray			SM			

PERCENT FINER BY WEIGHT

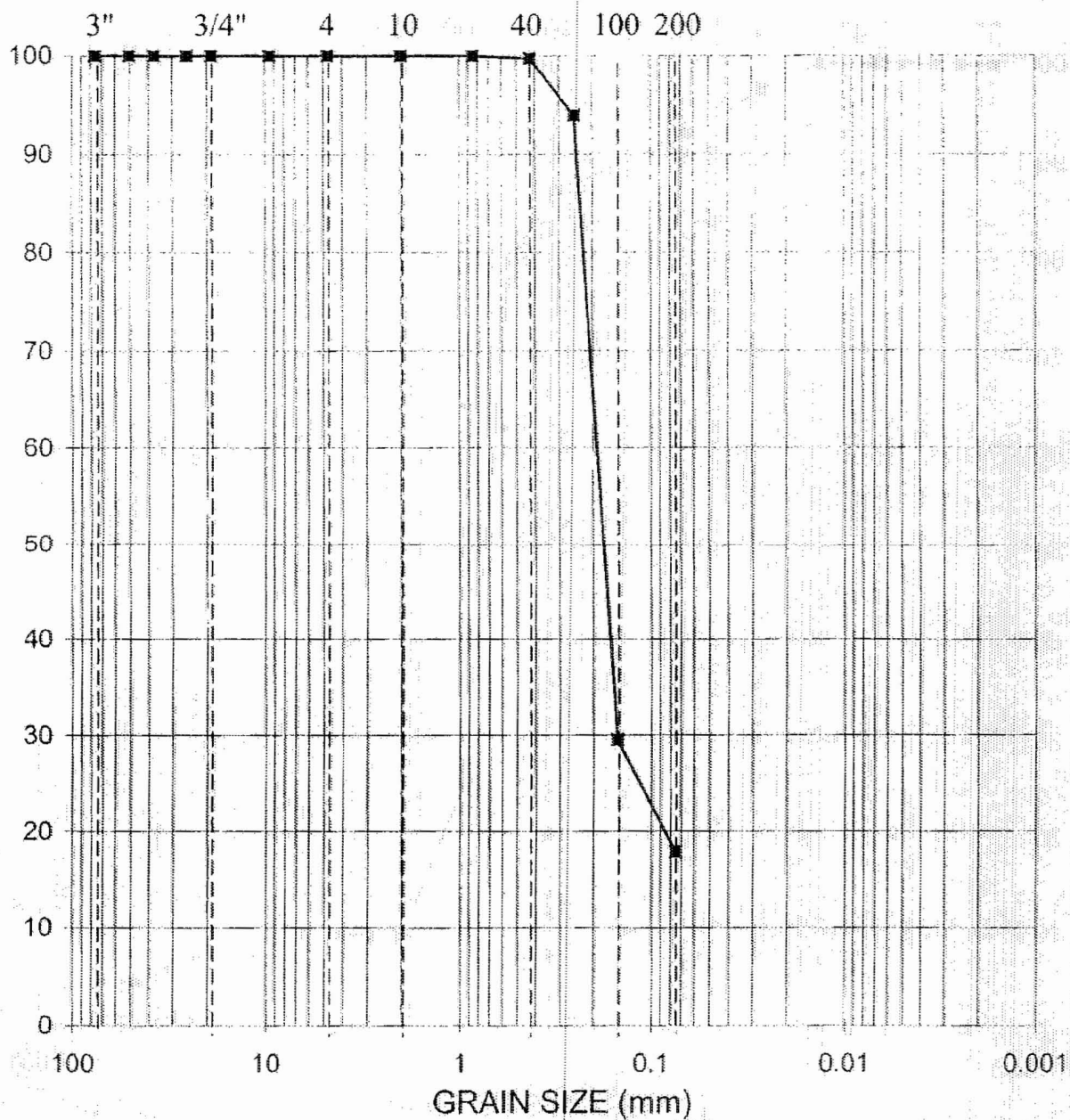


GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	8/24/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-307	108.5	Poorly Graded SAND with silt, trace shells, green	SP-SM	NP	NP		

PERCENT FINER BY WEIGHT

U.S. Standard Sieve Nos.



GRAVEL

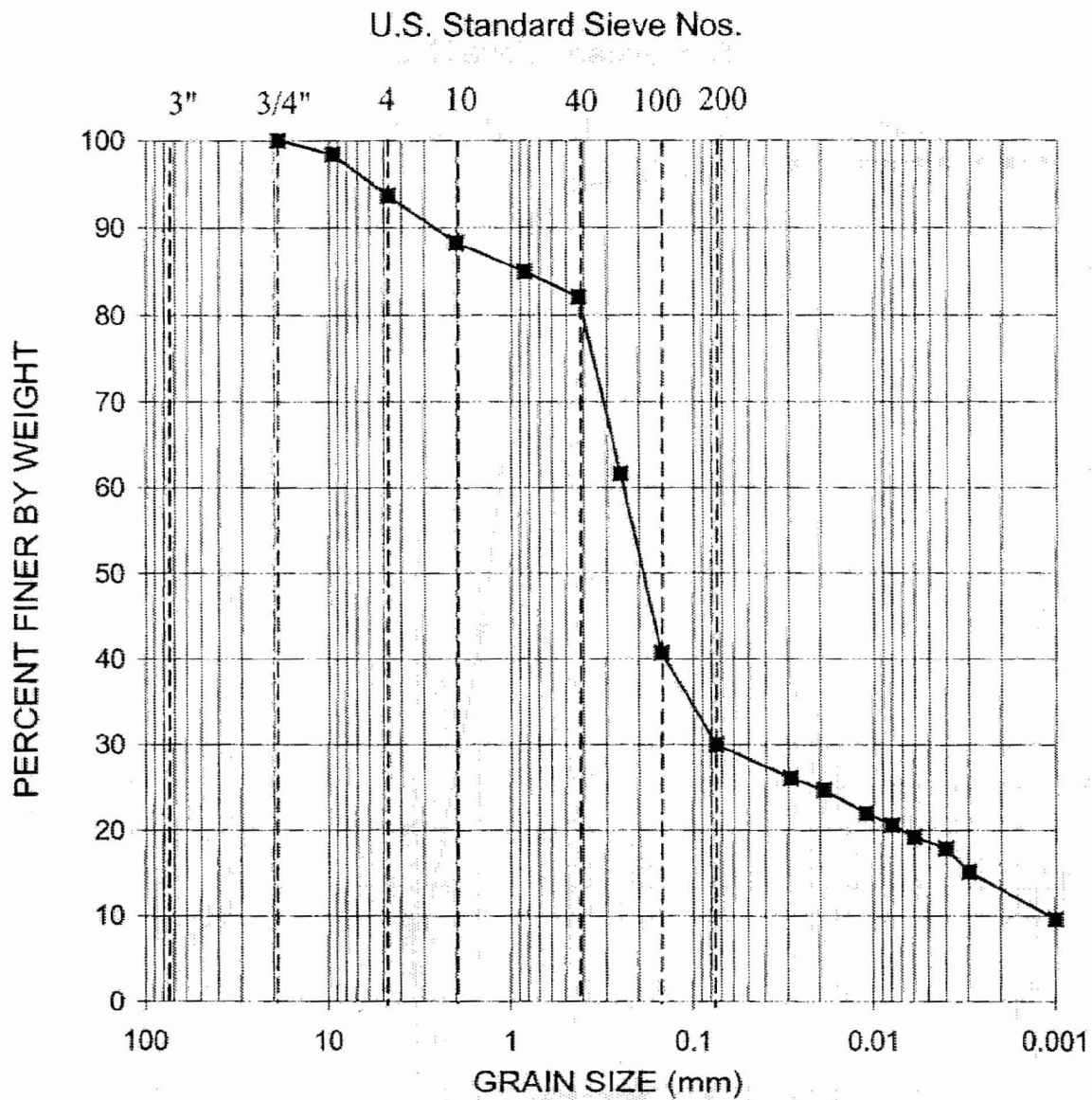
SAND

SILT OR CLAY

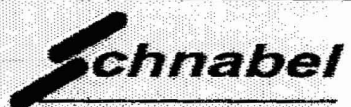
GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland				Contract No.:	06120048.00	Date:	8/17/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI			
B-307	118.5	Silty SAND, gray	SM	32	7			

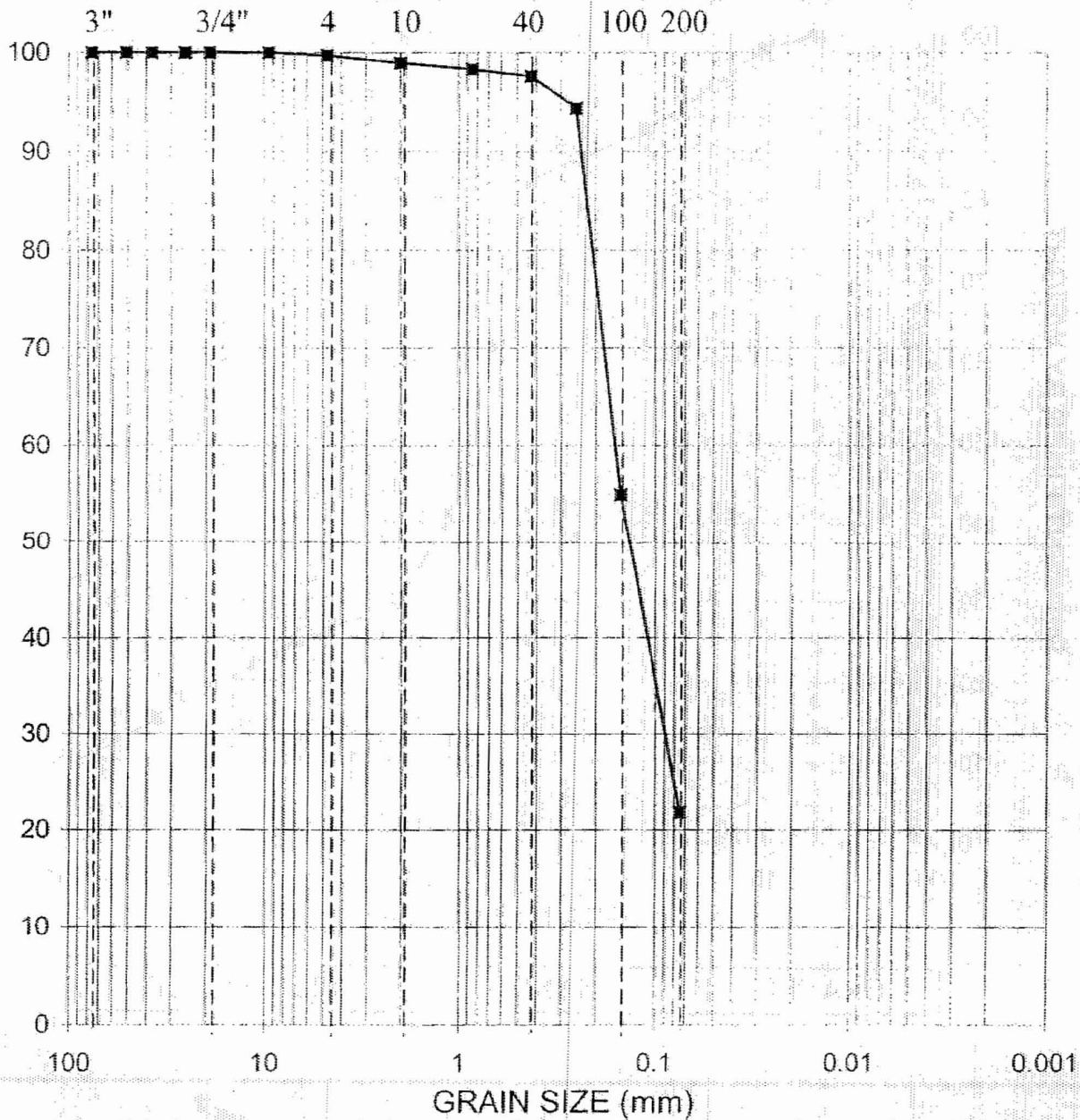


GRAVEL	SAND	SILT OR CLAY
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Key	Sample	Depth(ft.)	Sample Description	Class.	LL	PI	 Schnabel Engineering GRADATION CURVES
■	B-307	123.5-124.7	Fine CLAYEY SAND, contains shell fragments - gray	SC	35	16	
▲							Project: Calvert Cliffs Nuclear Power Plant
●							Contract No. 06120048
							Date: 11/20/06 Method: ASTM D422

U.S. Standard Sieve Nos.

PERCENT FINER BY WEIGHT



GRAVEL

SAND

SILT OR CLAY

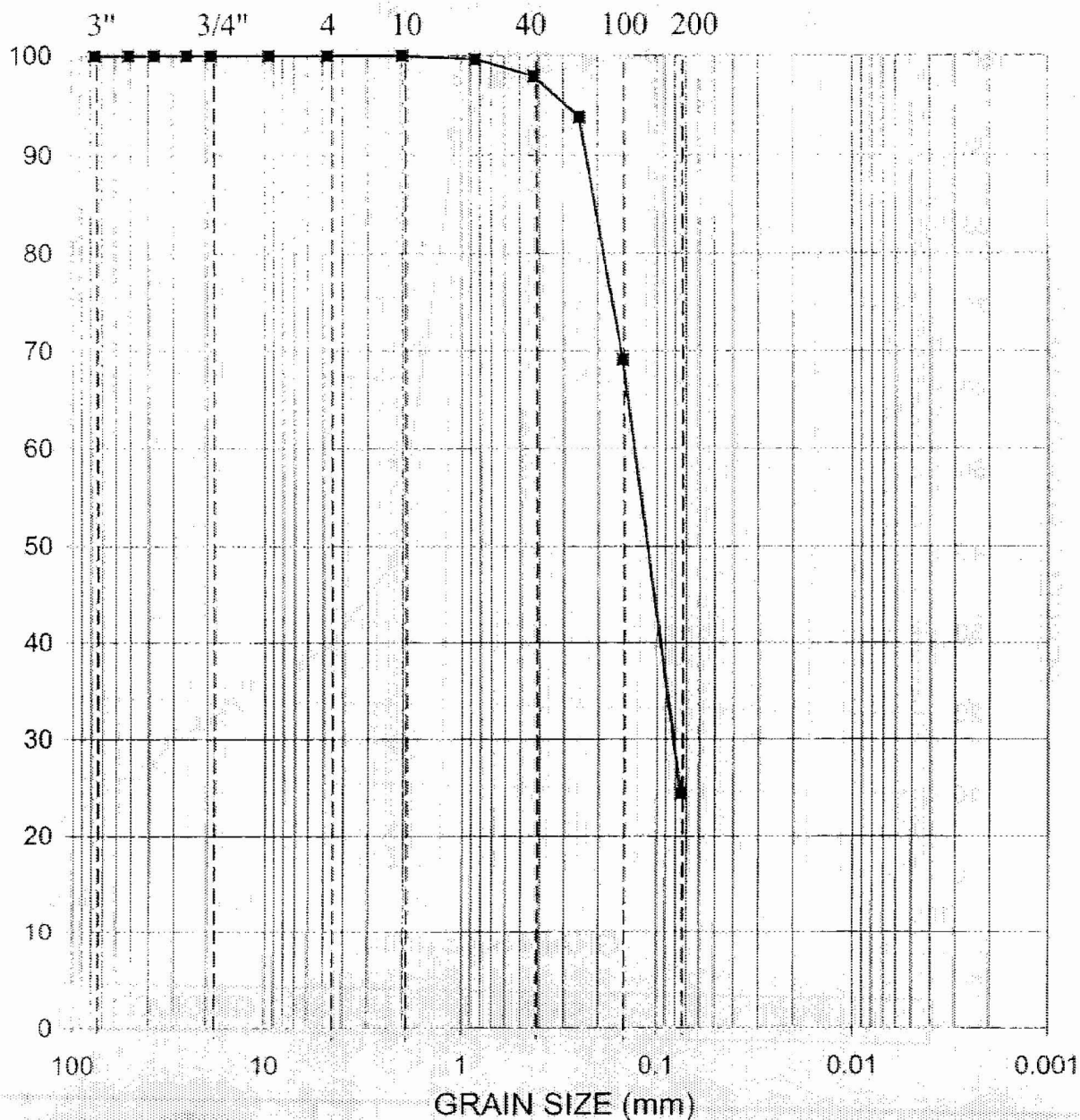
GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	8/17/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-307	133.5	Silty SAND, gray	SM				

PERCENT FINER BY WEIGHT

U.S. Standard Sieve Nos.

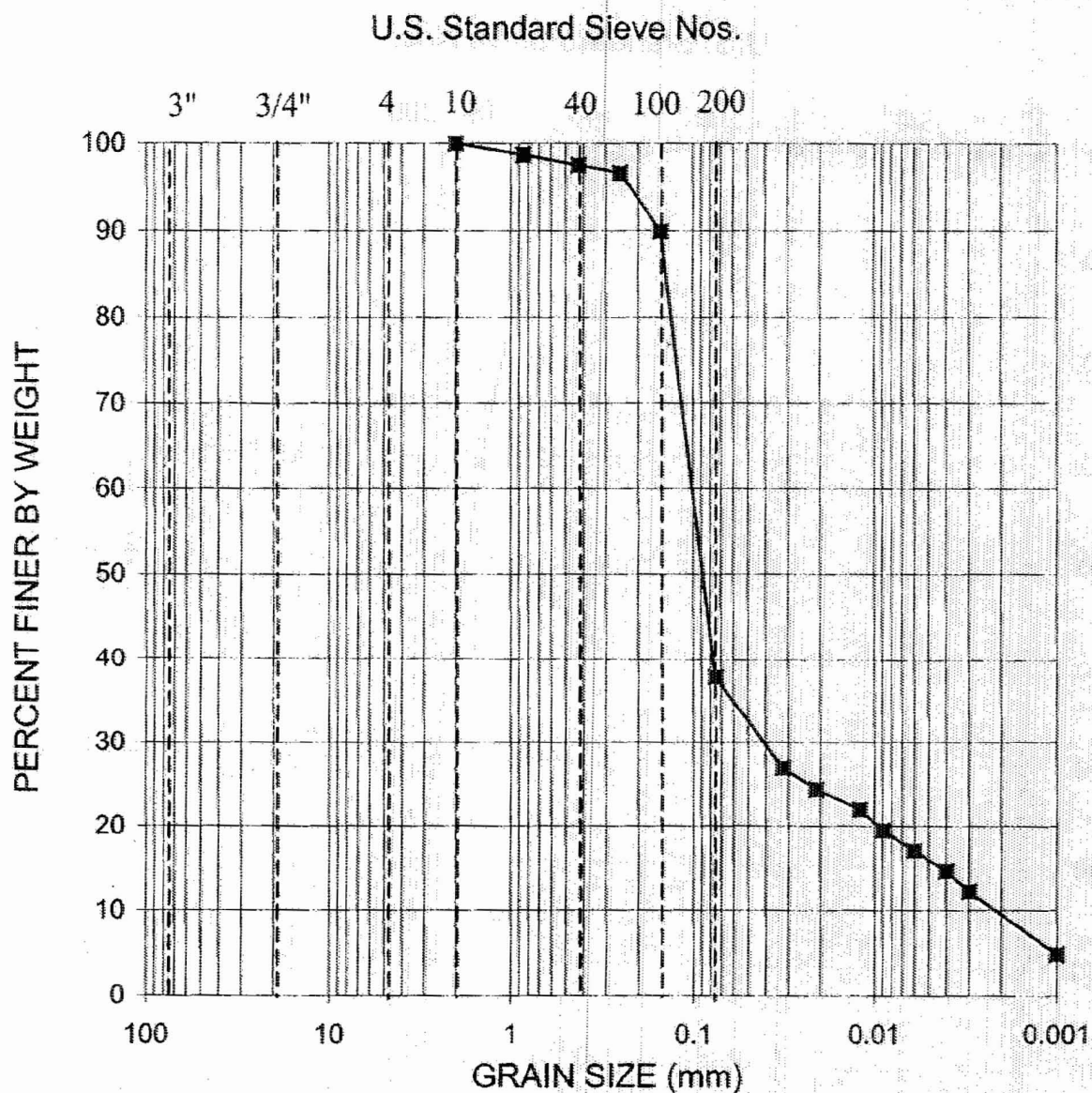


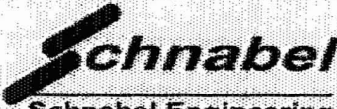
GRAVEL	SAND	SILT OR CLAY
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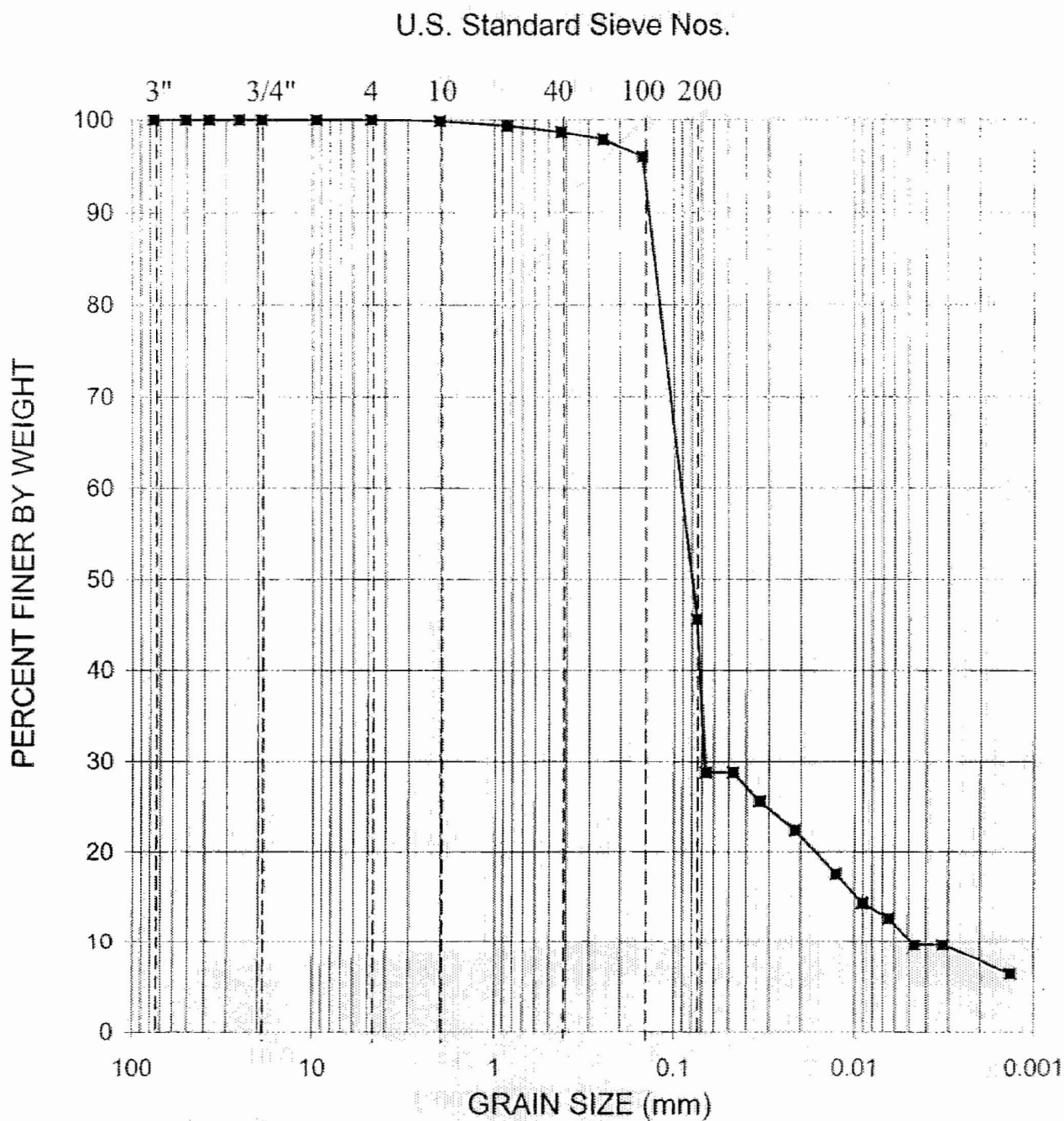
GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland				Contract No.:	06120048.00	Date:	8/17/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI			
B-307	153.5	Silty SAND, dark green	SM	58	21			



Key	Sample	Depth(ft.)	Sample Description	Class.	LL	PI	 Schnabel Engineering GRADATION CURVES
■	B-307	178.5-180.4 ft	Fine to medium CLAYEY SAND, contains shell fragments - green gray	SC	41	16	
▲							Project: Calvert Cliffs Nuclear Power Plant
●							Contract No. 06120048 Date: 10/16/06 Method: ASTM D422



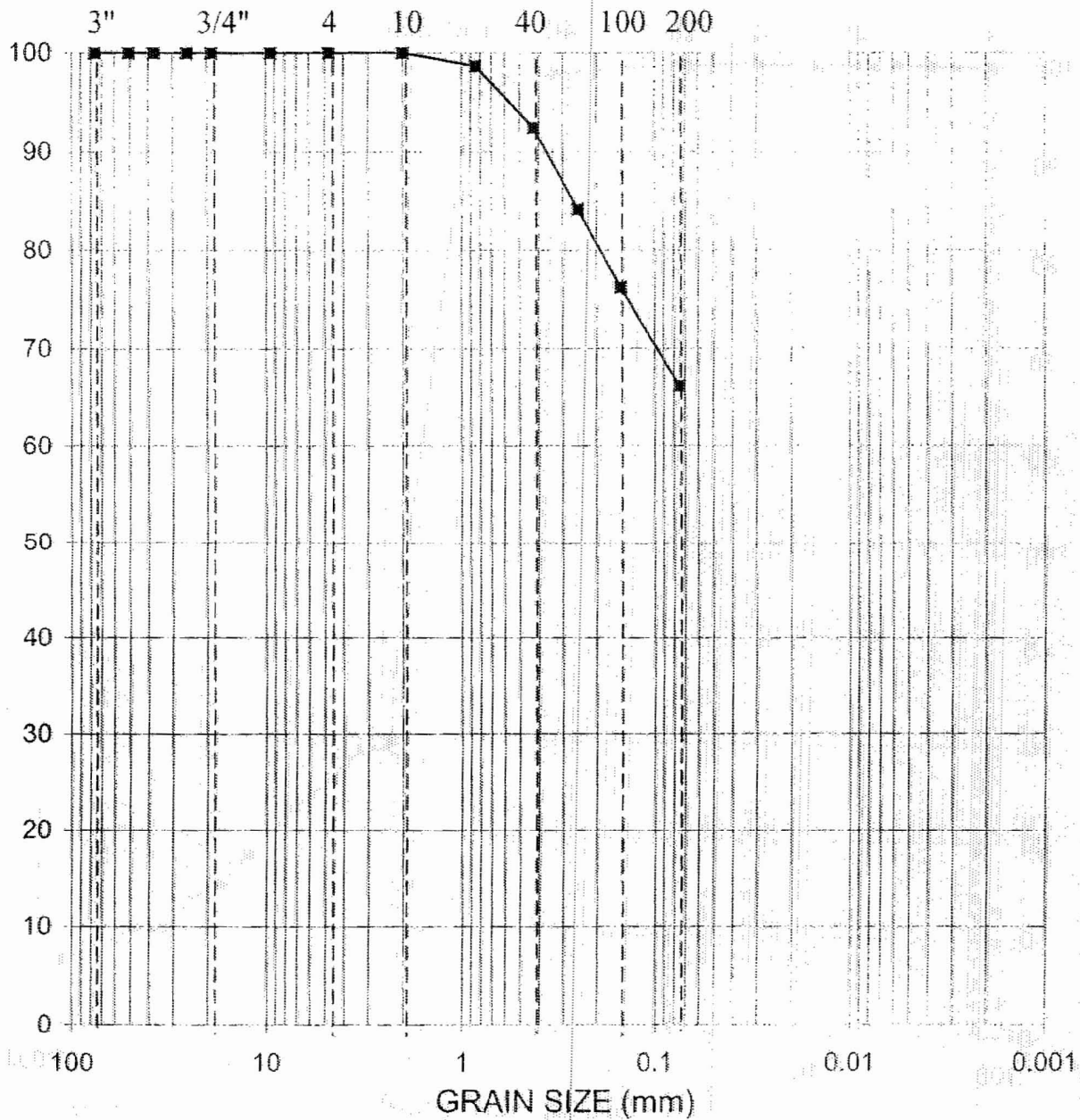
GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	8/22/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-307	188.5	Silty SAND, dark green	SM	61	21		

PERCENT FINER BY WEIGHT

U.S. Standard Sieve Nos.



GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE

ASTM D422

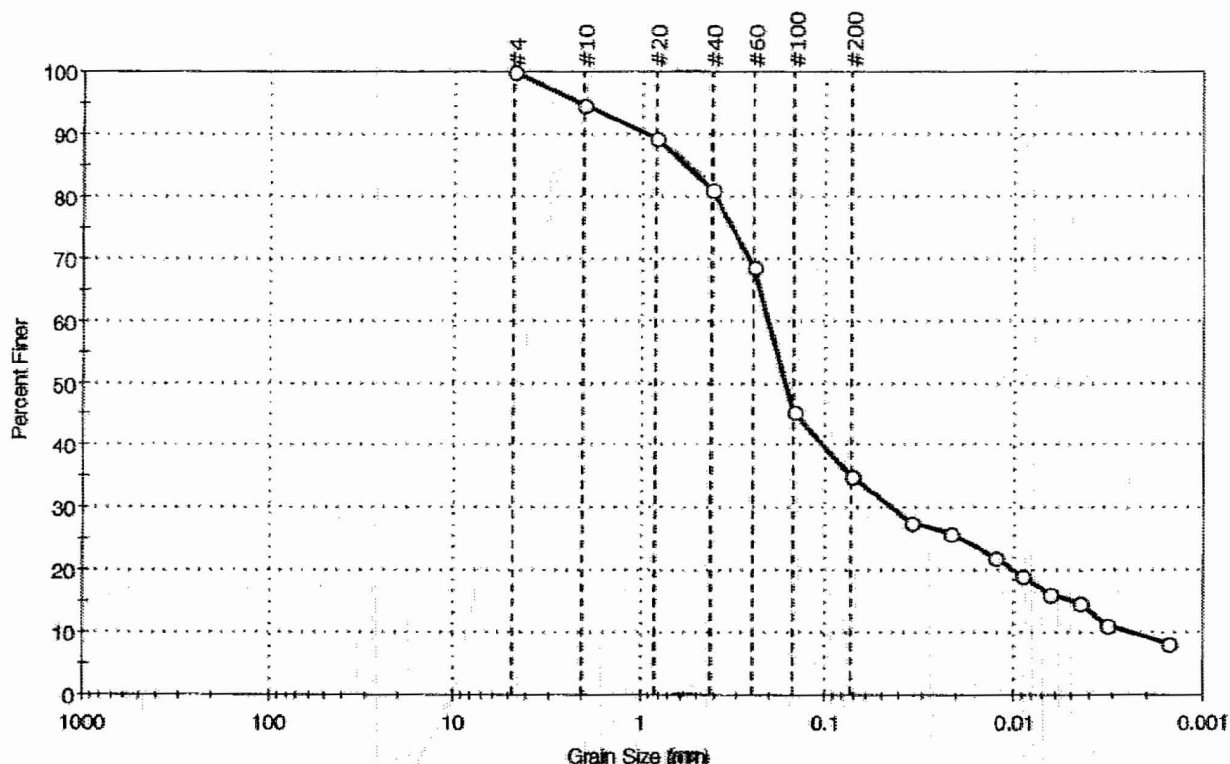
Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.: 06120048.00	Date: 8/17/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	
B-307	200.0	Sandy ELASTIC SILT, green	MH	137	76	

GeoTesting express

a subsidiary of Geocomp Corporation

Client:	Schnabel Engineering, Inc.	Project No:	GTX-6880
Project:	Subsurface Investigation Calvert Cliffs Nuclear PP	Sample Type:	tube
Location:	Calvert County, MD	Test Date:	09/08/06
Boring ID:	B-314	Tested By:	sam
Sample ID:	S-6	Checked By:	mcm
Depth:	13.5-15.5 ft	Test Id:	95347
Test Comment:	---		
Sample Description:	Moist, dark olive gray clayey sand		
Sample Comment:	---		

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	—	64.9	35.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	95		
#20	0.85	90		
#40	0.425	81		
#60	0.25	69		
#100	0.15	45		
#200	0.075	35		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0350	28		
---	0.0218	26		
---	0.0127	22		
---	0.0090	19		
---	0.0064	16		
---	0.0045	15		
---	0.0032	11		
---	0.0015	8		

Coefficients

D ₈₅ = 0.5783 mm	D ₃₀ = 0.0436 mm
D ₆₀ = 0.2062 mm	D ₁₅ = 0.0048 mm
D ₅₀ = 0.1654 mm	D ₁₀ = 0.0024 mm
C _u = N/A	C _c = N/A

Classification

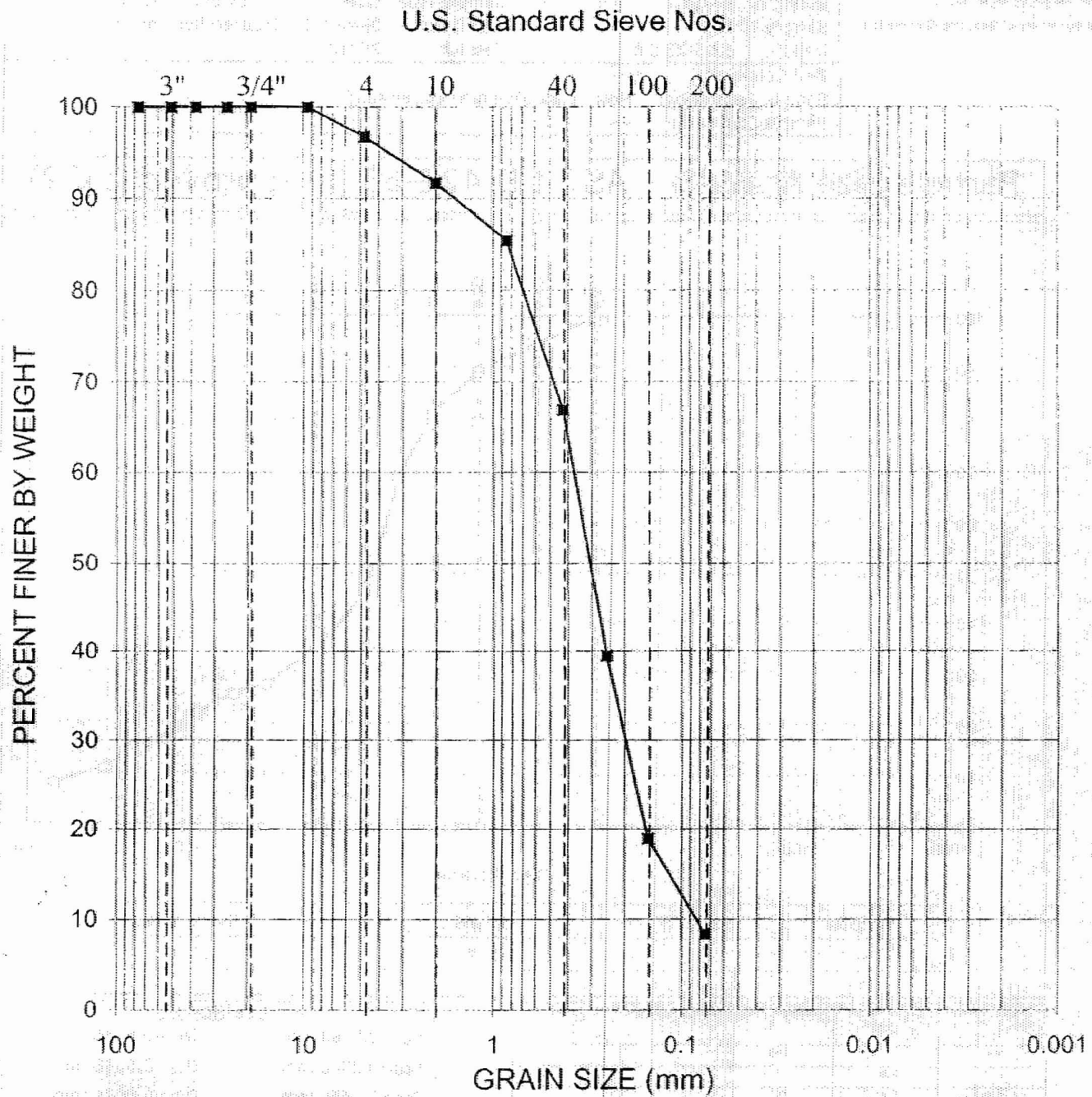
ASTM Clayey sand (SC)

AASHTO Clayey Soils (A-7-6 (12))

Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---



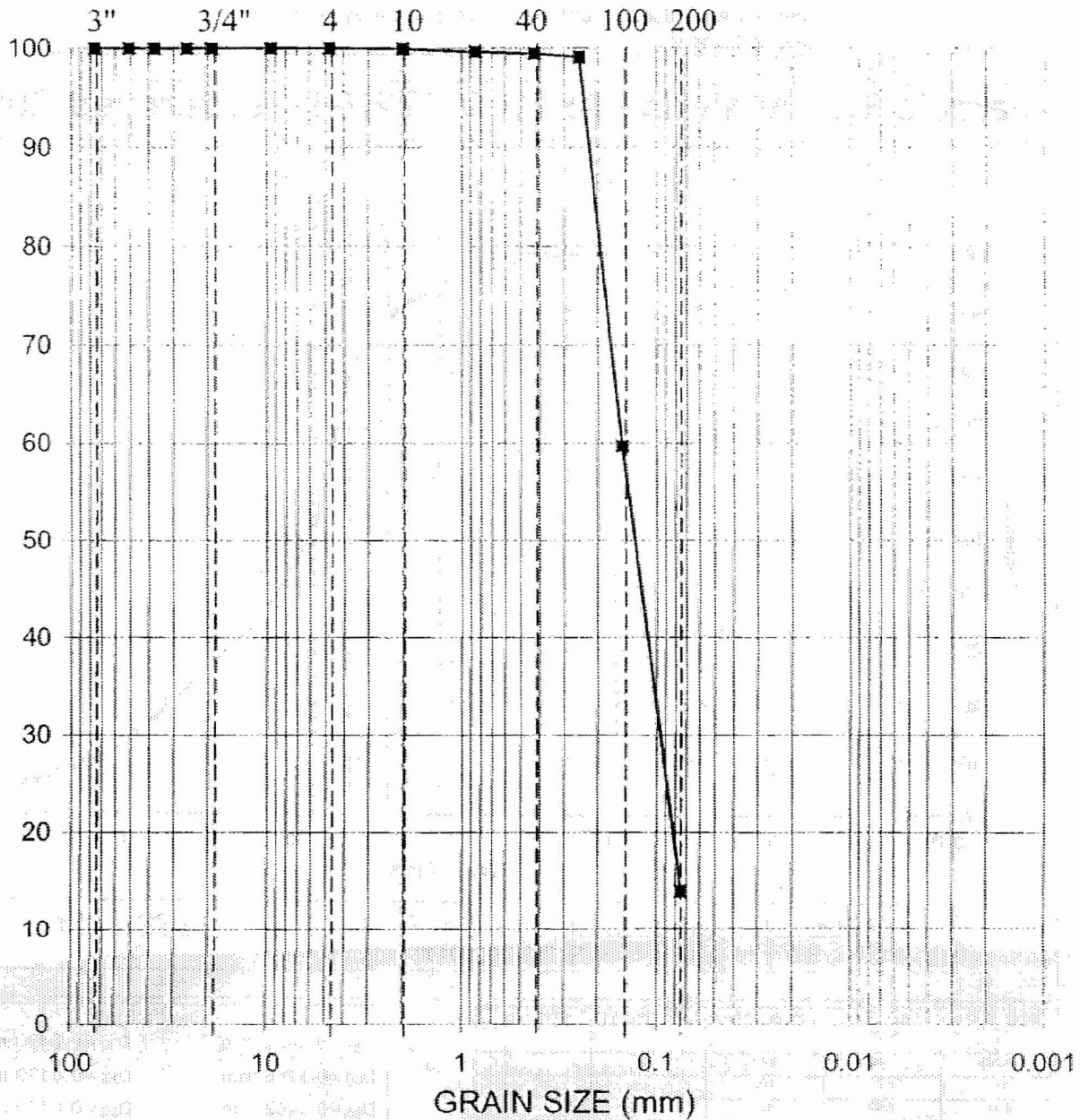
GRADATION CURVE

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	7.5	Poorly Graded SAND with silt, trace gravel, light brown		SP-SM				

U.S. Standard Sieve Nos.

PERCENT FINER BY WEIGHT



GRAVEL

SAND

SILT OR CLAY

GRADATION CURVE

ASTM D422

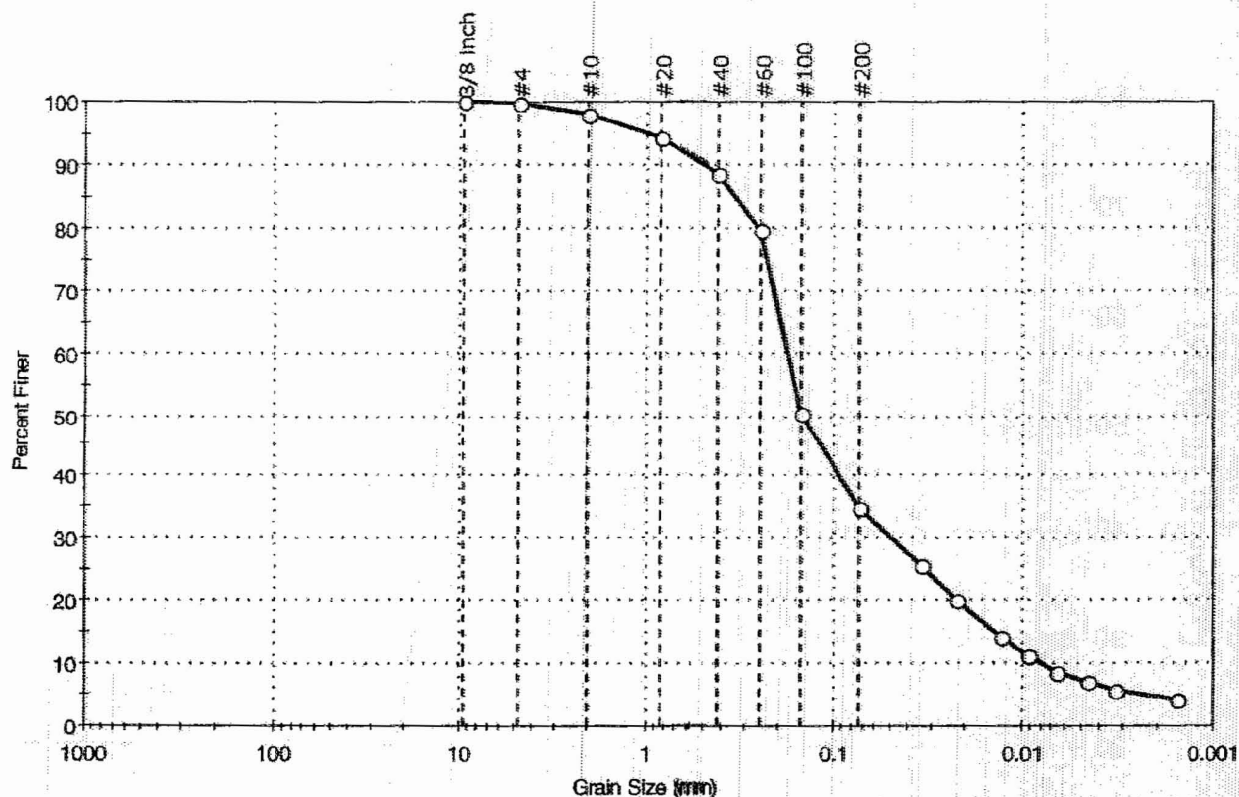
Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.	06120048.00	Date	8/28/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-315	13.5	Silty SAND, dark gray	SM				

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-315	Sample Type: tube
Sample ID: S-8	Test Date: 09/08/06	Tested By: sam
Depth: 23.5-25.5 ft	Test Id: 95760	Checked By: mcm
Test Comment: ---		
Sample Description: Moist, dark olive gray clayey sand		
Sample Comment: ---		

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.4	64.7	34.9

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/8 inch	9.51	100		
#4	4.75	100		
#10	2.00	98		
#20	0.84	94		
#40	0.42	89		
#60	0.25	80		
#100	0.15	50		
#200	0.074	35		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0342	26		
---	0.0220	20		
---	0.0129	14		
---	0.0092	11		
---	0.0066	8		
---	0.0047	7		
---	0.0033	5		
---	0.0016	4		

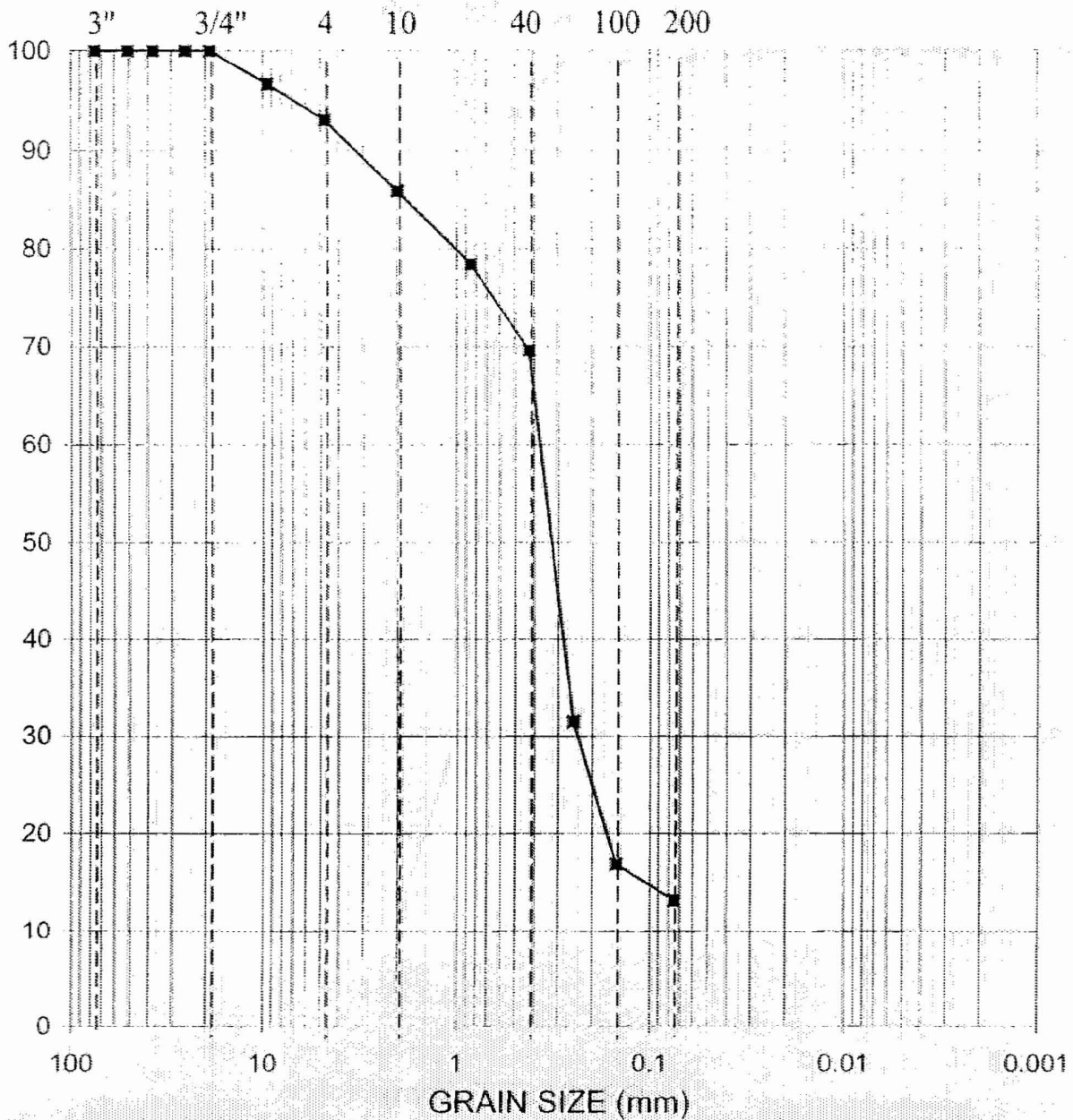
Coefficients	
D ₈₅ = 0.3421 mm	D ₃₀ = 0.0490 mm
D ₆₀ = 0.1766 mm	D ₁₅ = 0.0139 mm
D ₅₀ = 0.1462 mm	D ₁₀ = 0.0079 mm
C _u = N/A	C _c = N/A

Classification	
ASTM	Clayey sand (SC)
AASHTO	Clayey Gravel and Sand (A-2-7 (7))

Sample/Test Description	
Sand/Gravel Particle Shape :	---
Sand/Gravel Hardness :	---

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:	8/24/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-315	38.5	Silty SAND, trace shells, gray	SM	NP	NP		