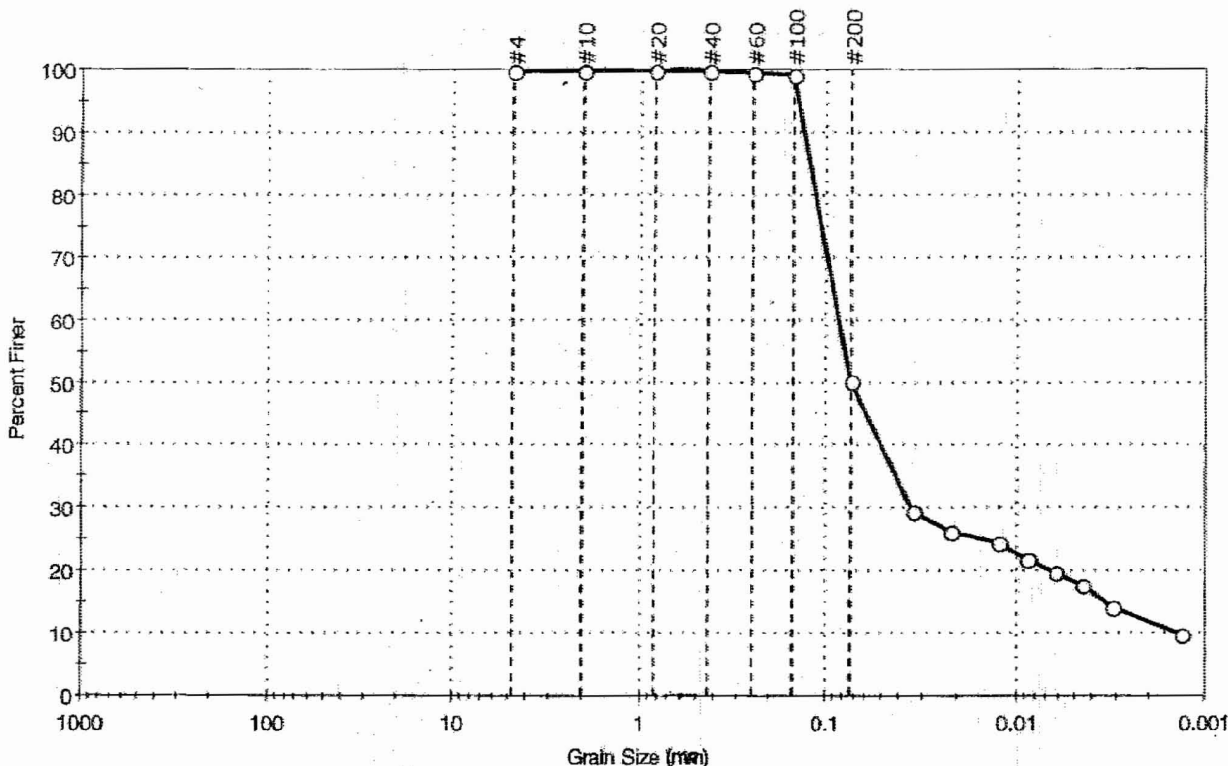


Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Location: Calvert County, MD	Project No: GTX-6880
Boring ID: B-420	Sample Type: tube	Tested By: sam	
Sample ID: S-29	Test Date: 10/27/06	Checked By: mcm	
Depth: 128.5-130.3 ft	Test Id: 98593		
Test Comment: ---			
Sample Description: Moist, very dark grayish brown sandy organic clay			
Sample Comment: ---			

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.3	49.6	50.1

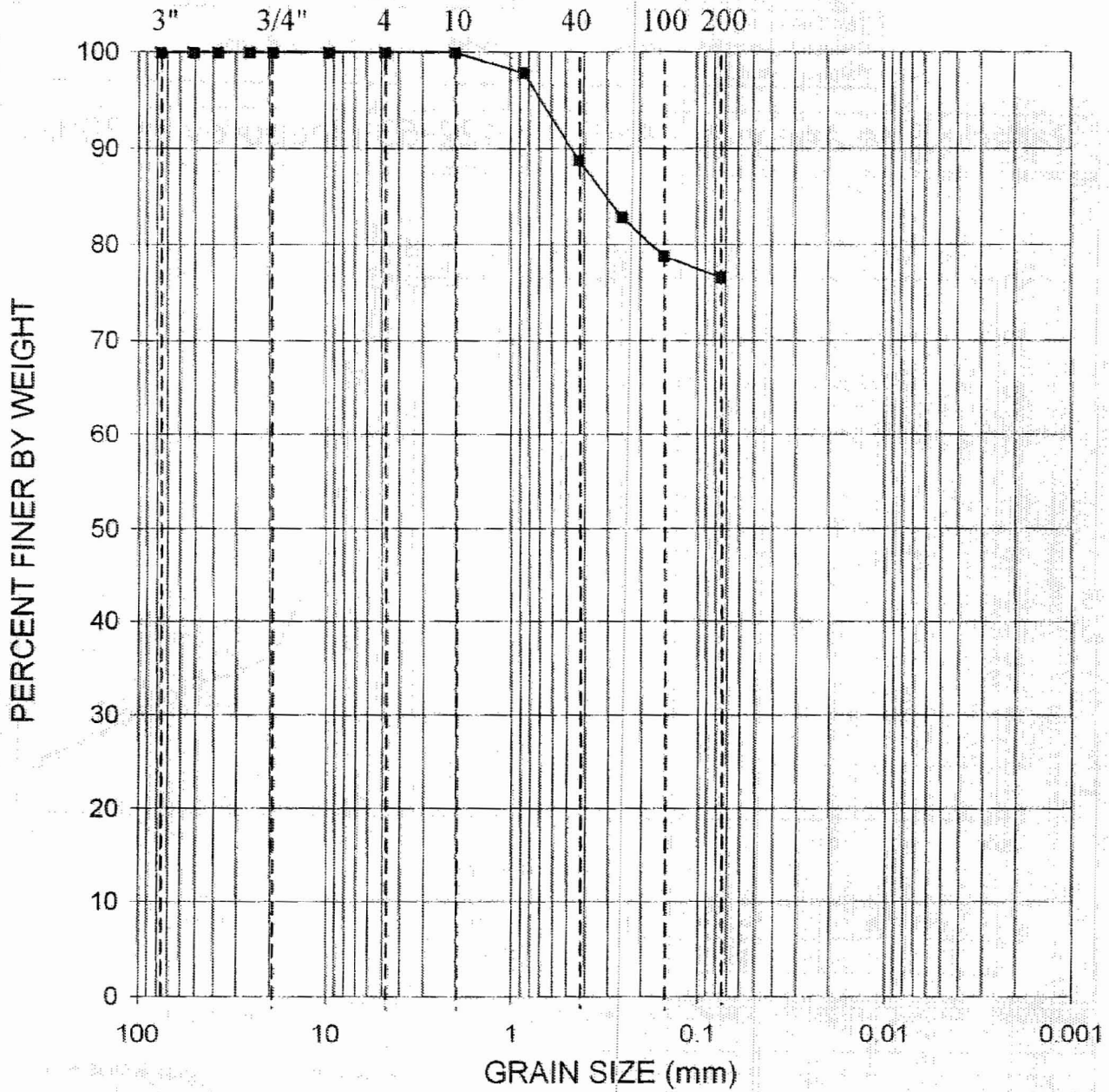
Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	100		
#60	0.25	99		
#100	0.15	99		
#200	0.075	50		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0375	29		
---	0.025	26		
---	0.015	24		
---	0.0075	22		
---	0.00425	20		
---	0.0025	18		
---	0.0015	14		
---	0.00075	10		

Coefficients	
D ₈₅ = 0.1219 mm	D ₃₀ = 0.0347 mm
D ₆₀ = 0.0853 mm	D ₁₅ = 0.0035 mm
D ₅₀ = 0.0738 mm	D ₁₀ = 0.0014 mm
C _u = N/A	C _c = N/A

Classification	
ASTM	Sandy organic silt (OH)
AASHTO	Clayey Soils (A-7-5 (12))

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

U.S. Standard Sieve Nos.

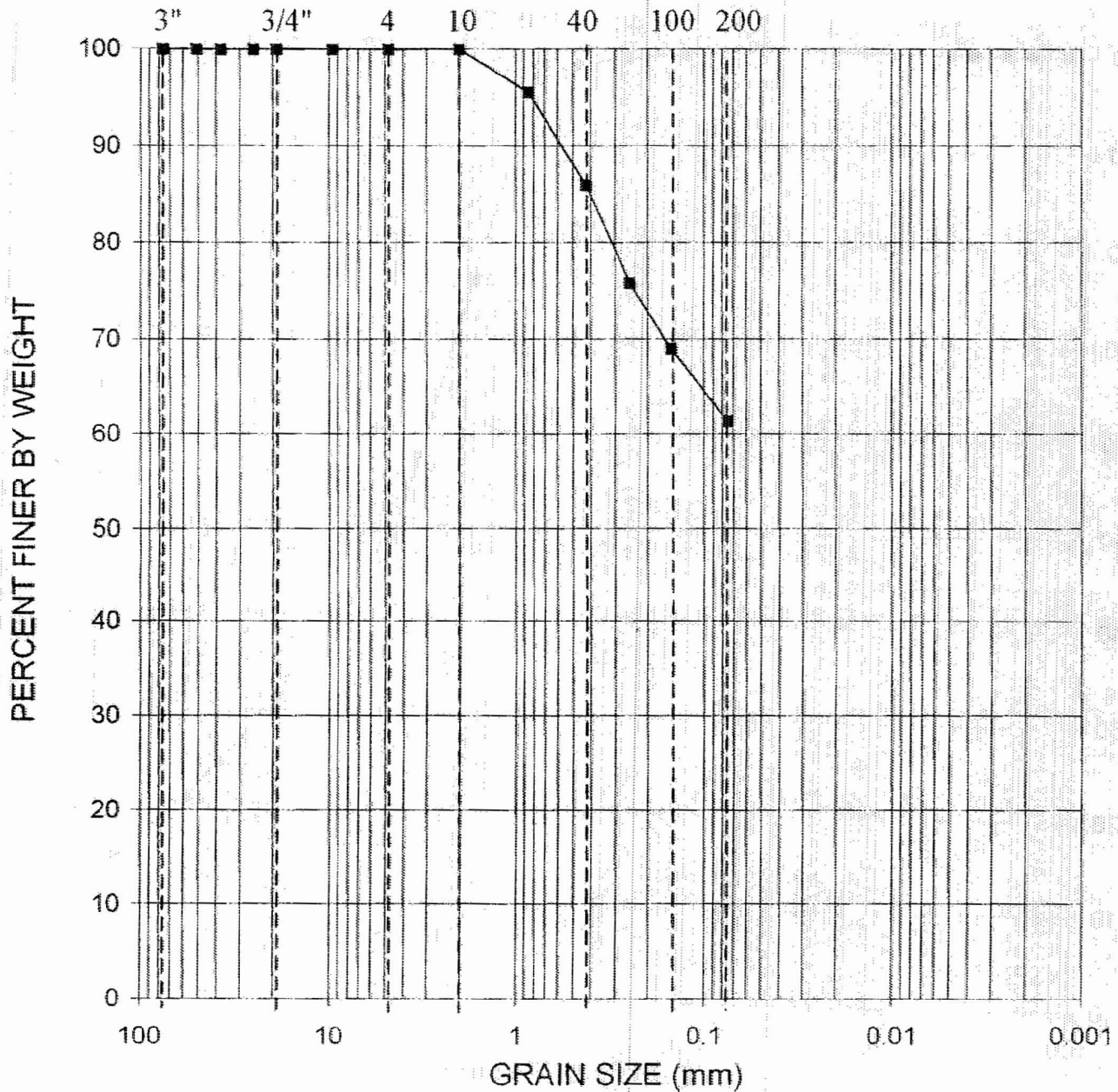


GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.	06120048.00	Date	9/13/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-420	133.5	ELASTIC SILT, with sand, dark green	MH	147	72		

U.S. Standard Sieve Nos.



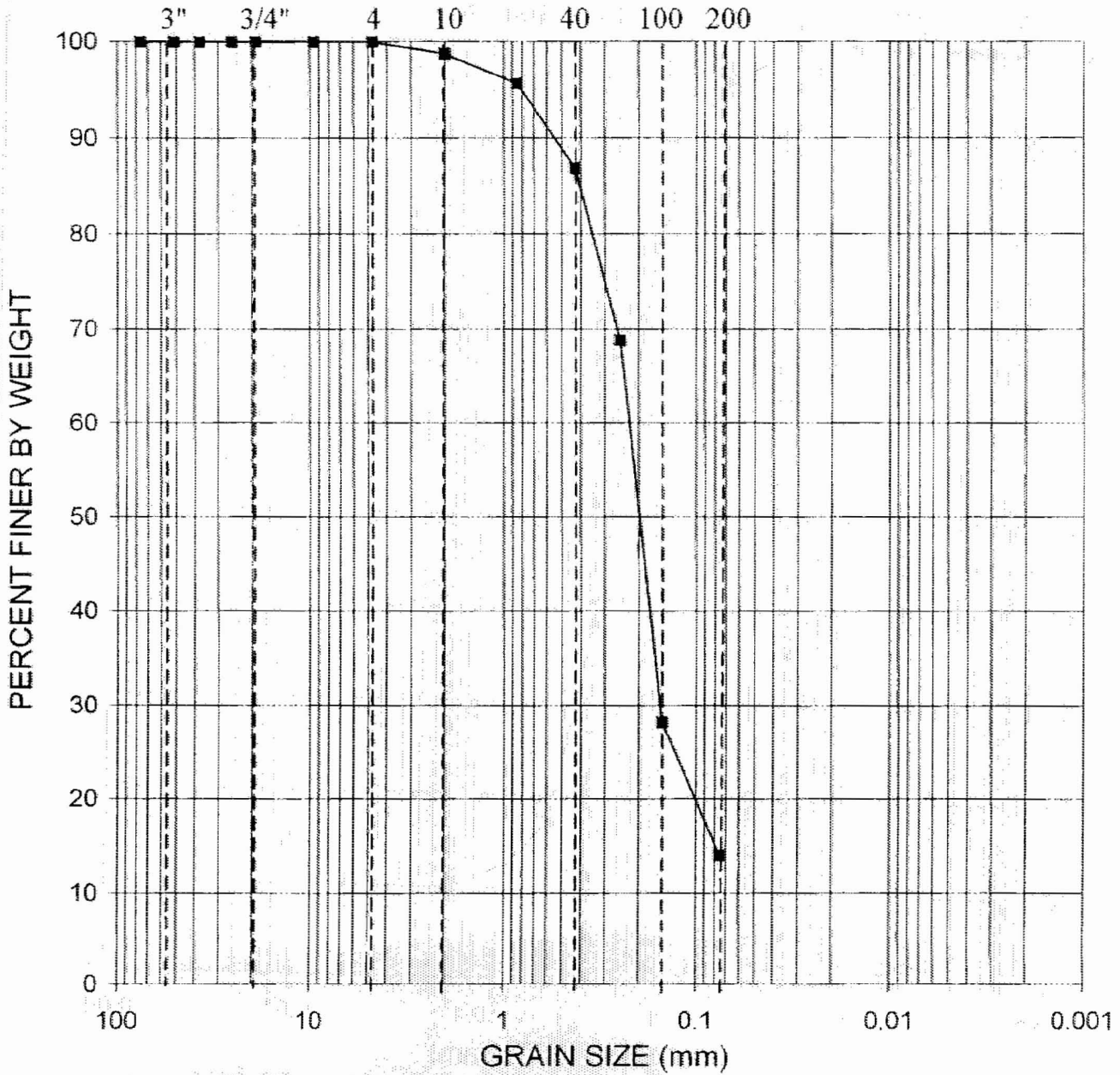
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/13/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-420	148.5	Sandy ELASTIC SILT, dark green	MH	127	27		

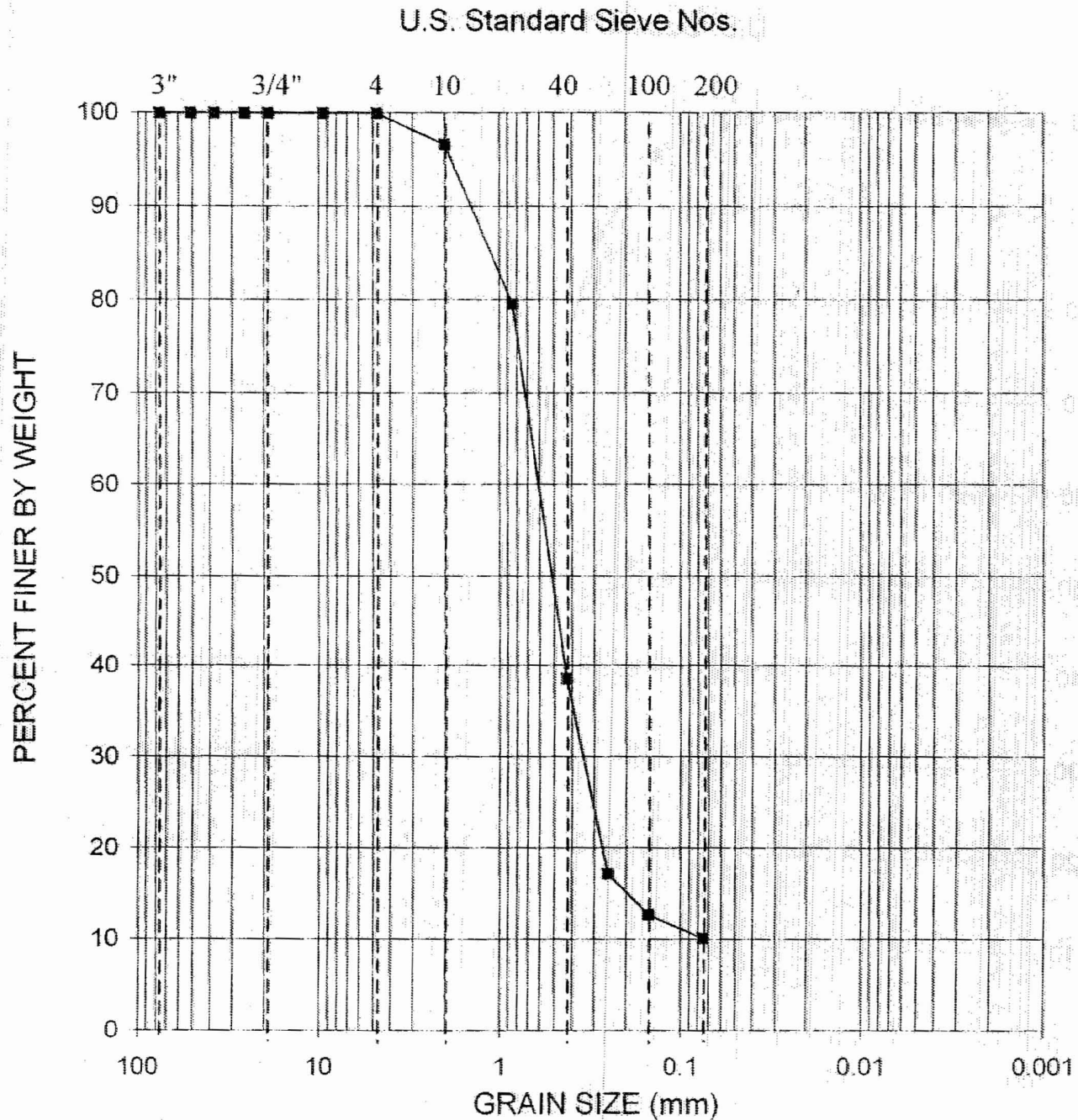
U.S. Standard Sieve Nos.



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:	9/14/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-421	7.5	Silty SAND, light brown	SM				

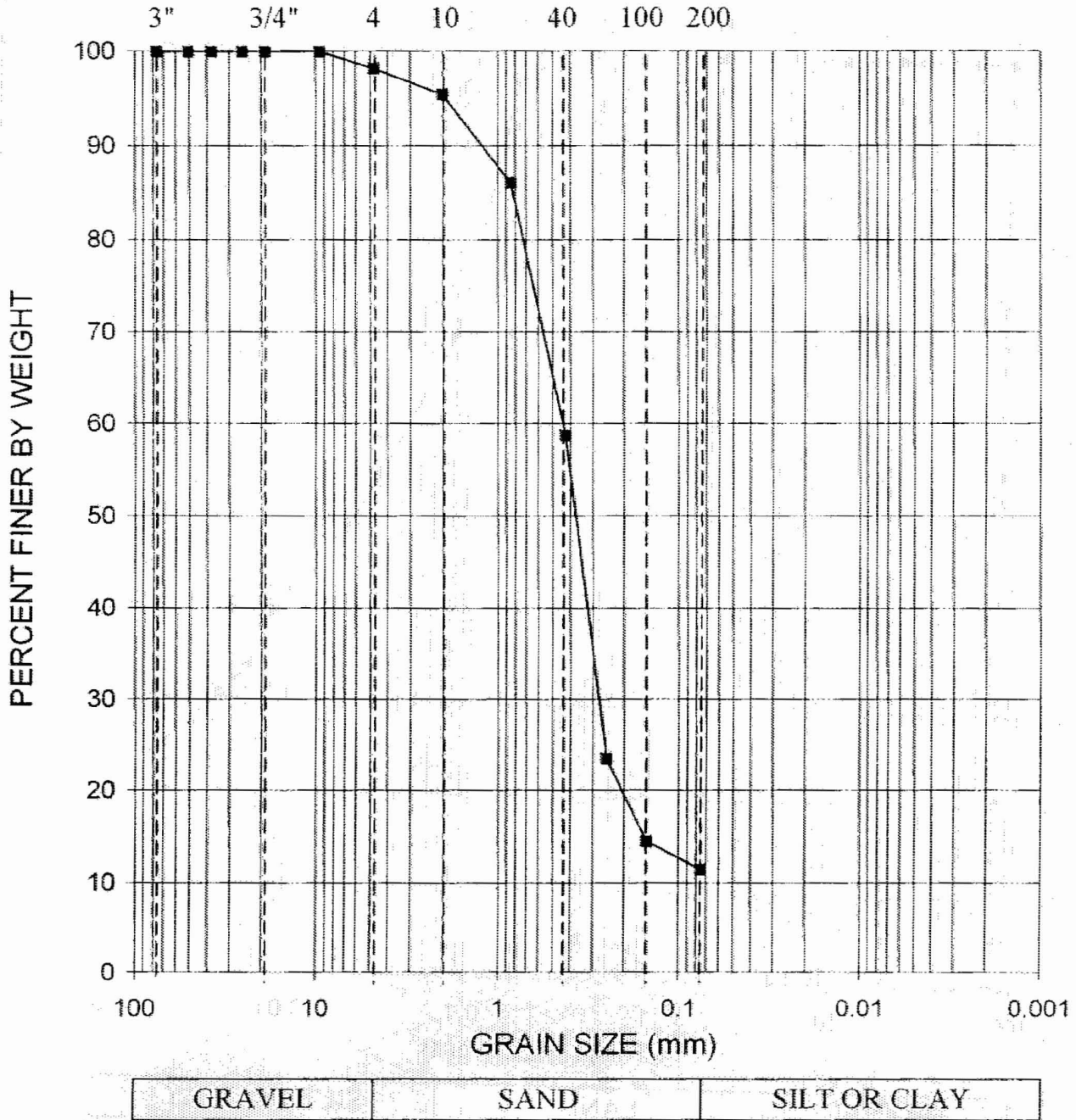


GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	(06120048.00)	Date:	9/14/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-421	18.5	Well Graded SAND, with silt, light brown	SW-SM				

U.S. Standard Sieve Nos.

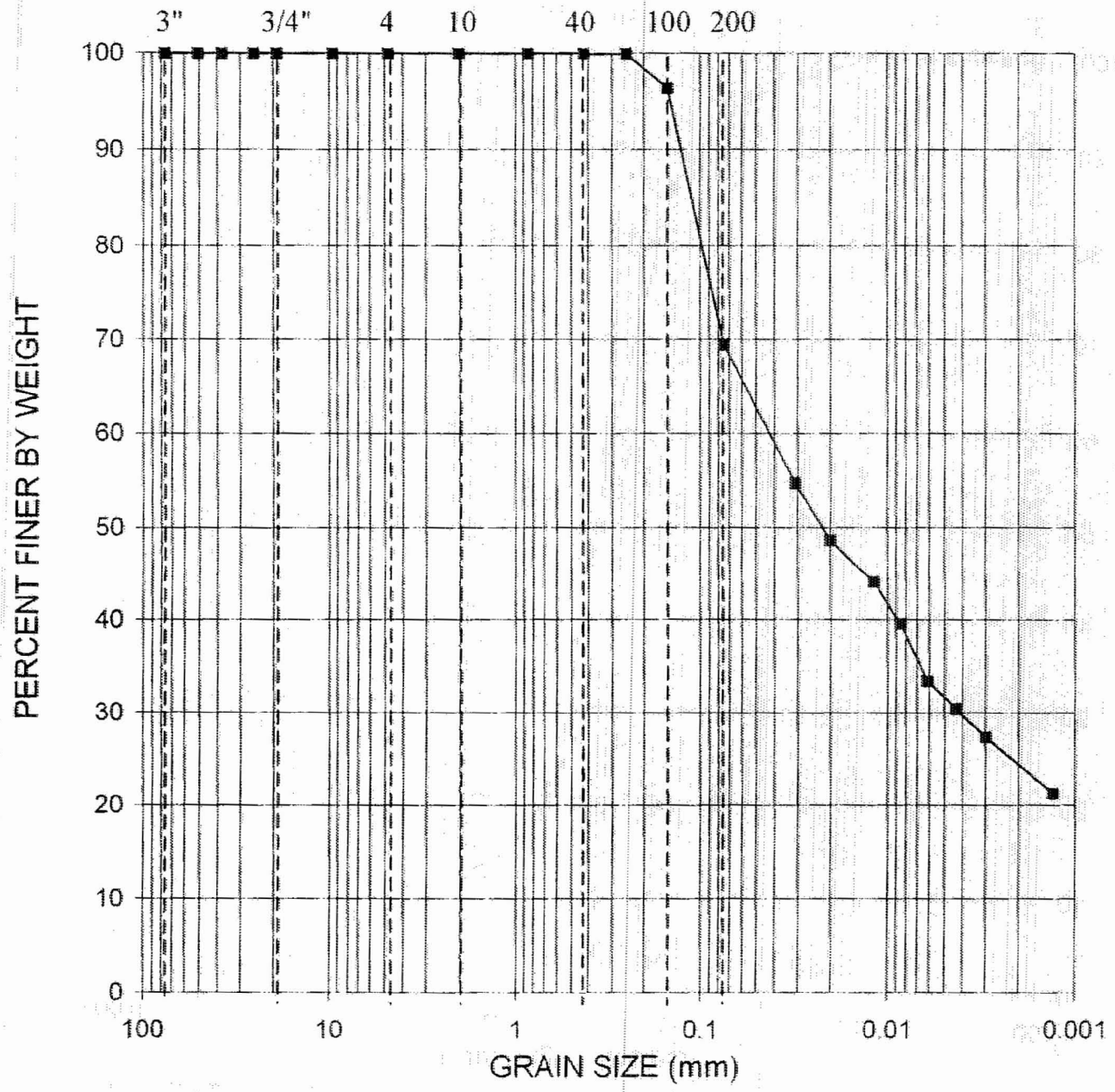


GRADATION CURVE

ASTM D422

Project	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.	06120048.00	Date	9/14/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	
B-421	28.5	Poorly graded SAND, with silt, trace gravel, light brown	SP-SM			

U.S. Standard Sieve Nos.

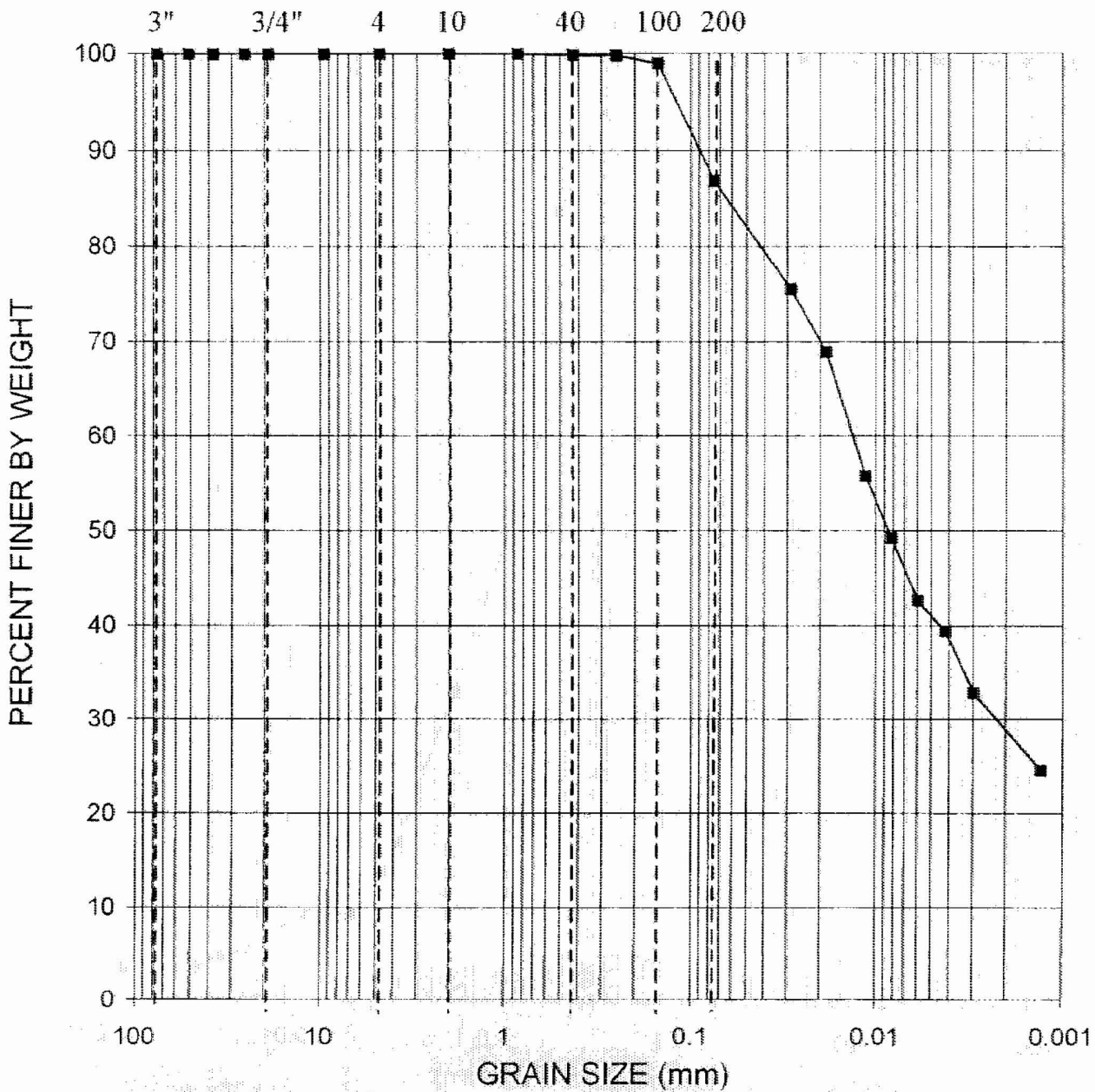


GRAVEL SAND SILT OR CLAY

GRADATION CURVE
ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.: 06120048.00		Date: 9/20/2006	
Boring No.	Depth (ft)	Sample Description			Class.	LL	PI	
B-421	48.5	Sandy FAT CLAY, gray			CH	50	32	

U.S. Standard Sieve Nos.



GRAVEL	SAND	SILT OR CLAY
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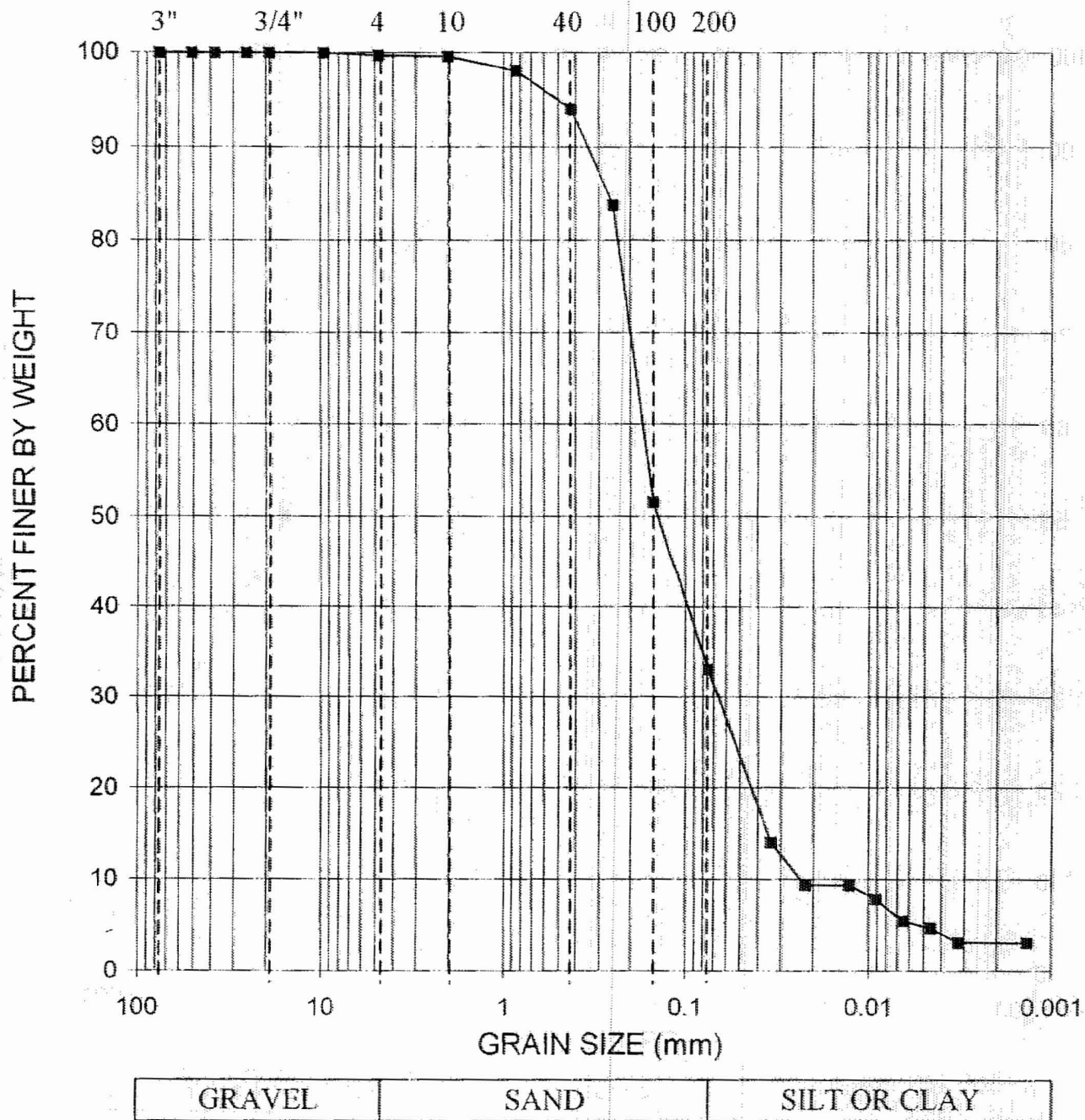
GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland	Contract No. 06120048.00	Date: 9/20/2006
Boring No.	Depth (ft)	Sample Description	Class. LL PI
B-421	58.5	FAT CLAY, trace sand, dark gray	CH 78 46



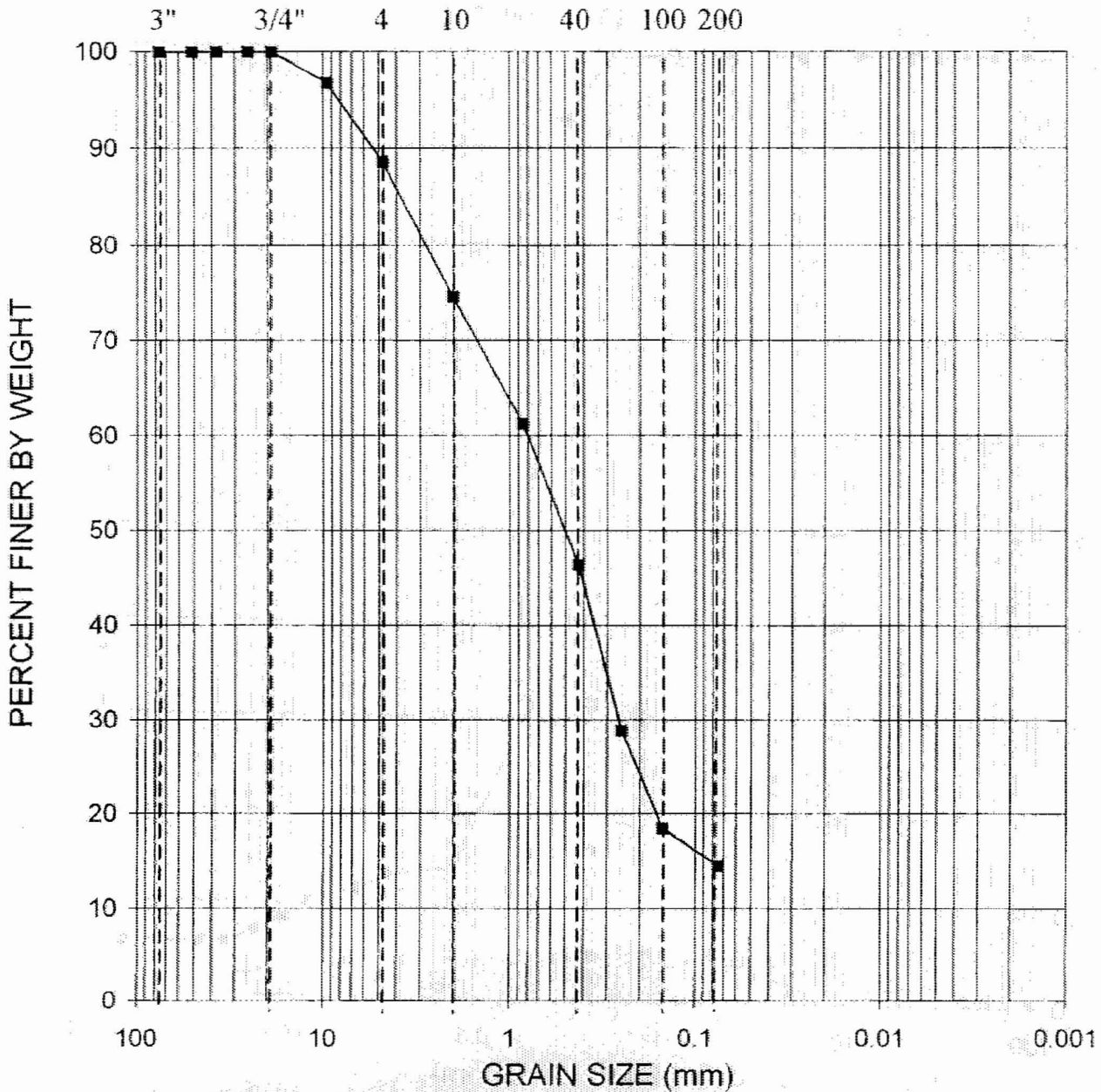
U.S. Standard Sieve Nos.



GRADATION CURVE
ASTM D422

Project	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.	06120048.00	Date	9/25/2006
Boring No.	Depth (ft)	Sample Description	Class.	LE	PJ	
B-421	68.5	Silty SAND, dark gray	SM			

U.S. Standard Sieve Nos.

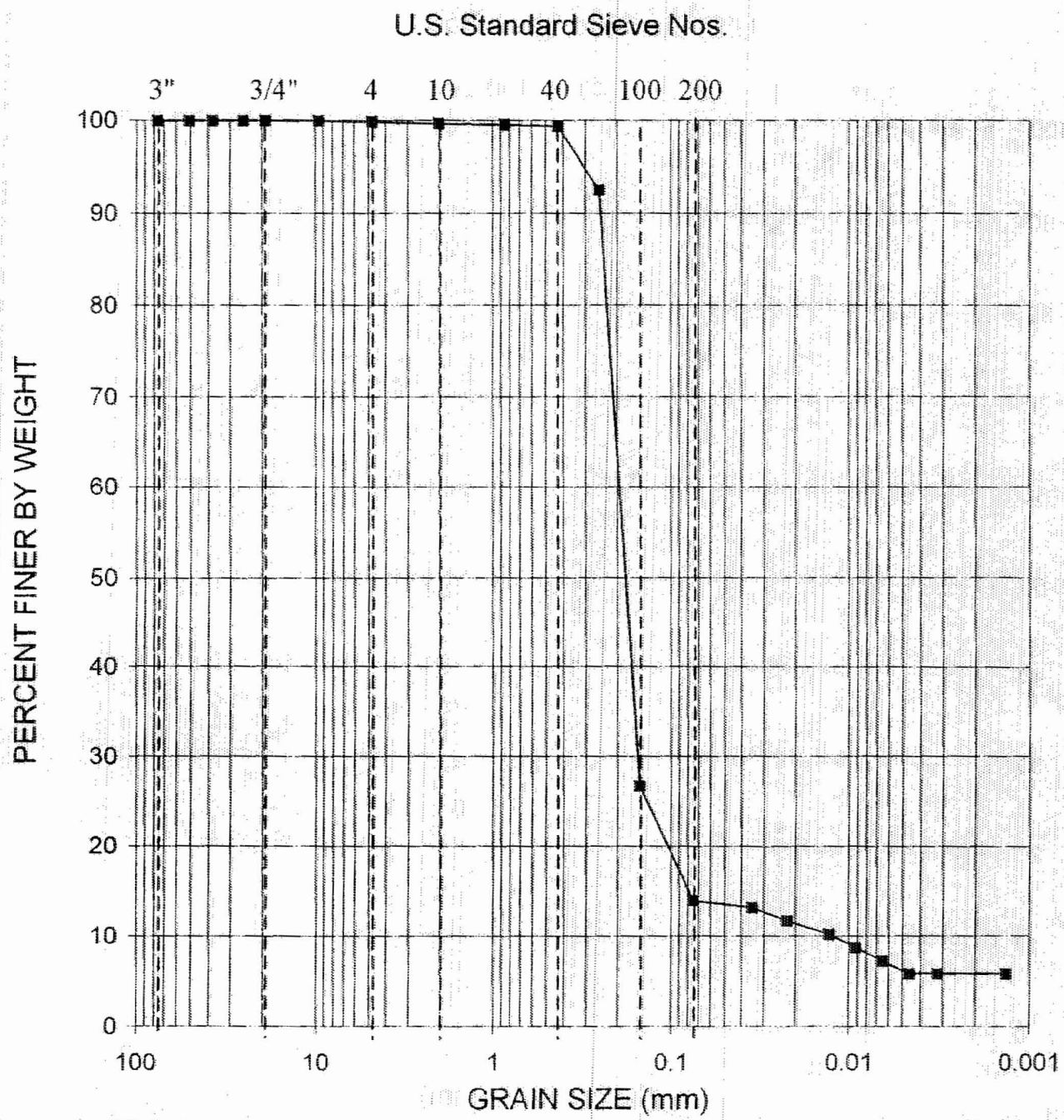


GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE

ASTM D422

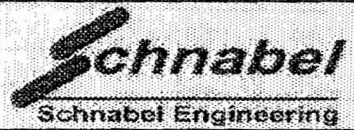
Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.:	06120048.00	Date:	9/14/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	
B-421	88.5	Silty SAND, trace shells, dark gray	SM			



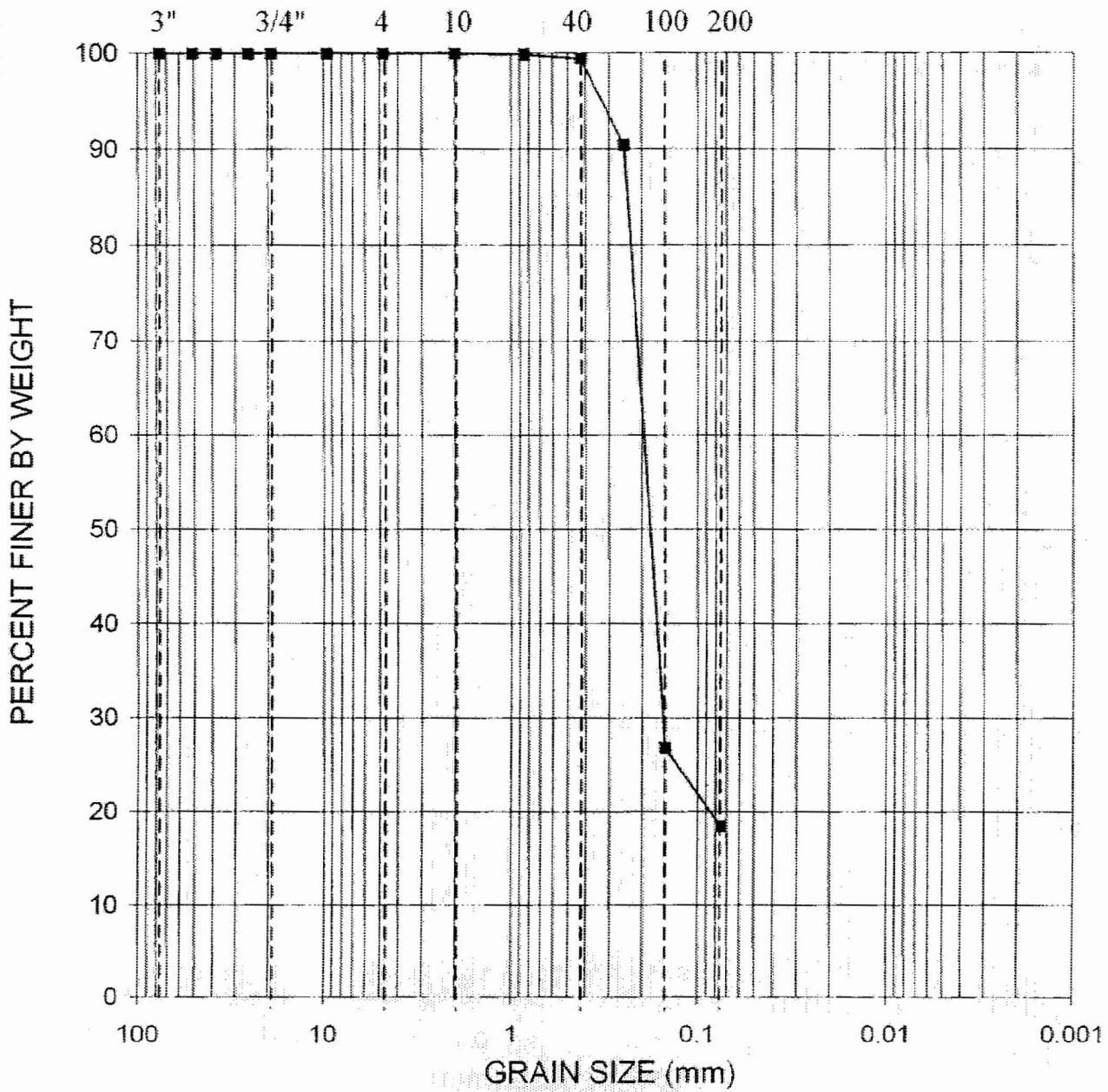
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland	Contract No. 06120048.00	Date: 9/20/2006
Boring No.	Depth (ft)	Sample Description	Class LL PI
B-421	108.5	Silty SAND, dark green	SM NP NP



U.S. Standard Sieve Nos.



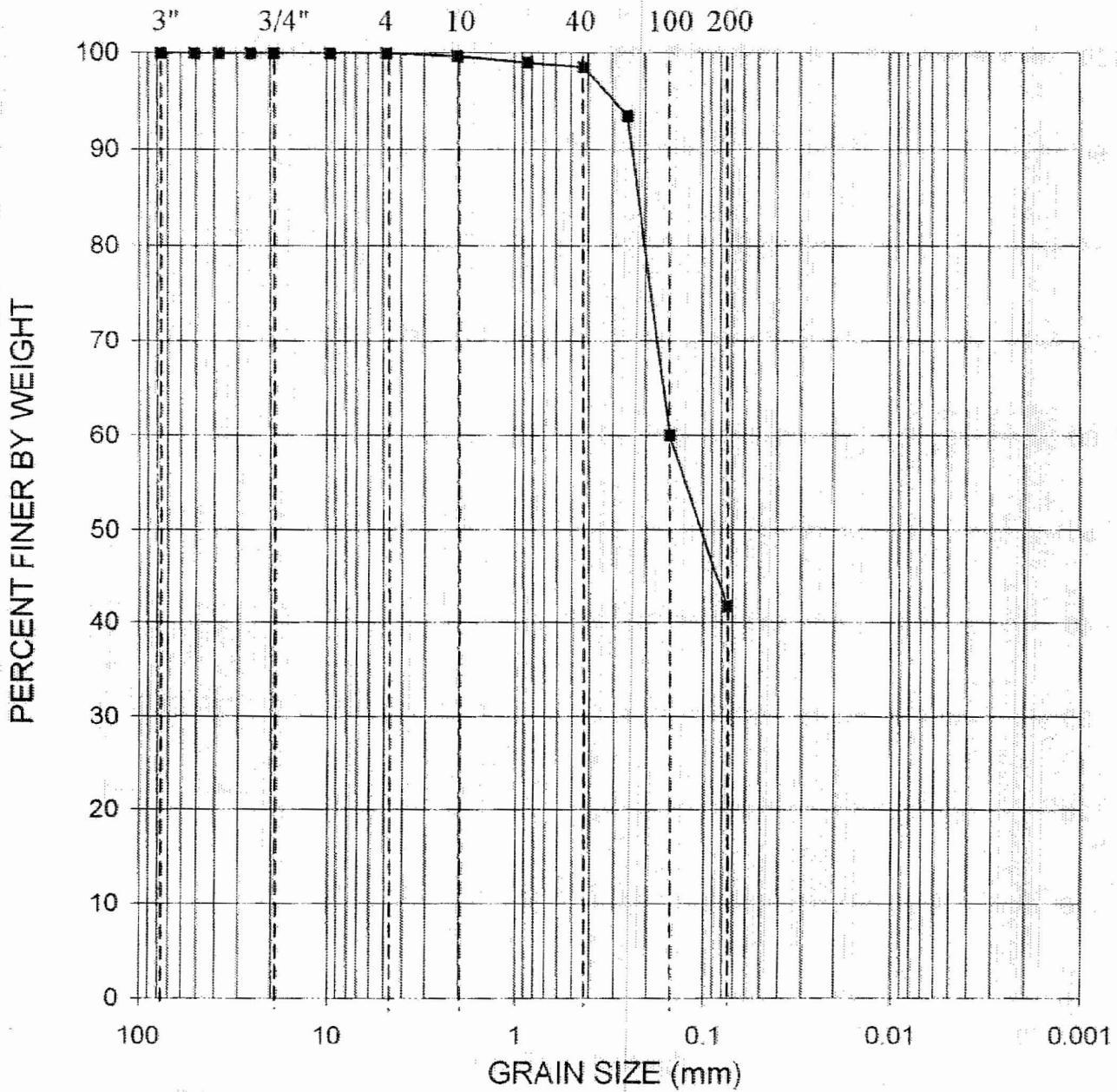
GRAVEL SAND SILT OR CLAY

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-421	113.5	Silty SAND, green	SM				

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: 9/14/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI
B-421	133.5	Silty SAND, green	SM		

