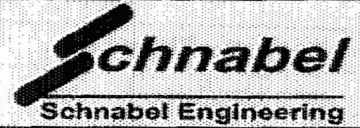


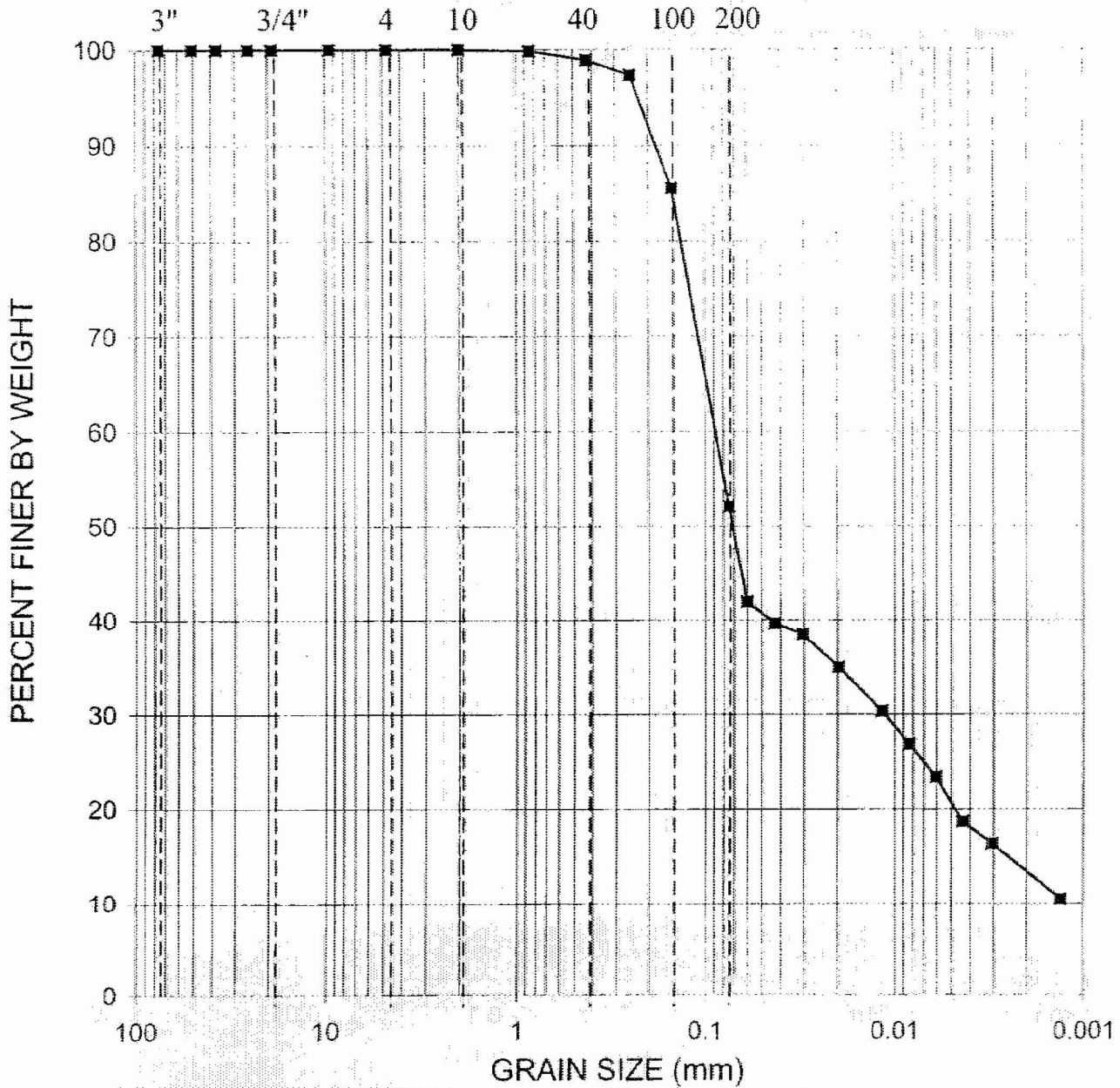
GRAVEL	SAND	SILT OR CLAY
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**GRADATION CURVE**  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland	Contract No.:	06120048.00	Date:	8/22/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI
B-323	133.5	Silty SAND, contains shells, green	SM		



### U.S. Standard Sieve Nos.



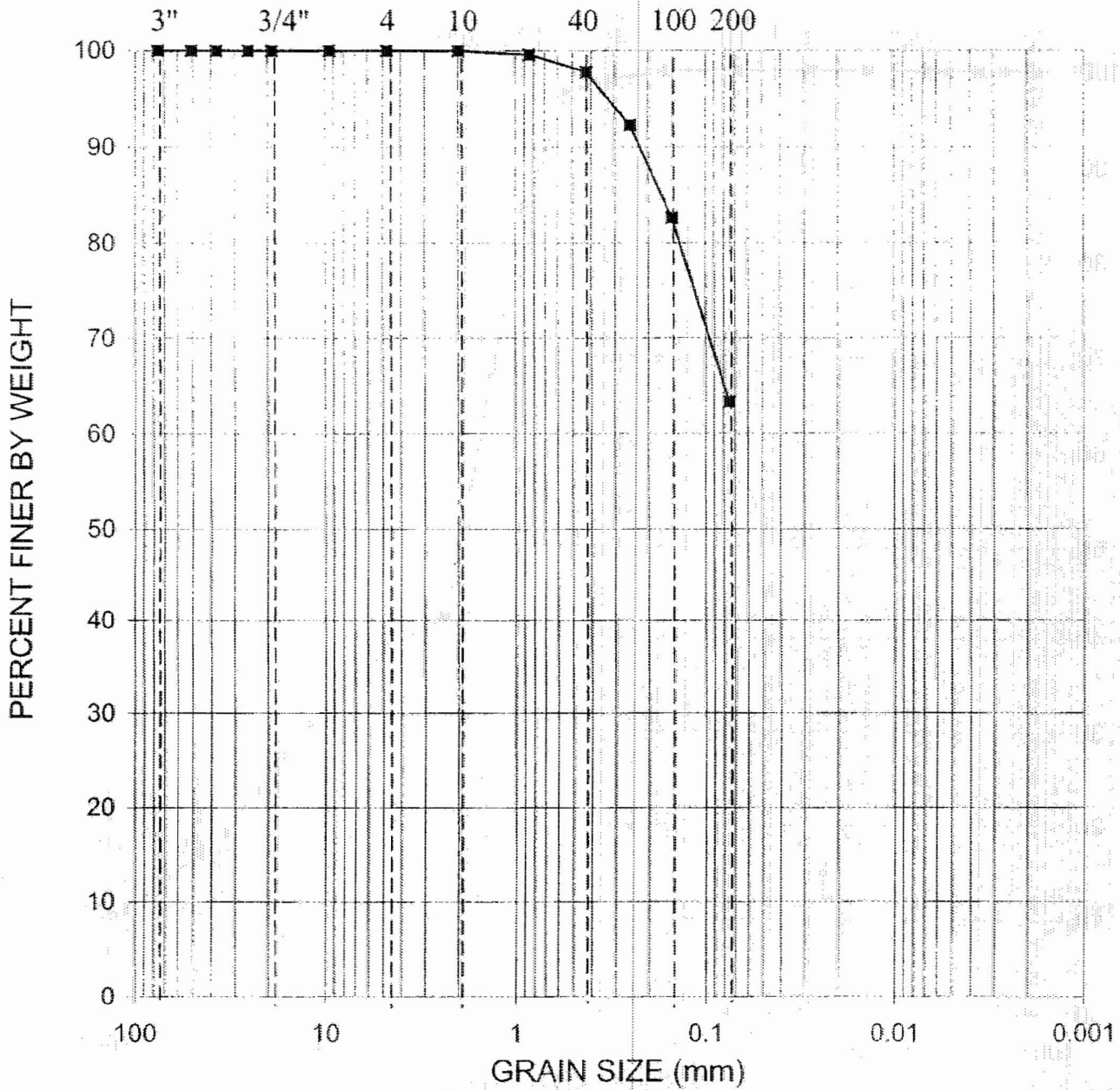
GRAVEL	SAND	SILT OR CLAY
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#### GRADATION CURVE

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	(06120048.00)	Date:	9/8/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	 Schnabel Engineering	
B-323	143.5	Sandy ELASTIC SILT, green	MH	73	35		

U.S. Standard Sieve Nos.

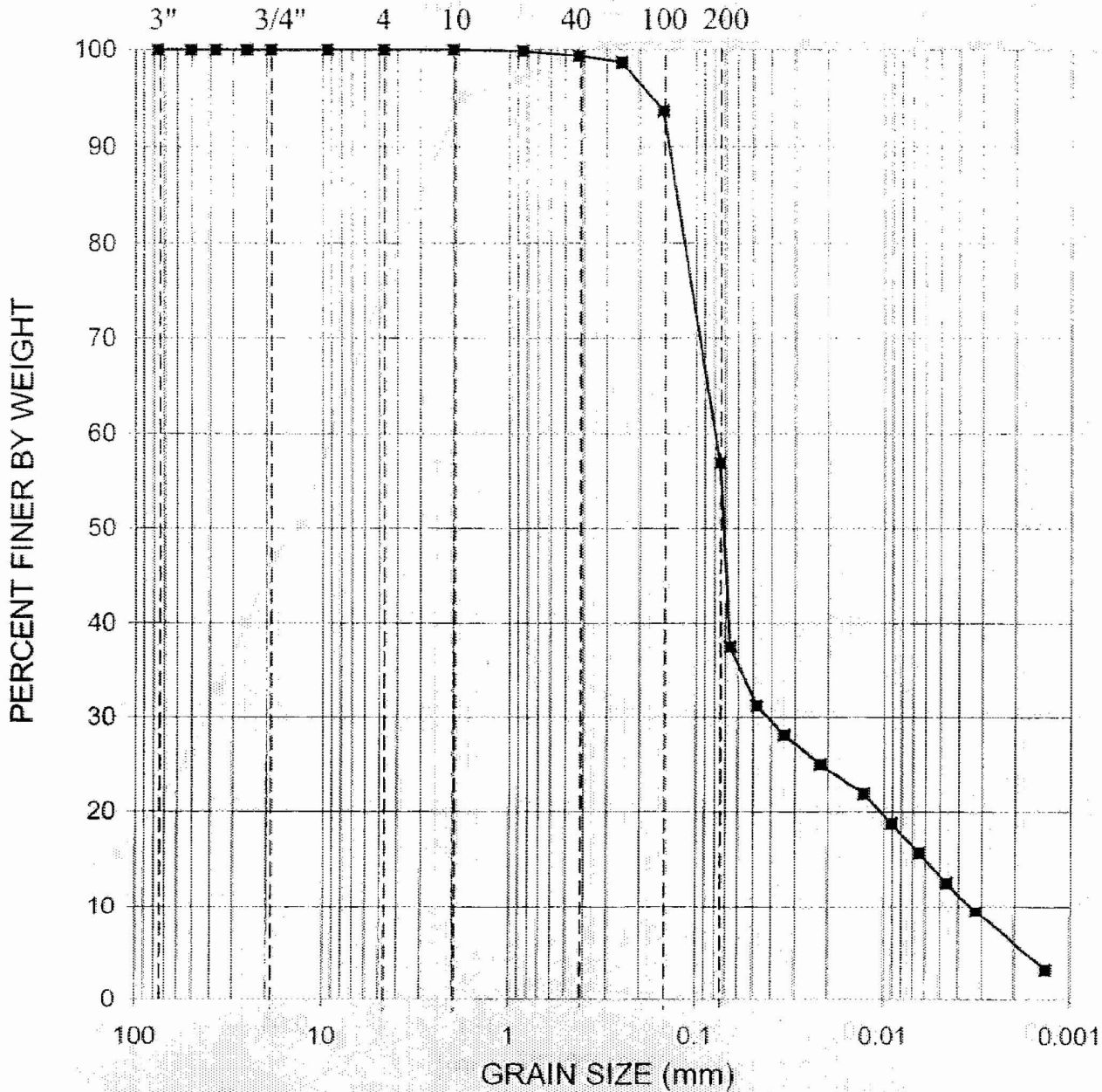


GRAVEL	SAND	SILT OR CLAY
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**GRADATION CURVE**  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.:	06120048.00	Date:	8/22/2006
Boring No.	Depth (ft)	Sample Description	Class:	LL	PI	
B-323	163.5	SANDY ELASTIC SILT, dark green	MH			

U.S. Standard Sieve Nos.



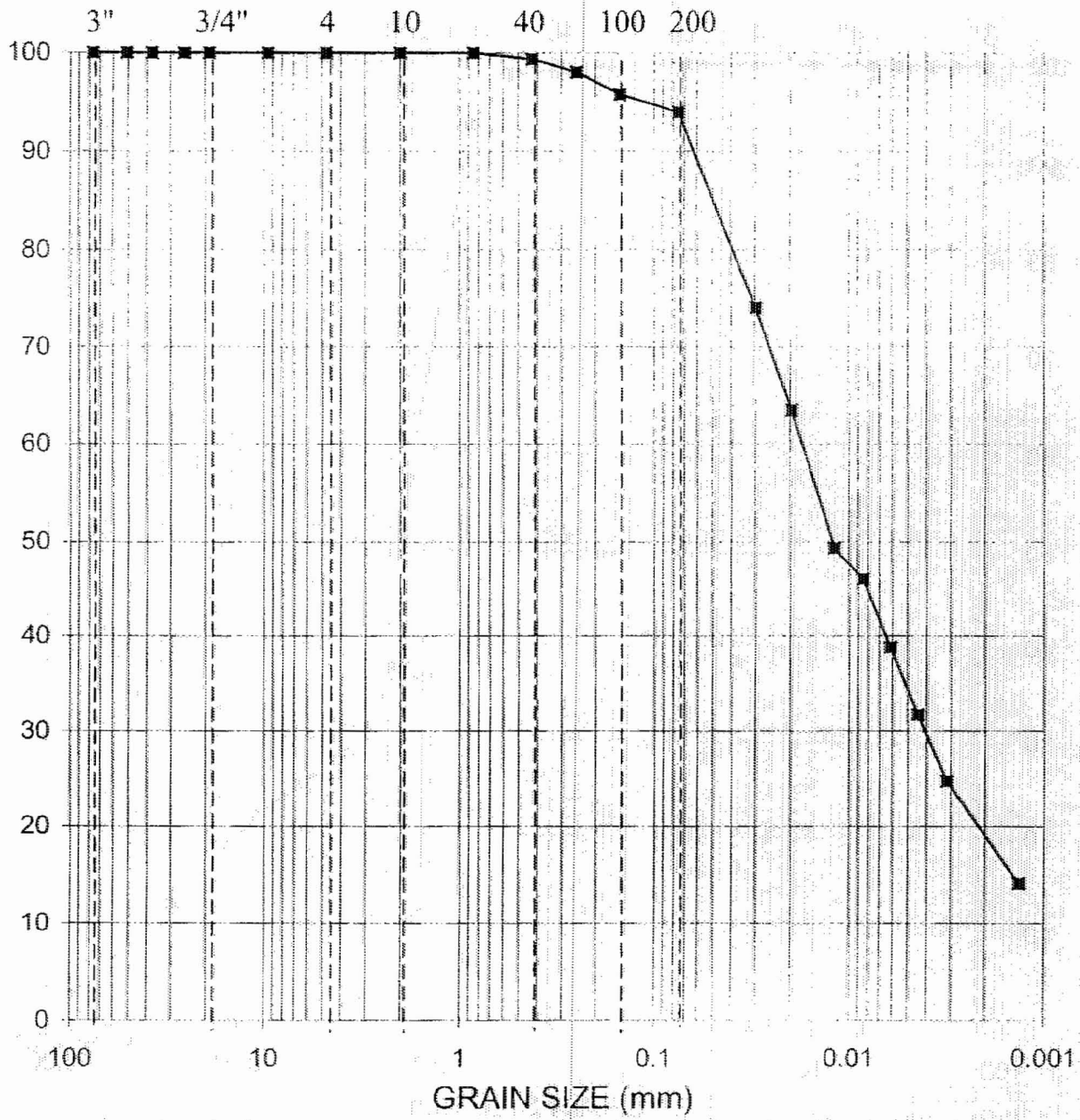
GRAVEL SAND SILT OR CLAY

GRADATION CURVE  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.:	06120048.00	Date:	9/10/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	P1	
B-323	173.5	Sandy FAT CLAY, dark gray	CH	97	66	

PERCENT FINER BY WEIGHT

U.S. Standard Sieve Nos.



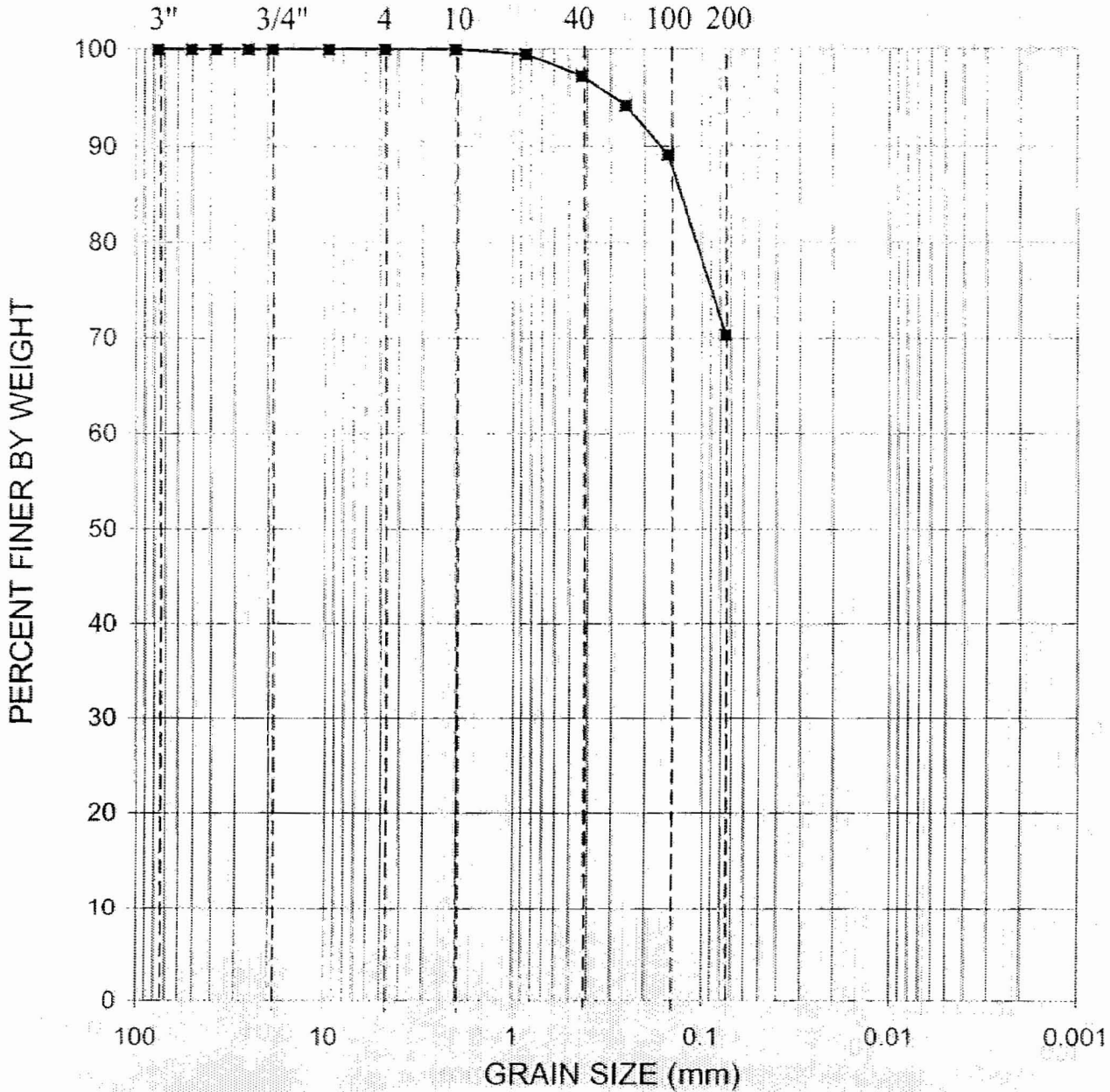
GRAVEL                          SAND                          SILT OR CLAY

**GRADATION CURVE**  
ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.: 06120048.00		Date: 9/8/2006	
Boring No.	Depth (ft)	Sample Description			Class.	LL	PI	
B-323	183.5	FAT CLAY, trace sand, dark gray			CH	124	91	




U.S. Standard Sieve Nos.

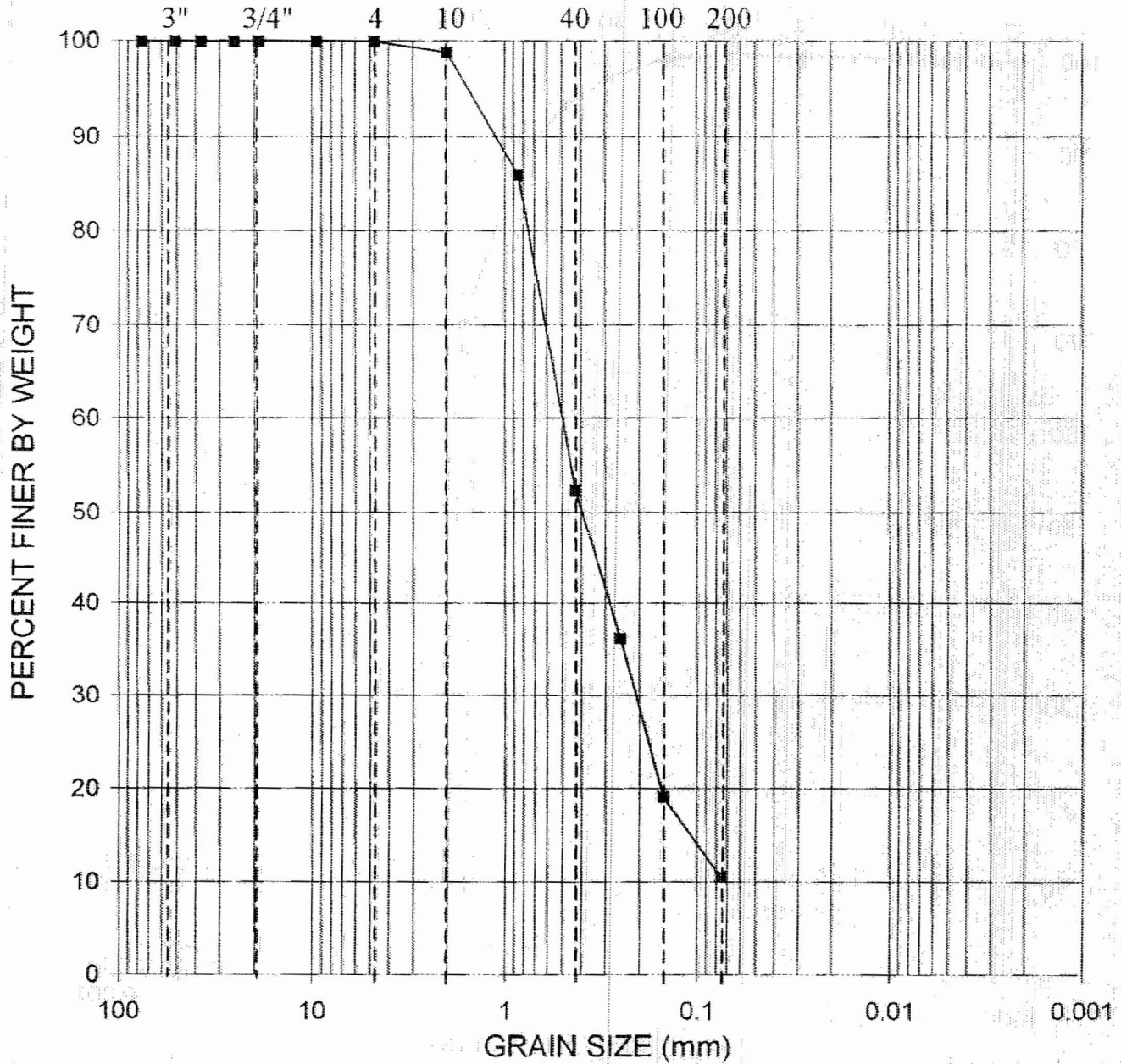


GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	8/25/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-323	193.5	SANDY FAT CLAY, dark green	CH	116	80		

U.S. Standard Sieve Nos.

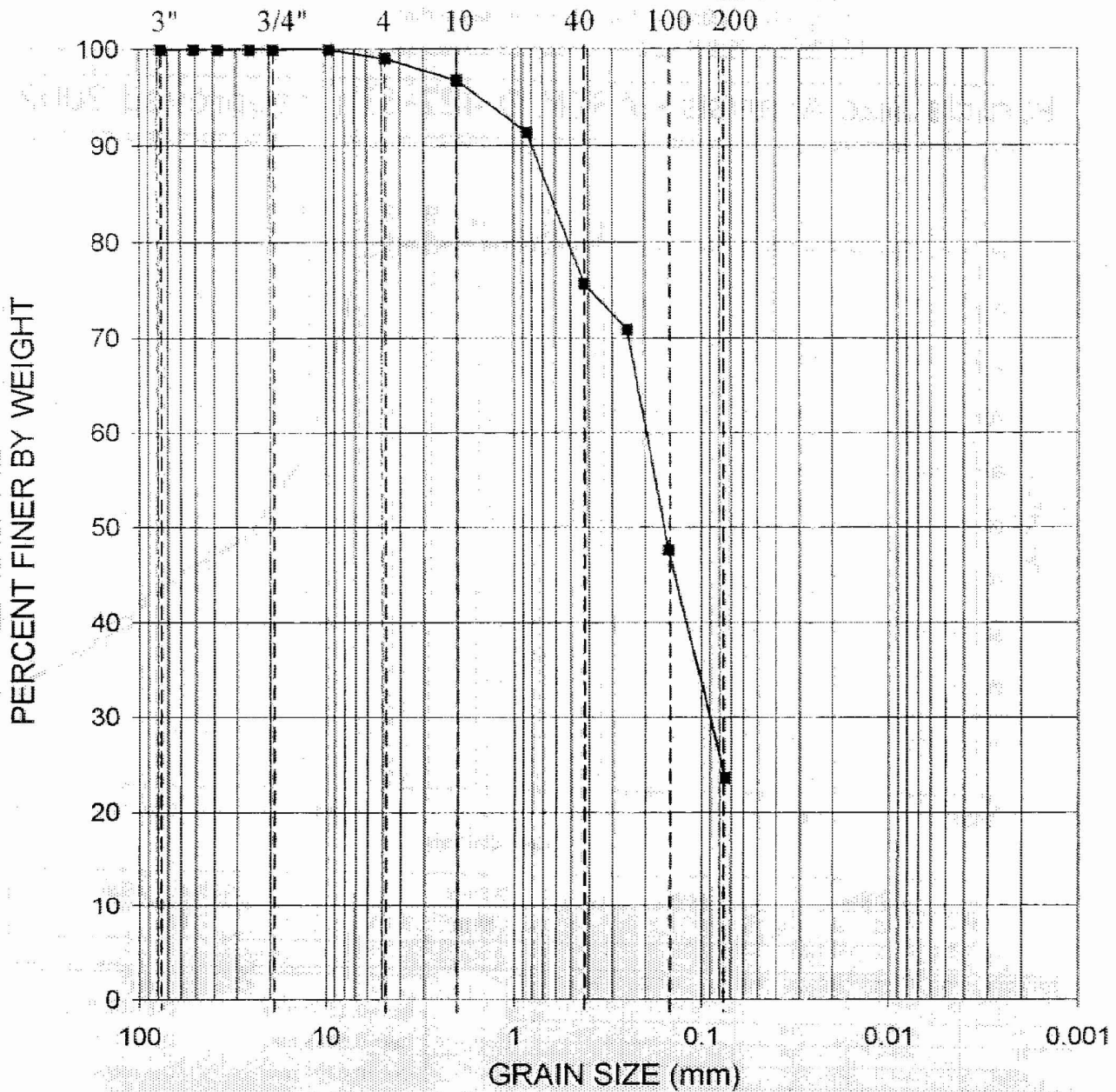


GRAVEL	SAND	SILT OR CLAY
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**GRADATION CURVE**  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	10/3/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-326	13.5	Poorly Graded SAND, with silt, light brown	SP-SM				

U.S. Standard Sieve Nos.



GRAVEL	SAND	SILT OR CLAY
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**GRADATION CURVE**

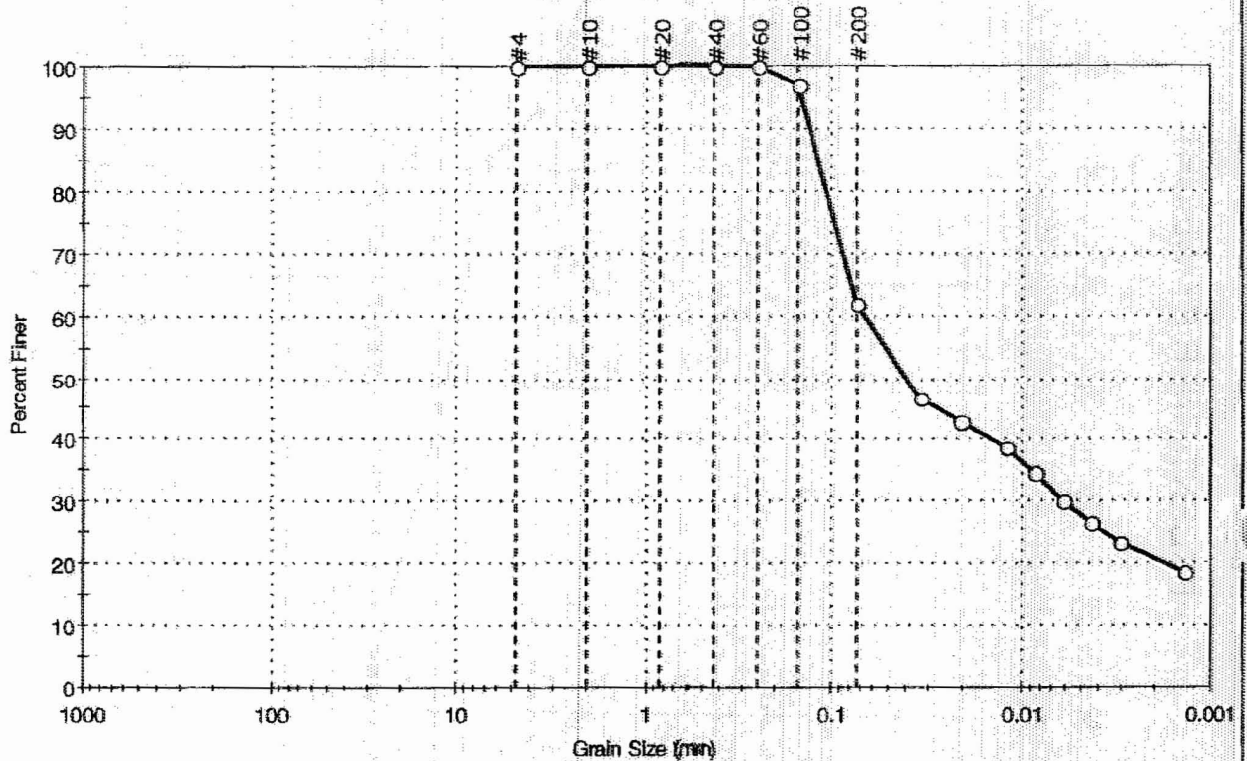
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	10/3/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-326	23.5	Silty SAND, trace gravel brown	SM				



Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Project No: GTX-6880
Location: Calvert County, MD	Boring ID: B-326	Sample Type: tube
Sample ID: S-10	Test Date: 10/18/06	Tested By: sam
Depth: 33.5-35.5 ft	Test ID: 100407	Checked By: mcm
Test Comment: ---	Sample Description: Moist, dark gray sandy clay	Sample Comment: ---

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	38.0	62.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	97		
#200	0.074	62		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0331	47		
---	0.0206	43		
---	0.0120	39		
---	0.0086	35		
---	0.0061	30		
---	0.0044	27		
---	0.0031	23		
---	0.0014	18		

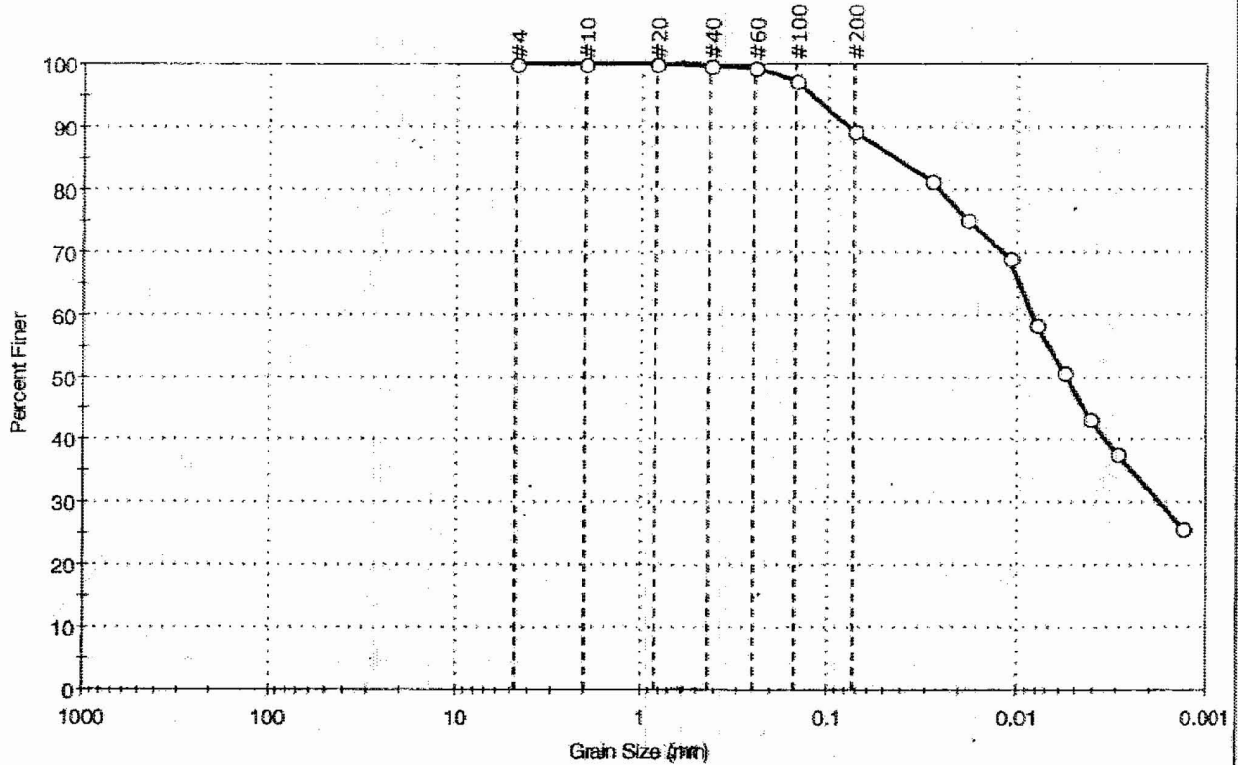
Coefficients	
D <sub>85</sub> = 0.1170 mm	D <sub>30</sub> = 0.0062 mm
D <sub>60</sub> = 0.0665 mm	D <sub>15</sub> = N/A
D <sub>50</sub> = 0.0394 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

Classification	
ASTM	Sandy lean clay (CL)
AASHTO	Clayey Soils (A-7-6 (15))

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

Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Location: Calvert County, MD	Project No: GTX-6880
Boring ID: B-326	Sample Type: tube	Tested By: sam	Sample ID: S-12
Depth: 43.5-45.5 ft	Test Date: 10/17/06	Checked By: mcm	Test No: 100408
Test Comment: ---			
Sample Description: Moist, very dark gray organic clay			
Sample Comment: ---			

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	10.7	89.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.50	100		
#20	0.85	100		
#40	0.42	100		
#60	0.25	99		
#100	0.15	97		
#200	0.075	89		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0294	81		
---	0.0196	75		
---	0.0109	69		
---	0.0060	58		
---	0.0056	51		
---	0.0042	43		
---	0.0030	38		
---	0.0013	26		

**Coefficients**

D <sub>85</sub> = 0.0439 mm	D <sub>30</sub> = 0.0018 mm
D <sub>60</sub> = 0.0084 mm	D <sub>15</sub> = N/A
D <sub>50</sub> = 0.0056 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

**Classification**

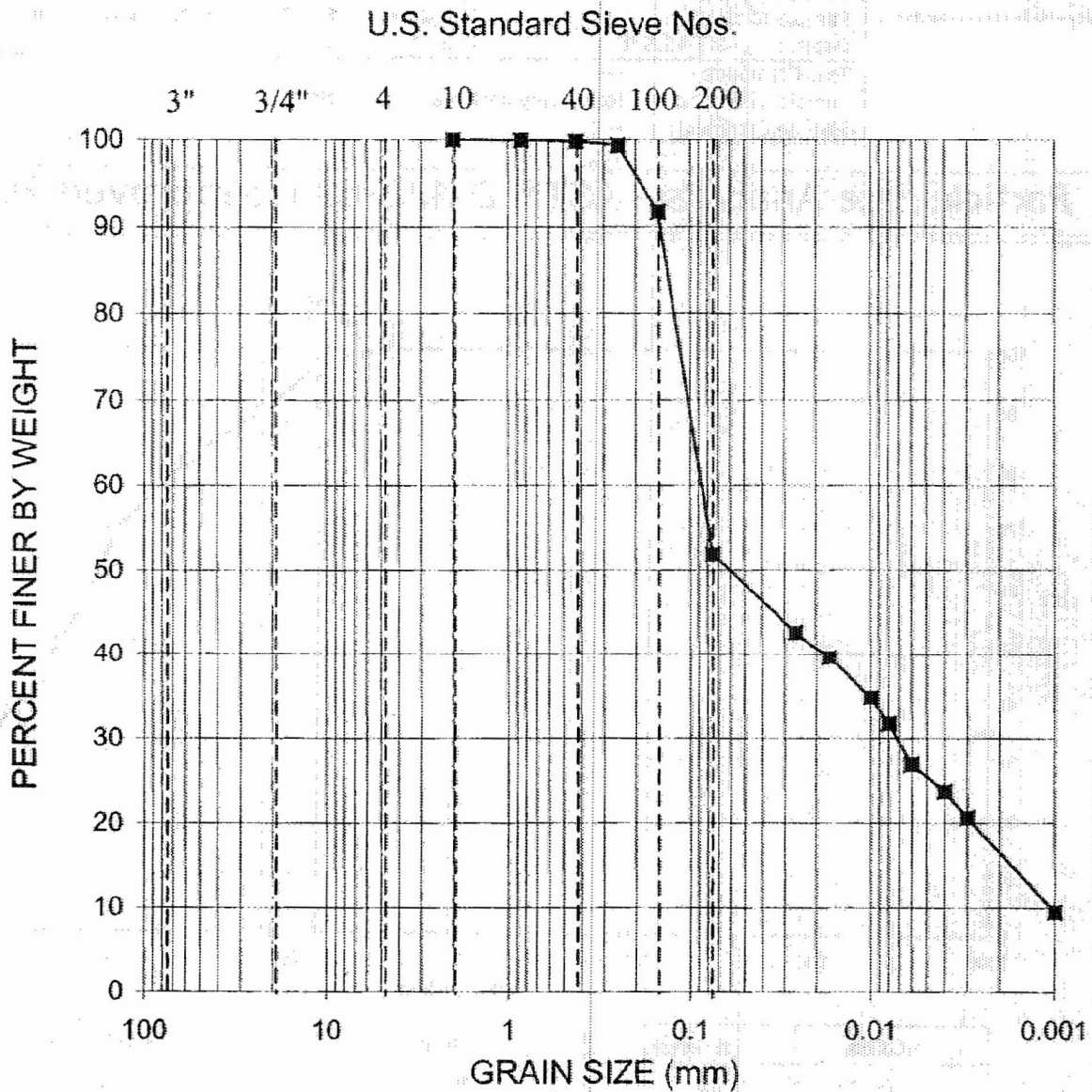
ASTM organic clay (OH)

AASHTO Clayey Soils (A-7-6 (44))

**Sample / Test Description**

Sand/Gravel Particle Shape : ANGULAR

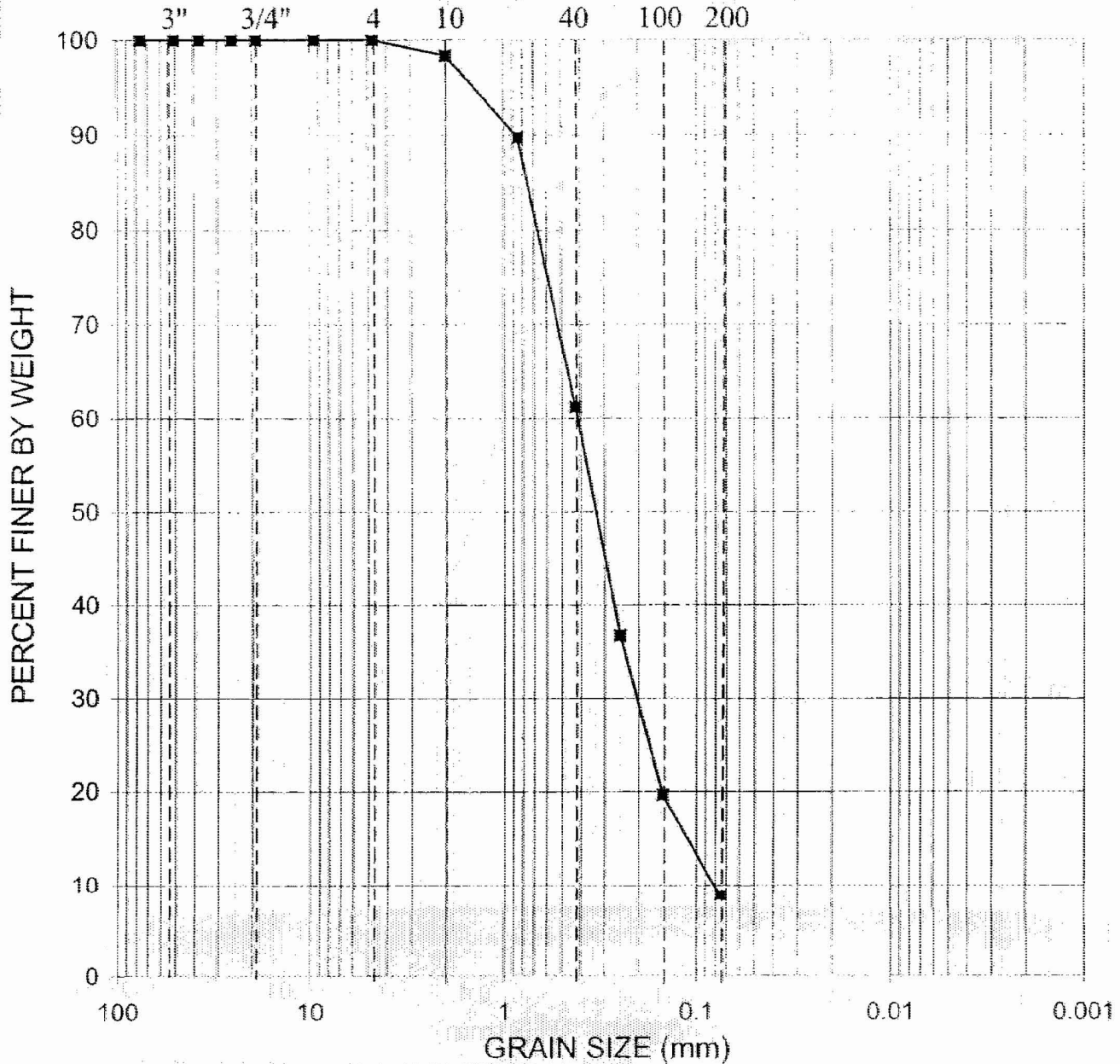
Sand/Gravel Hardness : ---



GRAVEL	SAND	SILT OR CLAY
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Key	Sample	Depth(ft.)	Sample Description	Class.	LL	PI	<b>Schnabel Engineering</b> <b>GRADATION CURVES</b>
■	B-327	113.5-114.2	Sandy FAT CLAY - gray	CH	60	36	
▲							
●							Project: Calvert Cliffs Nuclear Power Plant  Contract No. 06120048 Date: 10/30/06 Method: ASTM D422

U.S. Standard Sieve Nos.

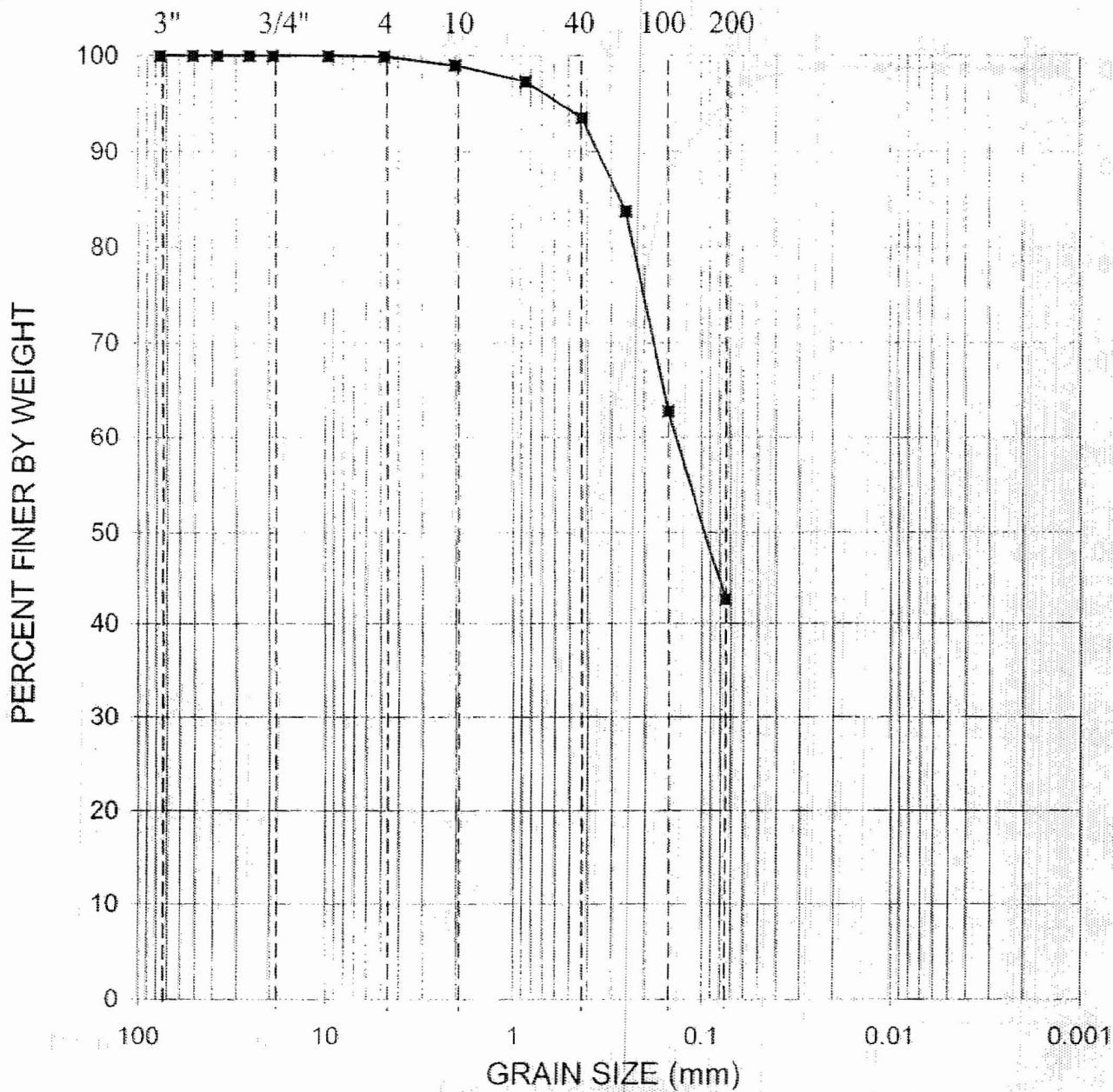


GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.:	06129048.00	Date:	8/28/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	
B-328	2.5	Poorly Graded SAND, with silt, tan	SP-SM	NP	NP	

U.S. Standard Sieve Nos.

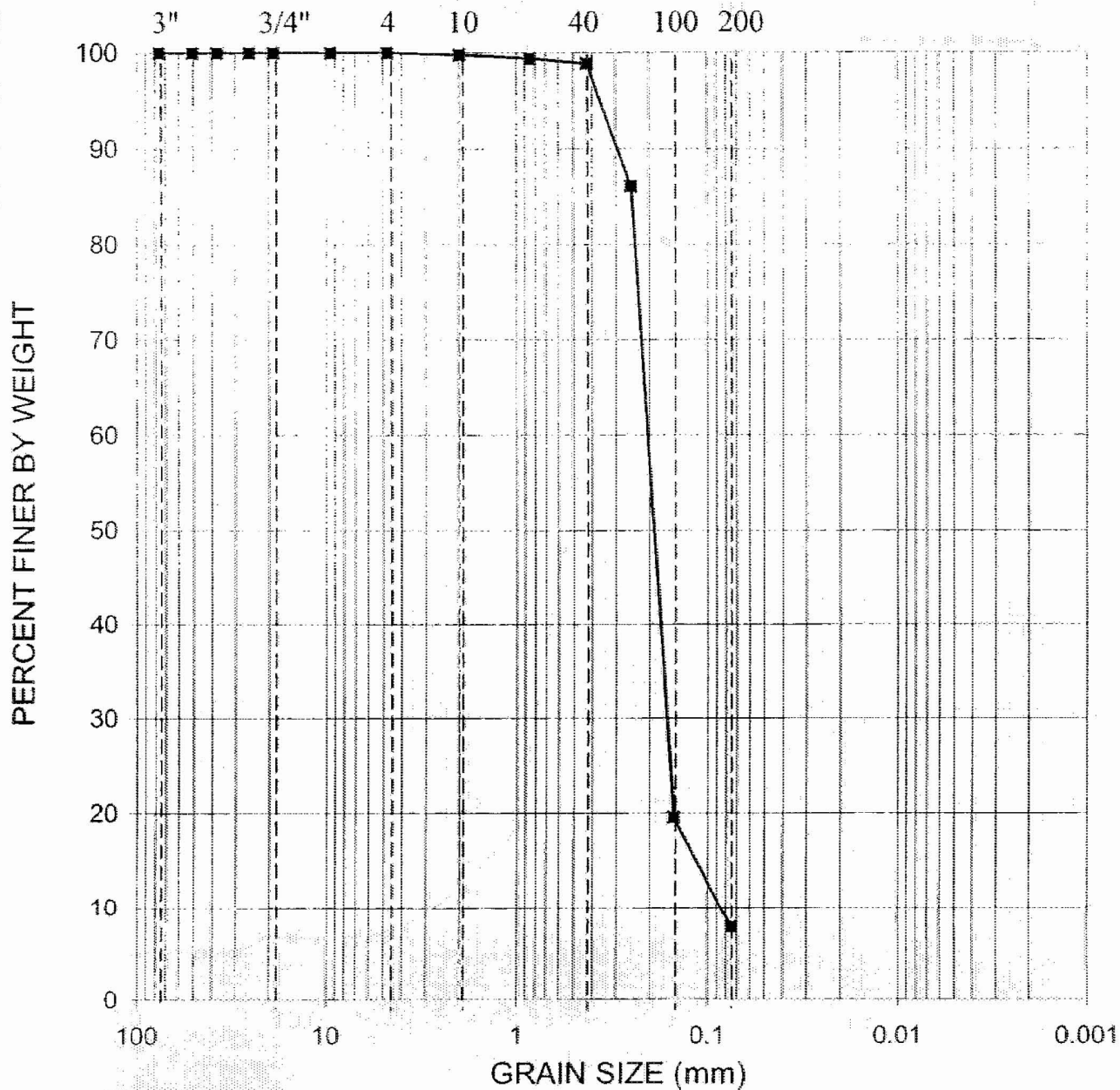


GRAVEL	SAND	SILT OR CLAY
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**GRADATION CURVE**  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	8/28/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-328	28.5	Clayey SAND, contains shells, dark gray	SC	40	19		

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: 8/22/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-328	38.5	Poorly Graded SAND, with silt, dark gray	SP-SM				