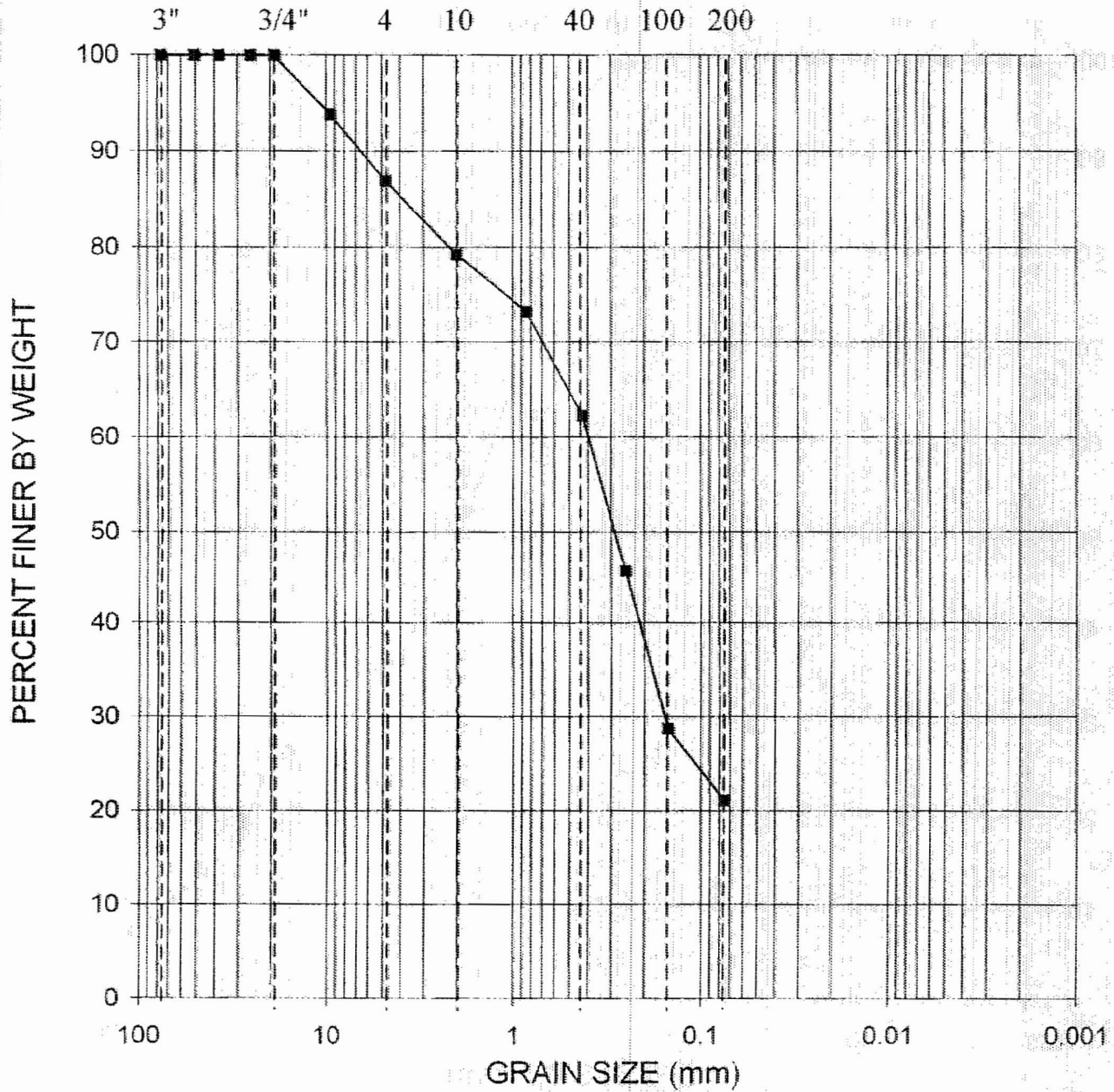


U.S. Standard Sieve Nos.



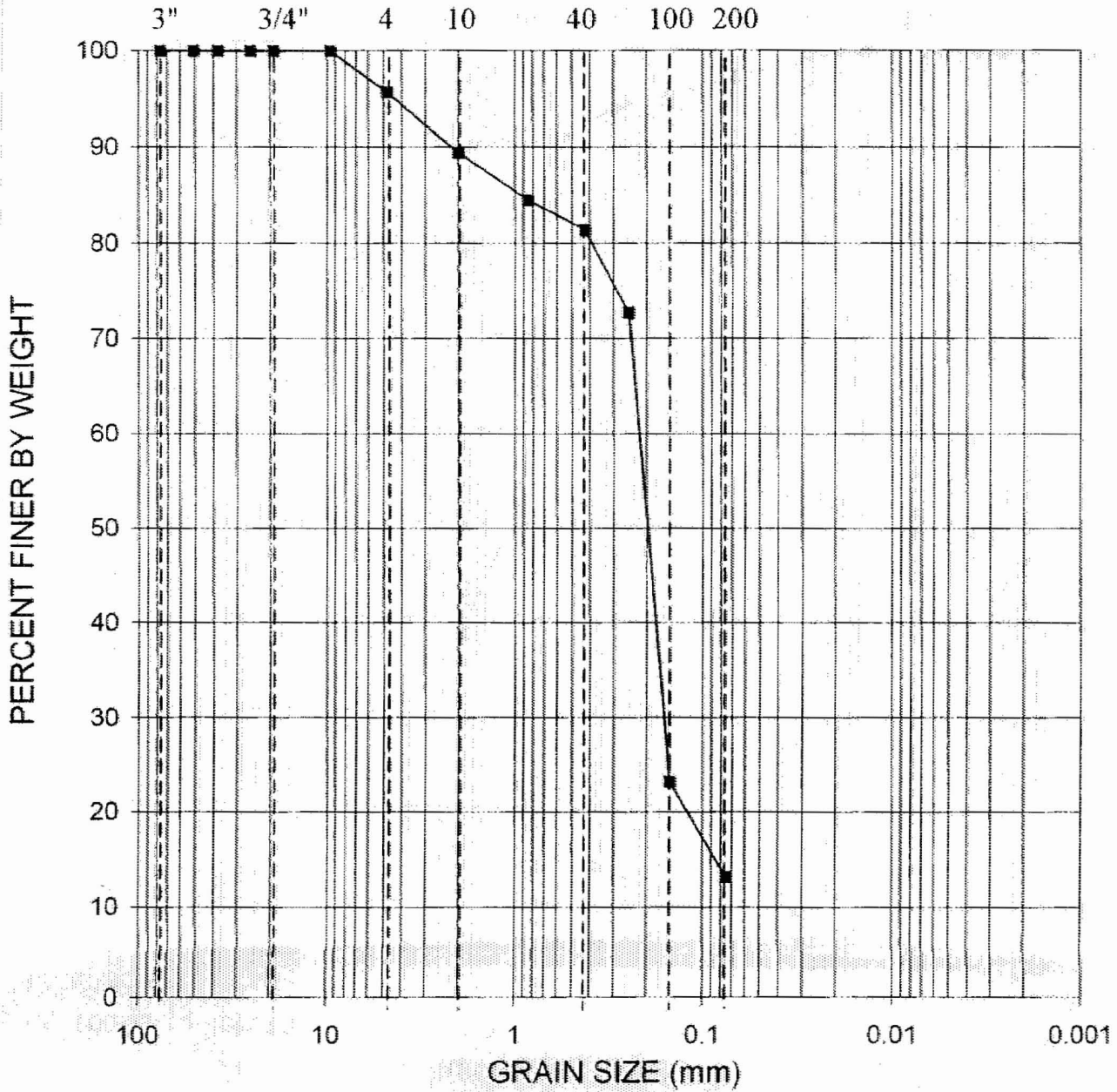
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland	Contract No. 06120048.00	Date: 9/11/2006
Boring No.	Depth (ft)	Sample Description	Class. LL. PI
B-401	43.5	Silty SAND, trace shells, dark brown	SM



U.S. Standard Sieve Nos.

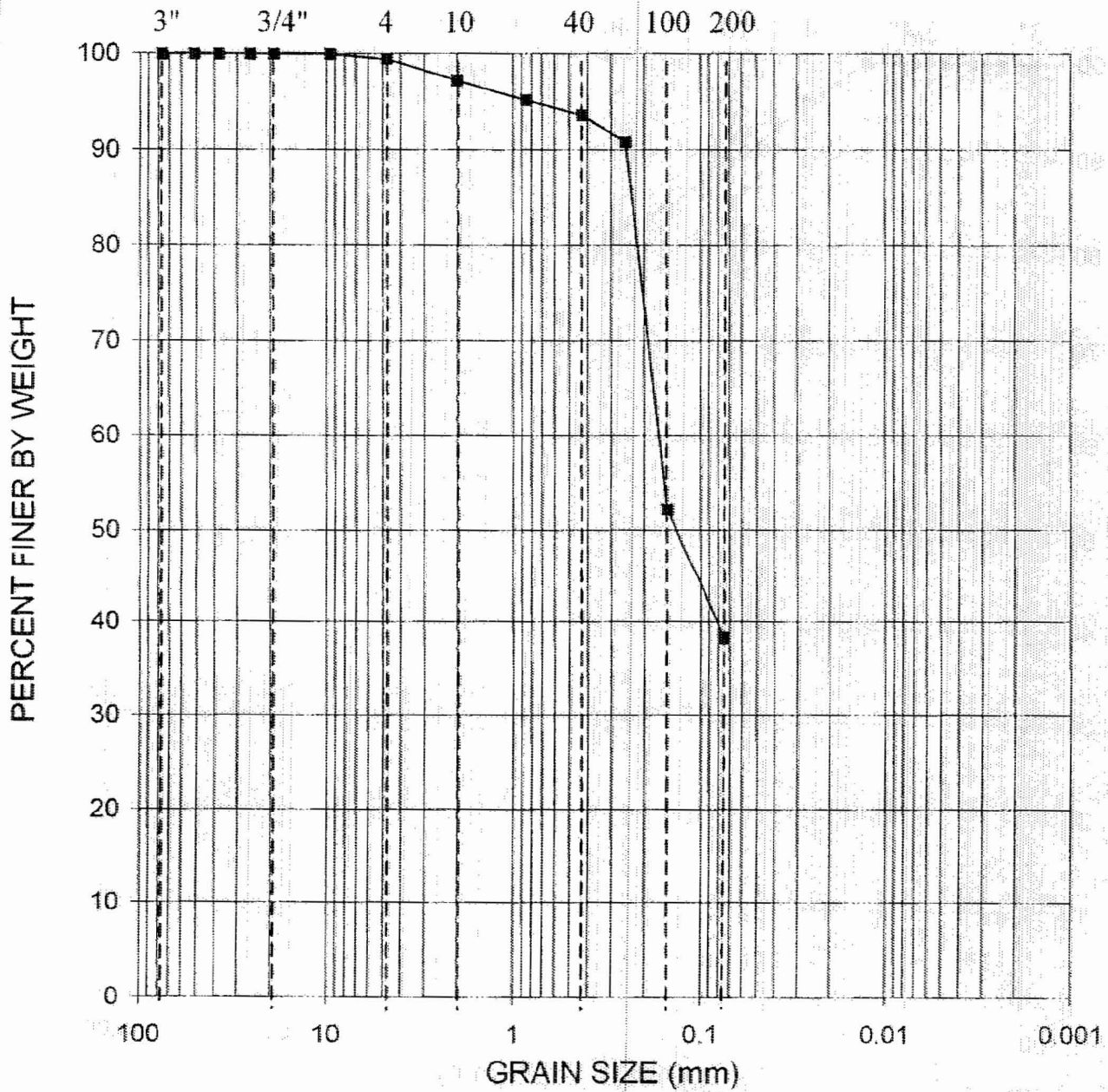


GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/11/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI		
B-401	58.5	Silty SAND, trace shells, dark gray	SM				

U.S. Standard Sieve Nos.



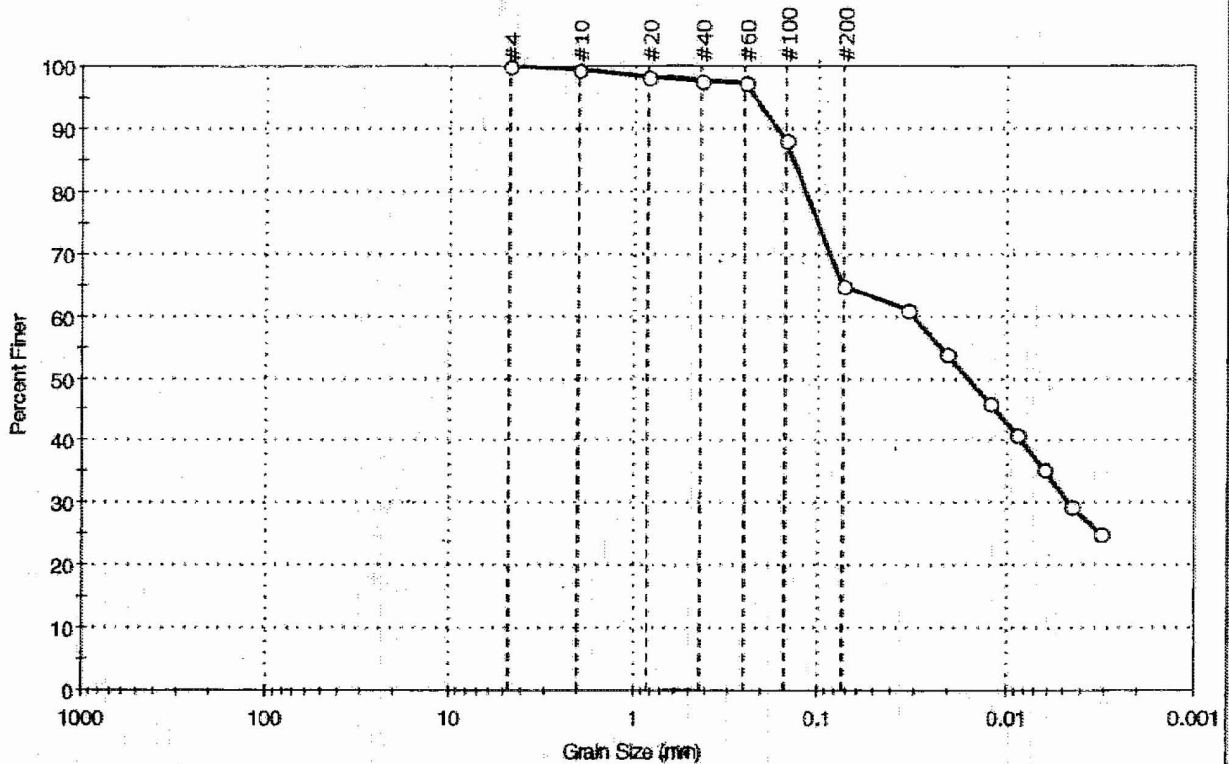
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.:	06120048.00	Date:	9/11/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	
B-401	88.5	Silty SAND, contains shells, dark gray	SM			

Client: Schnabel Engineering, Inc.	Project No: GTX-6880
Project: Subsurface Investigation Calvert Cliffs Nuclear PP	
Location: Calvert County, MD	
Boring ID: B-401	Sample Type: tube
Sample ID: S-23	Test Date: 10/17/06
Depth: 98.5-99.8 ft	Test Id: 97806
Tested By: sam	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	35.2	64.8

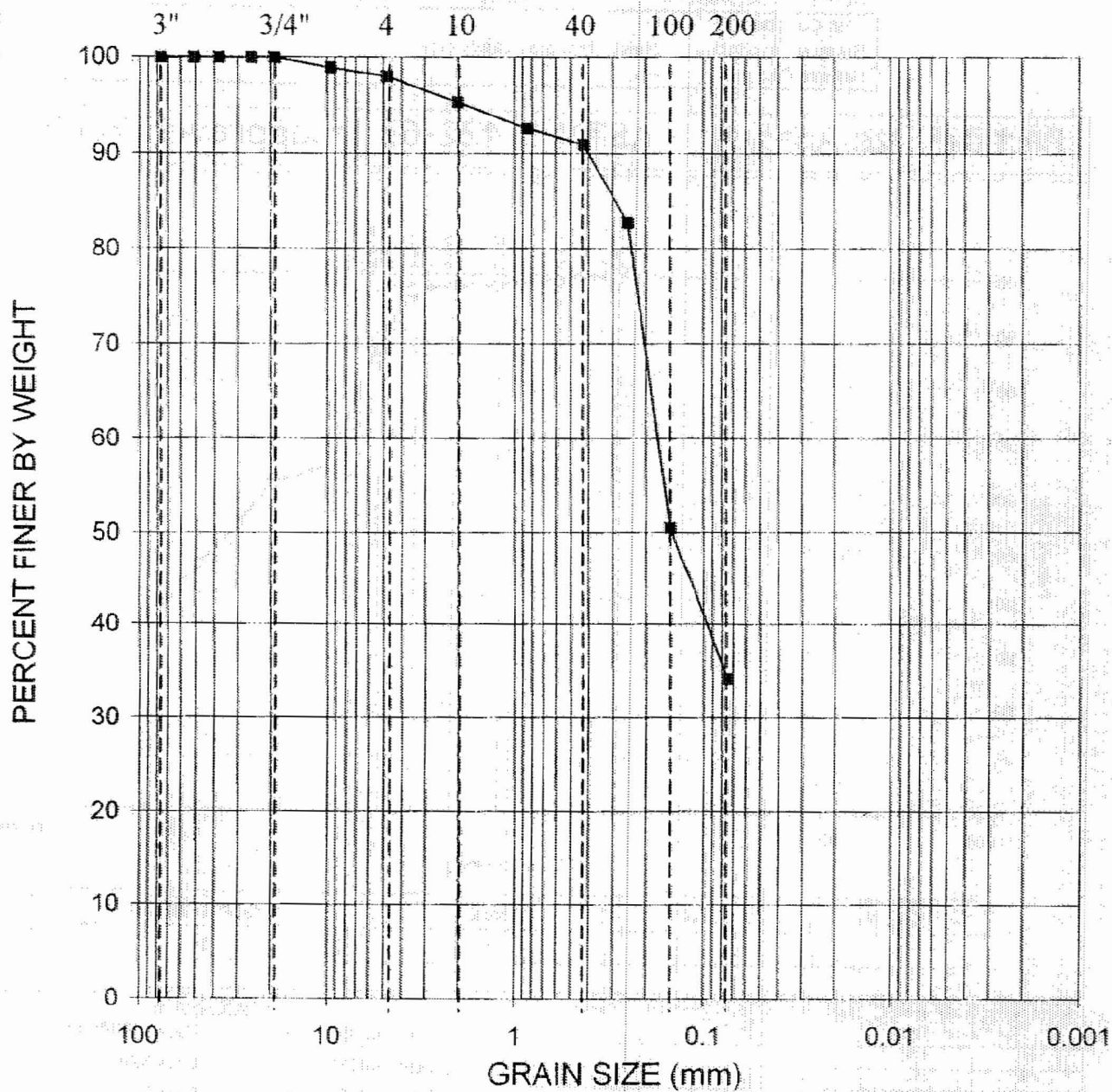
Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	99		
#20	0.85	98		
#40	0.425	98		
#60	0.25	97		
#100	0.15	96		
#200	0.075	65		
—	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
—	0.0311	61		
—	0.0208	54		
—	0.0122	46		
—	0.0067	41		
—	0.0063	35		
—	0.0045	30		
—	0.0032	25		

Coefficients	
D ₈₅ = 0.1360 mm	D ₃₀ = 0.0046 mm
D ₆₀ = 0.0311 mm	D ₁₅ = N/A
D ₅₀ = 0.0160 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

Classification	
ASTM	Sandy elastic silt (MH)
AASHTO	Clayey Soils (A-7-5 (25))

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

U.S. Standard Sieve Nos.



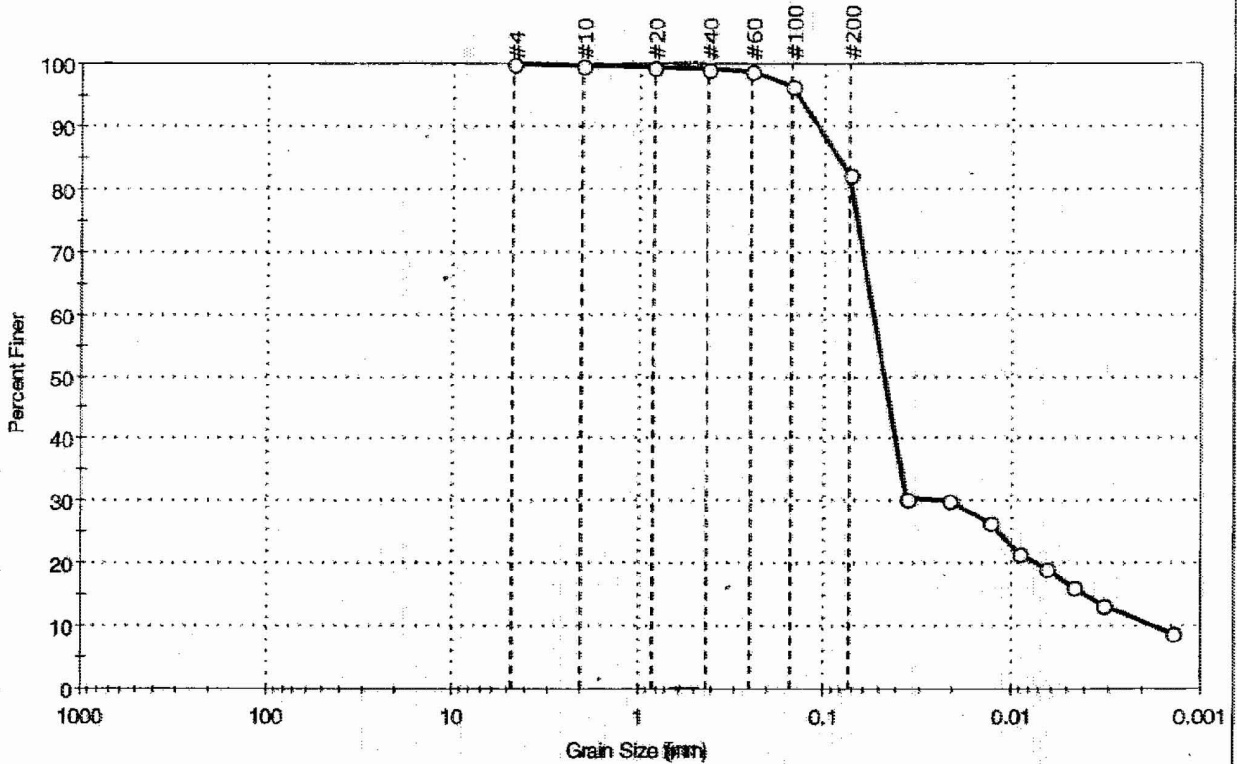
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/11/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-401	108.5	Silty SAND, trace shells, dark green	SM				

Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Location: Calvert County, MD	Project No: GTX-6880
Boring ID: B-401	Sample Type: tube	Tested By: sam	Checked By: mcm
Sample ID: S-28	Test Date: 10/17/06	Test ID: 97814	
Depth: 123.5-124.8 ft			
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
—	0.0	17.6	82.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	99		
#40	0.42	99		
#60	0.25	99		
#100	0.15	97		
#200	0.074	82		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0357	31		
---	0.0213	30		
---	0.0127	26		
---	0.0091	22		
---	0.0064	19		
---	0.0046	16		
---	0.0032	13		
---	0.0014	9		

Coefficients

D ₈₅ = 0.0844 mm	D ₃₀ = 0.0212 mm
D ₆₀ = 0.0540 mm	D ₁₅ = 0.0039 mm
D ₅₀ = 0.0470 mm	D ₁₀ = 0.0017 mm
C _u = N/A	C _c = N/A

Classification

ASTM elastic silt with sand (MH)

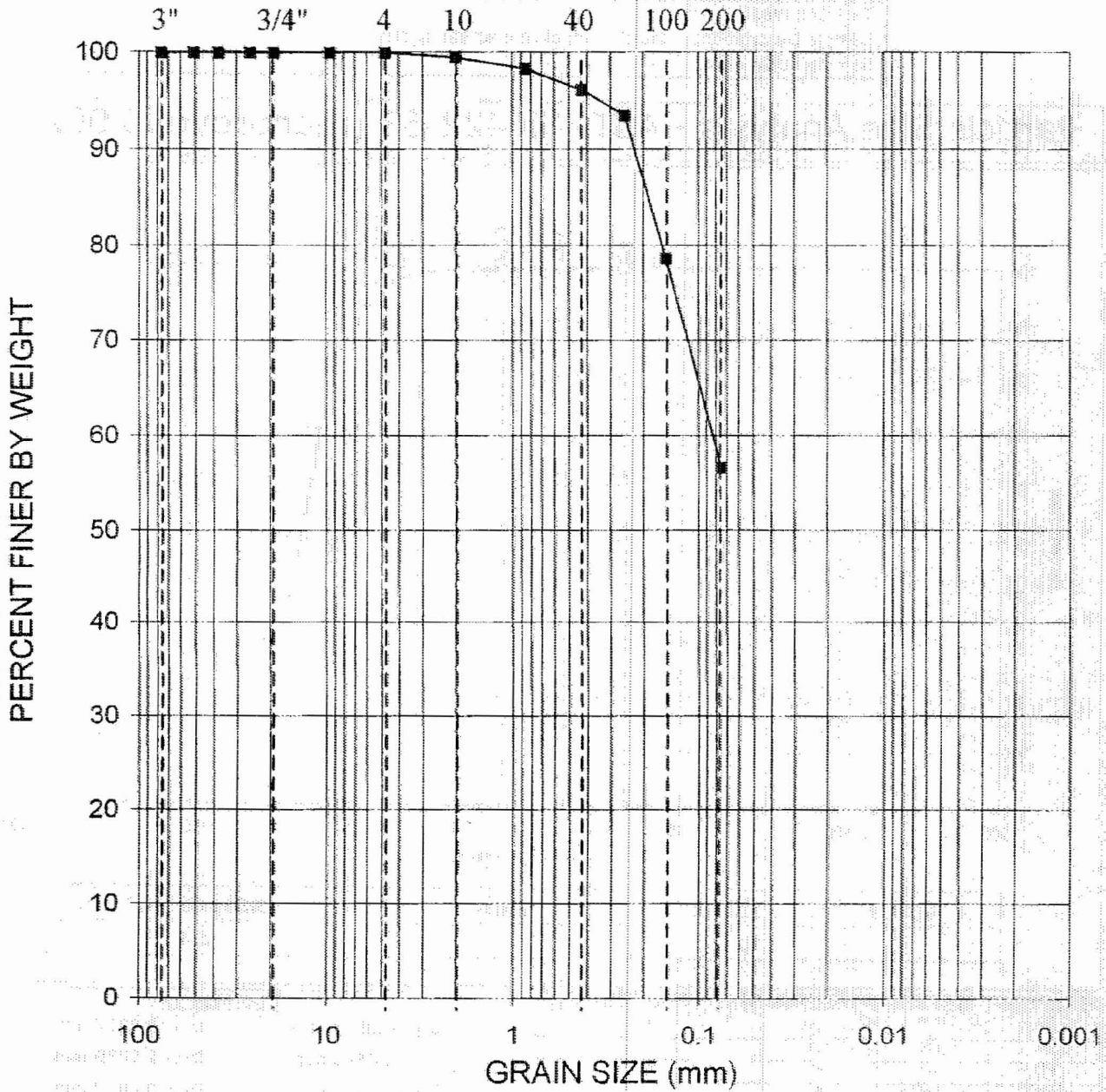
AASHTO Clayey Soils (A-7-5 (37))

Sample / Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : ---

U.S. Standard Sieve Nos.

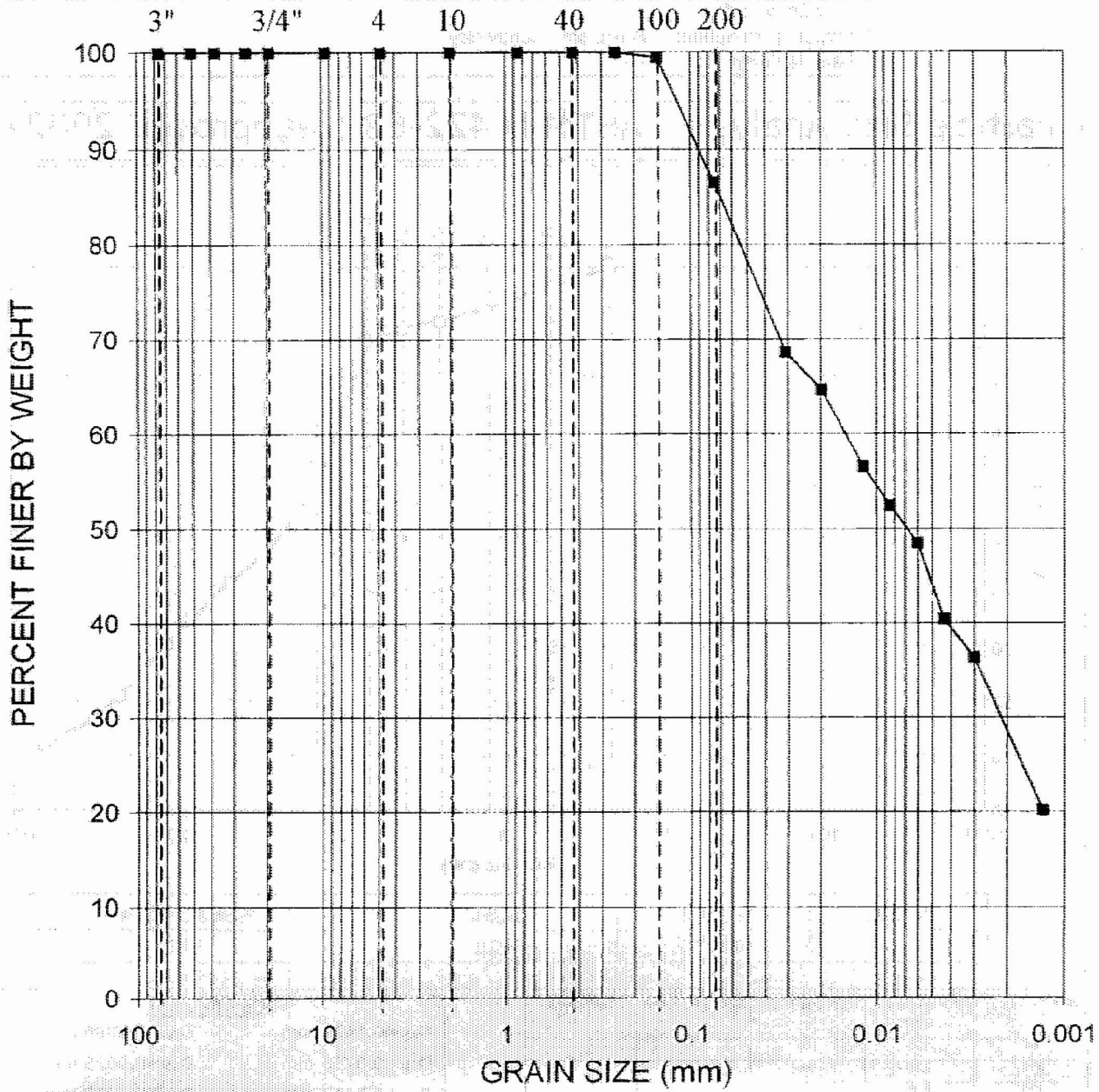


GRAVEL SAND SILT OR CLAY

GRADATION CURVE
ASTM D422

Project	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.	06120048.00	Date	9/11/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	
B-401	128.5	Sandy SILT, contains shells, dark green	ML			

U.S. Standard Sieve Nos.



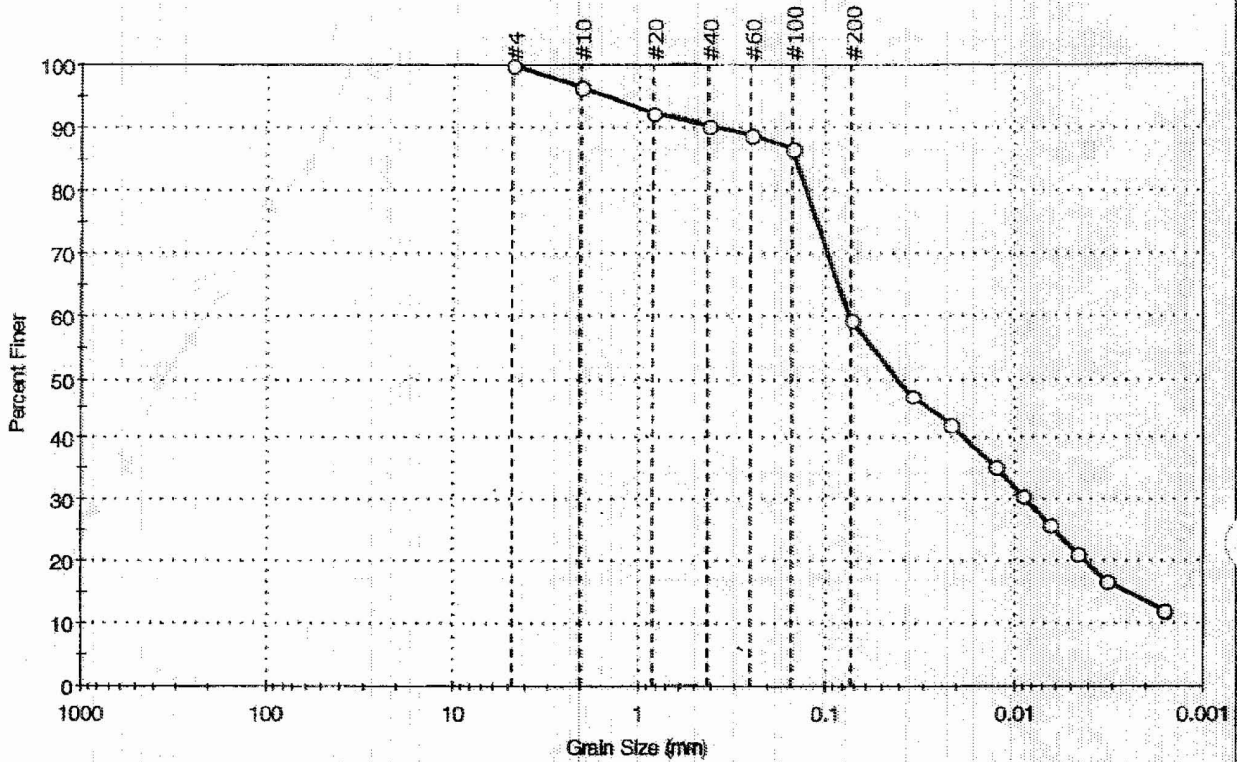
GRAVEL SAND SILT OR CLAY

GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/18/2006
Boring No.:	Depth (ft):	Sample Description:	Class.:	LL:	PI:		
B-401	148.5	ELASTIC SILT, dark green	MH	150	61		

Client: Schnabel Engineering, Inc.
 Project: Subsurface Investigation Calvert Cliffs Nuclear PP
 Location: Calvert County, MD Project No: GTX-6880
 Boring ID: B-401 Sample Type: tube Tested By: sam
 Sample ID: S-35 Test Date: 09/22/06 Checked By: mcm
 Depth: 158.5-159.3 ft Test Id: 97822
 Test Comment: ---
 Sample Description: Moist, olive sandy clay
 Sample Comment: ---

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	0.0	40.8	59.2

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	97		
#20	0.84	92		
#40	0.42	90		
#60	0.25	89		
#100	0.15	87		
#200	0.074	59		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0347	47		
---	0.0217	42		
---	0.0126	35		
---	0.0090	31		
---	0.0064	26		
---	0.0046	21		
---	0.0032	17		
---	0.0016	12		

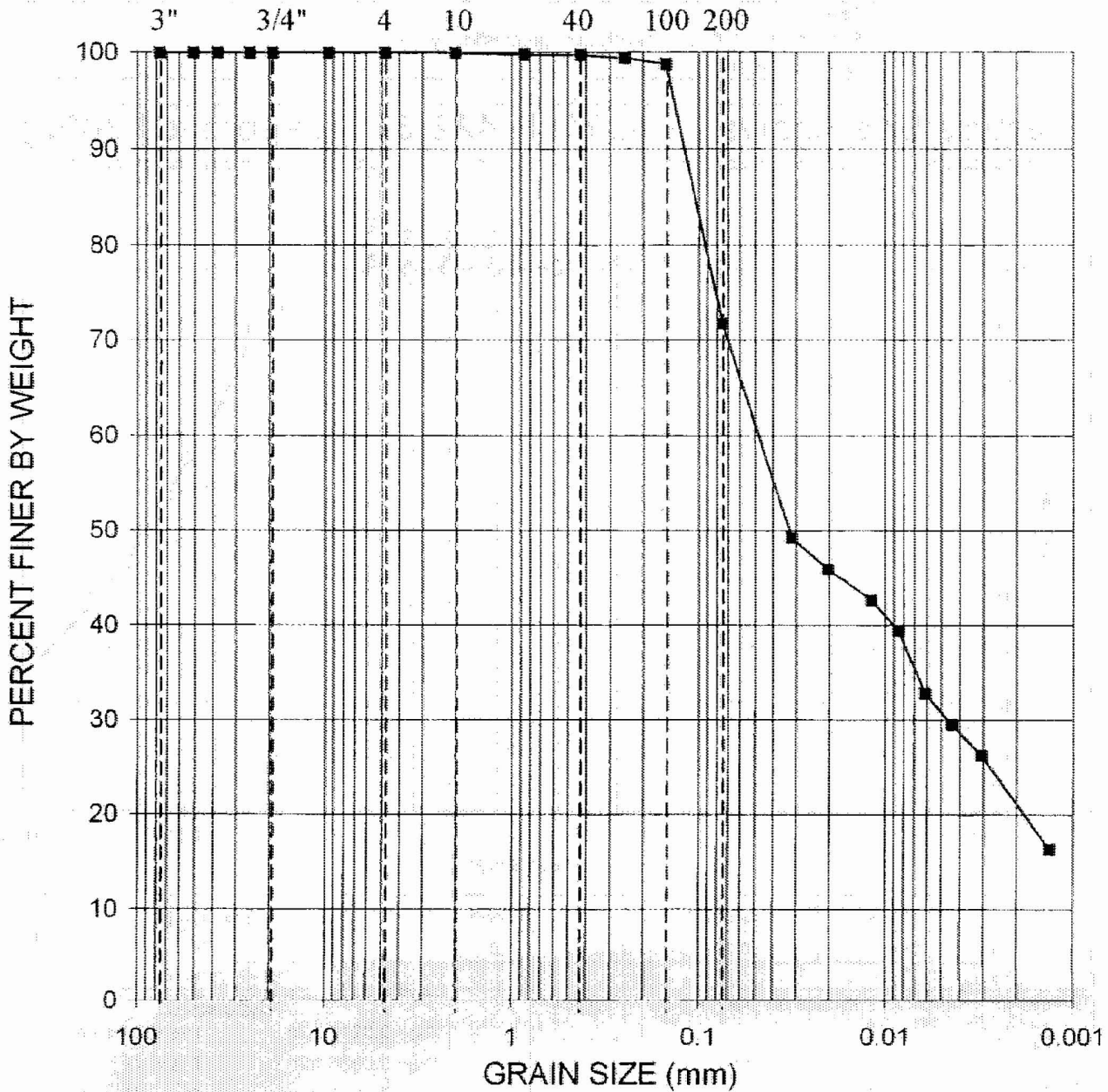
Coefficients

D ₈₅ = 0.1428 mm	D ₃₀ = 0.0086 mm
D ₆₀ = 0.0756 mm	D ₁₅ = 0.0025 mm
D ₅₀ = 0.0417 mm	D ₁₀ = 0.0012 mm
C _u = N/A	C _c = N/A

Classification
 ASTM: Sandy elastic silt (MH)
 AASHTO: Clayey Soils (A-7-5 (20))


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

U.S. Standard Sieve Nos.



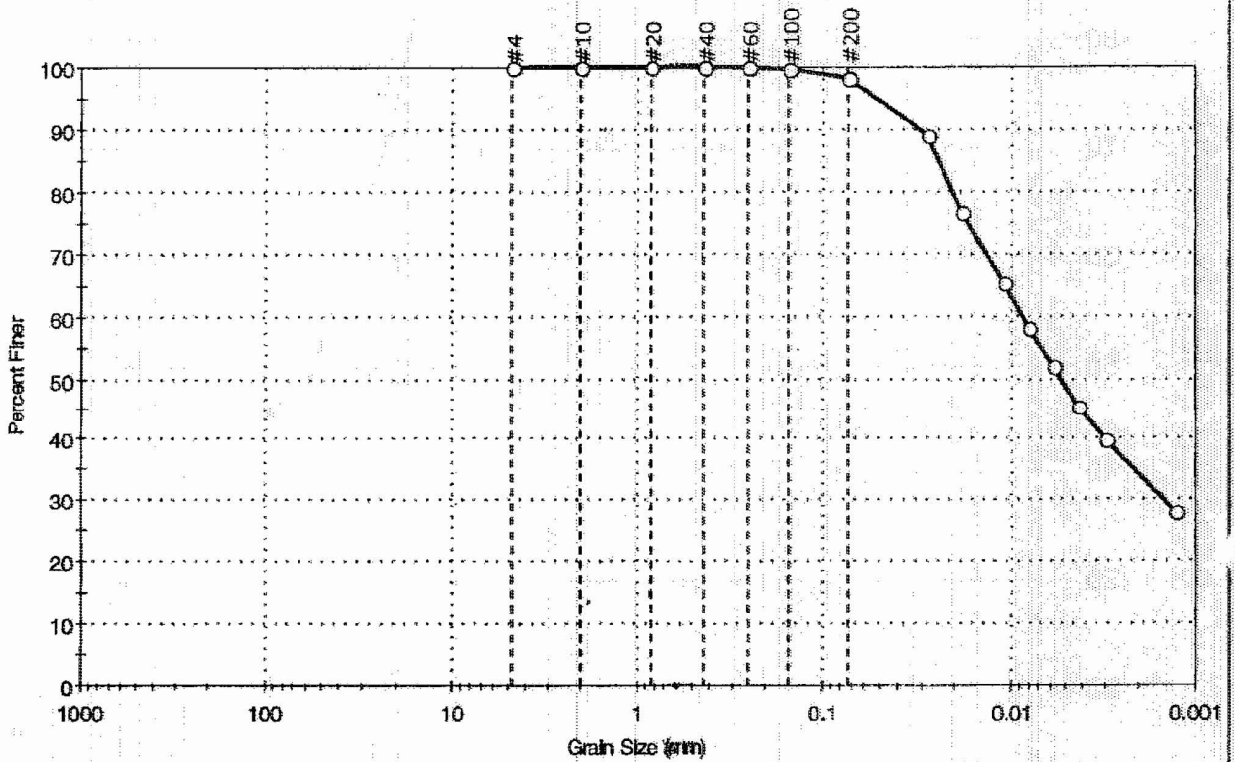
GRAVEL SAND SILT OR CLAY

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-401	168.5	ELASTIC SILT, with sand, dark green	MH	103	51		

Client: Schnabel Engineering, Inc.
 Project: Subsurface Investigation Calvert Cliffs Nuclear PP
 Location: Calvert County, MD Project No: GTX-6880
 Boring ID: B-401 Sample Type: tube Tested By: sam
 Sample ID: S-37 Test Date: 10/27/06 Checked By: mcm
 Depth: 173.5-174.4 ft Test Id: 97830
 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
—	0.0	1.8	98.2

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	100		
#100	0.15	100		
#200	0.075	98		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.025	89		
---	0.015	77		
---	0.010	65		
---	0.0075	58		
---	0.005	52		
---	0.00425	45		
---	0.0025	40		
---	0.0015	28		

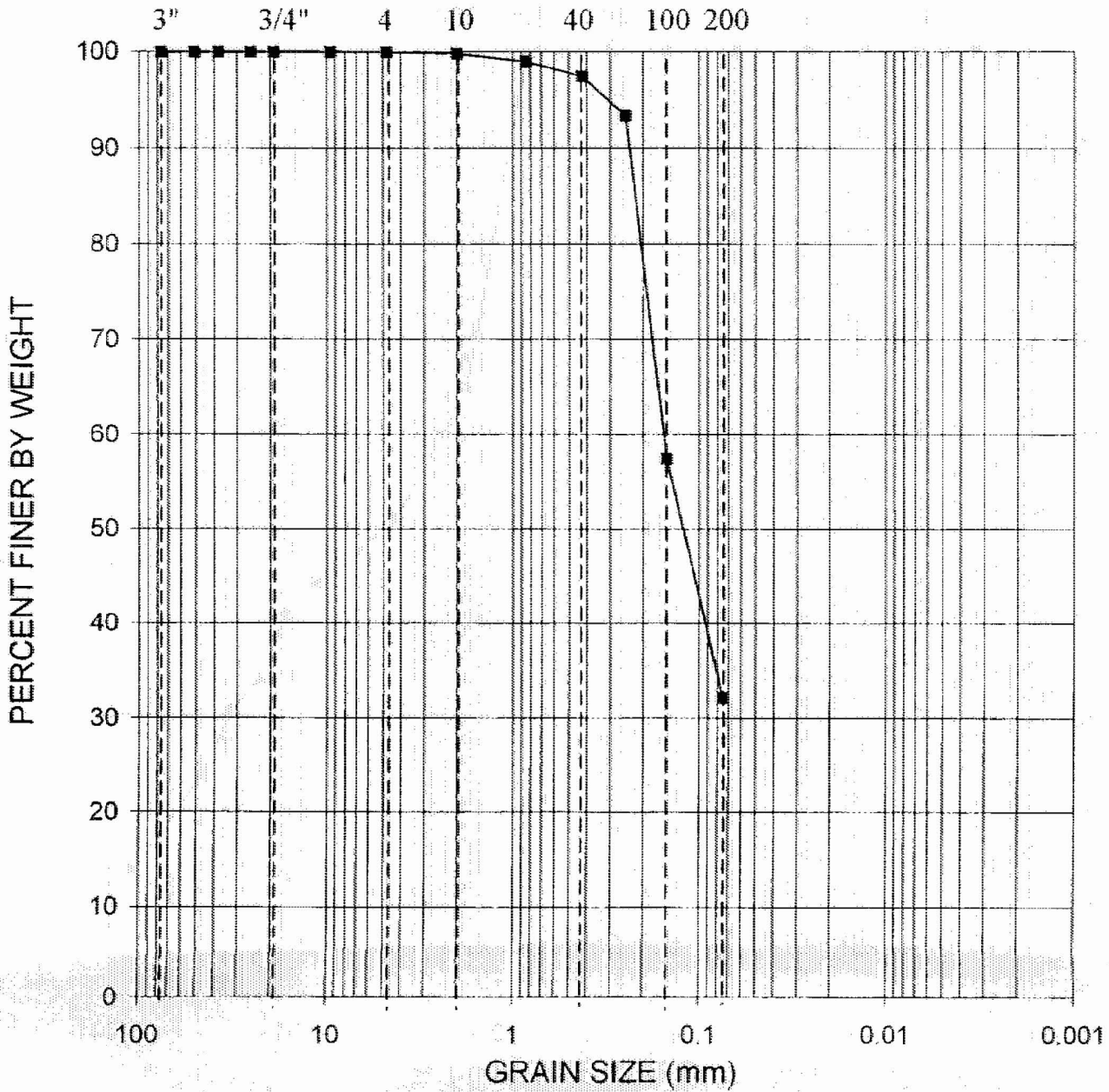
Coefficients

D ₈₅ = 0.0243 mm	D ₃₀ = 0.0015 mm
D ₆₀ = 0.0086 mm	D ₁₅ = N/A
D ₅₀ = 0.0052 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

Classification
 ASTM fat clay (CH)
 AASHTO Clayey Soils (A-7-6 (48))

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

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:	9/11/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	
B-401	183.5	Silty SAND, contains shells, dark green	SM			

