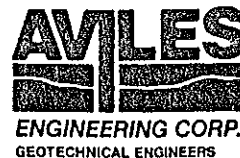
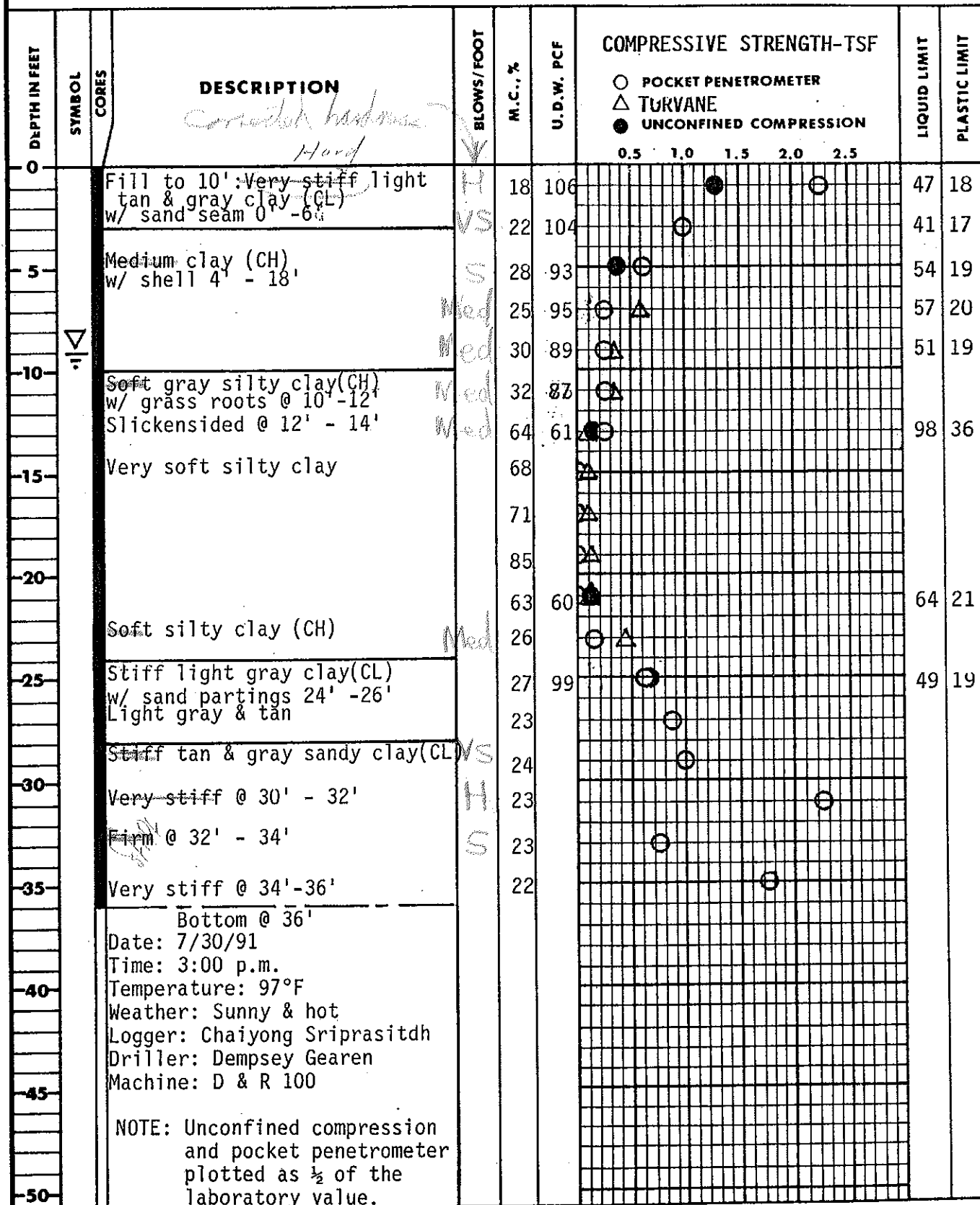


PROJECT NO. 278-91 (B 91-202)

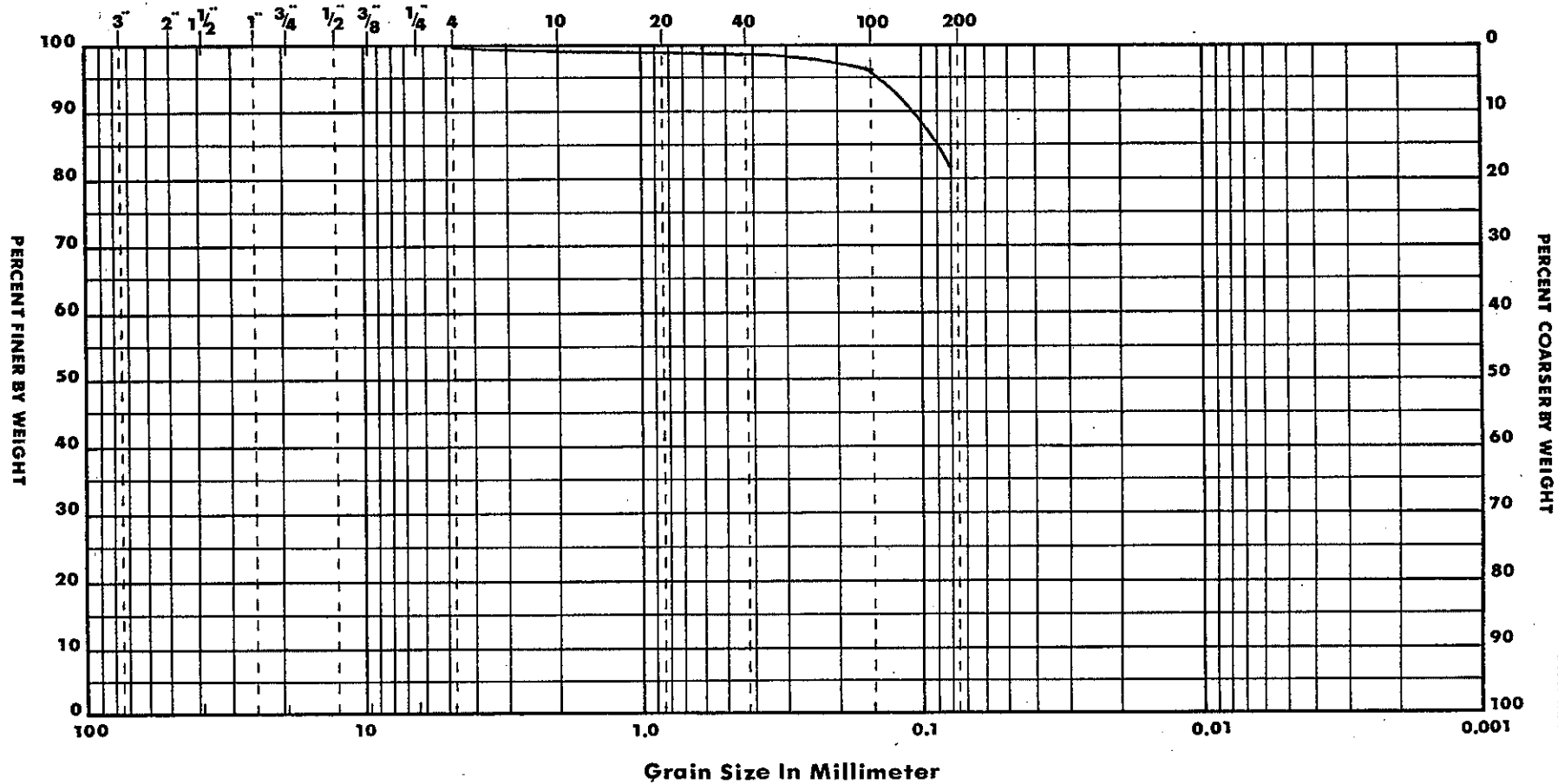

PROJECT Water Control Structure at
Salt Bayou
BORING 91-202**DATE** 7/27/91**TYPED & R 3" Core****LOCATION** See Plan

BORING DRILLED TO 36 FEET WITHOUT DRILLING FLUID
WATER ENCOUNTERED AT 24 FEET WHILE DRILLING
WATER LEVEL AT 10.5 FEET AFTER 1/2 HOURS Water at 9' on 7/30/91

SUMMARY OF LABORATORY TEST DATA

GRAIN SIZE CURVES

U S STANDARD SIEVE SIZES



GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

Curve No.

Boring No.

Depth, Ft.

Material

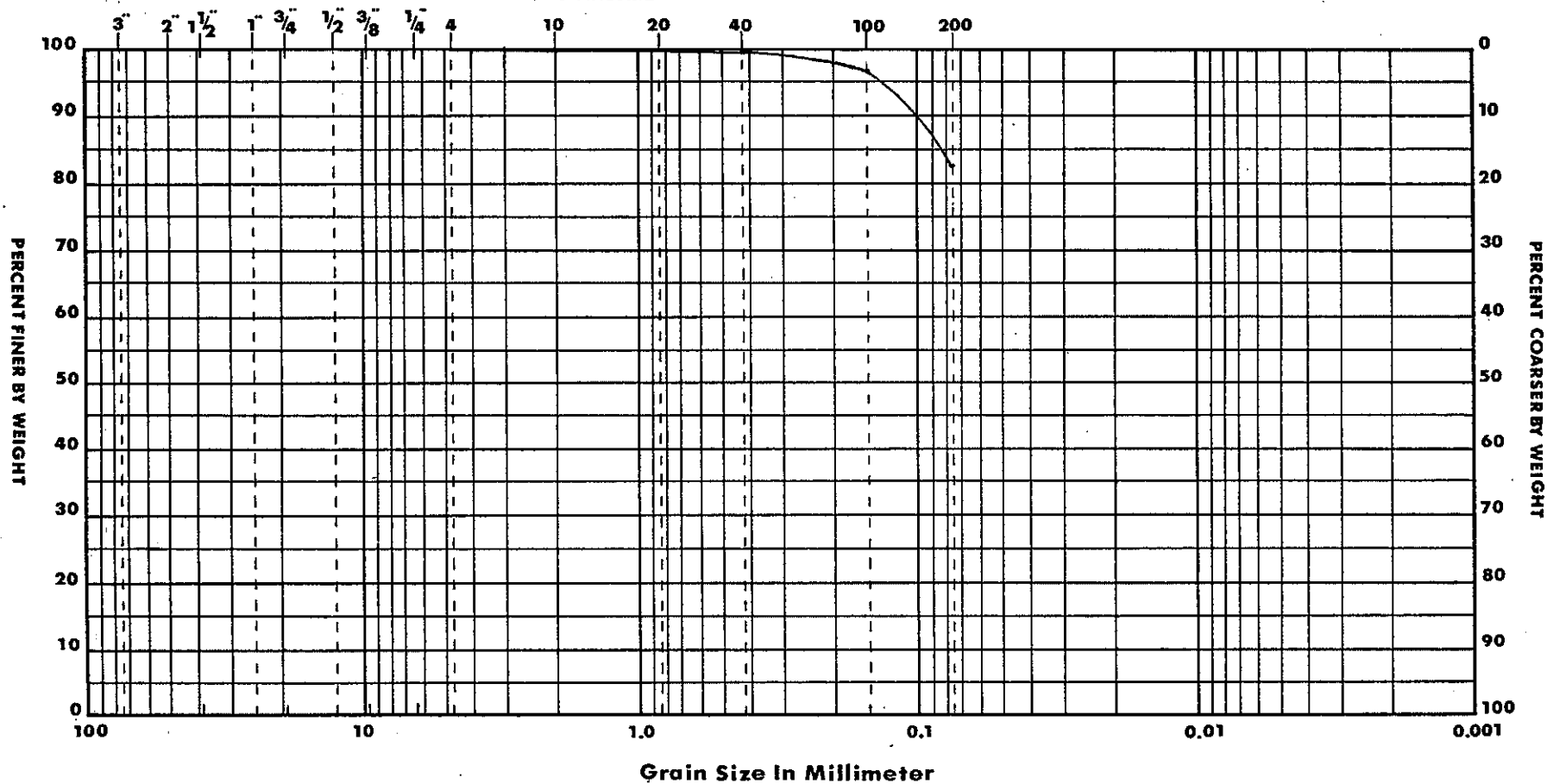
91-202

0'-2'

Very stiff light tan & gray clay (CL)

GRAIN SIZE CURVES

U S STANDARD SIEVE SIZES



GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

Curve No.

Boring No.

Depth, Ft.

Material

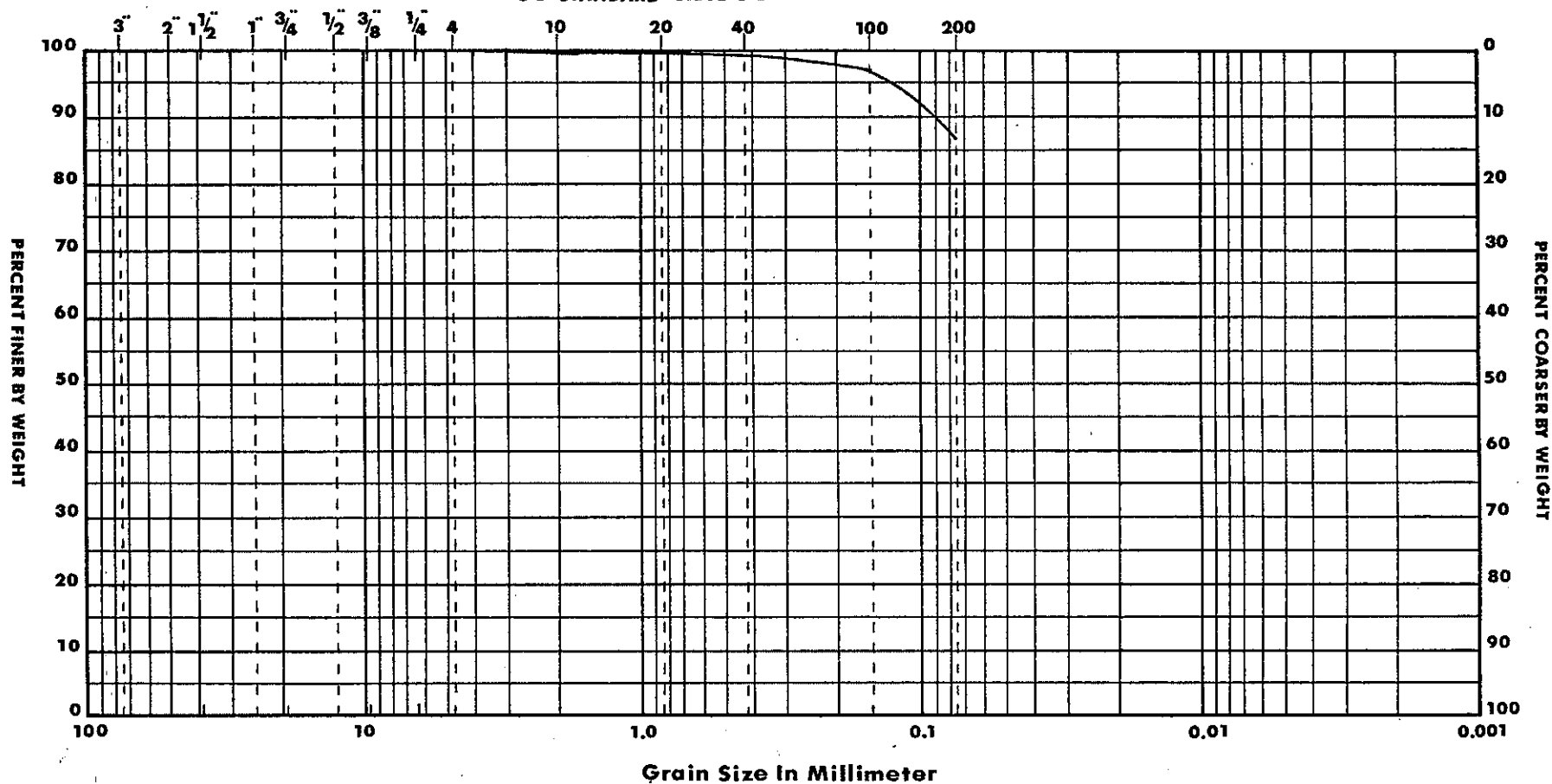
91-202

2-4'

Very stiff light tan & gray clay (CL)
w/ ferreous nodules & sand seams

GRAIN SIZE CURVES

U S STANDARD SIEVE SIZES



GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

Curve No.

Boring No.

Depth, Ft.

Material

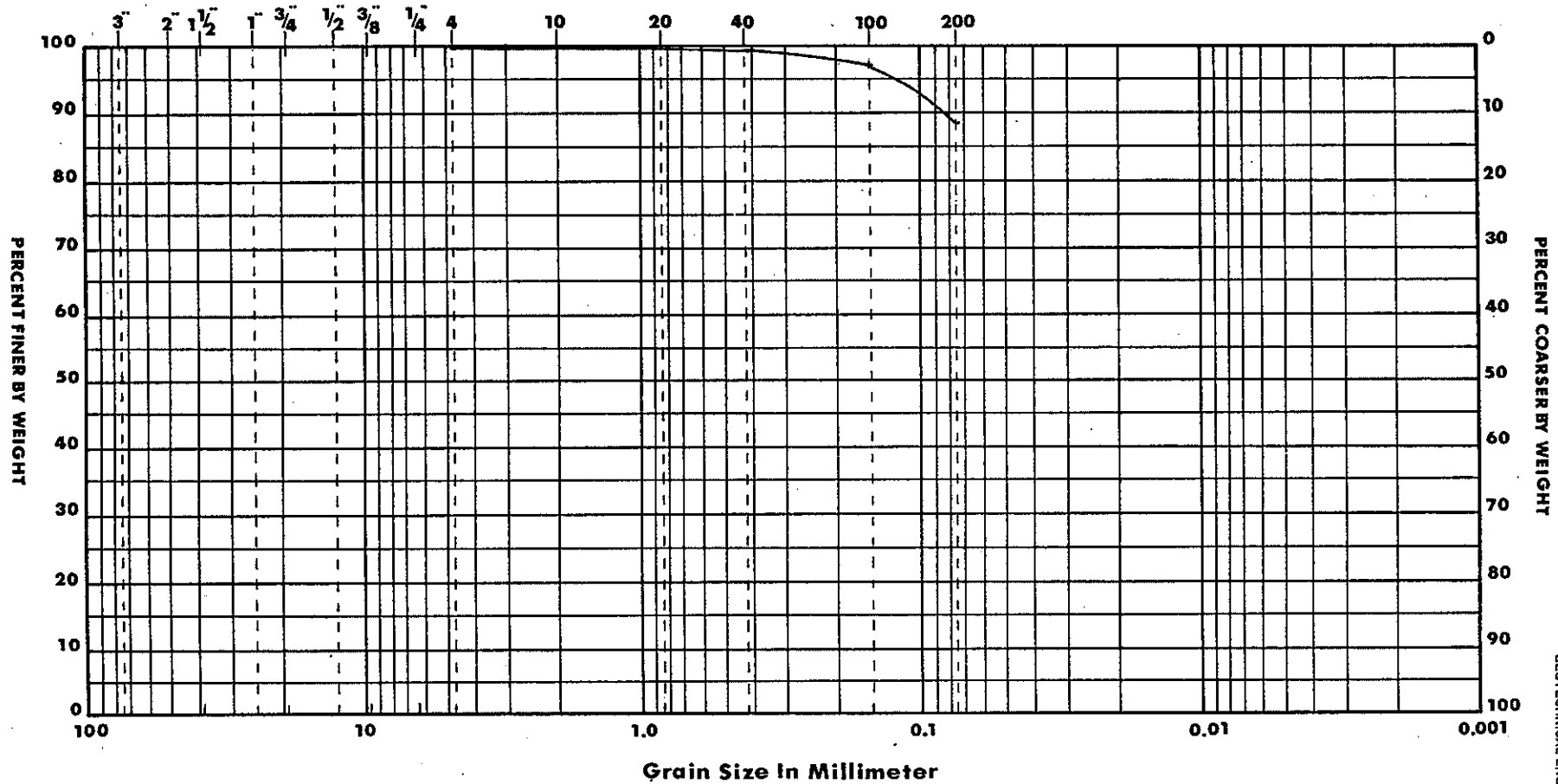
91-202

4'-6'

Medium light tan & gray clay (CH)
w/ sand seams & shells

GRAIN SIZE CURVES

U S STANDARD SIEVE SIZES



GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

Curve No.

Boring No.

Depth, Ft.

Material

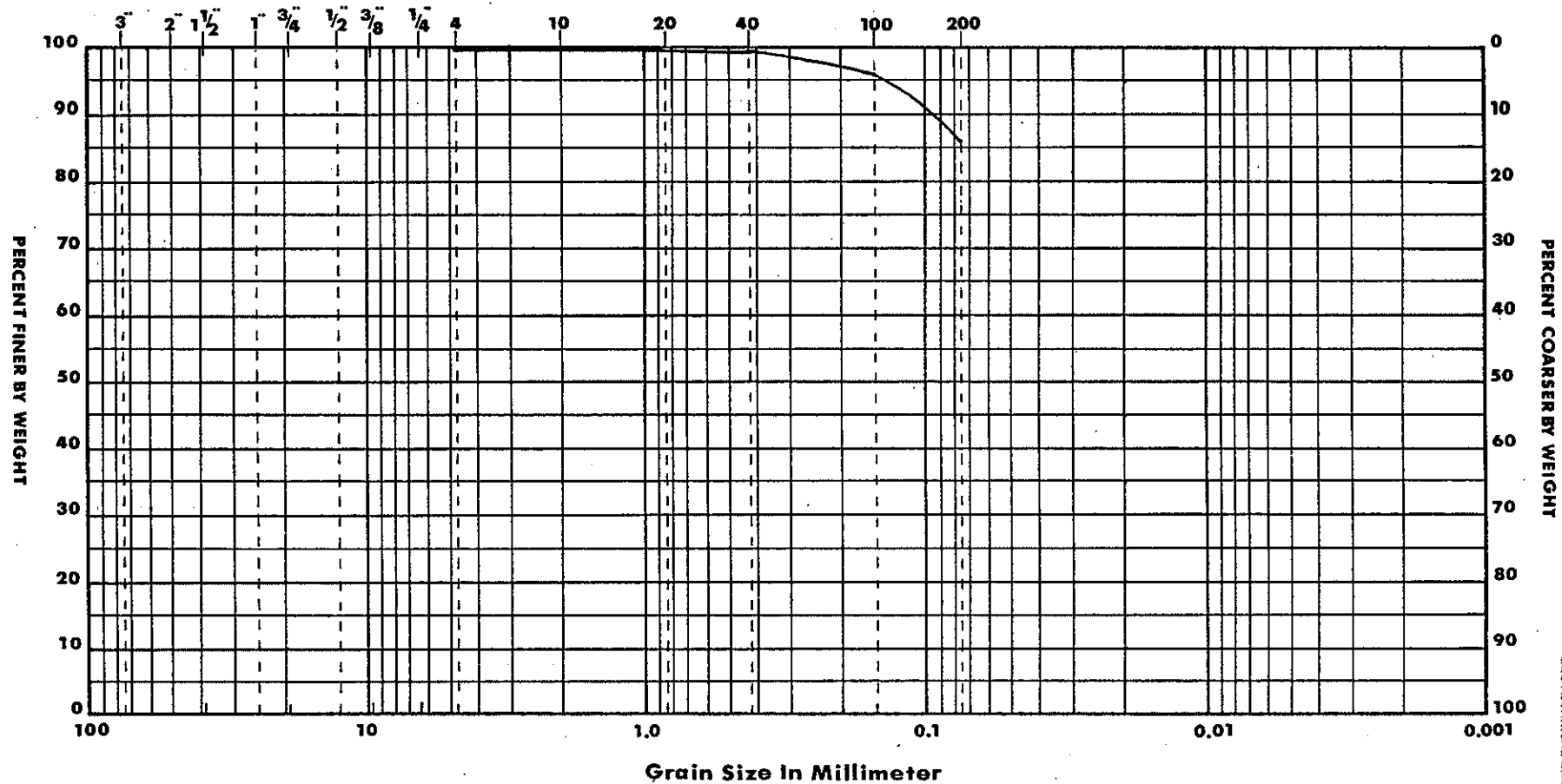
91-202

6'-8'

Medium light tan & gray clay (CH)
w/ shell

GRAIN SIZE CURVES

U S STANDARD SIEVE SIZES



GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

Curve No.

Boring No.

Depth, Ft.

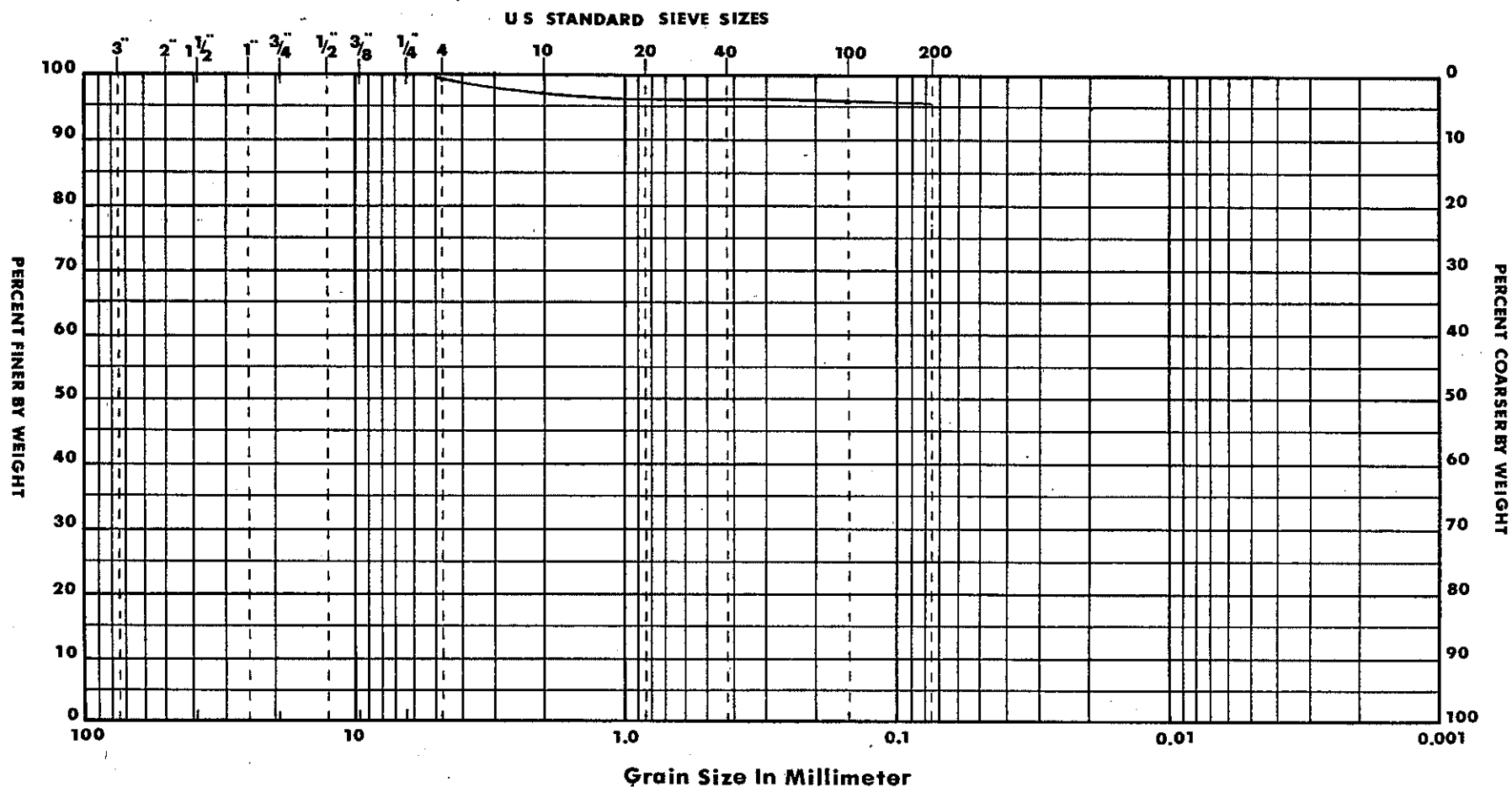
Material

91-202

8'-10'

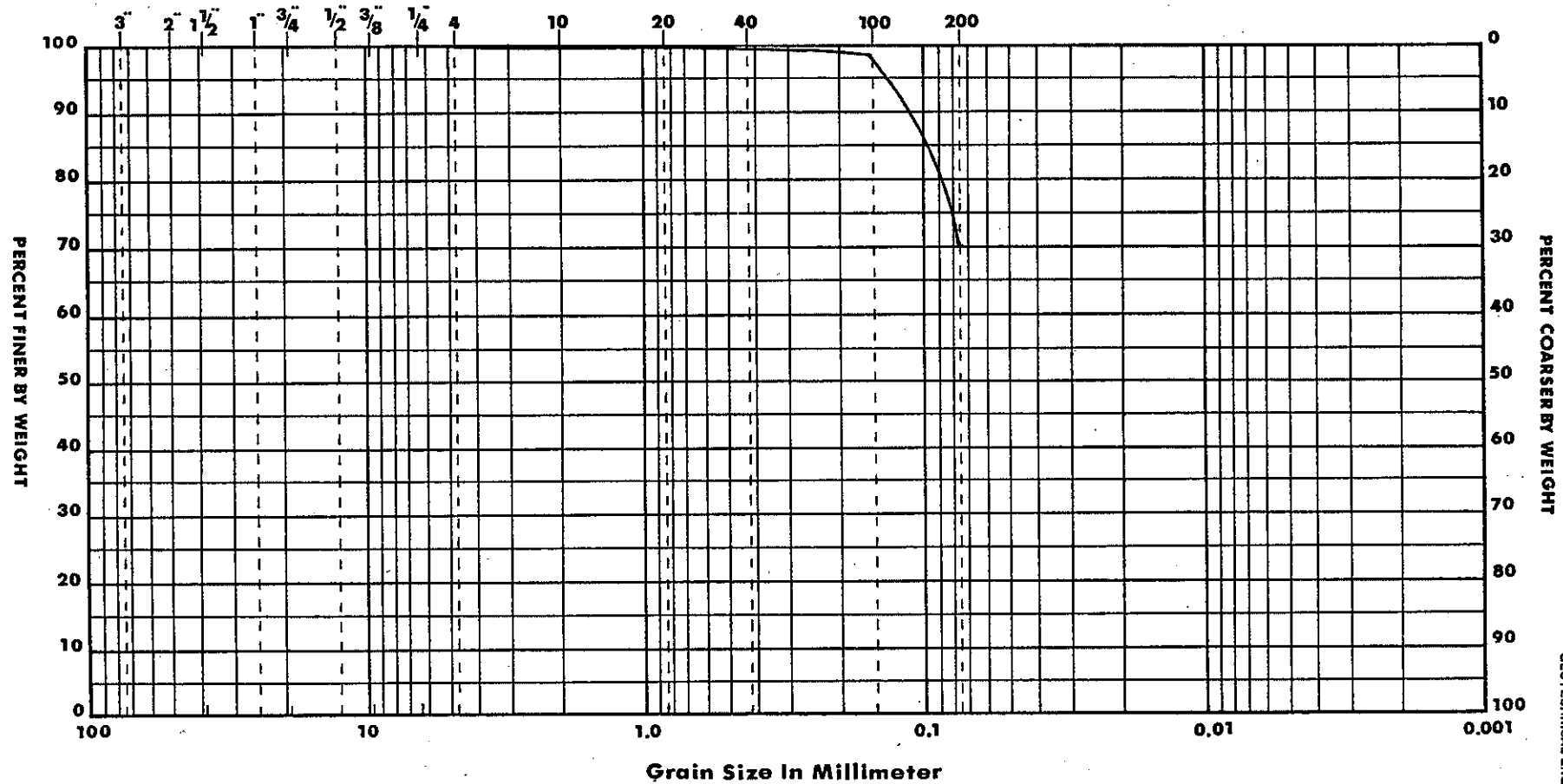
Medium light tan & gray clay (CH)

GRAIN SIZE CURVES



GRAIN SIZE CURVES

U S STANDARD SIEVE SIZES



GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

Curve No.

Boring No.

Depth, Ft.

Material

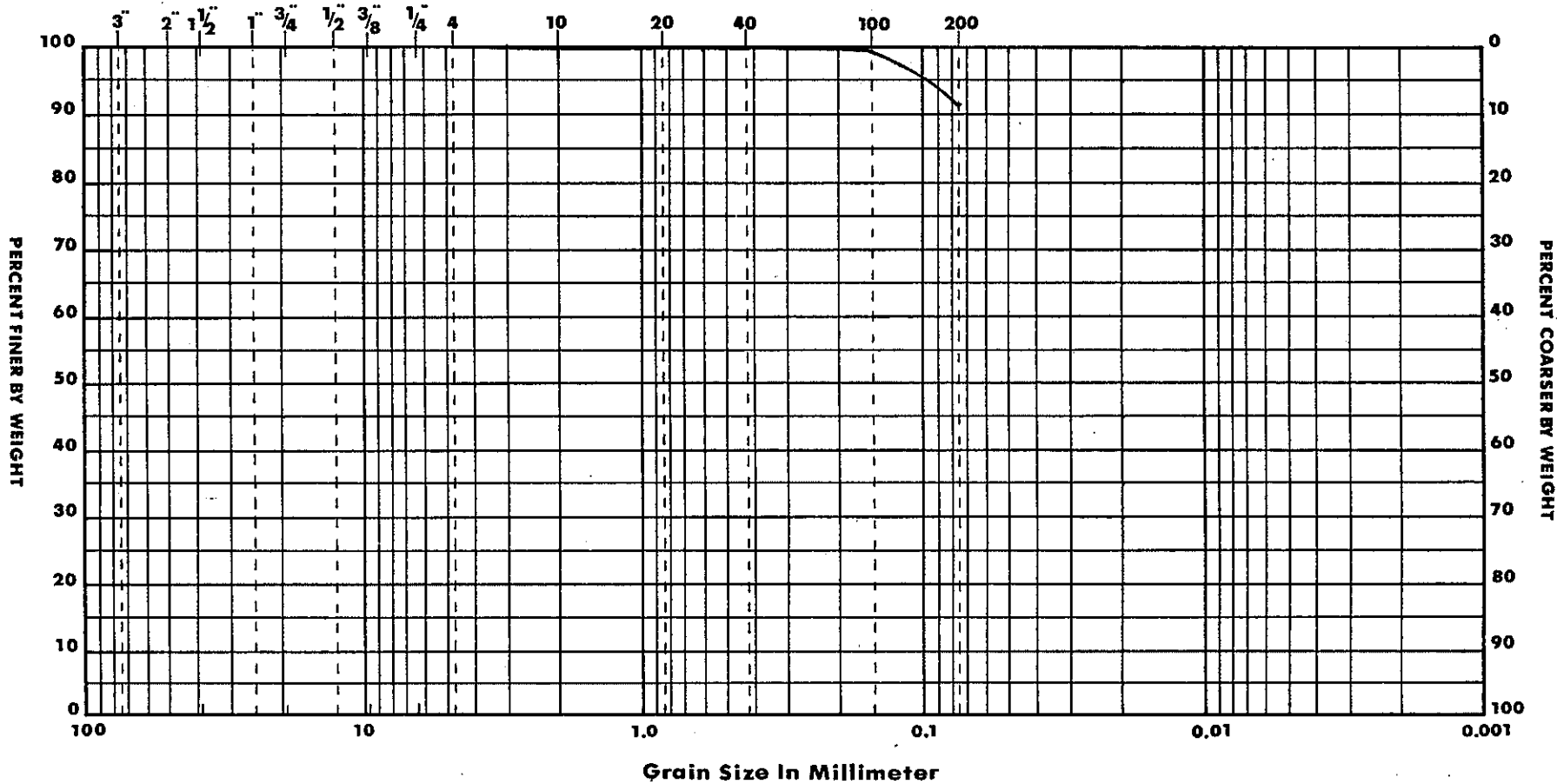
91-202

20'-22'

Very soft silty clay (CH)

GRAIN SIZE CURVES

U S STANDARD SIEVE SIZES



GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

Curve No.

Boring No.

Depth, Ft.

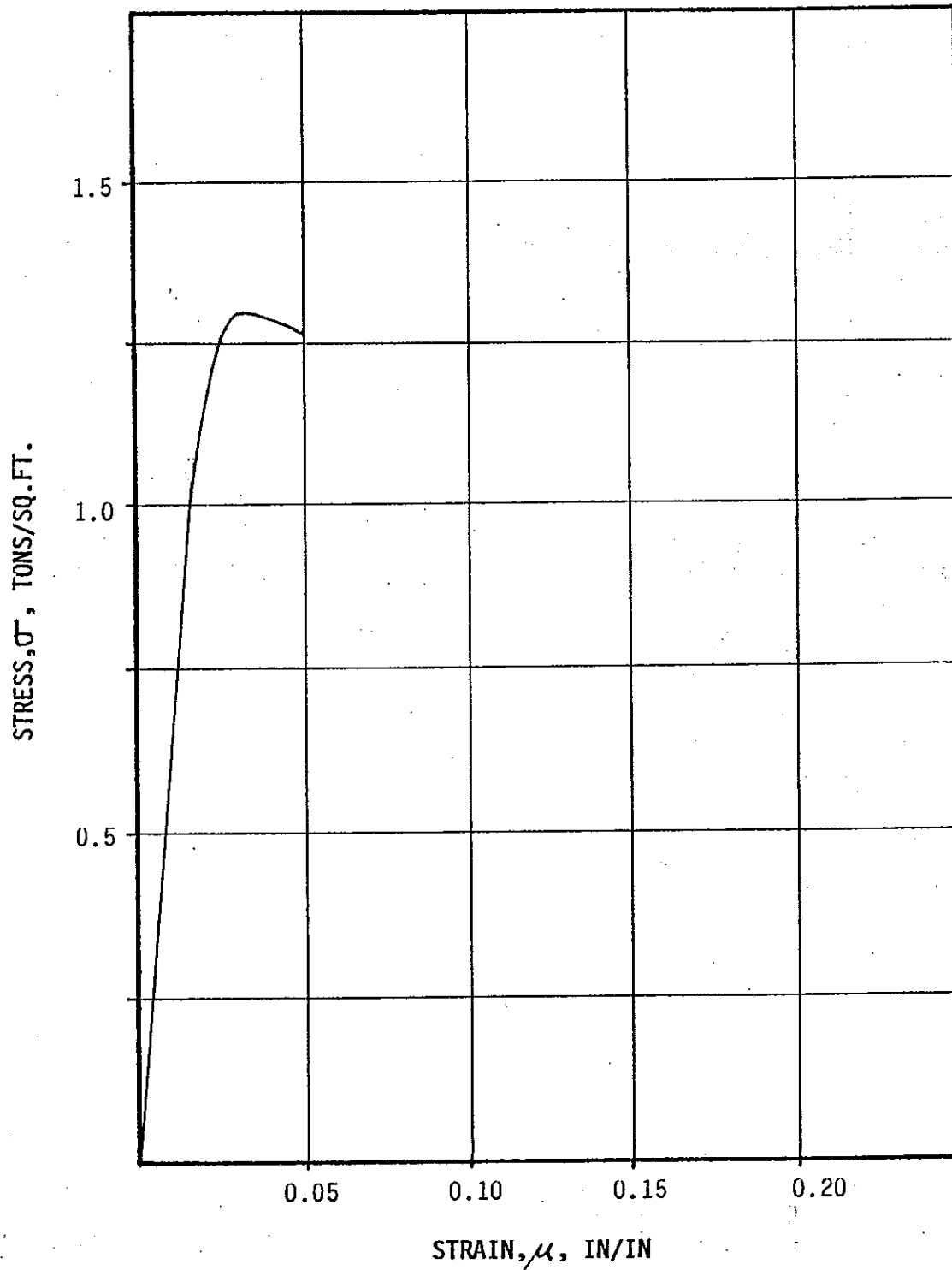
Material

91-202

24'-26'

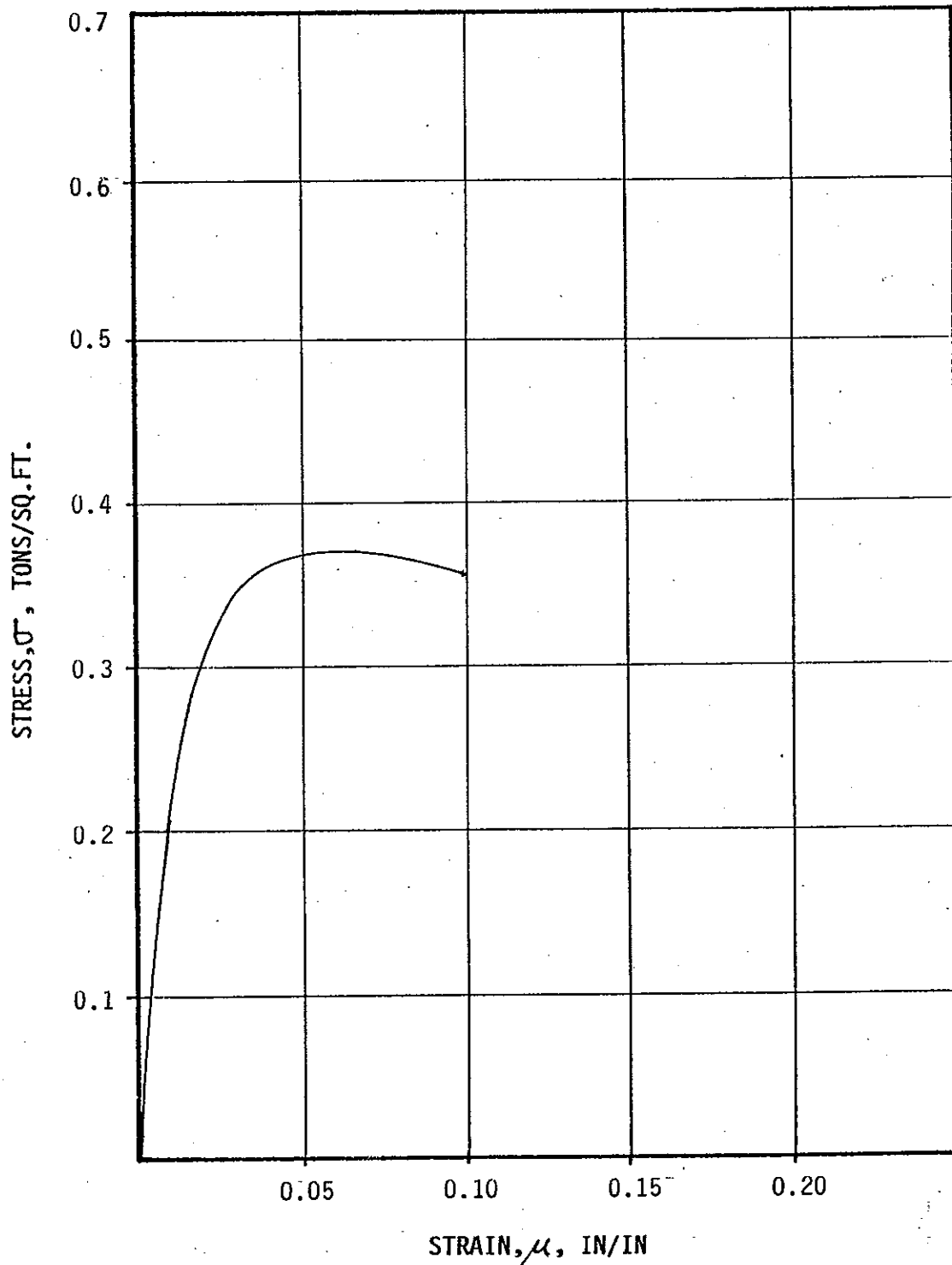
Stiff light gray clay (CL)

UNCONFINED COMPRESSION TEST
STRESS-STRAIN DIAGRAM



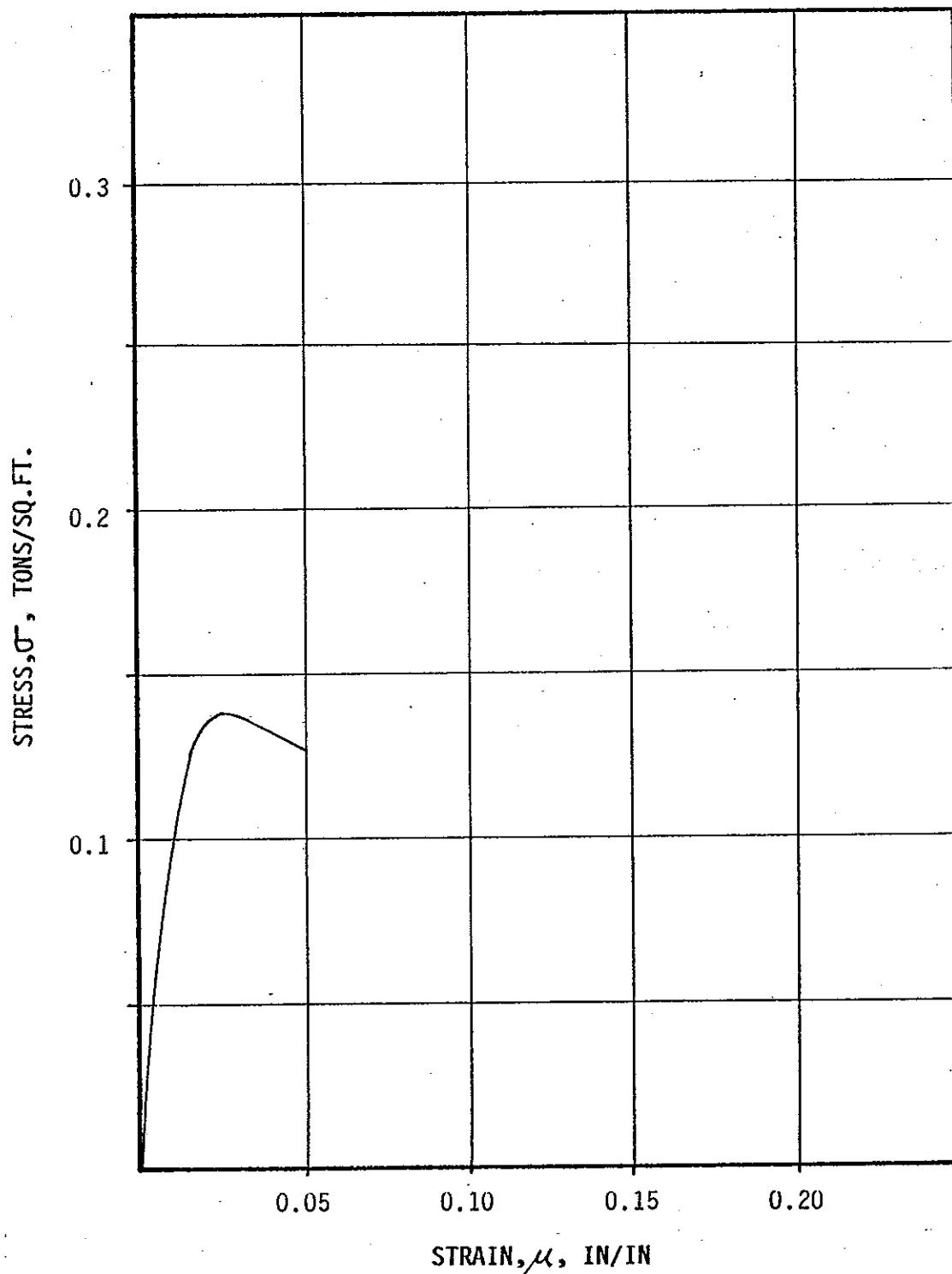
BORING NO. 91-202
DEPTH 0-2 FT.

UNCONFINED COMPRESSION TEST
STRESS-STRAIN DIAGRAM



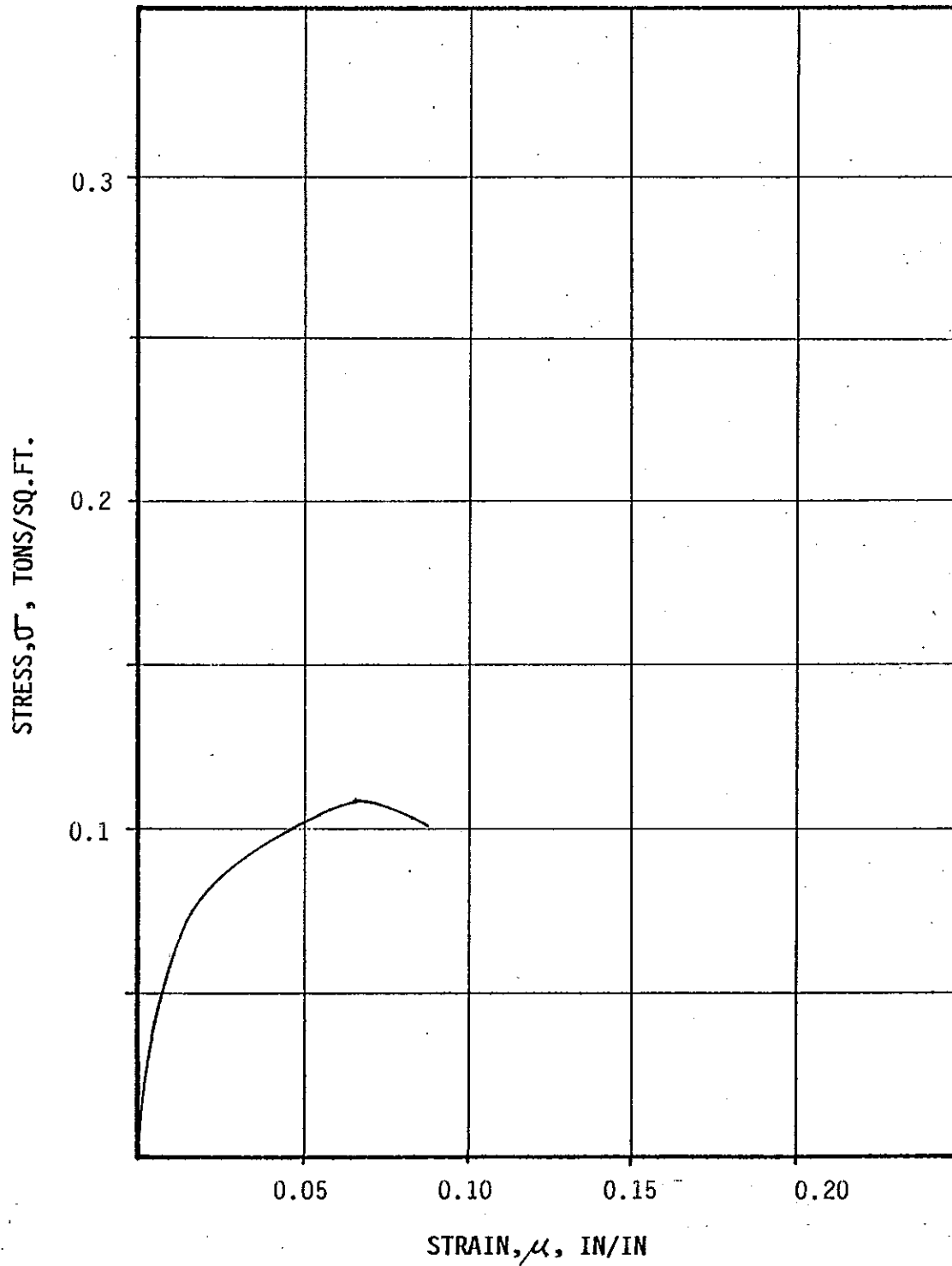
BORING NO. 91-202
DEPTH 4-6 FT.

UNCONFINED COMPRESSION TEST
STRESS-STRAIN DIAGRAM



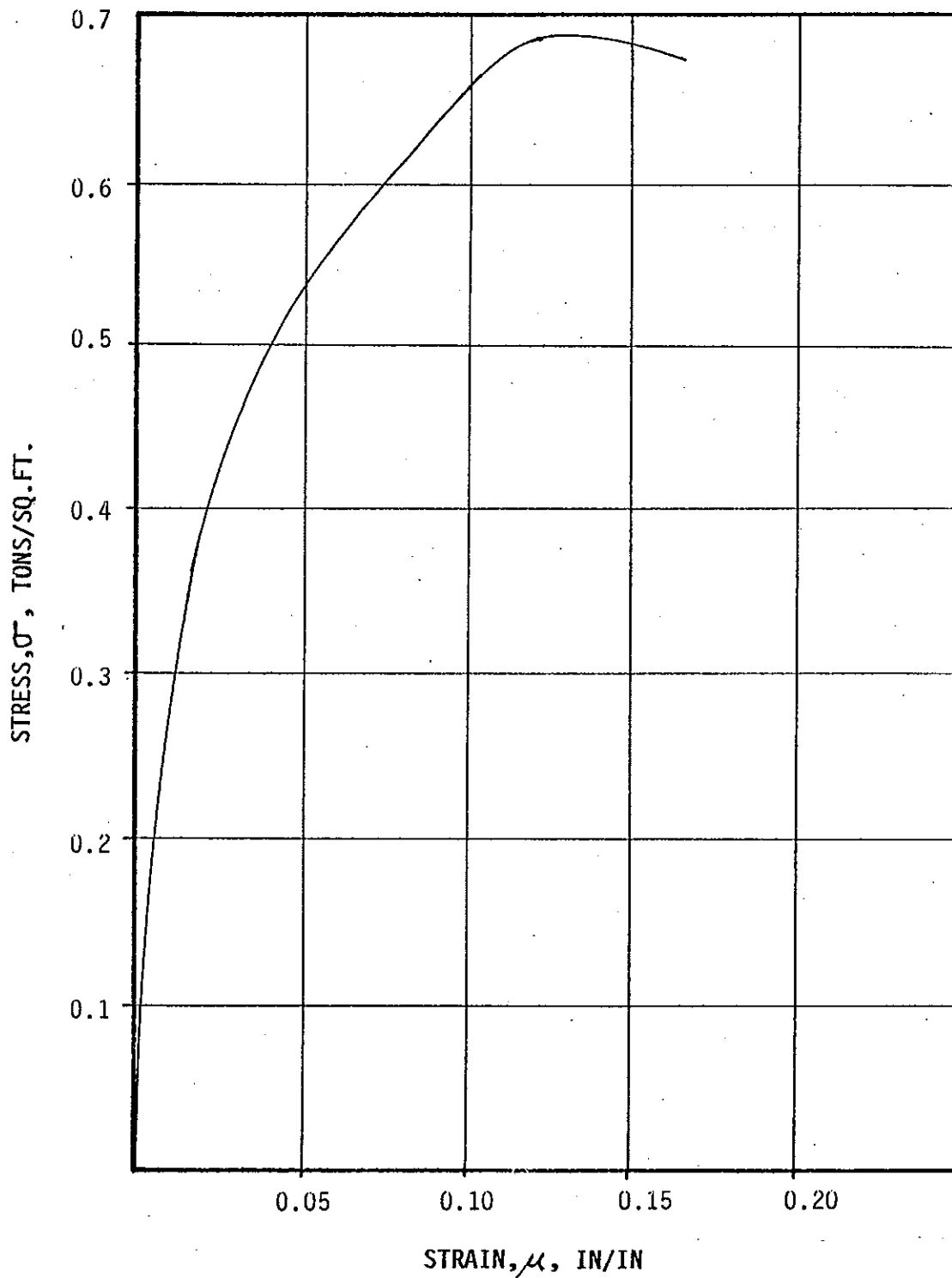
BORING NO. 91-202
DEPTH 12-14 FT.

UNCONFINED COMPRESSION TEST
STRESS-STRAIN DIAGRAM



BORING NO. 91-202
DEPTH 20-22 FT.

UNCONFINED COMPRESSION TEST
STRESS-STRAIN DIAGRAM



BORING NO. 91-202

DEPTH 24-26 FT.

Review of Aviles Report
on Salt Bayou Water Control Structure

1. The plates showing description of materials, moisture content, unit dry weight, shear strength and atterberg limits are somewhat misleading. The presentation of unconfined compressive stress as a shear strength does ^{not} ~~not~~ appear appropriate. Shear strength is usually taken as one half the unconfined compressive stress.
2. A comparison of the plots of pocket penetrometer readings with those shown on the driller's log appears to indicate that most if not all of the field readings were used on the plots. The contracts states: "The consistency of undisturbed cohesive materials shall be determined in the laboratory by taking pocket penetrometer readings in accordance with procedures outlined in Paragraph 8.6." Were pocket penetrometer readings taken in the laboratory?
3. A number of the torvane readings shown on the plots indicate no shear strength. What in fact were the torvane readings? A tabulation of the torvane readings should have been presented on the Summary of Laboratory Test Data.
4. The moisture - density relationship does not appear reasonable for some samples. Sample 6 from Boring No. 91-202 and

Sample 2 from Borings No. 91-206 appears to have this unreasonable relationship.