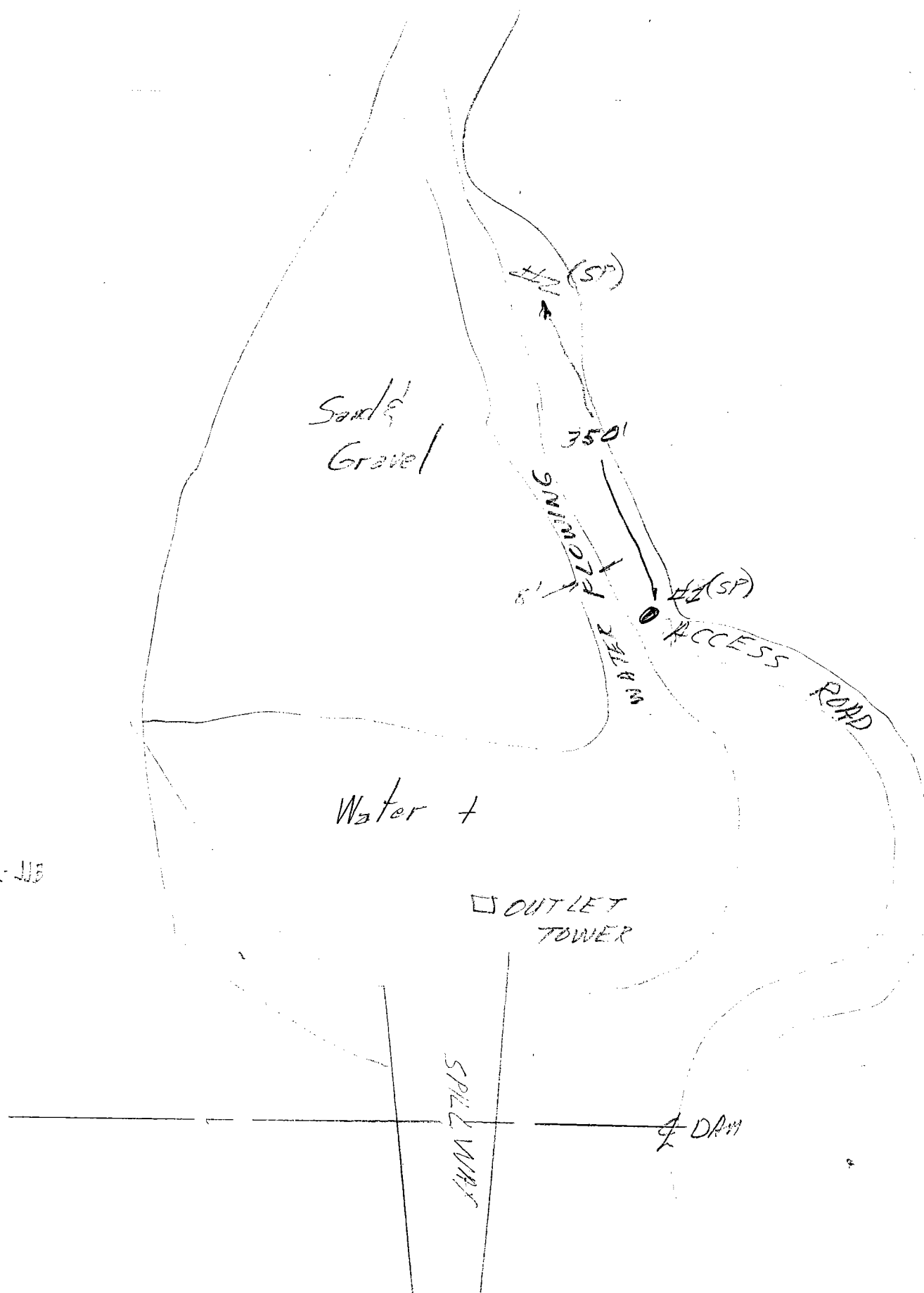
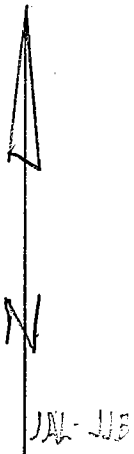


1



LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SP 164

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22948 Total Weight of Sample 1.67 lbs.
 Project WILSON _____ grams.
 Station _____ Moisture Content of Fines _____ %.
 Location _____ Date Tested 3/10/69 Plotted By _____
 Boring No. _____ Sample No. 1 Remarks NP
 Sampled By _____ Lab Tested By NR-JME Intended Use _____

GRAVEL (Plus No. 4)

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED		% OF TOTAL OVEN-DRY RETAINED	ACCUM. % RETAINED	ACCUM. % PASSING	
		LBS.	GRAMS			ACTUAL	SPEC. REQ.
3"	76.2						
1 1/2"	38.1						
(1")	(25.4)						
3/4"	19.1	0.05		3.0	3.0		
3/8"	9.52	0.09		5.5	8.5		
No. 4	4.76	0.11	.25	6.7	15.2	84.8	
Pan	0	1.42		xxxxx			
Total Fractions		1.67		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		139		84.8			
Total Oven-Dry		1.64		100.00			

Moisture Determination of Fines:
 Cup No. 66
 Dry Weight 171.5 grams
 Moisture 2.6 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 97.4 grams.
 WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 114.8 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	18.2	15.9	31.1		
16	1.19	31.0	27.0	58.1		
30	0.59	29.8	26.1	84.2		
50	.297	12.3	10.7	94.9		
100	.149	4.2	3.7	98.6		
200	.074	1.1	1.0	99.7	0.3	
Pan	0	0.0				
Total Fractions		96.6				
Total Dry Weight After Wet Sieving		217.2	97.0	84.5		
Sieve Loss-Gain		120.2	-.4			

Calculated by AR Date 3/17/69
 Checked by SAF Date 3/17/69

Note: Cross out sieve numbers not used.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

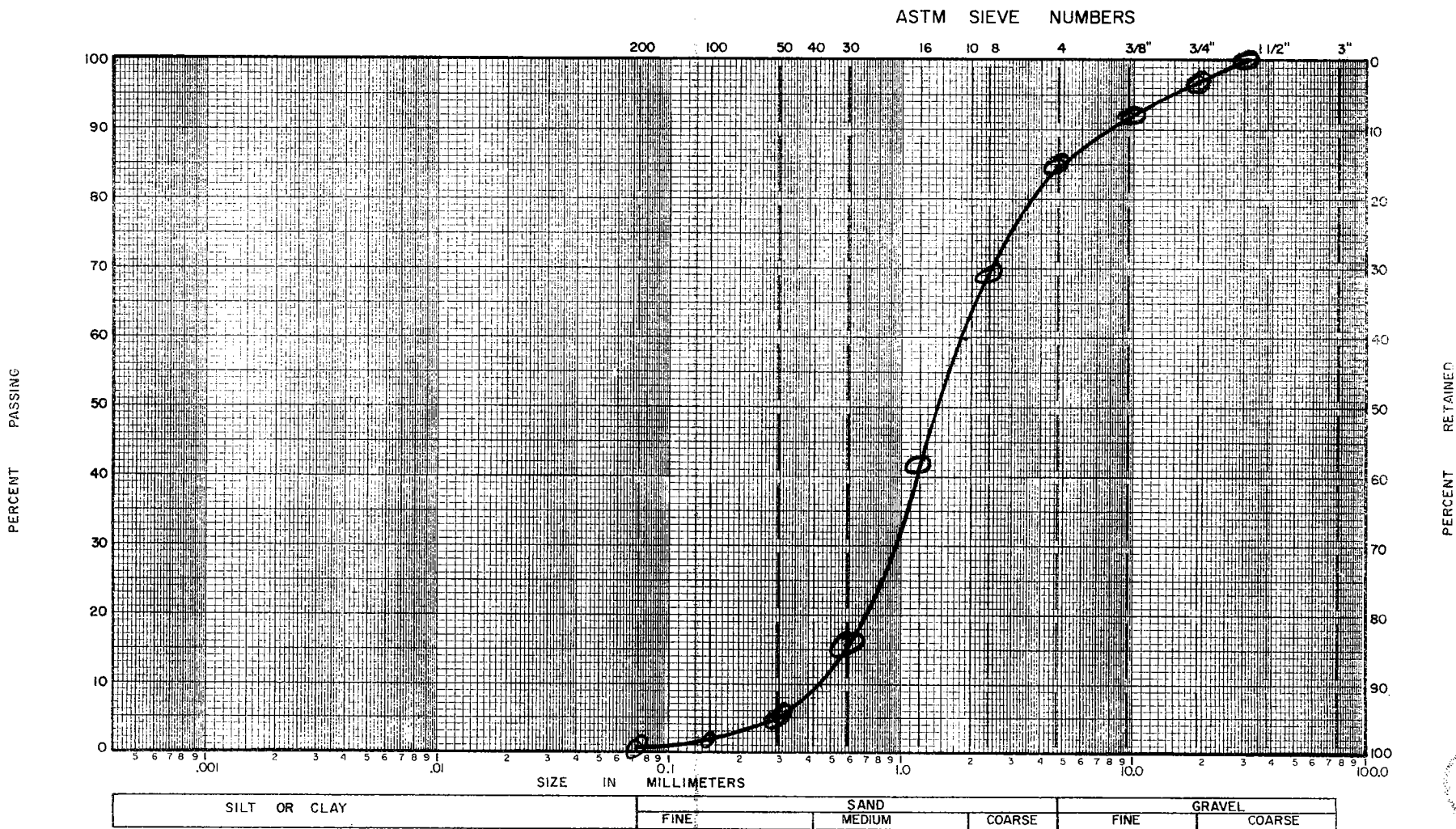
Soils and Materials Engineering Division

MECHANICAL ANALYSIS

LAB. SERIAL NO. 22948
 JOB _____
 BORING NO. _____ SAMPLE NO. _____
 STATION _____ DEPTH _____ FT.
 LOCATION _____
 SAMPLED BY _____ DATE _____
 FIELD CLASSIFICATION _____ BY _____
 PLAS. IND. _____ LIQ. LIM. _____
 REMARKS _____

CLASSIFICATION DATA

PERCENT (+) NO. 200 _____ PERCENT (+) NO. 4 _____
 % (+) NO. 4 / % (+) NO. 200 _____ D_{10} 0.44 mm
 D_{30} 0.25 mm D_{60} 1.18 mm
 $C_u = D_{60}/D_{10}$ 4.1 PLOTTED BY NR
 $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ 1.1 CHECKED BY 3/17/69
 GROUP SYMBOL SP DATE 5HF
 NOTE: D_x = PARTICLE DIA. AT X% PASSING



LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SP 64

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22949 Total Weight of Sample 2.00 lbs.
 Project WILSON _____ grams.
 Station _____ Moisture Content of Fines _____ %.
 Location _____ Date Tested 3/10/69 Plotted By _____
 Boring No. _____ Sample No. 2 Remarks ND
 Sampled By _____ Lab Tested By R-VHE Intended Use _____

GRAVEL (Plus No. 4)

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED		% OF TOTAL OVEN-DRY RETAINED	ACCUM. % RETAINED	ACCUM. % PASSING	
		LBS.	GRAMS			ACTUAL	SPEC. REQ.
3"	76.2						
1½"	38.1						
(1")	(25.4)						
¾"	19.1	0.17		8.7	8.7		
⅜"	9.52	0.33		16.8	25.5		
No. 4	4.76	0.28	78	14.3	39.8	60.3	
Pan	0	1.22		xxxxx			
Total Fractions		2.00		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.18		60.3			
Total Oven-Dry		1.96		100.00			

Moisture Determination of Fines:
 Cup No. 10
 Dry Weight 170.7 grams
 Moisture 3.4 %

WEIGHT, GRAMS 100 FINES (Minus No. 4) (CALC.) OVEN-DRY WEIGHT 96.6 grams.
 WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 160.3 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	24.2	15.1	54.9		
16	1.19	29.7	18.5	73.4		
30	0.59	23.7	14.8	88.2		
50	.297	10.2	6.4	94.6		
100	.149	5.1	3.2	97.8		
200	.074	1.6	1.0	98.8	1.2	
Pan	0	0.0				
Total Fractions		94.5				
Total Dry Weight After Wet Sieving		214.8	94.6	59.0		
Sieve Loss-Gain		120.2	-0.1			

Calculated by R Date 3/17/69
 Checked by SHE Date 3/18/69

Note: Cross out sieve numbers not used.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

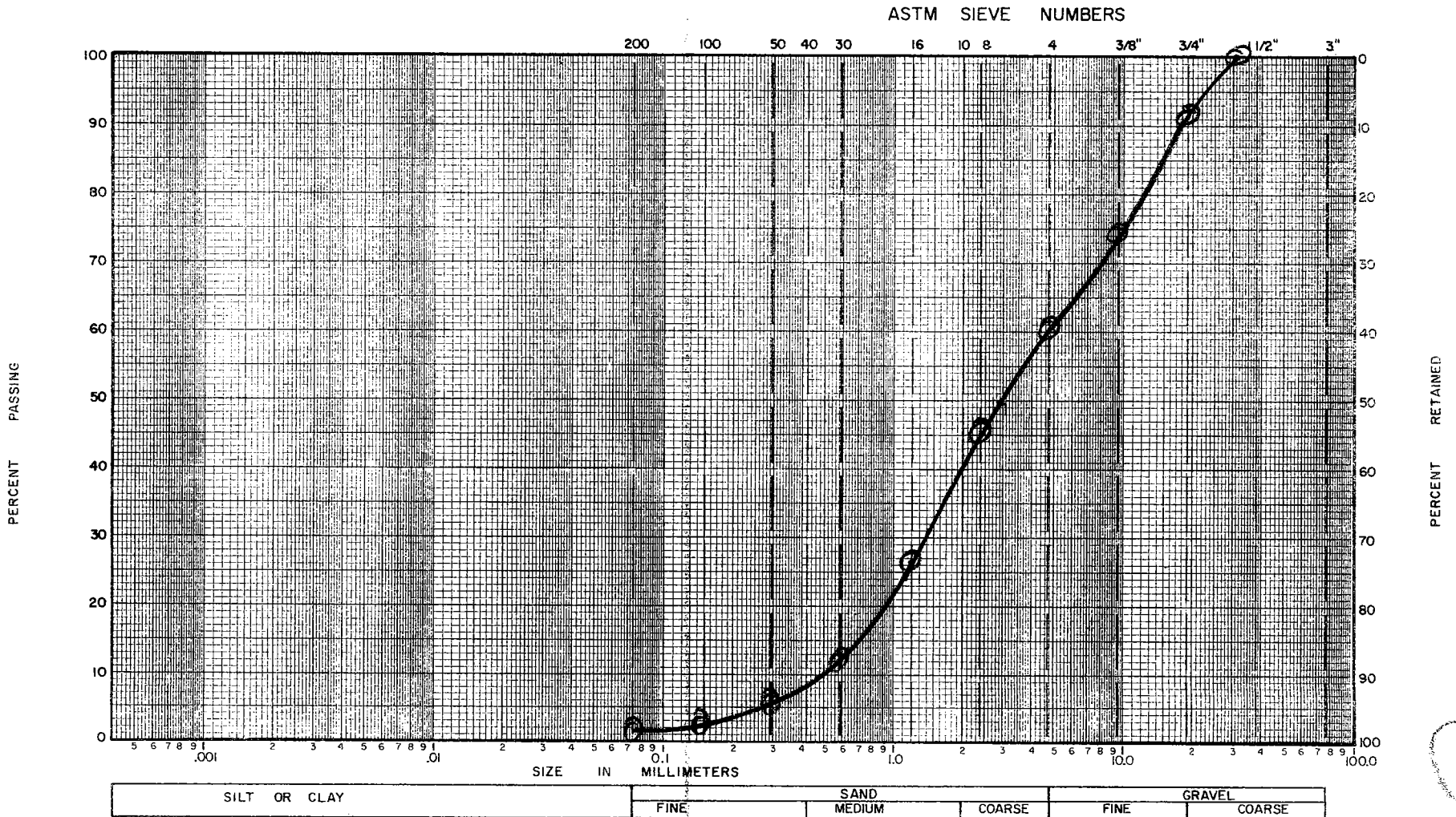
Soils and Materials Engineering Division

MECHANICAL ANALYSIS

LAB. SERIAL NO. 22949
 JOB _____
 BORING NO. _____ SAMPLE NO. _____
 STATION _____ DEPTH _____ FT.
 LOCATION _____
 SAMPLED BY _____ DATE _____
 FIELD CLASSIFICATION _____ BY _____
 PLAS. IND. _____ LIQ. LIM. _____
 REMARKS _____

CLASSIFICATION DATA

PERCENT (+) NO. 200 _____ PERCENT (+) NO. 4 _____
 % (+) NO. 4 / % (+) NO. 200 _____ D_{10} 0.50 mm
 D_{30} 1.96 mm D_{60} 4.7 mm
 $C_u = D_{60}/D_{10}$ 9.4 PLOTTED BY NR
 $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ < 1 CHECKED BY SHF
 GROUP SYMBOL SP DATE 3/18/69
 NOTE: D_x = PARTICLE DIA. AT X% PASSING



(10)