

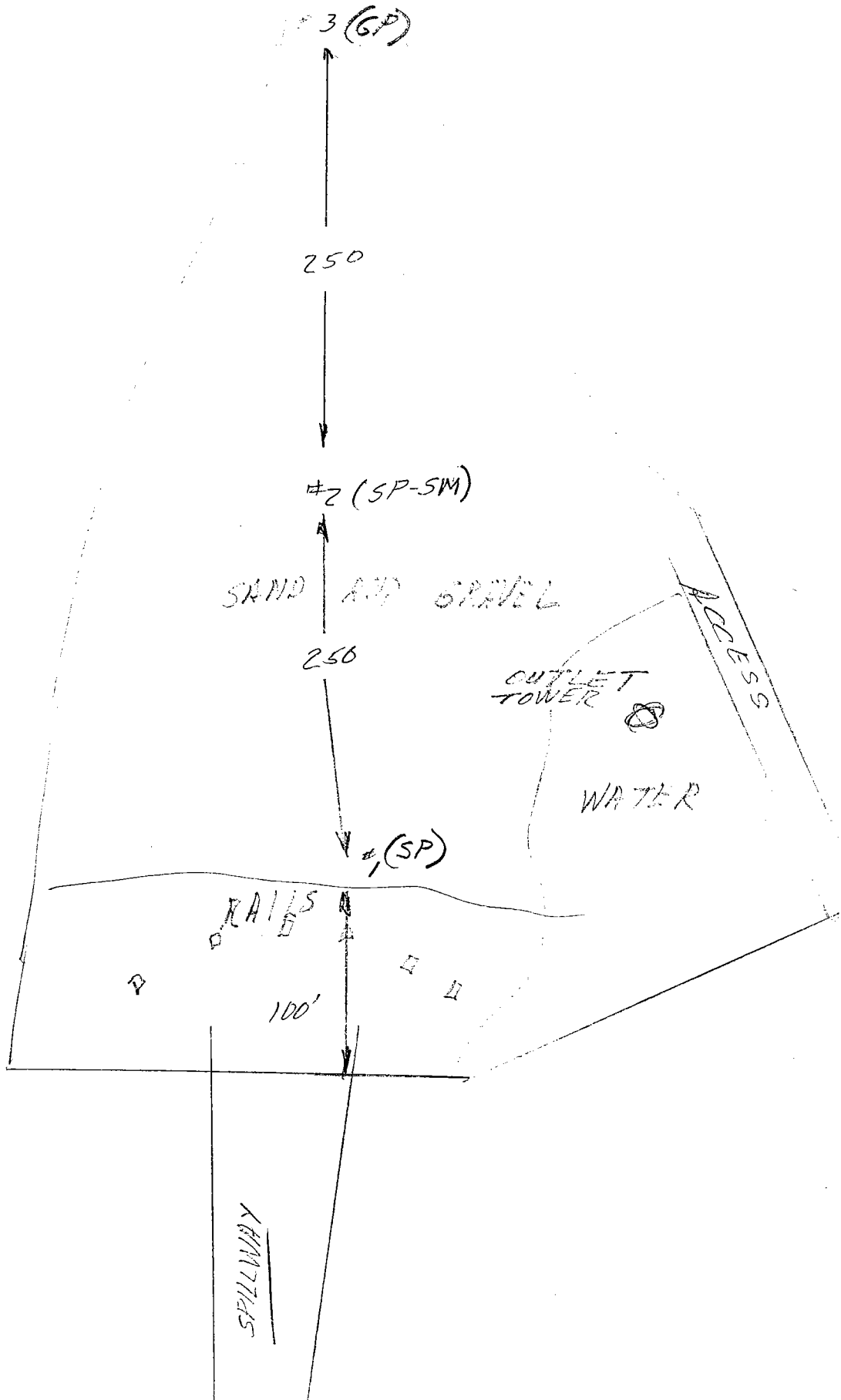
Stetson

Debris Field

2/27/69

54

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**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT**  
Soils and Materials Engineering Division

SP/  
54

**SIEVE ANALYSIS WORK SHEET**

LAB SERIAL NO. 22964  
Project STETSON D.P.  
Station \_\_\_\_\_  
Location \_\_\_\_\_  
Boring No. \_\_\_\_\_ Sample No. \_\_\_\_\_  
Sampled By \_\_\_\_\_ Lab Tested By NR-SHE

1.82

Total Weight of Sample \_\_\_\_\_ lbs.  
\_\_\_\_\_ grams.  
Moisture Content of Fines \_\_\_\_\_ %.  
Date Tested 3/14/69 Plotted By \_\_\_\_\_  
Remarks NP  
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	.10		5.7	5.7		
3/8"	9.52	.09		5.1	10.8		
No. 4	4.76	.12	.31	6.8	17.6	82.3	
Pan	0	1.51		xxxxx			
Total Fractions		1.82		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.45		82.3			
Total Oven-Dry		1.76		100.00			

Moisture Determination of Fines:  
Cup No. 52  
Dry Weight 170.1 grams  
Moisture 4.1 %

WEIGHT, GRAMS 100 FINES (Minus No. 4) (CALC.) OVEN-DRY WEIGHT 96.0 grams.  
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 116.7 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	7.1	6.1	23.7		
16	1.19	21.0	18.0	41.7		
30	0.59	32.4	27.8	69.5		
50	.297	20.4	17.5	87.0		
100	.149	9.4	8.1	95.1		
200	.074	2.6	2.2	98.4	1.6	
Pan	0	.1				
Total Fractions		93.0				
Total Dry Weight After Wet Sieving		214.5		94.3	80.8	
Sieve Loss-Gain		120.2		-.3		

Calculated by NR Date 3/14/69  
Checked by SHE Date 3/18/69

Note: Cross out sieve numbers not used.

94.3

**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT**  
Soils and Materials Engineering Division

**MECHANICAL ANALYSIS**

LAB. SERIAL NO. 22964

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 \_\_\_\_\_  $D_{10}$  0.25 mm

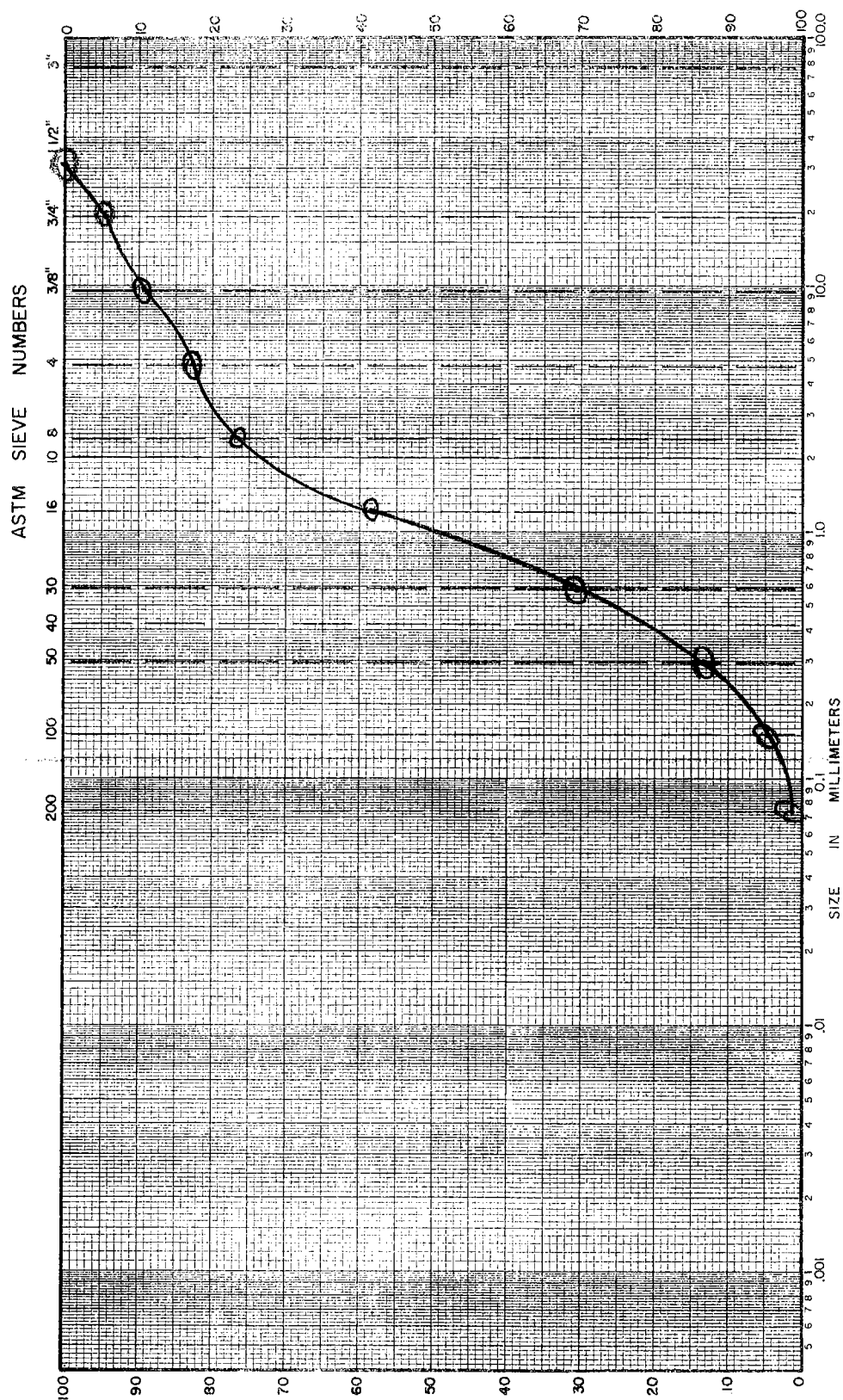
$D_{30}$  \_\_\_\_\_ mm  $D_{60}$  \_\_\_\_\_ mm

$Cu = D_{60}/D_{10}$  \_\_\_\_\_ PLOTTED BY SP

$Cc = (D_{30})^2 / (D_{10} \times D_{60})$  \_\_\_\_\_ CHECKED BY SHF

GROUP SYMBOL SP DATE 3/18/68

NOTE:  $D_x$  = PARTICLE DIA. AT X% PASSING



SILT OR CLAY	FINE	MEDIUM	COARSE	GRAVEL	COARSE
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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
Soils and Materials Engineering Division

SM-SP

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22965  
Project STETSON  
Station \_\_\_\_\_  
Location \_\_\_\_\_  
Boring No. \_\_\_\_\_ Sample No. 2  
Sampled By \_\_\_\_\_ Lab Tested By NR

Total Weight of Sample 1.66 lbs.  
grams.  
Moisture Content of Fines \_\_\_\_\_ %  
Date Tested 3/12 Plotted By \_\_\_\_\_  
Remarks NP  
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						
3/8"	9.52	0.28		17.9	17.9		
No. 4	4.76	0.24	52	15.4	33.3	66.7	
Pan	0	1.14		xxxxx			
Total Fractions		1.66		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.104		66.7			
Total Oven-Dry		1.56		100.00			

Moisture Determination of Fines:  
Cup No. 55A  
Dry Weight 164.8 grams  
Moisture 10.1 %

WEIGHT, GRAMS 100 FINES (Minus No. 4) (CALC.) OVEN-DRY WEIGHT 90.8 grams.  
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 136.2 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	14.5	10.6	43.9		
16	1.19	17.4	12.8	56.7		
30	0.59	17.4	12.8	69.5		
50	.297	16.3	12.0	81.5		
100	.149	10.8	7.9	89.4		
200	.074	4.7	3.4	93.4	66	
Pan	0	0.5				
Total Fractions		81.6				
Total Dry Weight After Wet Sieving		202.1	81.9	60.2		
Sieve Loss-Gain		120.2	- .3			

Calculated by NR Date 3/18/69  
Checked by RJT Date 3/20/69

Note: Cross out sieve numbers not used.

81.9

2 2.1  
120.3  
81.9

# LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

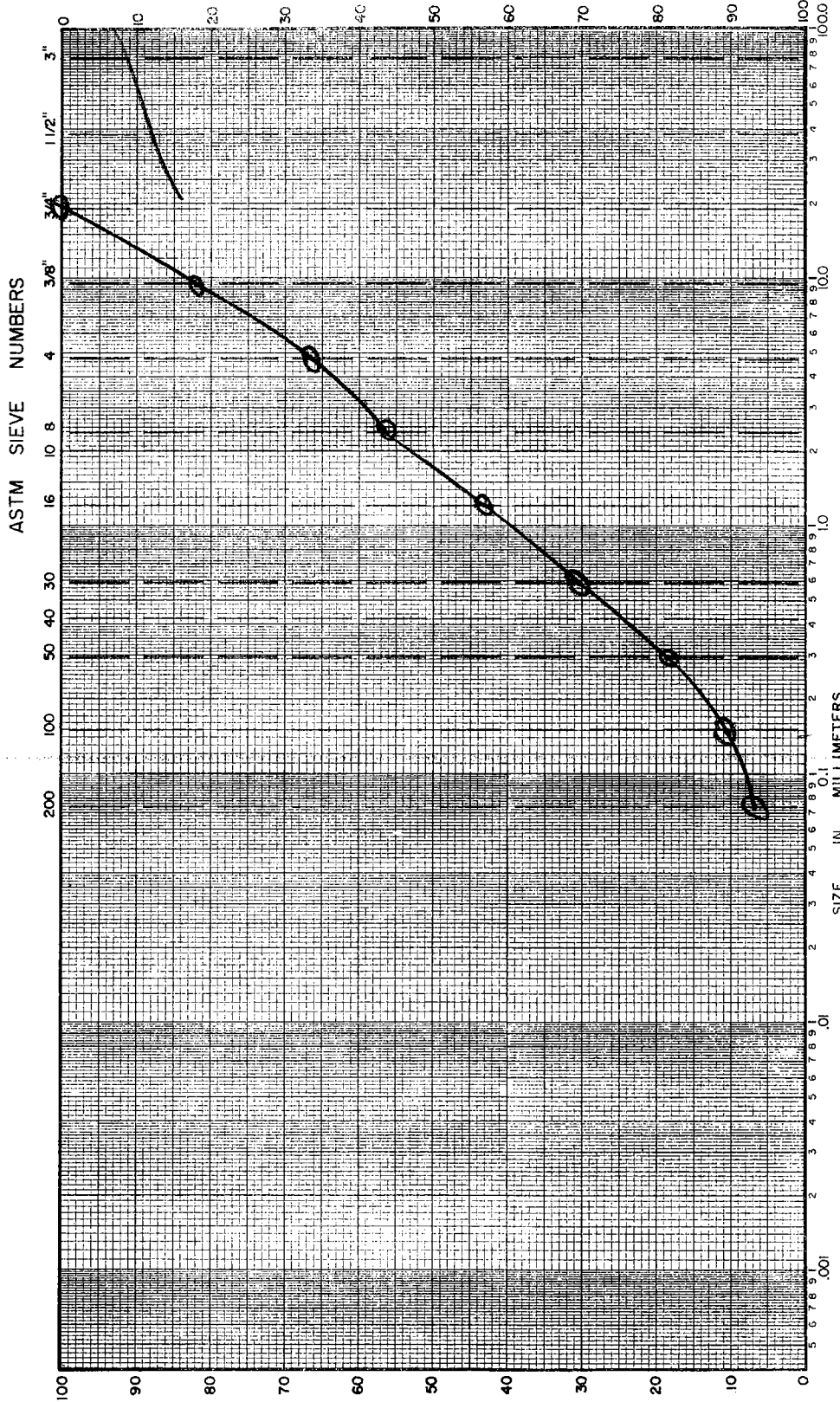
Soils and Materials Engineering Division

## MECHANICAL ANALYSIS

LAB. SERIAL NO. 22965  
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 \_\_\_\_\_  $D_{10}$  0.14 mm  
 $D_{30}$  0.58 mm  $D_{60}$  3.2 mm  
 $C_u = D_{60}/D_{10}$  22.9 PLOTTED BY AL  
 $C_c = (D_{30})^2 / (D_{10} \times D_{60})$  .449 CHECKED BY REI  
GROUP SYMBOL \_\_\_\_\_ DATE 3/24/69  
NOTE:  $D_x$  = PARTICLE DIA. AT X% PASSING



SILT OR CLAY	FINE	SAND MEDIUM	COARSE	FINE	GRAVEL COARSE

PERCENT RETAINED

PERCENT PASSING

**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT**  
Soils and Materials Engineering Division

GP (54)

**SIEVE ANALYSIS WORK SHEET**

LAB SERIAL NO. 22966 Total Weight of Sample 222 lbs.  
 Project STETSON \_\_\_\_\_ grams.  
 Station \_\_\_\_\_ Moisture Content of Fines \_\_\_\_\_ %.  
 Location \_\_\_\_\_ Date Tested 3/10/69 Plotted By \_\_\_\_\_  
 Boring No. \_\_\_\_\_ Sample No. 3 Remarks NP  
 Sampled By \_\_\_\_\_ Lab Tested By AR-UHE 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	0.26		12.0	12.0		
(1")	(25.4)	0.15		6.9	18.9		
¾"	19.1	0.07		3.2	22.1		
⅜"	9.52	0.27		12.4	34.5		
No. 4	4.76	0.41	1.16	18.9	53.4	46.5	
Pan	0	1.06		xxxxx			
Total Fractions		2.22		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.01		46.5			
Total Oven-Dry		2.17		100.00			

Moisture Determination of Fines:  
Cup No. 23  
Dry Weight 169.5 grams  
Moisture 4.7 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 95.5 grams.  
 WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 205.4 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	18.6	9.1	62.5		
16	1.19	18.9	9.2	71.7		
30	0.59	18.2	8.9	80.6		
50	.297	19.5	9.5	90.1		
100	.149	13.0	6.3	96.4		
200	.074	3.5	1.7	98.2	1.8	
Pan	0	0.3	—			
Total Fractions		92.0				
Total Dry Weight After Wet Sieving <u>22.3</u>		92.1	44.8			
Sieve Loss-Gain		-1				

Calculated by AR Date 3/11/69  
 Checked by HF Date 3/12/69

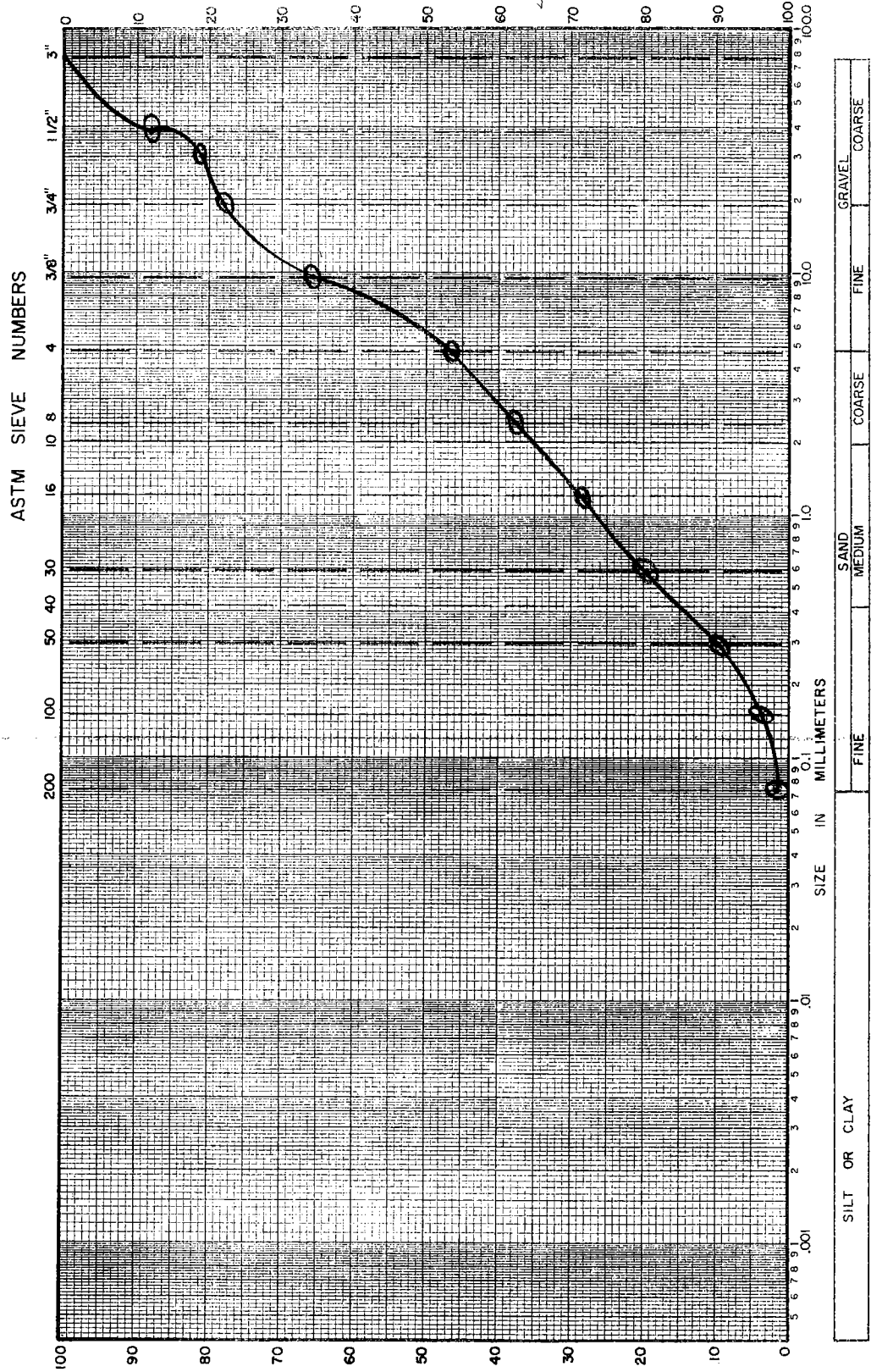
Note: Cross out sieve numbers not used.

**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT**  
Soils and Materials Engineering Division  
**MECHANICAL ANALYSIS**

LAB. SERIAL NO. 22966  
 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 \_\_\_\_\_  $D_{10}$  0.3 mm  
 $D_{30}$  \_\_\_\_\_ mm  $D_{60}$  \_\_\_\_\_ mm  
 $Cu = D_{60}/D_{10}$  2.8 PLOTTED BY RK  
 $Cc = (D_{30})^2 / (D_{10} \times D_{60})$  \_\_\_\_\_ CHECKED BY RJF  
1.69 GROUP SYMBOL \_\_\_\_\_ DATE 3/1/69  
2.52 NOTE:  $D_x$  = PARTICLE DIA. AT X% PASSING



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