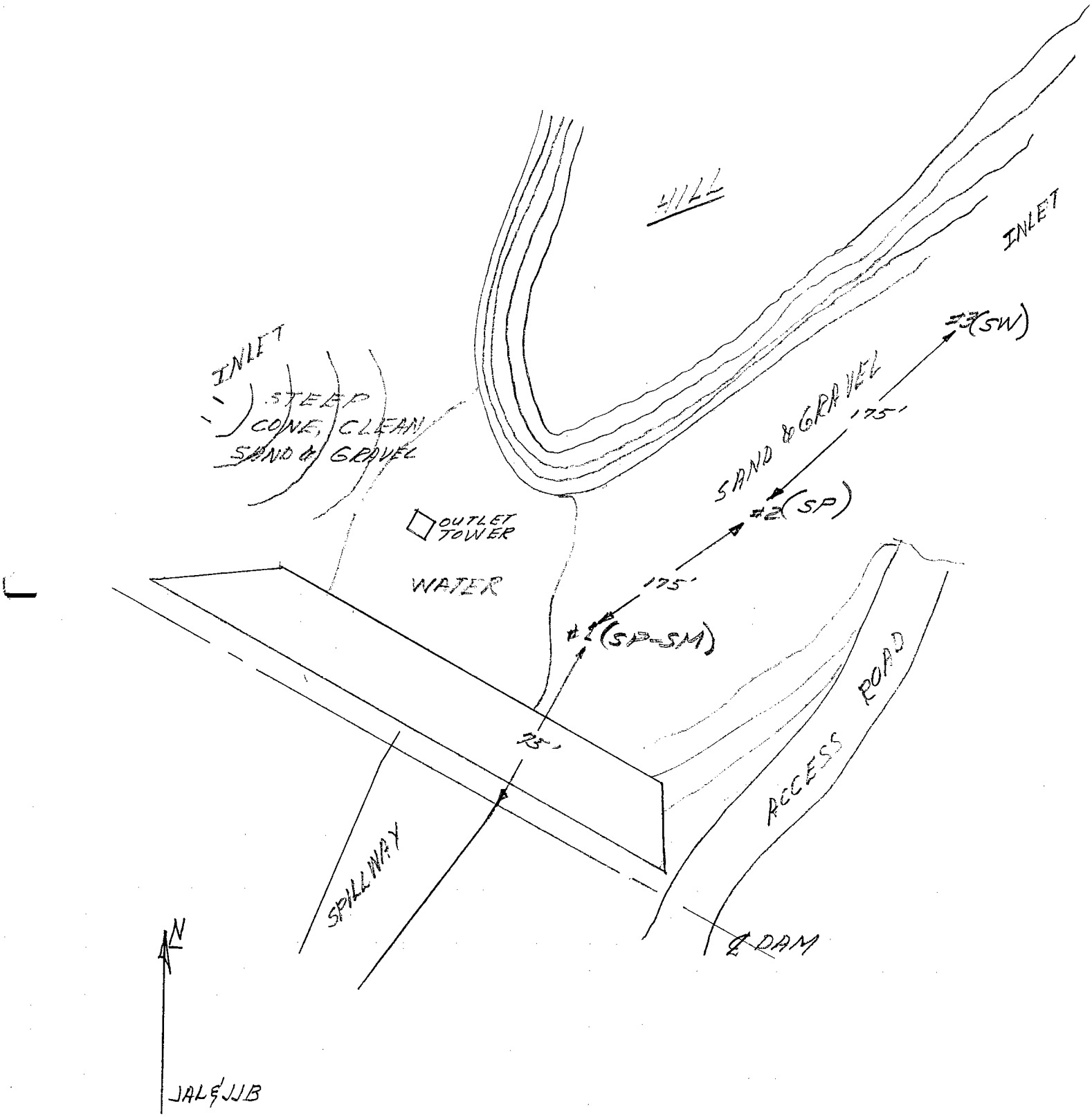
Elmwood Debris Basin

9/24/69
From 9/2/69

(5)



SM-SP (15)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22908 — Total Weight of Sample 1.20 lbs.
Project ELMWOOD — grams.
Station — Moisture Content of Fines %.
Location — Date Tested 3/3/69 Plotted By
Boring No. 1 Sample No. — Remarks NP
Sampled By — Lab Tested By MR-FK — Intended Use

GRAVEL (Plus No. 4)

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED LBS.	RETAINED GRAMS	% OF TOTAL OVEN-DRY RETAINED	ACCUM. % RETAINED	ACCUM. % PASSING ACTUAL	ACCUM. % PASSING SPEC. REQ.
3"	76.2						
1½"	38.1						
(1")	(25.4)						
3/4"	19.1						
3/8"	9.52	0.03		2.9	2.9		
No. 4	4.76	0.07	.10	6.7	9.6	90.4	
Pan	0	1.10		xxxxx			
Total Fractions		1.20		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		.94		90.4			
Total Oven-Dry		1.04		100.00			

Moisture Determination of Fines:
Cup No. 55A
Dry Weight 159.7 grams
Moisture 16.7 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 — (CALC.) OVEN-DRY WEIGHT 85.7 grams.
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 94.8 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING ACTUAL	ACCUM. % PASSING SPEC. REQ.
8	2.38	3.8	4.0	13.6		
16	1.19	19.6	20.7	34.3		
30	0.59	21.6	22.8	57.1		
50	.297	16.9	17.8	74.9		
100	.149	13.5	14.2	89.1		
200	.074	5.7	6.0	95.0	5.0	
Pan	0	—				
Total Fractions		81.1				
Total Dry Weight After Wet Sieving 201.2		81.0	85.4			
Sieve Loss-Gain 120.2		+.1				

201.2
120.2

Calculated by MR Date 3/3/69
Checked by SHF Date 3/3/69

Note: Cross out sieve numbers not used.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

MECHANICAL ANALYSIS

LAB. SERIAL NO. 22908

JOB

BORING NO. _____ SAMPLE NO. _____

STATION _____ DEPTH _____ FT.

LOCATION

SAMPLED BY _____ DATE _____

FIELD CLASSIFICATION _____ BY _____

PLAS. IND. _____ LIQ. LIM. _____

REMARKS

.137
.147

CLASSIFICATION DATA

PERCENT (+) NO. 200 _____ PERCENT (+) NO. 4 _____

%(+)NO.4 / %(+)NO.200 _____ D_{10} .14 mm

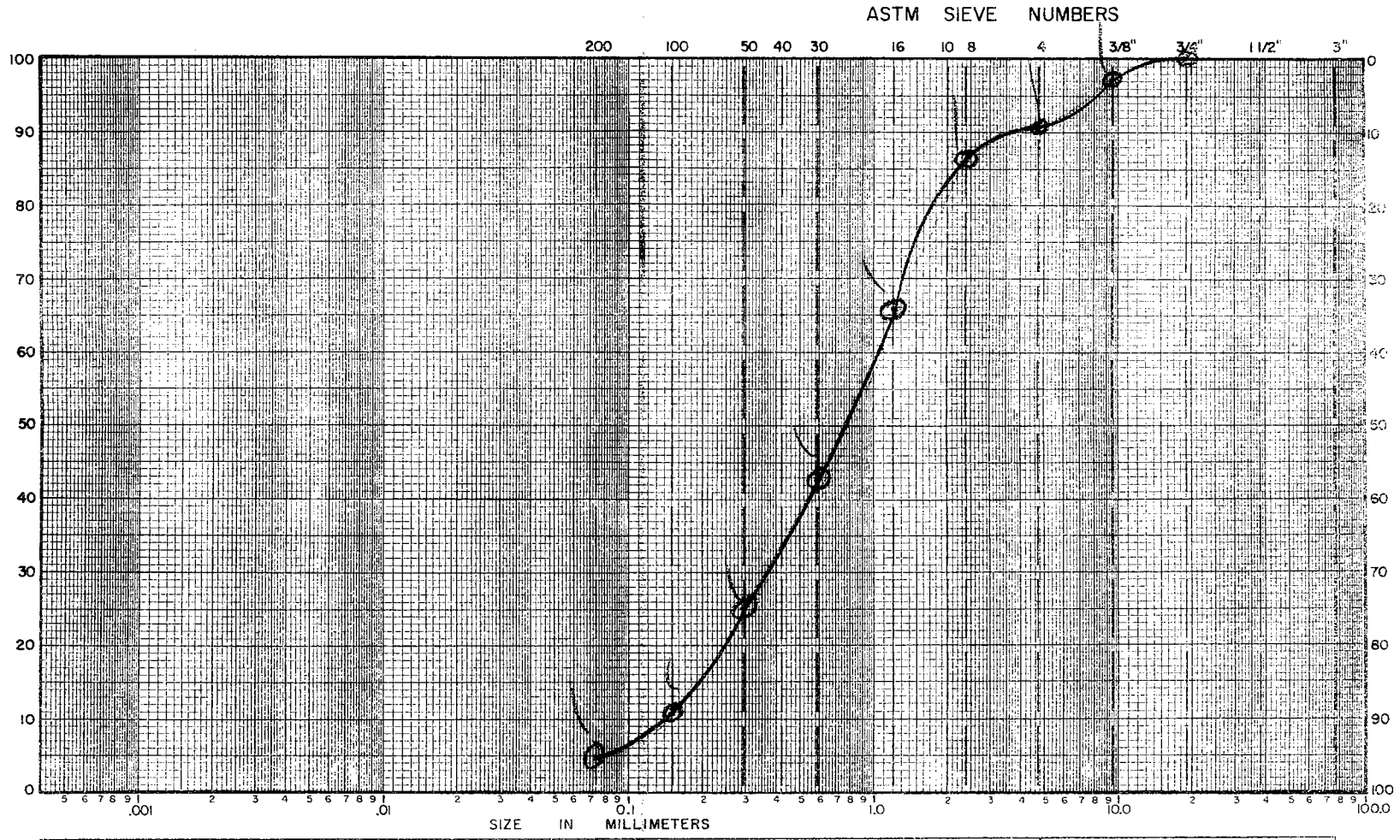
D_{30} .37 mm D_{60} 1.05 mm

$Cu = D_{60}/D_{10}$ 7.5 PLOTTED BY _____

$Cc = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ .93 CHECKED BY _____

GROUP SYMBOL _____ DATE 3/3/69

NOTE: D_X = PARTICLE DIA. AT X% PASSING



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SP (15)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22909 — Total Weight of Sample 1.08 lbs.
Project ELMWOOD — grams.
Station — Moisture Content of Fines %.
Location — Date Tested 2/24 Plotted By
Boring No. 2 Sample No. — Remarks NP
Sampled By — Lab Tested By IR — Intended Use

GRAVEL (Plus No. 4)

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED LBS.	RETAINED GRAMS	% OF TOTAL OVEN-DRY RETAINED	ACCUM. % RETAINED	ACCUM. % PASSING ACTUAL	ACCUM. % PASSING SPEC. REQ.
3"	76.2						
1½"	38.1						
(1")	(25.4)						
3/4"	19.1						
3/8"	9.52	0.01		1.0	1.0		
No. 4	4.76	0.03	.04	2.9	3.9	96.1	
Pan	0	1.04		xxxxx			
Total Fractions		1.08		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		.99		96.1			
Total Oven-Dry		1.03		100.00			

Moisture Determination of Fines:
Cup No. 35
Dry Weight 169.1 grams
Moisture 5.2 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 95.1 grams.
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 99.0 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING ACTUAL	ACCUM. % PASSING SPEC. REQ.
8	2.38	4.0	4.0	7.9		
16	1.19	14.9	15.1	23.0		
30	0.59	25.7	26.0	49.0		
50	.297	25.9	26.2	75.2		
100	.149	17.3	17.5	92.7		
200	.074	4.4	4.4	97.0	3.0	
Pan	0	0.1	—			
Total Fractions		92.3				
Total Dry Weight After Wet Sieving 212.4		92.2	93.1			
Sieve Loss-Gain 120.2		+0.1				

25.4
120.2

Calculated by IR Date 2/25/69
Checked by SHF Date 2/27/69

Note: Cross out sieve numbers not used.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

MECHANICAL ANALYSIS

LAB. SERIAL NO. 22,909

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} 0,18 mm

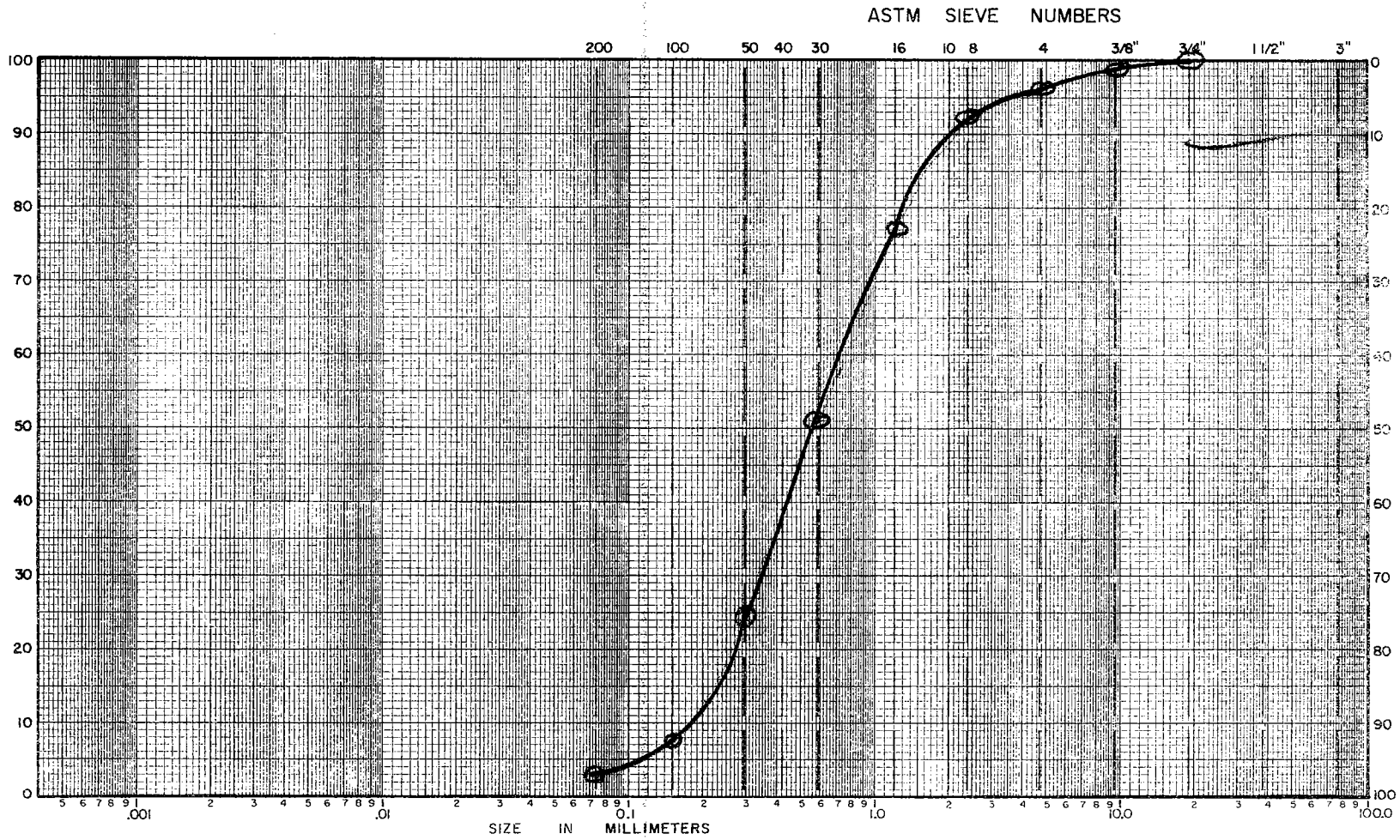
D_{30} 0,35 mm D_{60} 0,71 mm

$Cu = D_{60}/D_{10}$ _____ PLOTTED BY _____

$Cc = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ _____ CHECKED BY _____

GROUP SYMBOL _____ DATE 2/27/61

NOTE: D_X = PARTICLE DIA. AT X% PASSING



SW (15)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22910 — Total Weight of Sample 1.32 lbs.
Project ELMWOOD — grams.
Station — Moisture Content of Fines %.
Location — Date Tested 2/24 Plotted By
Boring No. 3 Sample No. — Remarks NP
Sampled By — Lab Tested By NR — Intended Use

GRAVEL (Plus No. 4)

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED LBS.	RETAINED GRAMS	% OF TOTAL OVEN-DRY RETAINED	ACCUM. % RETAINED	ACCUM. % PASSING ACTUAL	ACCUM. % PASSING SPEC. REQ.
3"	76.2						
1½"	38.1						
(1")	(25.4)						
3/4"	19.1						
3/8"	9.52	0.12		9.4	9.4		
No. 4	4.76	0.14	.26	10.9	20.3	79.7	
Pan	0	1.06		xxxxx			
Total Fractions		1.32		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.02		79.7			
Total Oven-Dry		1.28		100.00			

Moisture Determination of Fines:
Cup No. 19
Dry Weight 170.5 grams
Moisture 3.6 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 96.5 grams.
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 121.1 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING ACTUAL	ACCUM. % PASSING SPEC. REQ.
8	2.38	14.7	12.1	32.4		
16	1.19	22.3	18.4	50.8		
30	0.59	26.2	21.6	72.4		
50	.297	17.2	14.2	86.6		
100	.149	9.7	8.0	94.6		
200	.074	2.7	2.2	97.1	2.9	
Pan	0	0.1	—			
Total Fractions		92.9				
Total Dry Weight After Wet Sieving 213.2		93.0	76.8			
Sieve Loss-Gain 120.2		-0.1				

2.2 + 120.2 = 122.4

Calculated by NR Date 2/25/69
Checked by SHF Date 2/27/69

Note: Cross out sieve numbers not used.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

MECHANICAL ANALYSIS

LAB. SERIAL NO. 2290

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} 0.24 mm

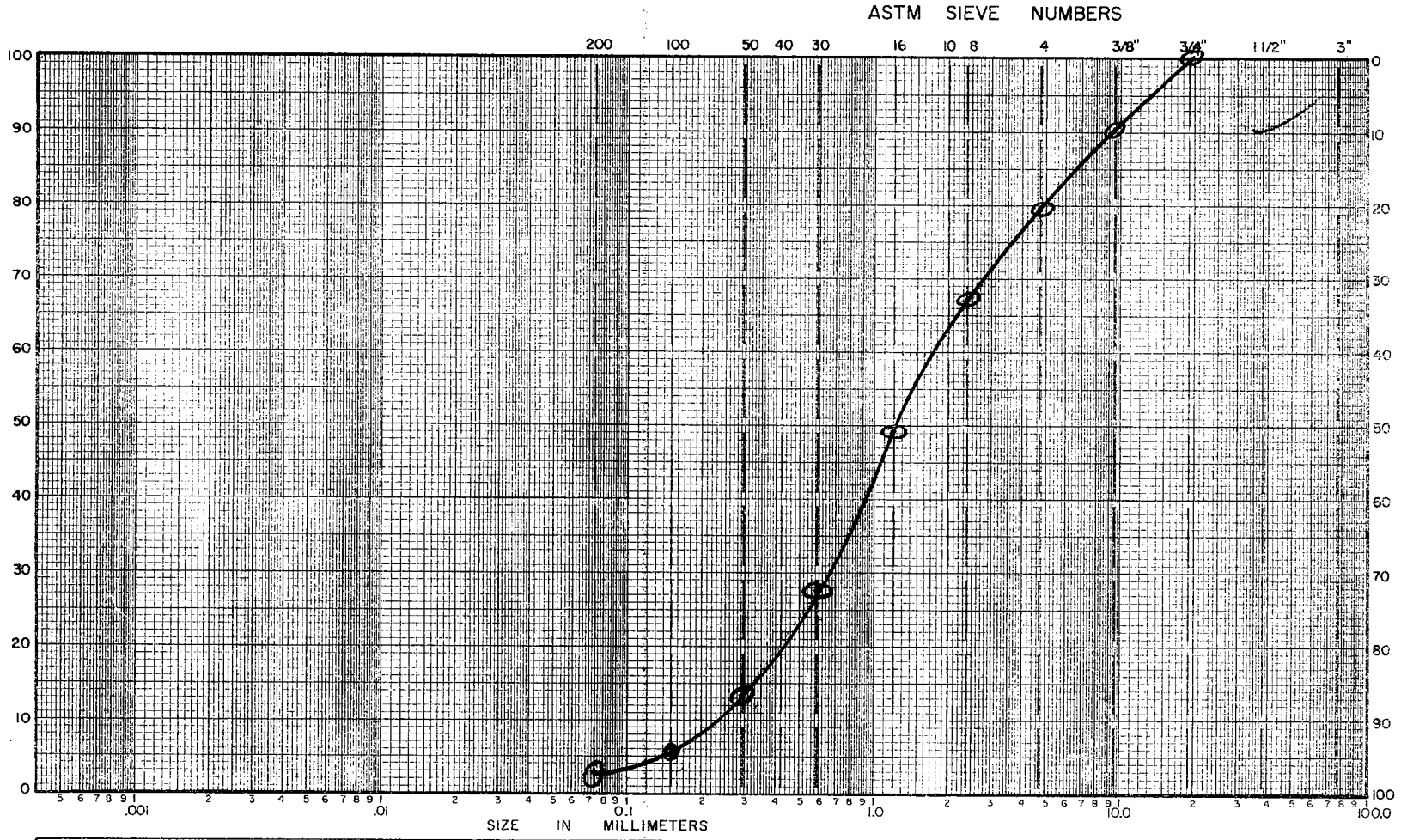
D_{30} 0.66 mm D_{60} 1.7 mm

$Cu = D_{60}/D_{10}$ 7.1 PLOTTED BY NR

$Cc = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ .436 / .408 1.1 CHECKED BY RJT

GROUP SYMBOL _____ DATE 5/27/69

NOTE: D_X = PARTICLE DIA. AT X% PASSING



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE