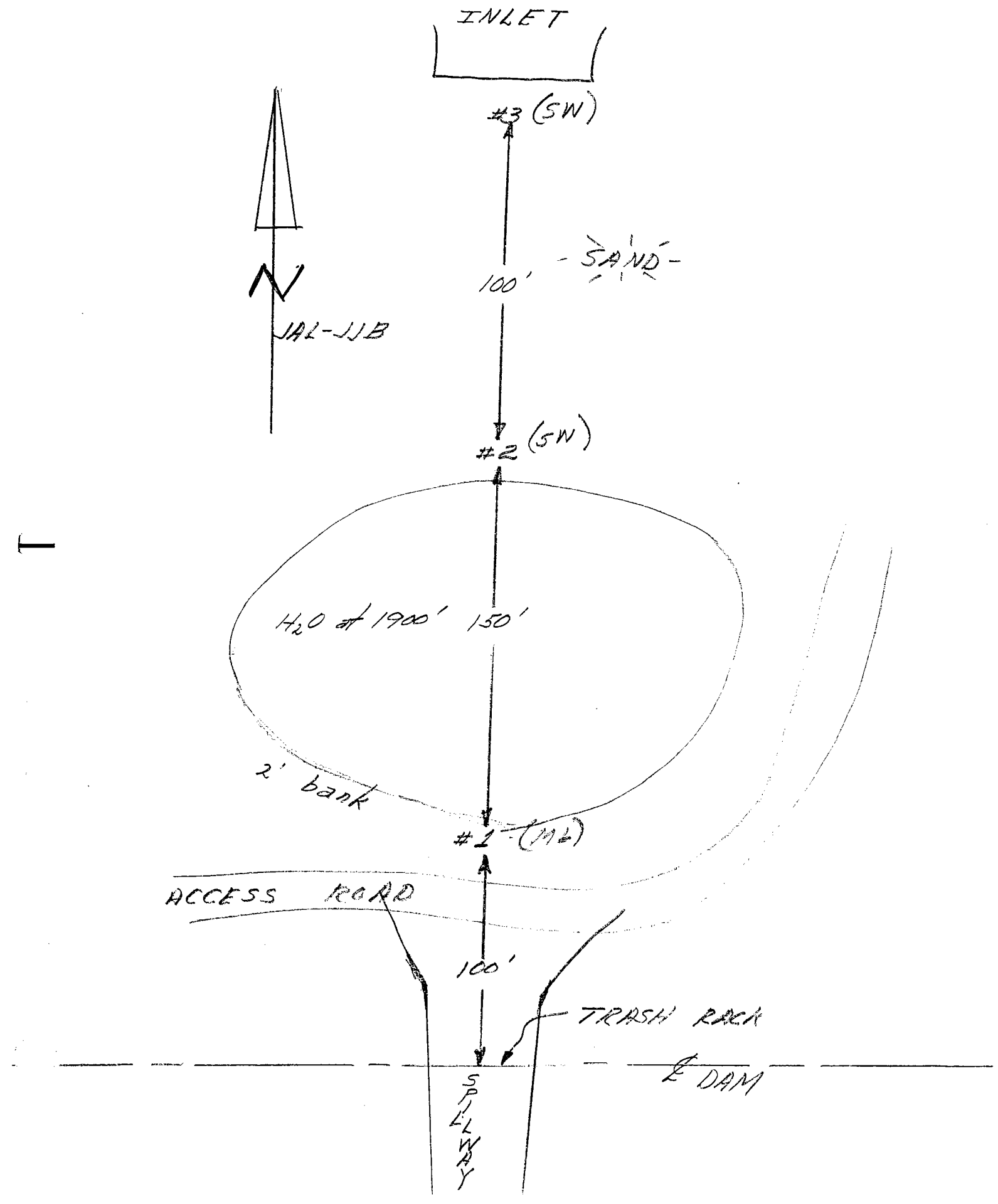
Hay Canyon Debris Basin 3/3/69



not organic

ML (24)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22840 — Total Weight of Sample _____ lbs.

Project Hat Cyn. D.B. — _____ grams.

Station _____ — Moisture Content of Fines _____ %.

Location _____ — Date Tested 2/27 Plotted By _____

Boring No. _____ Sample No. _____ — Remarks _____

Sampled By _____ Lab Tested By AR — 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	003		2.0	2.0		
No. 4	4.76	007		4.7	6.7	93.3	
Pan	0	1.84		xxxxx			
Total Fractions		1.94		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.39		93.3			
Total Oven-Dry		1.49		100.00			

Moisture Determination of Fines:
Cup No. 18
Dry Weight 149.5 grams
Moisture 32.5 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 — (CALC.) OVEN-DRY WEIGHT 75.4 grams.

WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 80.8 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	4.0	5.0	11.7		
16	1.19	7.2	8.9	20.6		
30	0.59	5.9	7.3	27.9		
50	.297	3.9	4.8	32.7		
100	.149	4.8	5.9	38.6		
200	.074	4.5	5.6	44.4	55.6	
Pan	0	0.1				
Total Fractions		36.4				
Total Dry Weight After Wet Sieving 150.7 / 150.2		30.5	37.7			
Sieve Loss-Gain		−0.1				

Calculated by AR Date 3/17/69

Checked by RJT Date 3/20/69

Note: Cross out sieve numbers not used.

#5 (24)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Foundation and Testing Division

HYDROMETER ANALYSIS WORK SHEET

ASTM Method D422-54T
(Modified)

LAB. SERIAL NO. 22840
Project
Limits
Boring Sample
Depth
Sampled by Date
Field Description

Initial Weight of Sample Passing No. 4 Sieve grams
Remarks

Set up by NR Date 2/27/69
Lab. Tested by NR Date 3/13/69

Moisture Cup No. 18
Dry Weight, grams
Moisture Content, %
Oven-Dry Weight Passing No. 4 grams
Percent Passing No. 4 ; No. 10 = P10
Oven-Dry Weight of total Sample represented, W = 80.8 grams

Dispersing Agent: Type Calgon; Volume, cc 125; Strength, %
Correction, gm/l = C_d -7.0
Soil Specific Gravity = G 2.65
S. G. Correction factor = a 1
Meniscus correction, gm/l = C_m +1.3 -5.7
Peroxide Treatment Used (Yes) (No)
HYDROMETER NO. JAR NO.

Time (11:48:30 STIR / 11:49 START)	11:50	11:53	12:05	12:53	4:05	8:49	
Temperature, °C	20.0	20.0	20.0	20.0	20.0	20.1	
Temp. correc. Factor = C_t	0.0						
Elapsed Time, Minutes = T	1	4	16	64	256	1260	
Hydrometer Reading, gm/l = R	40.0	33.0	26.5	19.5	14.0	11.5	
Effective Depth, cm = L	3.11	3.30	3.455	3.62	3.74	3.795	
Total Correction $C = C_d + C_m + C_t$	-5.7						
Corrected Reading $R_c = R + C$	34.3	27.3	20.8	13.8	8.3	5.8	
K	.01365						
Diameter in mm = D	.0425	.0225	.0118	.00616	.00319	.00146	
Percent in Suspension = P (80.4)	42.4	33.8	25.7	17.1	10.3	7.2	
Percent of (—10) = P'							

$$P = \frac{(R_c)\,(a)\,(100)}{(W)} \qquad P' = \frac{(P)\,(100)}{(P_{10})} \qquad D = K\sqrt{\frac{L}{T}}$$

Computed by NR Date 3/17/69
Plotted by Date

Checked by [illegible]
Date 3/18

76H930— Cdb 9-63

ML (24)

Los Angeles County Flood Control District
Soils and Materials Engineering Division

LIQUID LIMIT AND PLASTIC LIMIT TESTS

Lab. Serial No. 22840
Job
Boring No.
Sample No.
Sampled By Date

Remarks

Lab. Tested By NR Date 2/26
Computed By NR Date 2/27
Plotted By Date

LIQUID LIMIT

Container No.	58
No. of Blows	22
Wet Sample Wt. + Tare	6.439
Dry Sample Wt. + Tare	6.028
Wt. of Water (Diff)	.411
Tare	4.973
Wt. of Dry Soil	1.055
Moisture Content	39.0
Liquid Limit	—
One Point Liquid Limit	38

ONE POINT TABLE

BLOWS	FACTOR
16	.947
17	.954
18	.961
19	.967
20	.973
21	.979
22	.985
23	.990
24	.995
25	1.000
26	1.005
27	1.009
28	1.014
29	1.018
30	1.022
31	1.026
32	1.030
33	1.034
34	1.038
35	1.042

PLASTIC LIMIT

Run No.	1	2	3
Container No.	52	9	200
Wet Sample Wt. + Tare	5.349	5.319	5.736
Dry Sample Wt. + Tare	5.287	5.243	5.612
Wt. of Water (Diff)	.062	.076	.124
Tare	5.114	5.025	5.256
Wt. of Dry Soil	.173	.218	.356
Moisture Content	36	35	35
Plastic Limit (Average Value)			

Plasticity Index (LL - PL) = PI = 3

Revised 9-5-67

Checked By RJT Date 3/20/69

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

MECHANICAL ANALYSIS

LAB. SERIAL NO. 22840

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} _____ mm

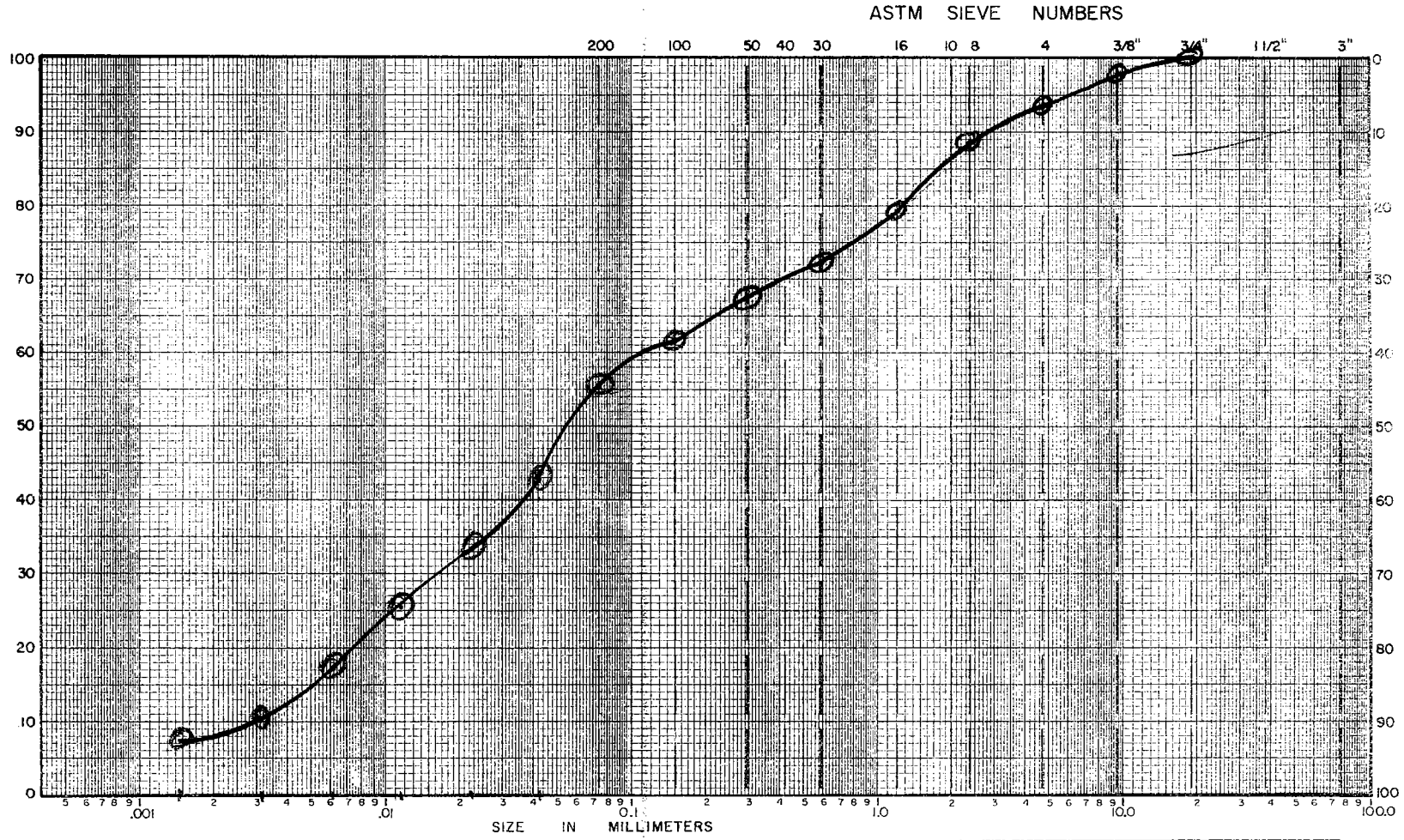
D_{30} _____ mm D_{60} _____ mm

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

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

GROUP SYMBOL _____ DATE 3/20/63

NOTE: D_X = PARTICLE DIA. AT X% PASSING



24

SW 24

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22841 — Total Weight of Sample 2.68 lbs.
Project Hay Cyn. D.B. — grams.
Station — Moisture Content of Fines —%.
Location — Date Tested 2/17/69 Plotted By —
Boring No. — Sample No. — Remarks NP
Sampled By — Lab Tested By AR — 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	0.06		2.3	2.3		
No. 4	4.76	0.17	.23	6.6	8.9	91.1	
Pan	0	2.45		xxxxx			
Total Fractions		2.68		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		2.34		91.1			
Total Oven-Dry		2.57		100.00			

Moisture Determination of Fines:
Cup No. 56
Dry Weight 169.7 grams
Moisture 4.5 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 93.7 grams.
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 105.0 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	14.55	13.9	22.8		
16	1.19	23.80	22.7	45.5		
30	0.59	21.45	20.4	65.9		
50	.297	15.90	15.1	81.0		
100	.149	11.10	10.6	91.6		
200	.074	4.40	4.2	96.1	3.9	
Pan	0	0.10	.16			
Total Fractions		91.20				
Total Dry Weight After Wet Sieving 213.1		91.60	87.2			
Sieve Loss-Gain 12.5		-.40				

213.1 + 12.5

Calculated by AR Date 2/18/69
Checked by RJT Date 2/19/69

Note: Cross out sieve numbers not used.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

MECHANICAL ANALYSIS

LAB. SERIAL NO. 22841

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 <50 D_{10} .17 mm

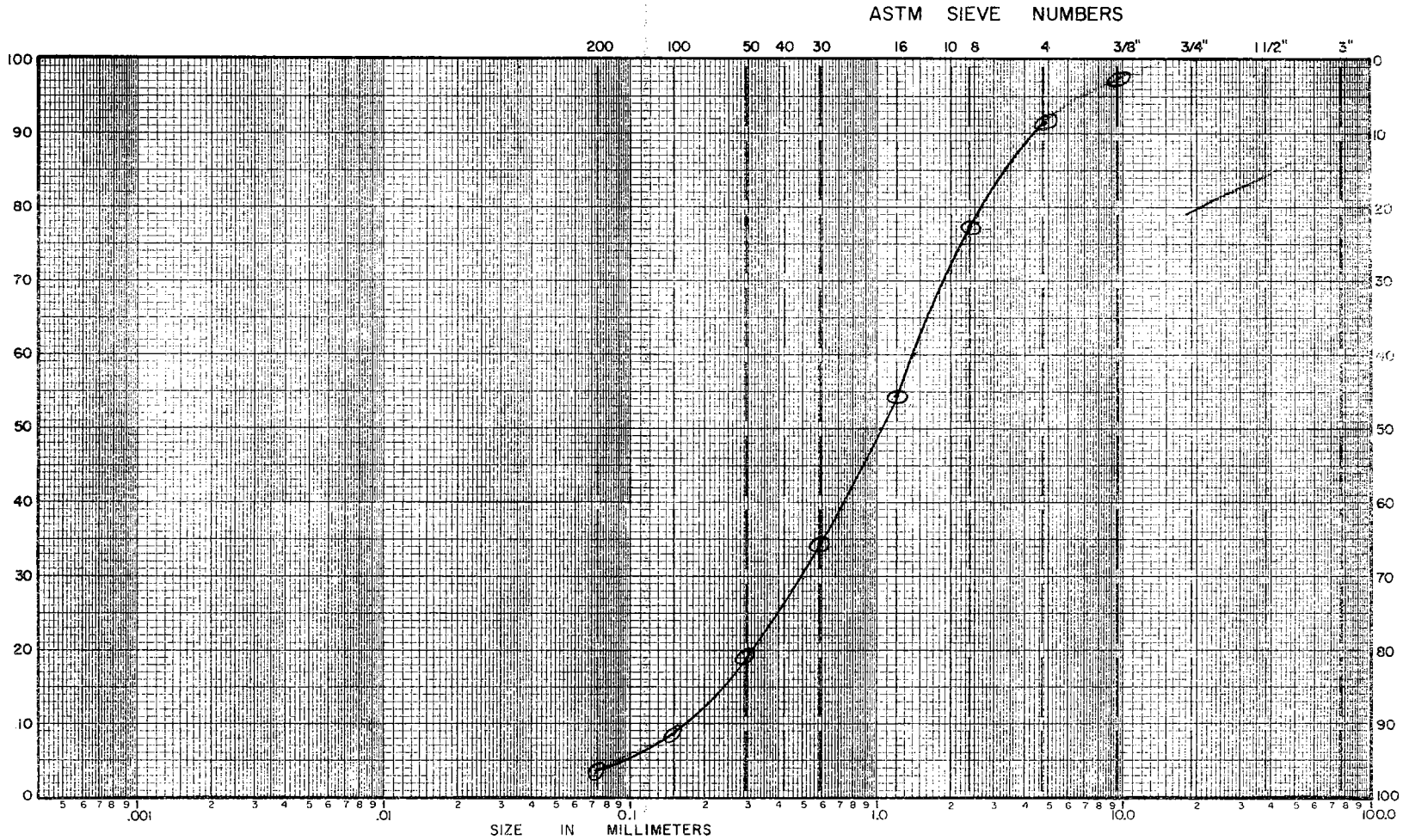
D_{30} 0.50 mm D_{60} 1.4 mm

.250 Cu = D_{60}/D_{10} 8.24 PLOTTED BY _____

.238 Cc = $\frac{(D_{30})^2}{D_{10} \times D_{60}}$ 1.05 CHECKED BY RTT

GROUP SYMBOL _____ DATE 5/21/69

NOTE: D_X = PARTICLE DIA. AT X % PASSING



SW 24

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22842
Project Hay Cyn. D.B.
Station
Location
Boring No. Sample No.
Sampled By Lab Tested By AR

Total Weight of Sample 2.36 lbs.
grams.
Moisture Content of Fines %.
Date Tested 2/17/69 Plotted By
Remarks NP
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	0.02		0.9	0.9		
No. 4	4.76	06	.08	2.7	3.6	96.4	
Pan	0	2.28		xxxxx			
Total Fractions		2.36		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		2.17		96.4			
Total Oven-Dry		2.25		100.00			

Moisture Determination of Fines:
Cup No. 48
Dry Weight 169.2 grams
Moisture 5.0 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 95.2 grams.
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 98.8 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	15.50	15.7	19.3		
16	1.19	23.10	23.4	42.7		
30	0.59	24.60	24.9	67.6		
50	.297	14.80	15.0	82.6		
100	.149	9.20	9.3	91.9		
200	.074	3.45	3.5	95.4	4.6	
Pan	0	0.05				
Total Fractions		90.70				
Total Dry Weight After Wet Sieving 212.15		90.65	91.8			
Sieve Loss-Gain 12.50		+.05				

212.15
12.50

Calculated by AR Date 2/19/69
Checked by SHF Date 2/20/69

Note: Cross out sieve numbers not used.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

MECHANICAL ANALYSIS

LAB. SERIAL NO. 22942

JOB

BORING NO. _____ SAMPLE NO. _____

STATION _____ DEPTH _____ FT.

LOCATION

SAMPLED BY _____ DATE _____

FIELD CLASSIFICATION _____ BY _____

PLAS. IND. _____ LIQ. LIM. _____

REMARKS

.292 / .227

CLASSIFICATION DATA

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

%(+)NO.4/%(+)NO. 200 _____ D_{10} .17 mm

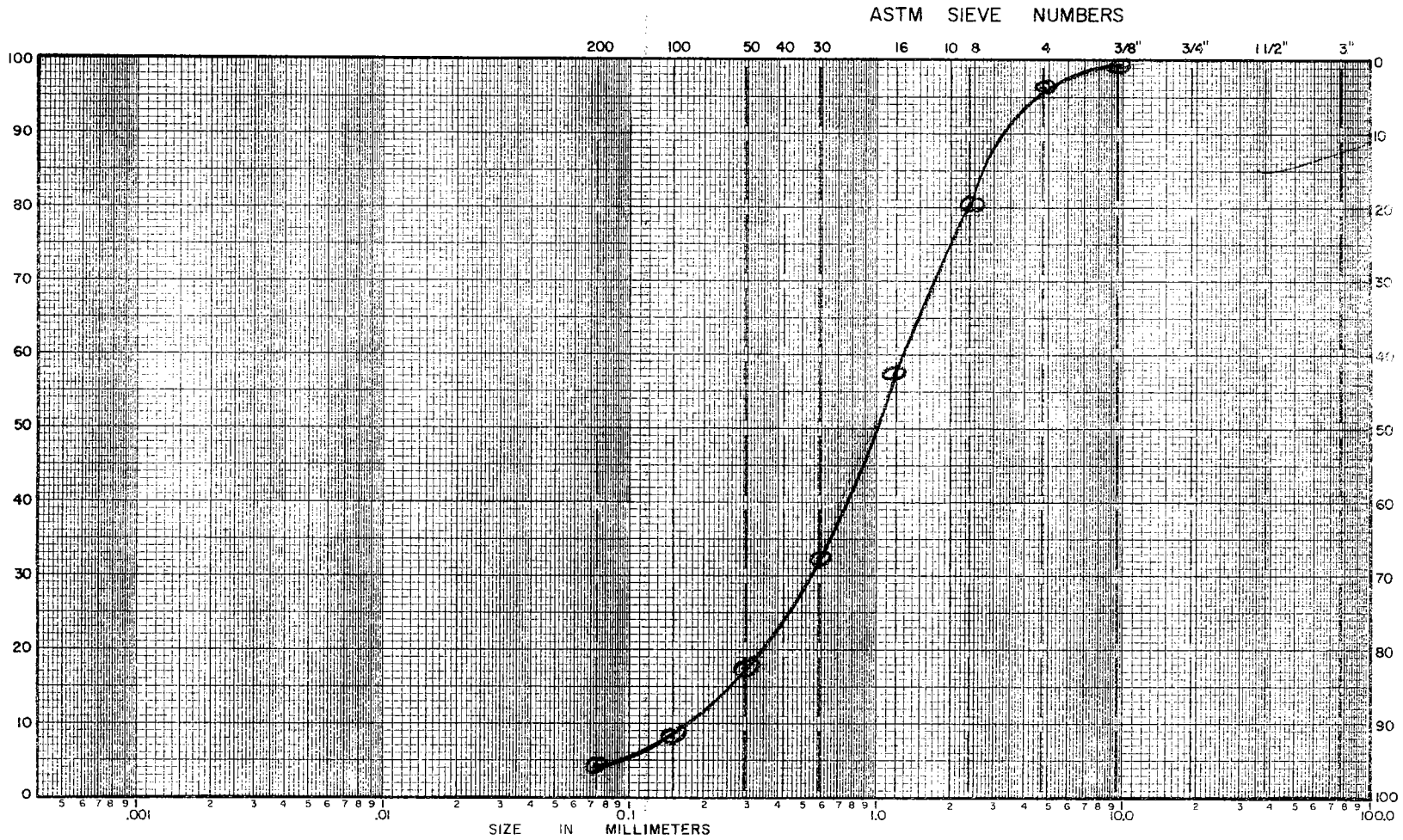
D_{30} 0.54 mm D_{60} 1.3 mm

$Cu = D_{60}/D_{10}$ 7.6 PLOTTED BY AK

$Cc = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ 1.3 CHECKED BY RJT

GROUP SYMBOL _____ DATE 2/22/63

NOTE: D_X = PARTICLE DIA. AT X% PASSING



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE