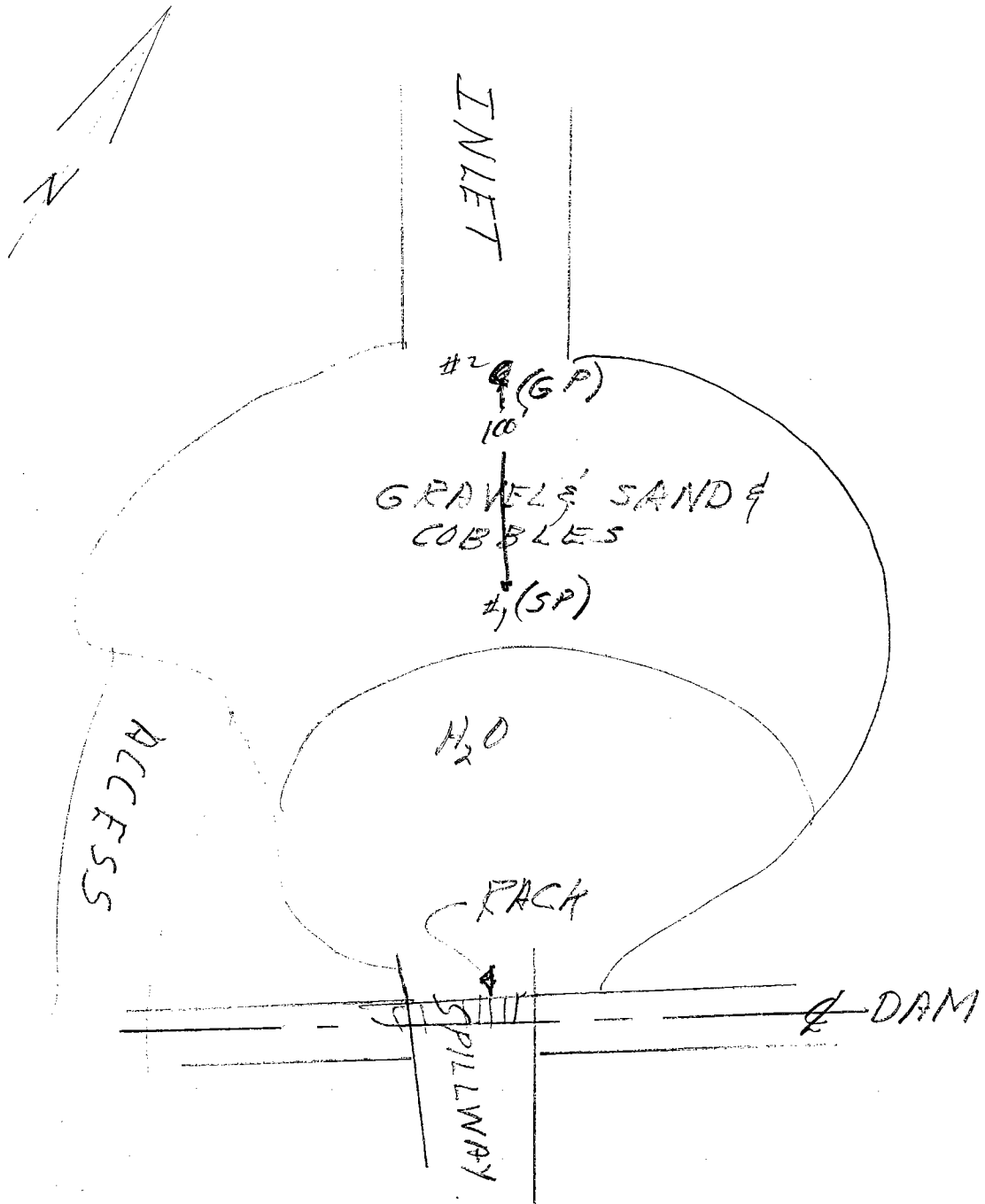


Shield's Debris Basin

7/26/69
JAL-UB

(49)



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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SP ✓
49

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22938 Total Weight of Sample 2.07 lbs.
 Project SHIELDS _____ grams.
 Station _____ Moisture Content of Fines _____ %.
 Location _____ Date Tested 3/18/69 Plotted By _____
 Boring No. 1 Sample No. 1 Remarks AP
 Sampled By _____ Lab Tested By [Signature] 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	.10		5.3	5.3		
⅜"	9.52	.11		5.8	11.1		
No. 4	4.76	.14	35	7.4	18.5	81.6	
Pan	0	1.72		xxxxx			
Total Fractions		2.07		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.55		81.6			
Total Oven-Dry		1.90		100.00			

Moisture Determination of Fines:
 Cup No. 48
 Dry Weight 164.2 grams
 Moisture 10.9 %

WEIGHT, GRAMS 100 FINES (Minus No. 4) (CALC.) OVEN-DRY WEIGHT 90.2 grams.
 WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 110.5 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	18.9	9.9	28.4		
16	1.19	26.6	24.1	52.5		
30	0.59	26.5	24.0	76.5		
50	.297	15.1	13.7	90.2		
100	.149	7.8	7.1	97.3		
200	.074	2.1	1.9	99.3	0.7	
Pan	0	0.0				
Total Fractions		89.0				
Total Dry Weight After Wet Sieving		209.5	89.3	80.8		
Sieve Loss-Gain		120.2	-.3			

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

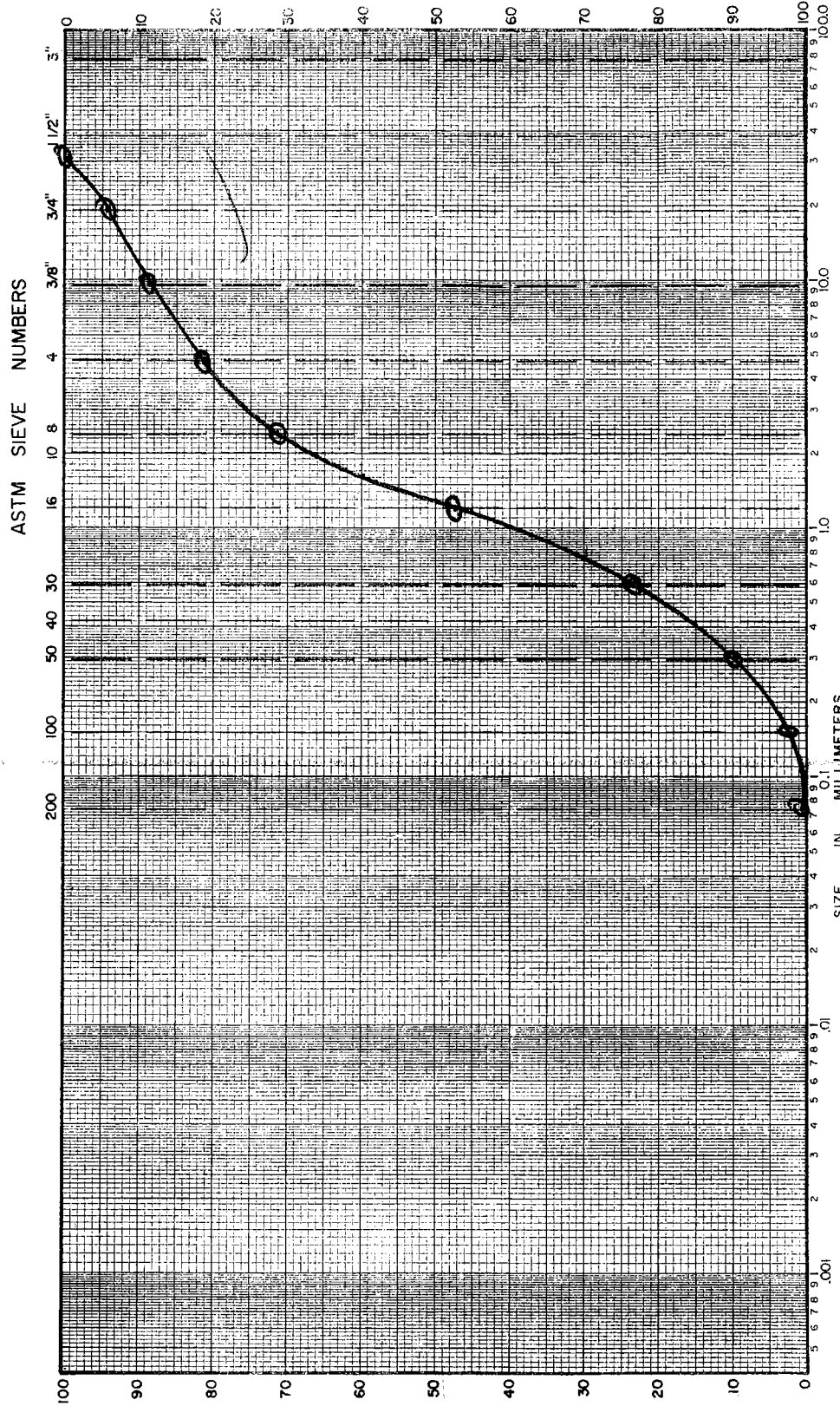
Note: Cross out sieve numbers not used.

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

LAB. SERIAL NO. 22938
 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 3.2 D₁₀ _____ mm
 D₃₀ _____ mm D₆₀ 1.1 mm
 C_u = D₆₀ / D₁₀ _____ PLOTTED BY RJT
 C_c = (D₃₀)² / (D₁₀ x D₆₀) _____ CHECKED BY _____
 GROUP SYMBOL _____ DATE 3/20/69
 NOTE: D_x = PARTICLE DIA. AT X% PASSING



SILT OR CLAY	FINE	COARSE	FINE	COARSE	GRAVEL	COARSE
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69

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

GP (49)

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22939 Total Weight of Sample 2.38 lbs.
 Project SHIELDS DB _____ grams.
 Station _____ Moisture Content of Fines _____ %.
 Location _____ Date Tested 3/10/69 Plotted By _____
 Boring No. 2 Sample No. 1 Remarks NP
 Sampled By JVB Lab Tested By AR-JMC 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	0.20		8.5	8.5		
(1")	(25.4)	0.27		11.4	19.9		
¾"	19.1	0.08		3.4	23.3		
⅜"	9.52	0.50	2.38	21.2	44.5		
No. 4	4.76	0.27	1.32	11.4	55.9	44.1	
Pan	0	1.06		xxxxx			
Total Fractions		2.38		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.04		44.1			
Total Oven-Dry		2.36		100.00			

Moisture Determination of Fines:
 Cup No. 12
 Dry Weight 172.3 grams
 Moisture 1.7 %
 174.0
 172.3
 1.7
 10.010
 1.7
 98.3

WEIGHT, GRAMS 100 FINES (Minus No. 4) (CALC.) OVEN-DRY WEIGHT 98.4 grams.
 WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 223.0 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	21.7	9.7	65.6		
16	1.19	33.0	14.8	80.4		
30	0.59	30.2	13.5	93.9		
50	.297	8.2	3.7	97.6		
100	.149	2.3	1.0	98.6		
200	.074	1.1	0.5	99.3	0.7	
Pan	0	0.1				
Total Fractions		96.6				
Total Dry Weight After Wet Sieving		96.7	43.4			
Sieve Loss-Gain		0.1				

Calculated by AR Date 3/17/69
 Checked by SXF Date 3/19/69

21.9
 120.2
 96.7

Note: Cross out sieve numbers not used.

96.7

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

LAB. SERIAL NO. 22939

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 4

% (+) NO. 4 / % (+) NO. 200 _____ D₁₀ 0.15 mm

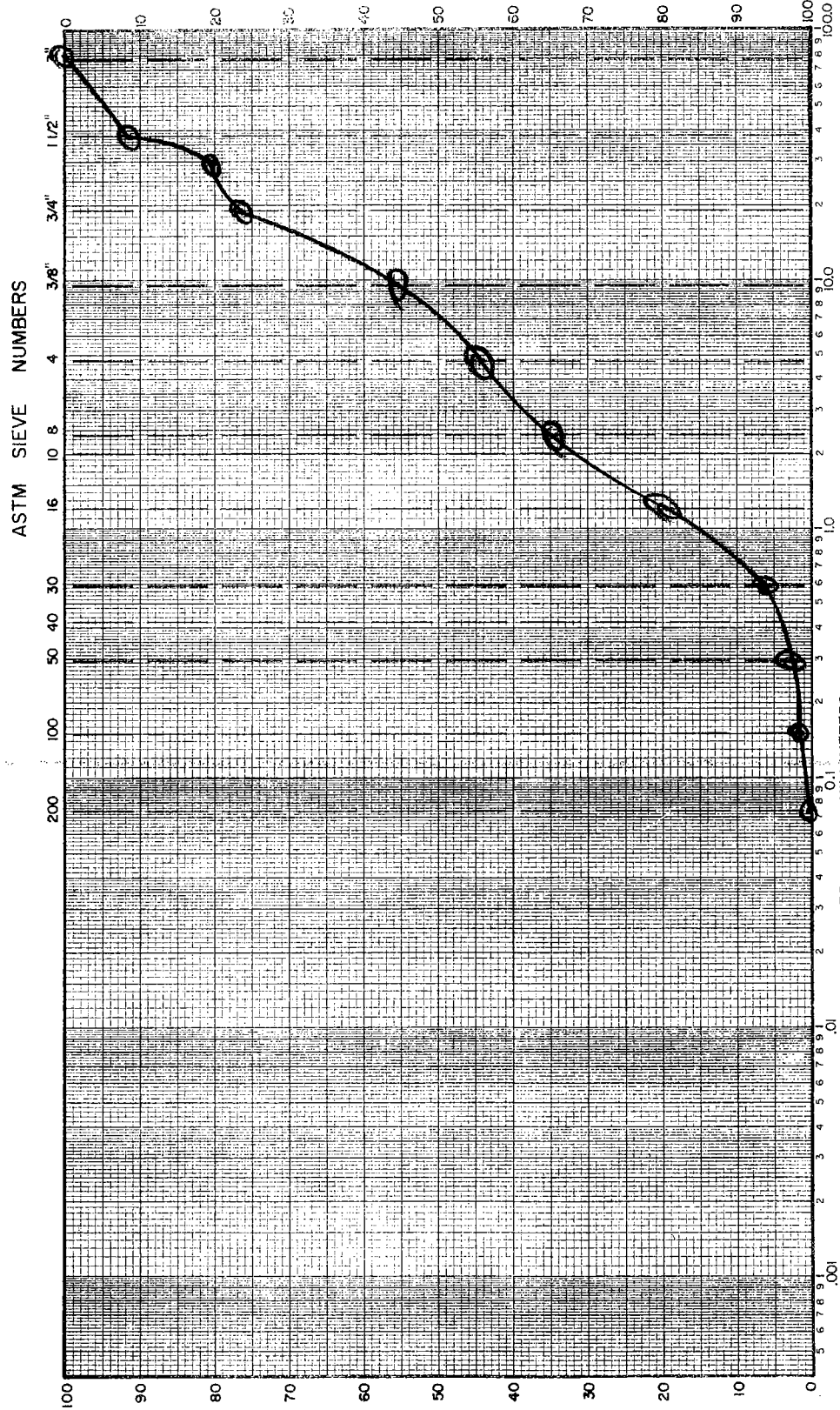
D₃₀ _____ mm D₆₀ _____ mm

Cu = D₆₀/D₁₀ 5.3 PLOTTED BY R

Cc = (D₃₀)² / (D₁₀ x D₆₀) _____ CHECKED BY SHE

GROUP SYMBOL _____ DATE 3/17/68

NOTE: D_x = PARTICLE DIA. AT X % PASSING



SILT OR CLAY	FINE SAND	COARSE SAND	FINE GRAVEL	COARSE GRAVEL
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