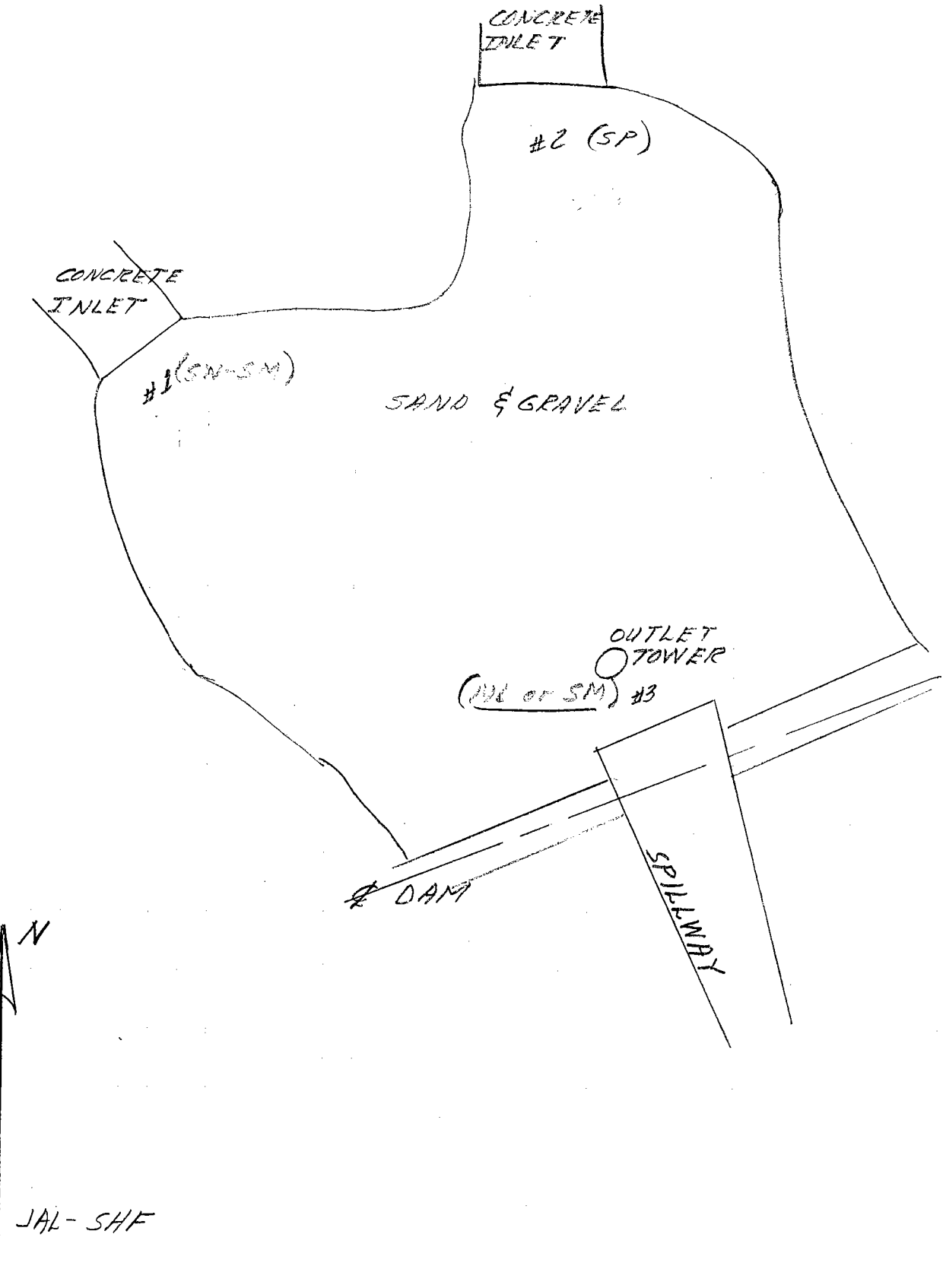
AUBURN DEBRIS BASIN 2/25/69
From 2/19/69

(2)



JAL - SHF

ML-SM ②

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22879 Total Weight of Sample .77 lbs.

Project Auburn DB ______ grams.

Station ______ Moisture Content of Fines ______ %.

Location ______ Date Tested 3/12 Plotted By ______

Boring No. 3 Sample No. 1 Remarks ______

Sampled By ______ Lab Tested By R 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						
No. 4	4.76			0.0	0.0	100.0	
Pan	0	.77		xxxxx			
Total Fractions		.77		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		.58		100.0			
Total Oven-Dry		.58		100.00			

Moisture Determination of Fines:

Cup No. 39

Dry Weight 129.7 grams

Moisture 33.1 %

wet weight + tare 148.1, −74.1, 74.1 (?); 129.7, 74.0, dry wt 55.7; 55.7, 18.4

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 75.2 grams.

WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 75.2 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	2.3	3.1	3.1		
16	1.19	8.4	11.2	14.3		
30	0.59	9.4	12.5	26.8		
50	.297	7.5	10.0	36.8		
100	.149	6.0	8.0	44.8		
200	.074	3.8	5.1	50.0	50.0	
Pan	0	0.0				
Total Fractions		37.4				
Total Dry Weight After Wet Sieving 157.8		37.6	50.0			
Sieve Loss-Gain 120.2		−0.2				

178, 120.2

Calculated by R Date 3/17/69

Checked by SHF Date 3/17/69

Note: Cross out sieve numbers not used.

76S523—Cdb 10-68

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

MECHANICAL ANALYSIS

LAB. SERIAL NO. 22879

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

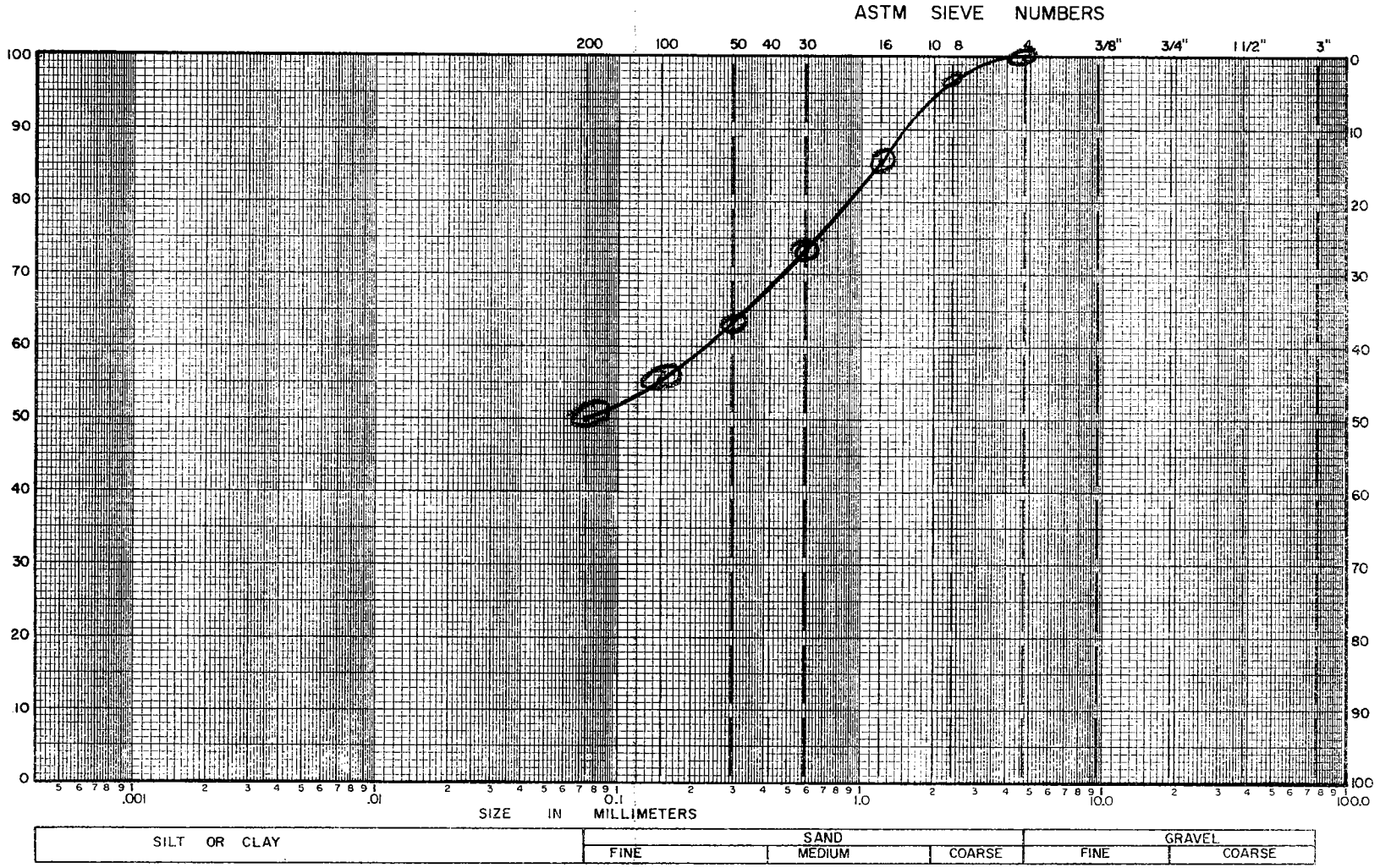
D_{30} _____ mm D_{60} _____ mm

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

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

GROUP SYMBOL _____ DATE 3/17/62

NOTE: D_X = PARTICLE DIA. AT X % PASSING



SM-5 W

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22877

Project AUBURN D.B.

Station

Location

Boring No. / Sample No. 1

Sampled By JJB Lab Tested By FKNR

Total Weight of Sample _____ lbs.

_____ grams.

Moisture Content of Fines _____ %.

Date Tested 3-3 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						
No. 4	4.76	0.03		2.7	2.7	97.3	
Pan	0	1.18		xxxxx			
Total Fractions		1.21		xxxxx			
Sieve Loss-Gain		—					
Calc. Oven-Dry Fines		108		97.3			
Total Oven-Dry		1.11		100.00			

Moisture Determination of Fines:

Cup No. 69

Dry Weight 165.5 grams

Moisture 9.3 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 91.5 grams.

WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 34.0 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING ACTUAL	ACCUM. % PASSING SPEC. REQ.
~~10~~ 8	2.38	7.2	~~7.6~~ 7.7	~~10.3~~	10.9	
16	1.19	20.9	22.2	32.5	32.6	
30	0.59	28.6	30.4	~~62.9~~	63.0	
50	.297	15.8	16.8	~~79.7~~	79.8	
100	.149	8.8	9.4	~~89.1~~	89.2	
200	.074	4.8	5.1	94.1	~~5.8~~ 5.9	
Pan	0	—	—			
Total Fractions		86.1				
Total Dry Weight After Wet Sieving		85.9	91.4			
Sieve Loss-Gain		- 0.2				

Calculated by FK Date 3-15-69

Checked by SHF Date 3/16/69

Note: Cross out sieve numbers not used.

206.1
120.2

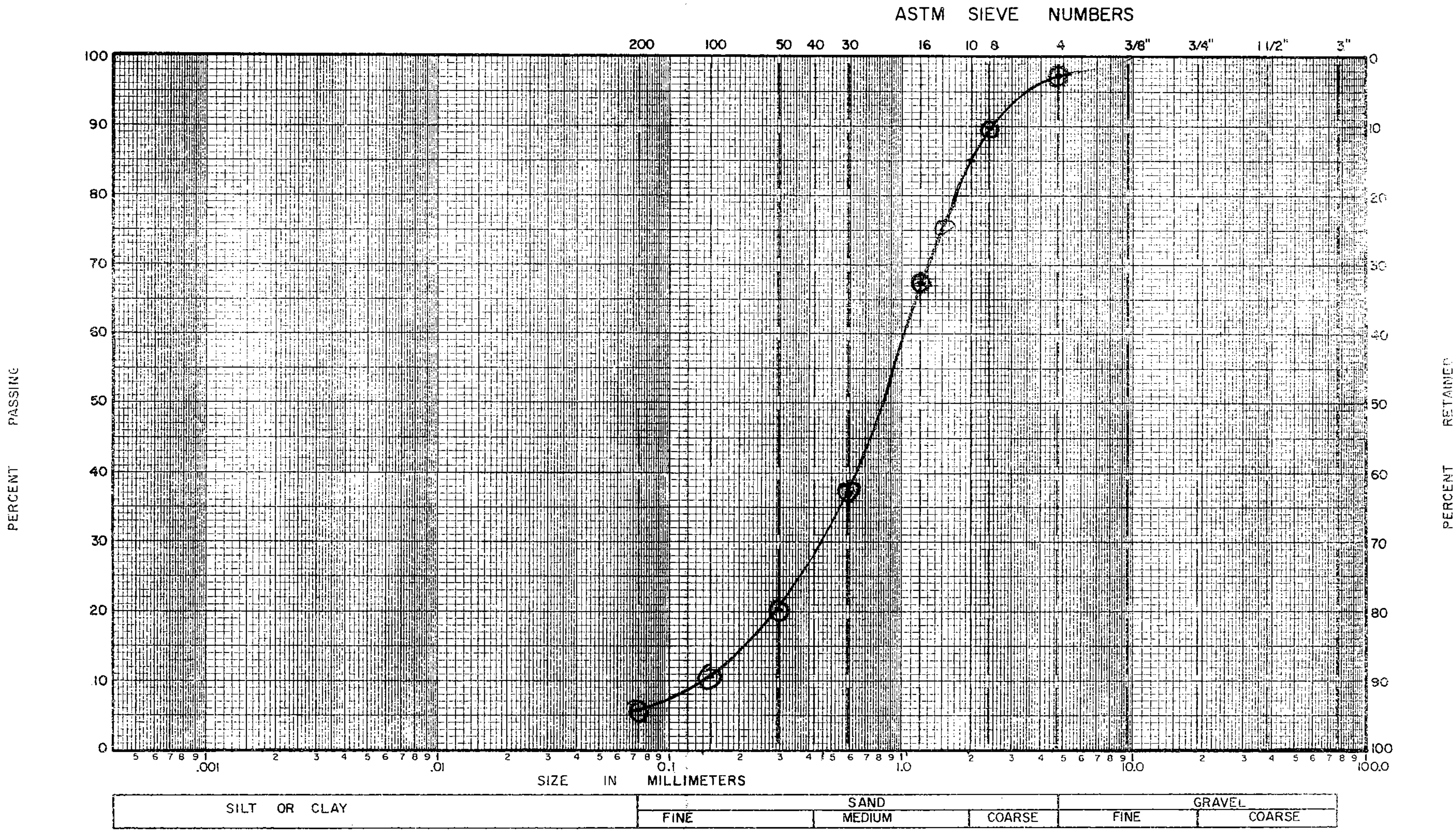
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division
MECHANICAL ANALYSIS

LAB. SERIAL NO. 22377
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} 0.44 mm D_{60} 1.0 mm
Cu = D_{60}/D_{10} 7.1 PLOTTED BY ______
Cc = $\frac{(D_{30})^2}{D_{10} \times D_{60}}$ 1.4 CHECKED BY SHE
GROUP SYMBOL ______ DATE [illegible]
NOTE: D_X = PARTICLE DIA. AT X% PASSING

$\frac{.194}{.14}$



2

SP (2)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22878 — Total Weight of Sample 1.22 lbs.
Project AUBURN D 8 — grams.
Station — Moisture Content of Fines %.
Location — Date Tested 2/20/69 Plotted By
Boring No. 2 Sample No. 1 — Remarks NP
Sampled By — Lab Tested By NR-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	0.01		0.9	0.9		
No. 4	4.76	0.03	.04	2.7	3.6	96.4	
Pan	0	1.18		xxxxx			
Total Fractions		1.22		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.07		96.4			
Total Oven-Dry		1.11		100.00			

Moisture Determination of Fines:
Cup No. 1
Dry Weight 105.1 grams
Moisture 9.8 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 91.1 grams.
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 94.5 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	5.4	5.7	9.3		
16	1.19	21.5	22.8	32.1		
30	0.59	24.8	26.2	58.3		
50	.297	19.5	20.6	78.9		
100	.149	12.2	12.9	91.8		
200	.074	4.1	4.3	96.2	3.8	
Pan	0	—	—			
Total Fractions		87.5				
Total Dry Weight After Wet Sieving		87.5	92.6			
Sieve Loss-Gain						

Calculated by NR Date 2/29/69
Checked by SHF Date 2/27/69

Note: Cross out sieve numbers not used.

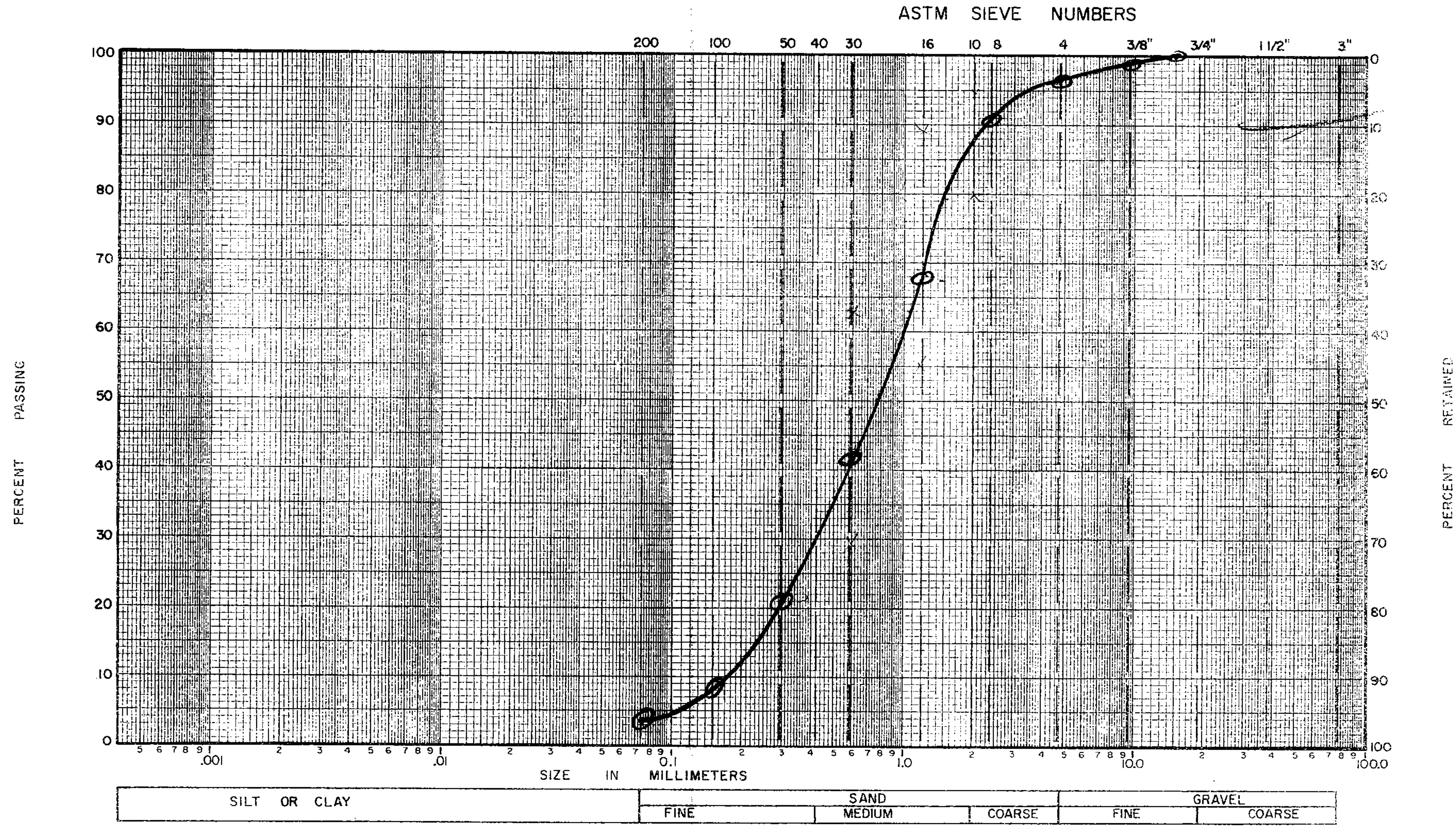
76S523—Cdb 10-68

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

LAB. SERIAL NO. ______
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} .17 mm
D_{30} .47 mm D_{60} 1.0 mm
$Cu = D_{60}/D_{10}$ 5.88 PLOTTED BY NE
$Cc = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ ______ CHECKED BY RJT
GROUP SYMBOL ______ DATE 2/27/..
NOTE: D_X = PARTICLE DIA. AT X% PASSING



(2)