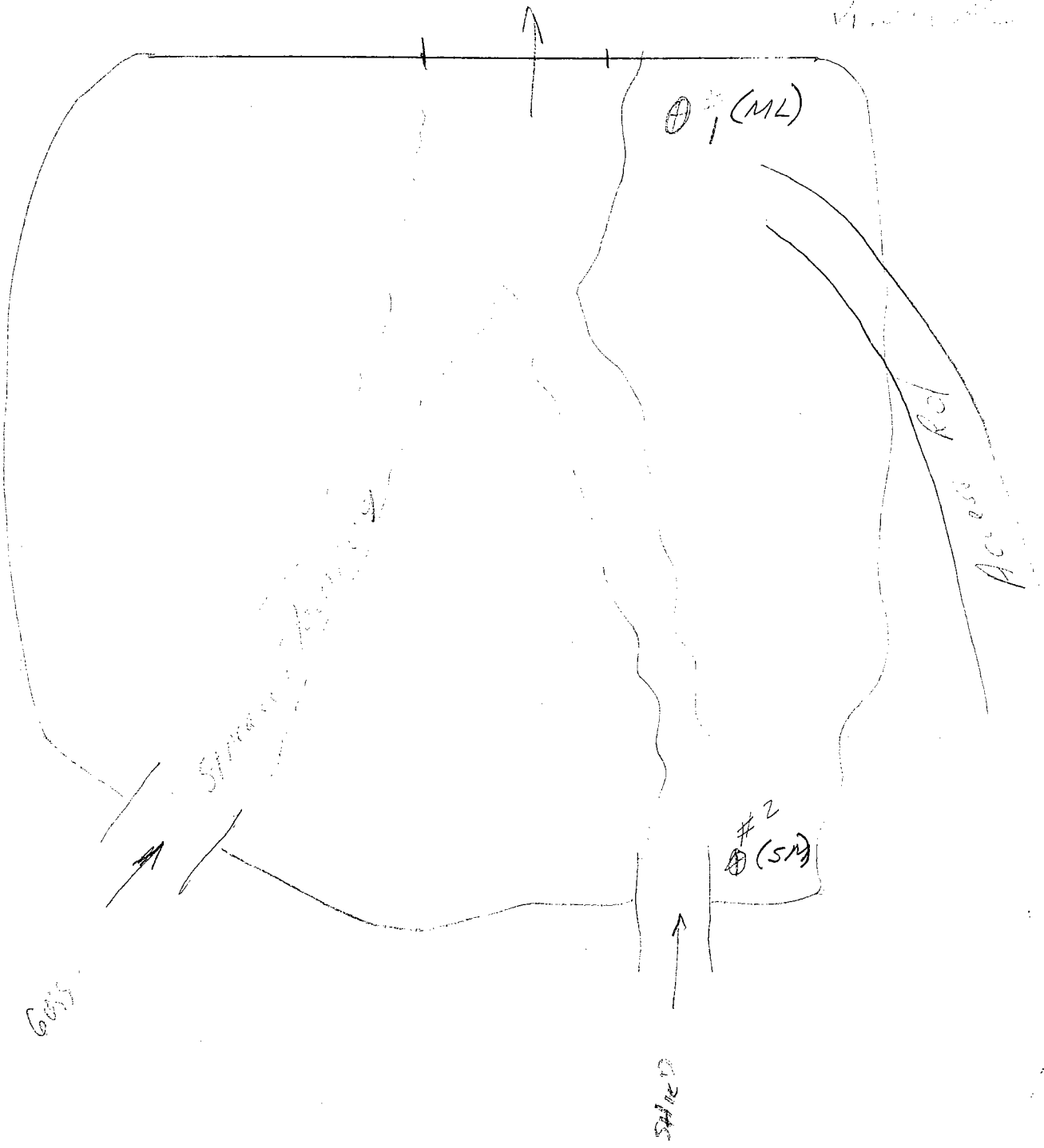


~~State D.M.~~
ERGLE

2/29/04

(4)

W. 1/2 Sec 24



LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

ML (14)

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22969 Total Weight of Sample 1.78 lbs.
 Project EAGLE _____ grams.
 Station _____ Moisture Content of Fines _____ %.
 Location _____ Date Tested 3/12 Plotted By _____
 Boring No. _____ Sample No. 1 Remarks NR
 Sampled By _____ Lab Tested By NR 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 | | | | | | |
| ⅜" | 9.52 | | | | | | |
| No. 4 | 4.76 | | | — | — | 100.0 | |
| Pan | 0 | <u>1.78</u> | | xxxxx | | | |
| Total Fractions | | <u>1.78</u> | | xxxxx | | | |
| Sieve Loss-Gain | | | | | | | |
| Calc. Oven-Dry Fines | | <u>1.13</u> | | <u>100.0</u> | | | |
| Total Oven-Dry | | <u>1.13</u> | | 100.00 | | | |

Moisture Determination of Fines:
 Cup No. 69
 Dry Weight 137.3 grams
 Moisture 58.0 %
137.3
74.0
63.3 dry wt
36.7 water

WEIGHT, GRAMS 100 FINES (Minus No. 4) (CALC.) OVEN-DRY WEIGHT 63.3 grams.
 WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 63.3 grams.

| ASTM SIEVE NUMBER | SIZE (mm) | RETAINED GRAMS | % OF TOTAL SAMPLE RETAINED | ACCUM. % OF TOTAL RETAINED | ACCUM. % PASSING | |
|---|-----------|----------------|----------------------------|----------------------------|------------------|------------|
| | | | | | ACTUAL | SPEC. REQ. |
| 8 | 2.38 | — | | | | |
| 16 | 1.19 | — | | | | |
| 30 | 0.59 | — | | | | |
| 50 | .297 | <u>0.1</u> | <u>0.2</u> | <u>0.2</u> | | |
| 100 | .149 | <u>0.1</u> | <u>0.2</u> | <u>0.4</u> | | |
| 200 | .074 | <u>0.3</u> | <u>0.5</u> | <u>0.8</u> | <u>99.2</u> | |
| Pan | 0 | — | | | | |
| Total Fractions | | <u>0.5</u> | | | | |
| Total Dry Weight After Wet Sieving <u>120.7</u> | | <u>0.5</u> | <u>0.8</u> | | | |
| Sieve Loss-Gain | | | | | | |

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

Note: Cross out sieve numbers not used.

#3 (14)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Foundation and Testing Division

HYDROMETER ANALYSIS WORK SHEET
ASTM Method D422-54T
(Modified)

LAB. SERIAL NO. 22969
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 3/12/69
Lab. Tested by NR Date 3/13/69

Moisture Cup No. 69
Dry Weight, grams -137.3
Moisture Content, % _____
Oven-Dry Weight
Passing No. 4 grams _____
Percent Passing No. 4 _____; No. 10 _____ = P10
Oven-Dry Weight of total
Sample represented, 63.3 grams
W = _____ grams

Type Calgon
Dispersing Volume, cc 125
Agent Strength, % _____
Correction, gm/l = C_d 70
Soil Specific Gravity = G 2.65
S. G. Correction factor = a 1
Meniscus correction, gm/l = C_m +1.3
Peroxide Treatment Used (Yes) (No) -5.7
HYDROMETER NO. _____ JAR NO. _____

11:31:30 START
11:38 START

| | | | | | | | | |
|--|------------------------------|-------|-------|--------|--------|--------|------|--|
| Time | 11:37:30 STIR 11:38 START | 11:39 | 11:42 | 11:54 | 12:42 | 3:54 | 8:38 | |
| Temperature, °C | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.2 | |
| Temp. correc. Factor = C _t | 0 | | | | | | | |
| Elapsed Time, Minutes = T | 1 | 4 | 16 | 64 | 256 | 1260 | | |
| Hydrometer Reading, gm/l = R | 48.5 | 29.5 | 18.0 | 12.5 | 10.5 | 9.0 | | |
| Effective Depth, cm = L | 2.89 | 3.385 | 3.65 | 3.775 | 3.825 | 3.85 | | |
| Total Correction C = C _d + C _m + C _t | 5.7 | | | | | | | |
| Corrected Reading R _c = R + C | 42.8 | 23.8 | 12.3 | 6.8 | 4.8 | 3.3 | | |
| K | 101365 | | | | | | | |
| Diameter in mm = D | .0394 | .0232 | .0125 | .00644 | .00325 | .00148 | | |
| Percent in Suspension = P | 67.7 | 37.7 | 19.4 | 10.7 | 7.6 | 5.2 | | |
| Percent of (-10) = P' | | | | | | | | |

$P = \frac{(R_c)(a)(100)}{(W)}$

$P' = \frac{(P)(100)}{(P_{10})}$

$D = K \sqrt{\frac{L}{T}}$

Computed by NR Date 3/18/69
Plotted by _____ Date _____

Checked by [Signature]
Date _____

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Soils and Materials Engineering Division

MECHANICAL ANALYSIS

LAB. SERIAL NO. 22989

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 _____ D₁₀ _____ mm

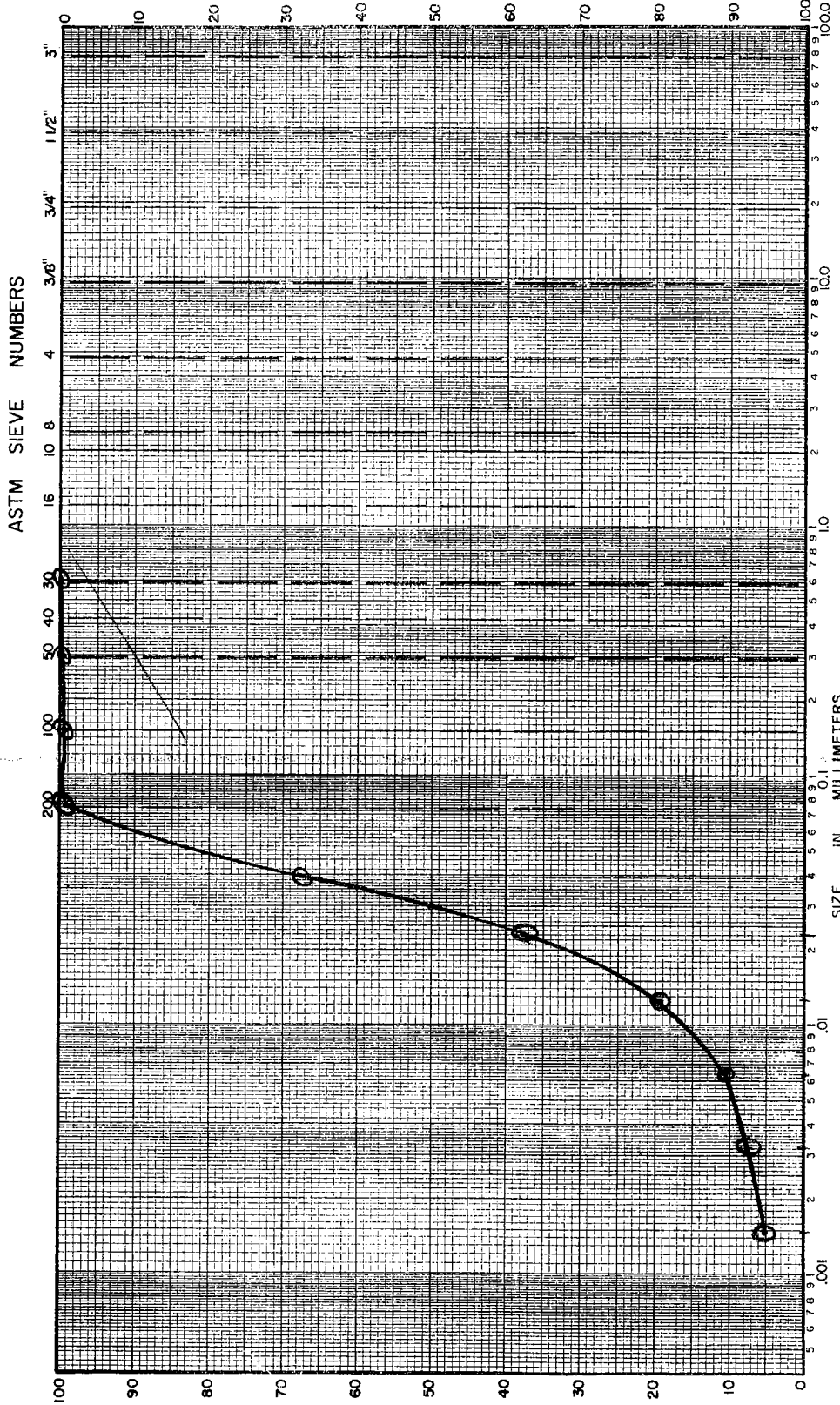
D₃₀ _____ mm D₆₀ _____ mm

C_u = D₆₀ / D₁₀ _____ PLOTTED BY AR

C_c = (D₃₀)² / (D₁₀ x D₆₀) _____ CHECKED BY RST

GROUP SYMBOL _____ DATE 2/29/69

NOTE: D_x = PARTICLE DIA. AT X% PASSING



| | | |
|--------------|----------------|----------------|
| SILT OR CLAY | SAND MEDIUM | GRAVEL FINE |
| | COARSE | COARSE |

SM

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22970
Project EAGLE
Station _____
Location _____
Boring No. _____ Sample No. 2
Sampled By _____ Lab Tested By NR

Total Weight of Sample 1.91 lbs.
grams.
Moisture Content of Fines _____ %
Date Tested 3/11/69 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 | | | | | | |
| 3/8" | 9.52 | <u>.01</u> | | <u>0.6</u> | <u>0.6</u> | | |
| No. 4 | 4.76 | <u>.01</u> | <u>0.2</u> | <u>0.6</u> | <u>1.2</u> | <u>98.8</u> | |
| Pan | 0 | <u>1.89</u> | | xxxxx | | | |
| Total Fractions | | <u>1.91</u> | | xxxxx | | | |
| Sieve Loss-Gain | | | | | | | |
| Calc. Oven-Dry Fines | | <u>156</u> | | <u>98.7</u> | | | |
| Total Oven-Dry | | <u>158</u> | | 100.00 | | | |

Moisture Determination of Fines:
Cup No. 19
Dry Weight 156.7 grams
Moisture 20.9 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 82.7 grams.
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 83.7 grams.

| ASTM SIEVE NUMBER | SIZE (mm) | RETAINED GRAMS | % OF TOTAL SAMPLE RETAINED | ACCUM. % OF TOTAL RETAINED | ACCUM. % PASSING | |
|------------------------------------|--------------|----------------|----------------------------|----------------------------|------------------|------------|
| | | | | | ACTUAL | SPEC. REQ. |
| 8 | 2.38 | <u>12.7</u> | <u>15.2</u> | <u>16.4</u> | | |
| 16 | 1.19 | <u>8.4</u> | <u>10.0</u> | <u>26.4</u> | | |
| 30 | 0.59 | <u>16.4</u> | <u>19.6</u> | <u>46.0</u> | | |
| 50 | .297 | <u>8.2</u> | <u>9.8</u> | <u>55.8</u> | | |
| 100 | .149 | <u>5.6</u> | <u>6.7</u> | <u>62.5</u> | | |
| 200 | .074 | <u>10.3</u> | <u>12.3</u> | <u>76.5</u> | <u>23.5</u> | |
| Pan | 0 | <u>11.1</u> | | | | |
| Total Fractions | | <u>62.7</u> | | | | |
| Total Dry Weight After Wet Sieving | <u>183.2</u> | <u>63.0</u> | <u>75.3</u> | | | |
| Sieve Loss-Gain | <u>120.2</u> | <u>-0.3</u> | | | | |

Calculated by NR Date 3/19/69
Checked by RJT Date 3/20/69

Note: Cross out sieve numbers not used.