STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

FIELD COMPACTION TEST

TEST NO. ____________________
PROJECT ____________________
DESCRIPTION OF TESTED SOILS & TYPE: ________
____
TEST DATE: ____________________
PAY ITEM NUMBER ____________________

PROJECT NO. ____________________
LOCATION: ____________________
STA NO. & OFFSET: ____________________
TEST ELEVATION: ____________________
FINISH GRADE: ____________________
TEST PERFORMED BY: ____________________

SURFACE VOIDS DETERMINATION: Apparatus No. ______

a. Mass of Sand + Container before Determination . . . . ____________ grams
b. Mass of Sand + Container After Determination . . . . ____________ grams
c. Mass of Sand Used for Determination (a - b). . . . . ____________ grams

IN PLACE DENSITY Tare Number ______ **453.6 grams = 1 lb.**

d. Mass of Sand + Container Before Test . . . . ____________ grams
e. Mass of Sand + Container After Test . . . . ____________ grams
f. Mass of Sand Used for Test (d - e). . . . . ____________ grams
g. Mass of Sand Used for Voids Determination (c) . . . . ____________ grams
h. Net Mass of Sand Used for Test (f - g) . . . . ____________ grams (2)____________ lbs.
i Loose Density of Sand . . . . ____________ pcf.
j. Volume of Hole (h / i) . . . . (5)____________ cu.ft.
k. Mass of Wet Sample + Container . . . . ____________ grams
l. Mass of Container . . . . ____________ grams
m. Mass of Wet Sample from Hole (k - l). . . . . ____________ grams (2)____________ lbs.
n. In-Place Density of Wet Sample (m / j) . . . . (1)____________ pcf.

MOISTURE CONTENT DETERMINATION Tare Number ______

o. Soil Sample + Container . . . . ____________ grams
p. Oven Dried Soil + Container . . . . ____________ grams
q. Mass of Moisture (o - p) . . . . ____________ grams
r. Container Weight . . . . ____________ grams
s. Mass of Oven Dried Soil (p - r) . . . . ____________ grams
t. Moisture Content [(q / s) X 100] . . . . (1)____________ %

DRY DENSITY AND RELATIVE COMPACTION

u. Minimum Relative Compaction Requirement . . . . ____________ %
v. In-Place Density of Wet Sample (n) . . . . ____________ pcf.
w. Moisture Content (t) . . . . ____________ %
x. Dry Density { [v / (100 + w)] x 100 } . . . . (1)____________ pcf.
y. Maximum Dry Density (LAB Proctor Results) . . . . ____________ pcf.
z. Optimum Moisture Content (LAB Proctor Results). . . . . . . ____________ %
aa. Relative Compaction [(x / y) X 100] . . . . ____________ %

RESULT : Test PASSED / FAILED the Minimum Relative Compaction Requirement.

*** If compaction test failed, additional fill should not be placed until corrective actions have been implemented and documented on Field Compaction Test Log.

NOTES: ____
____