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Doughty & Associates, Inc.

 362 U.S. Route 1

 Falmouth, ME 04105

LETTER OF TRANSMITTAL

| | | | |
|------------|--|--------------|--------|
| Date: | 28 Sept. 04 | Project No.: | 438-05 |
| Attention: | Phillip Doughty, AIA (pdarch@maine.rr.com) | | |
| Re: | New Jetways & Addition to Baggage Claim Portland, Maine | | |

We are sending you attached In-Place Density Test Results.

Date(s) Performed: Sept. 14, 22, & 24, 2004

Test (s) Performed

In-Place Density Testing - Nuclear Method ASTM D2922

Meets Specification

Selected Tests Do Not Meet Specification - Noted with an *

Note: Materials descriptions and maximum laboratory dry density values were transmitted under separate cover and are referenced in the attached summaries by the material number.

Remarks:

Copy to: Roy Williams (rsw@ci.portland.me.us)

Signed: 

SUMMARY OF IN-PLACE DENSITIES - ASTM D2922/D3017
 JETPORT BAGGAGE ADDITION
 PORTLAND, MAINE
 RWG&A PROJECT NO. 438-05

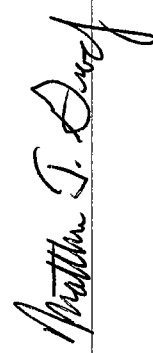
Client: Doughty & Associates, Inc.
 Test Date: September 14, 2004
 Technician: Chad Gryskwicz
 Gauge Model/Serial Number: CPN MC-3/04250
 Also: CPN MC-1/06969
 Report Issue Date: SEP 30 2004

| | | | |
|---------|------------------|---------------------------|-----------------------------|
| Lab No. | Soil Description | ASTM D1557 Max Density | ASTM D1557 Opt. Moisture |
| 7250 | Structural Fill | 136.0 | 7 |

| Test No. | Location | Elevation | ASTM D2922 Dry Density (pcf) | ASTM D3017 Water Content (%) | Percent of Max. (%) | Lab. No. |
|----------|--------------------------------------|-----------|------------------------------------|------------------------------------|------------------------|-------------|
| | Using Nuclear Gauge CPN MC-3/04250 | | | | | |
| 1 | Line W, 44, 5'N of S Wall | TOW-4' | 129.9 | 3 | 96 | 7250 |
| 2 | Line W/47, 5'N of S Wall | TOW-4' | 131.4 | 3 | 97 | 7250 |
| 3 | Line W/44, 6'S of S Wall | TOW-5' | 129.7 | 4 | 95 | 7250 |
| 4 | Line W/45, 4'N of S Wall | TOW-3' | 135.2 | 4 | 99 | 7250 |
| 5 | Line W/44, 4'N of S Wall | TOW-3' | 134.5 | 4 | 99 | 7250 |
| 6 | Line W/46, 5'N of S Wall | TOW-2' | 129.6 | 5 | 95 | 7250 |
| | Using Nuclear Gauge CPN MC-1/06969 | | | | | |
| 7 | Line W/45, 6'N of S Wall | TOW-1' | 133.9 | 5 | 98 | 7250 |
| 8 | Line W/47, 7'N of S Wall | TOW-1' | 129.2 | 4 | 95 | 7250 |
| 9 | Line W/41, 8'N of S Wall | TOW-4' | 131.7 | 5 | 97 | 7250 |
| 10 | Line W/40, 5'N of S Wall | TOW-4' | 130.4 | 5 | 96 | 7250 |
| 11 | Line W/43, 3'N of S Wall | TOW-3' | 131.9 | 4 | 97 | 7250 |
| 12 | Line W/40, 6'N of S Wall | TOW-3' | 129.6 | 5 | 95 | 7250 |
| 13 | Retest of Test No. 3 taken 9/1/04 | TOW-2' | 131.1 | 4 | 96 | 7250 |
| 14 | Retest of Test No. 1 taken on 9/3/04 | TOW-2'8" | 132.2 | 5 | 97 | 7250 |

Remarks: TOW = Top of Wall

Checked by:



SUMMARY OF IN-PLACE DENSITIES - ASTM D2922/D3017
 JETPORT BAGGAGE ADDITION
 PORTLAND, MAINE
 RWG&A PROJECT NO. 438-05

Client: Doughty & Associates, Inc.
 Test Date: September 22, 2004
 Technician: Peter Callahan
 Gauge Model/Serial Number: Seamans L-500

Report Issue Date: SEP 30 2004

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|---------|------------------|---------------------------|-----------------------------|
| Lab No. | Soil Description | ASTM D1557 Max-Density | ASTM D1557 Opt. Moisture |
| 7212 | Type D Gravel | 133.7 | 6 |

| Test No. | Location | Elevation | ASTM D2922 Dry Density (pcf) | ASTM D3017 Water Content (%) | Percent of Max. (%) | Lab. No. |
|----------|-----------------------------|-----------|------------------------------------|------------------------------------|------------------------|-------------|
| 1 | W+10'S, 48.5+5'W | TOW-2.5' | 132.0 | 3 | 99 | 7212 |
| 2 | 5+10'N, 48.5+5'W | TOW-2.5' | 128.2 | 4 | 96 | 7212 |
| 3 | (Exterior) W+10'S, 48.5+5'E | TOW-2.5' | 126.9 | 5 | 95 | 7212 |
| 4 | (Exterior) 5+10'N, 48.5+5'E | TOW-2.5' | 127.0 | 4 | 95 | 7212 |
| 5 | W+10'S, 48.5+5'W | TOW-1' | 126.7 | 3 | 95 | 7212 |
| 6 | 5+10'N, 48.5+5'W | TOW-1' | 129.2 | 3 | 97 | 7212 |
| 7 | (Exterior) V, 48.5 + 5'E | TOW-1' | 129.6 | 5 | 97 | 7212 |
| 8 | V, 48.5+5'W | TOW-1' | 128.9 | 3 | 96 | 7212 |
| 9 | S, 48+5'N | TOW-3' | 131.9 | 4 | 99 | 7212 |
| 10 | S, 44+5'N | TOW-4' | 128.8 | 3 | 96 | 7212 |
| 11 | T-15'S, 43+5'E | TOW-4' | 127.4 | 4 | 95 | 7212 |
| 12 | S, 48+5'N | TOW-1.5' | 127.7 | 3 | 96 | 7212 |
| 13 | S, 44+5'N | TOW-1.5' | 127.3 | 3 | 95 | 7212 |
| 14 | T-15'S, 43+5'E | TOW-1.5' | 128.6 | 3 | 96 | 7212 |
| 15 | S, 48+5'N | TOW-6" | 127.8 | 3 | 96 | 7212 |
| 16 | S, 44+5'N | TOW-6" | 129.4 | 3 | 97 | 7212 |
| 17 | T-15'S, 43+5'E | TOW-6" | 128.2 | 3 | 96 | 7212 |

Remarks: TOW = Top of Wall

Checked by: *Matthew S. Dwyer*

SUMMARY OF IN-PLACE DENSITIES - ASTM D2922/D3017

JETPORT BAGGAGE ADDITION

PORTLAND, MAINE

RWG&A PROJECT NO. 438-05

Client: Doughty & Associates, Inc.

Test Date: September 24, 2004

Technician: Peter Callahan

Gauge Model/Serial Number: Seamans L-500

Report Issue Date: SEP 30 2004

| | | | |
|---------|------------------|---------------------------|-----------------------------|
| Lab No. | Soil Description | ASTM D1557 Max Density | ASTM D1557 Opt. Moisture |
| 7212 | Type D Gravel | 133.7 | 6 |

| Test No. | Location | Elevation | ASTM D2922 Dry Density (pcf) | ASTM D3017 Water Content (%) | Percent of Max. (%) | Lab. No. |
|----------|-------------------------------|-----------|------------------------------------|------------------------------------|------------------------|-------------|
| 1 | S+10'N, Line 43 | TOW-2.5' | 126.9 | 3 | 95 | 7212 |
| 2 | S+5'S, Line 44 | TOW-2.5' | 126.4 | 4 | 95 | 7212 |
| 3 | S+5'S, Line 47+5'E | TOW-2.5' | 131.0 | 3 | 98 | 7212 |
| 4 | S+10'N, Line 43 | TOW-1.5' | 131.1 | 3 | 98 | 7212 |
| 5 | S+5'S, Line 44 | TOW-1.5' | 126.5 | 3 | 95 | 7212 |
| 6 | S+5'S, Line 47+5'E | TOW-1.5' | 129.8 | 3 | 97 | 7212 |
| 7 | S+10'N, Line 43 | TOW-.5' | 129.0 | 2 | 97 | 7212 |
| 8 | S+5'S, Line 44 | TOW-.5' | 127.1 | 3 | 95 | 7212 |
| 9 | S+5'S, Line 47+5'E | TOW-.5' | 128.6 | 3 | 96 | 7212 |
| 10 | Interior, 43+5'E, Line 5+10'N | TOW-2' | 127.1 | 2 | 95 | 7212 |

Remarks: TOW = Top of Wall

Checked by: 