

**R. W. Gillespie & Associates, Inc.**

86 Industrial Park Road, Suite 4, Saco, ME 04072 207-286-8008  
200 International Drive, Suite 170, Portsmouth, NH 03801 603-427-0244

**LETTER OF TRANSMITTAL**

City of Portland, Portland Int. Jetport  
1001 Westbrook Street  
Portland, Maine 04102

|   |                        |
|---|------------------------|
| Date:<br>December 10, 2010  | Project No.:<br>557-14 |
| Attention:<br>Mr. Cuyler Feagles (cmf@portlandmaine.gov)                                      |                        |
| Re:<br><br>Concrete Testing<br>Terminal Enhancement, Portland Int. Jetport<br>Portland, Maine |                        |

We are sending you attached concrete cylinder test results.

| Cylinder No. (s) | Age (Days) |
|------------------|------------|
| 67772            | 28         |
| 67773            | 28         |
| 67776            | 28         |
| 67777            | 28         |
| 67780            | 28         |
| 67781            | 28         |
| 67784            | 28         |
| 67785            | 28         |
| 67788            | 28         |
| 67789            | 28         |
| 67792            | 28         |
| 67793            | 28         |

**Remarks:**

Copy To:  
Roy Williams: rsw@portlandmaine.gov  
Jim Stanislaski: jim\_stanislaski@gensler.com  
Cliff Takara: clifford\_takara@gensler.com  
Lacey Fogg: Lacey.Fogg@amec.com  
Mike Fusco: mfusco@tcco.com  
Shaun Winner: swinner@tcco.com  
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Elizabeth O'Toole: eotoole@tcco.com  
TMM@portlandmaine.gov  
ldobson@portlandmaine.gov  
rdixon@tcco.com  
gemitchell@tcco.com  
Remi Delcourt (remi@auburnconcrete.com)  
Jeff Evans, Amec (jeff.evans@amec.com)

Signed: Bertha Dawn

If enclosures are not as noted, kindly notify us at once.

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 200 International Drive, Suite 170, Portsmouth, NH 03801 603-427-0244  
**CONCRETE TEST/PLACEMENT REPORT**

**Project Name:** Terminal Enhancement, Portland Int. Jetport  
**Project No:** 557-14  
**Weather Conditions:** Clear, Cool  
**Method of Placement:** Pump  
**Admixtures:** Mid Range Water Reducer, Pozzutec  
**Placement Location:** Slab on Grade - Section 2-3b  
**Test Cylinder Location:** See Attached Sketch

**Date Cylinders Cast:** 12-Nov-10  
**Concrete Supplier:** Auburn  
**General Contractor:** Turner  
**Design Strength:** 3,000  
**Max Agg. Size:** 3/8

**Date Report Issued:**

DEC 10 2010

|               |        |                            |                  |            |      |
|---------------|--------|----------------------------|------------------|------------|------|
| 4x8 Cylinders | 4      | Cast by                    | Erik E. Cohenour | Time       |      |
| Load No.      | 2      | Slump (in) ASTM C 143      | 3.0              | Batched @  | 6:55 |
| Ticket No.    | 180430 | Air (°F)                   | 42               | Arrived @  | --   |
| Truck No.     | 98     | Concrete (°F) ASTM C 1064  | 65               | Total Time | --   |
| Cubic Yds.    | 10     | Air Content (%) ASTM C 231 | 4.2              |            |      |

\*Concrete sampled by ASTM C 172

**Specimen Storage ASTM C 31: Field cure days: 3**  
**Date received 15-Nov-10**  
**Condition of Cylinders: Good**

| Lab No. | Test Date | Avg Dia (in) | Area (in <sup>2</sup> ) | Age (Days) | Load (lbs) | Compressive Strength (psi) | Break type |
|---------|-----------|--------------|-------------------------|------------|------------|----------------------------|------------|
| 67771   | 19-Nov-10 | 4.008        | 12.62                   | 7          | 58,440     | 4630                       | 2          |
| 67772   | 10-Dec-10 | 4.009        | 12.62                   | 28         | 72,120     | 5710                       | 5          |
| 67773   | 10-Dec-10 | 4.009        | 12.62                   | 28         | 71,020     | 5630                       | 2          |
| 67774   | HOLD      |              |                         | HOLD       |            |                            |            |

\*Concrete compressive strength by ASTM C 39

### Types of Breaks



Cone  
1



Cone & Split  
2



Columnar  
3



Shear  
4



Side Fracture  
5



Double Side Fracture  
6

| Load | Ticket Number | Truck Number | Cubic Yds | Slump (inches) | Air Temp (°F) | Conc Temp (°F) | (%) Air Content | Time (min.) |
|------|---------------|--------------|-----------|----------------|---------------|----------------|-----------------|-------------|
| 1    | 180429        | 76           | 10        | --             | --            | --             | --              | --          |
| 3    | 180432        | 118          | 10        | --             | --            | --             | --              | --          |
| 4    | 180436        | 84           | 10        | --             | --            | --             | --              | --          |
|      |               |              |           |                |               |                |                 |             |
|      |               |              |           |                |               |                |                 |             |
|      |               |              |           |                |               |                |                 |             |

**Remarks:** Total loads = 8  
 Curing Temperatures: Max = 75°, Min = 48°

Checked by: *Matthew T. Grady*  
 For Matthew T. Grady, Manager of MTS

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## CONCRETE TEST/PLACEMENT REPORT

|                                |   |                             |           |
|--------------------------------|---|-----------------------------|-----------|
| <b>Project Name:</b>           | Terminal Enhancement, Portland Int. Jetport | <b>Date Cylinders Cast:</b> | 12-Nov-10 |
| <b>Project No:</b>             | 557-14                                      | <b>Concrete Supplier:</b>   | Auburn    |
| <b>Weather Conditions:</b>     | Clear, Cool                                 | <b>General Contractor:</b>  | Turner    |
| <b>Method of Placement:</b>    | Pump  | <b>Design Strength:</b>     | 3,000     |
| <b>Admixtures:</b>             | Mid Range Water Reducer, Pozzotec           | <b>Max Agg. Size:</b>       | 3/8       |
| <b>Placement Location:</b>     | Slab on Grade - Section 2-3b                |                             |           |
| <b>Test Cylinder Location:</b> | See Attached Sketch                         |                             |           |

**Date Report Issued:** **DEC 10 2010**

|               |        |                            |                  |      |            |    |
|---------------|--------|----------------------------|------------------|------|------------|----|
| 4x8 Cylinders | 4      | Cast by                    | Erik E. Cohenour |      |            |    |
| Load No.      | 6      | Slump (in) ASTM C 143      | 4.0              | Time | Batched @  | -- |
| Ticket No.    | 180441 | Air (°F)                   | 45               |      | Arrived @  | -- |
| Truck No.     | 118    | Concrete (°F) ASTM C 1064  | 67               |      | Total Time | -- |
| Cubic Yds.    | 10     | Air Content (%) ASTM C 231 | 3.9              |      |            |    |
|               |        |                            |                  |      |            |    |

\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 3  
 Date received 15-Nov-10  
 Condition of Cylinders: Good

| Lab No. | Test Date | Avg Dia (in) | Area (in <sup>2</sup> ) | Age (Days) | Load (lbs) | Compressive Strength (psi) | Break type |
|---------|-----------|--------------|-------------------------|------------|------------|----------------------------|------------|
| 67775   | 19-Nov-10 | 4.008        | 12.62                   | 7          | 60,880     | 4820                       | 2          |
| 67776   | 10-Dec-10 | 4.009        | 12.62                   | 28         | 64,560     | 5120                       | 5          |
| 67777   | 10-Dec-10 | 4.009        | 12.62                   | 28         | 70,440     | 5580                       | 2          |
| 67778   | HOLD      |              |                         | HOLD       |            |                            |            |

\*Concrete compressive strength by ASTM C 39

### Types of Breaks



Cone  
1



Cone & Split  
2



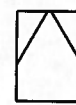
Columnar  
3



Shear  
4



Side Fracture  
5



Double Side  
Fracture  
6

| Load | Ticket Number | Truck Number | Cubic Yds | Slump (inches) | Air Temp (°F) | Conc Temp (°F) | (%) Air Content | Time (min.) |
|------|---------------|--------------|-----------|----------------|---------------|----------------|-----------------|-------------|
| 5    | --            | --           | 10        | --             | --            | --             | --              | --          |
| 7    | --            | --           | 10        | --             | --            | --             | --              | --          |
| 8    | --            | --           | 10        | --             | --            | --             | --              | --          |
|      |               |              |           |                |               |                |                 |             |
|      |               |              |           |                |               |                |                 |             |
|      |               |              |           |                |               |                |                 |             |

**Remarks:** Total loads = 8  
 Curing Temperatures: Max = 75°, Min = 48°

Checked by: Jon C. Hennessey  
 FOR Matthew T. Grady, Manager of MTS



|          |                         |     |     |
|----------|-------------------------|-----|-----|
| DATE     | DESCRIPTION             | BY  | CHK |
| 11/12/10 | REVISED                 | EEC |     |
| 11/12/10 | ISSUED FOR PERMIT       | EEC |     |
| 11/12/10 | ISSUED FOR CONSTRUCTION | EEC |     |
| 11/12/10 | ISSUED FOR RECORD       | EEC |     |
| 11/12/10 | ISSUED FOR AS-BUILT     | EEC |     |
| 11/12/10 | ISSUED FOR FINAL        | EEC |     |
| 11/12/10 | ISSUED FOR ARCHIVE      | EEC |     |

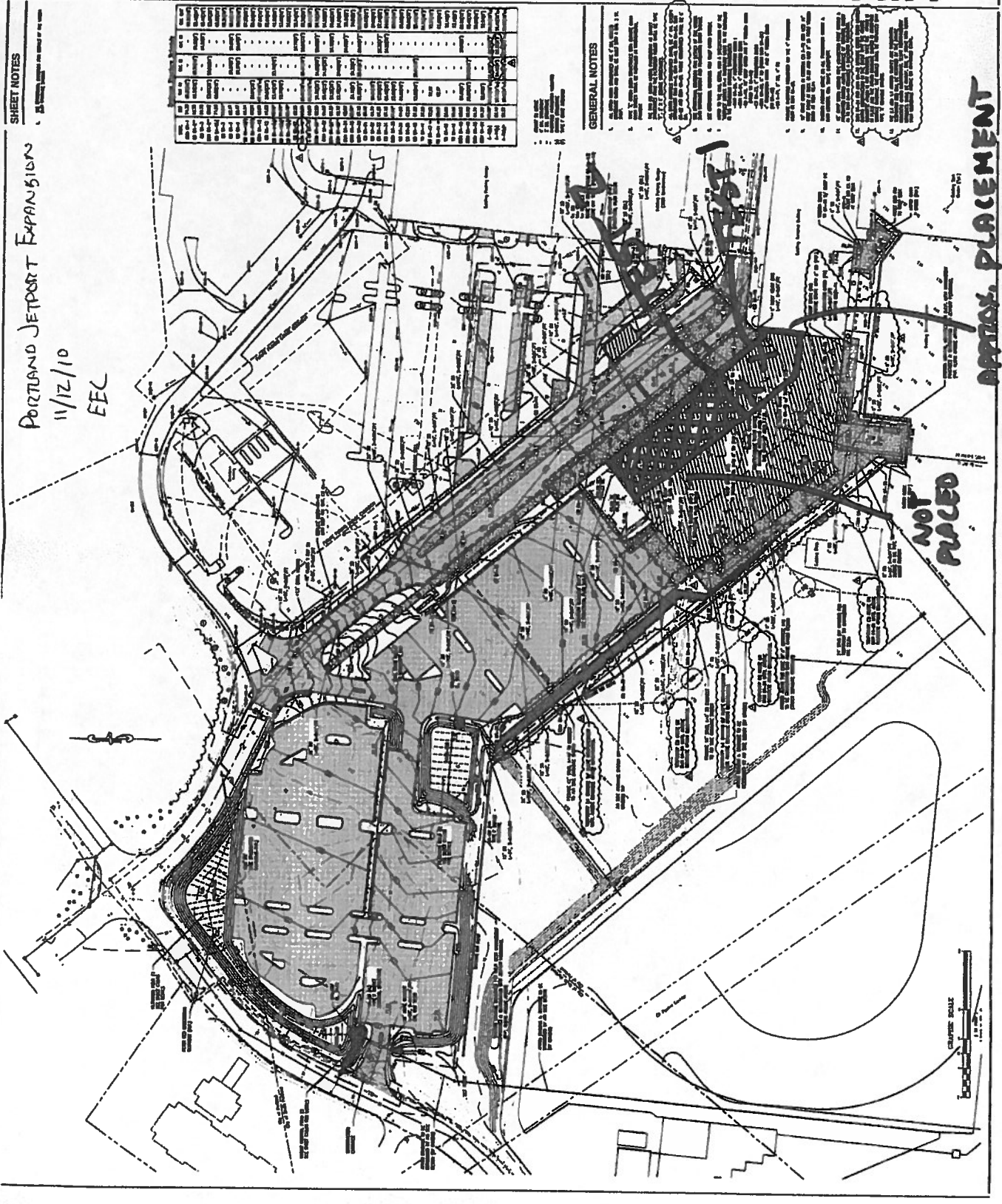
**NOT PLACED**

**APPROX. PLACEMENT**

SCALE: 1/4" = 1'-0"

C02.02

PORTLAND JETPORT EXPANSION  
11/12/10  
EEC



| NO. | DESCRIPTION             | DATE     |
|-----|-------------------------|----------|
| 1   | ISSUED FOR PERMIT       | 11/12/10 |
| 2   | ISSUED FOR CONSTRUCTION | 11/12/10 |
| 3   | ISSUED FOR RECORD       | 11/12/10 |
| 4   | ISSUED FOR AS-BUILT     | 11/12/10 |
| 5   | ISSUED FOR FINAL        | 11/12/10 |
| 6   | ISSUED FOR ARCHIVE      | 11/12/10 |

- GENERAL NOTES**
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, SEVENTH EDITION, WITH 2003 SUPPLEMENTS, AND THE STANDARD SPECIFICATIONS FOR PORTLAND CEMENT CONCRETE, SEVENTH EDITION, WITH 2003 SUPPLEMENTS, BOTH PUBLISHED BY THE PORTLAND CEMENT ASSOCIATION.
  2. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR AIRPORT CONSTRUCTION, SEVENTH EDITION, WITH 2003 SUPPLEMENTS, PUBLISHED BY THE PORTLAND CEMENT ASSOCIATION.
  3. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR AIRPORT CONSTRUCTION, SEVENTH EDITION, WITH 2003 SUPPLEMENTS, PUBLISHED BY THE PORTLAND CEMENT ASSOCIATION.
  4. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR AIRPORT CONSTRUCTION, SEVENTH EDITION, WITH 2003 SUPPLEMENTS, PUBLISHED BY THE PORTLAND CEMENT ASSOCIATION.
  5. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR AIRPORT CONSTRUCTION, SEVENTH EDITION, WITH 2003 SUPPLEMENTS, PUBLISHED BY THE PORTLAND CEMENT ASSOCIATION.
  6. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR AIRPORT CONSTRUCTION, SEVENTH EDITION, WITH 2003 SUPPLEMENTS, PUBLISHED BY THE PORTLAND CEMENT ASSOCIATION.

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## CONCRETE TEST/PLACEMENT REPORT

**Project Name:** Terminal Enhancement, Portland Int. Jetport  
**Project No:** 557-14  
**Weather Conditions:** Sunny  
**Method of Placement:** Rear Discharge  
**Admixtures:** 1% Pozzutec 20, Mid Range Water Reducer  
**Placement Location:** Lower Lot Sidewalks  
**Test Cylinder Location:** See Attached Sketch

**Date Cylinders Cast:** 12-Nov-10  
**Concrete Supplier:** Auburn  
**General Contractor:** Turner  
**Design Strength:** 4,500  
**Max Agg. Size:** 3/4

**Date Report Issued:** DEC 10 2010

|               |        |                            |                  |            |       |
|---------------|--------|----------------------------|------------------|------------|-------|
| 4x8 Cylinders | 4      | Cast by                    | Erik E. Cohenour | Time       |       |
| Load No.      | 2      | Slump (in) ASTM C 143      | 6.0              | Batched @  | 11:21 |
| Ticket No.    | 179233 | Air (%F)                   | 47               | Arrived @  | 11:46 |
| Truck No.     | 86     | Concrete (°F) ASTM C 1064  | 58               | Total Time | --    |
| Cubic Yds.    | 10     | Air Content (%) ASTM C 231 | 7.8              |            |       |

\*Concrete sampled by ASTM C 172

**Specimen Storage ASTM C 31: Field cure days: 3**  
**Date received 15-Nov-10**  
**Condition of Cylinders: Good**

| Lab No. | Test Date | Avg Dia (in) | Area (in <sup>2</sup> ) | Age (Days) | Load (lbs) | Compressive Strength (psi) | Break type |
|---------|-----------|--------------|-------------------------|------------|------------|----------------------------|------------|
| 67779   | 19-Nov-10 | 4.008        | 12.62                   | 7          | 48,160     | 3820                       | 2          |
| 67780   | 10-Dec-10 | 4.009        | 12.62                   | 28         | 68,240     | 5410                       | 2          |
| 67781   | 10-Dec-10 | 4.009        | 12.62                   | 28         | 70,920     | 5620                       | 2          |
| 67782   | HOLD      |              |                         | HOLD       |            |                            |            |

\*Concrete compressive strength by ASTM C 39

### Types of Breaks



Cone  
1



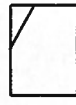
Cone & Split  
2



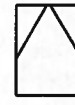
Columnar  
3



Shear  
4



Side Fracture  
5



Double Side Fracture  
6

| Load | Ticket Number | Truck Number | Cubic Yds | Slump (inches) | Air Temp (°F) | Conc Temp (°F) | (%) Air Content | Time (min.) |
|------|---------------|--------------|-----------|----------------|---------------|----------------|-----------------|-------------|
| 1    | 179232        | 86           | 10        | --             | 47            | --             | --              | 105±        |
| 3    | --            | --           | --        | --             | --            | --             | --              | --          |
|      |               |              |           |                |               |                |                 |             |
|      |               |              |           |                |               |                |                 |             |
|      |               |              |           |                |               |                |                 |             |
|      |               |              |           |                |               |                |                 |             |

Remarks:

Checked by: Don C. Manning  
 For Matthew T. Grady, Manager of MTS



**PORTLAND JETPORT EXPANSION SHEET NOTES**

PORTLAND JETPORT EXPANSION  
 11/12/10  
 EEC

Portland International  
 Jetport  
 1501 Westwood Street  
 Portland, Maine 04112

**Gensler**

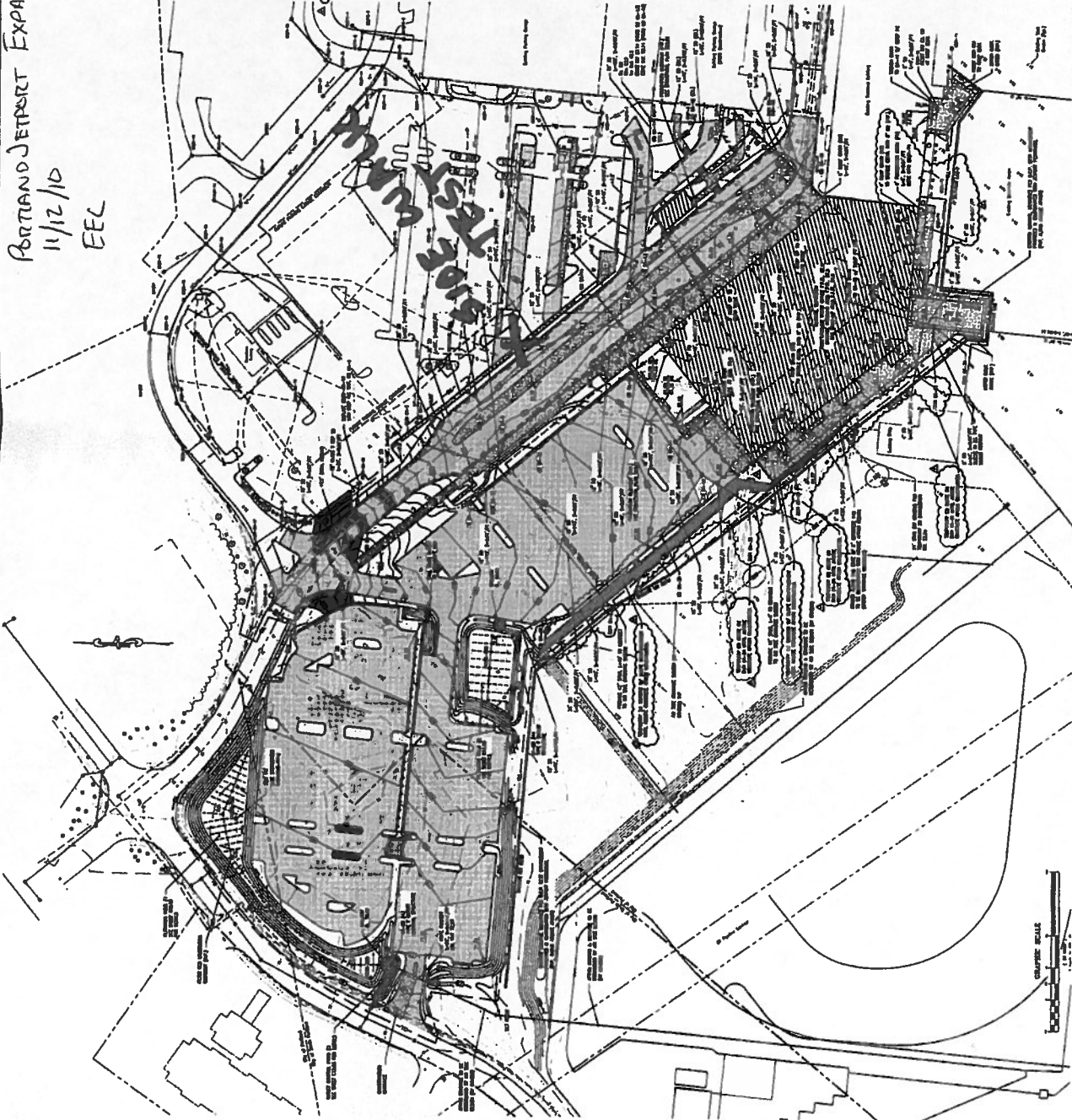
**mesa** ASSOCIATES, INC.

ARCHITECTS  
 ENGINEERS  
 PLANNERS

| NO. | DESCRIPTION       | DATE     | BY  | CHECKED |
|-----|-------------------|----------|-----|---------|
| 1   | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 2   | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 3   | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 4   | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 5   | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 6   | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 7   | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 8   | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 9   | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 10  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 11  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 12  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 13  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 14  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 15  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 16  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 17  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 18  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 19  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 20  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 21  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 22  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 23  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 24  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 25  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 26  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 27  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 28  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 29  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 30  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 31  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 32  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 33  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 34  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 35  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 36  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 37  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 38  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 39  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 40  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 41  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 42  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 43  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 44  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 45  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 46  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 47  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 48  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 49  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |
| 50  | ISSUED FOR PERMIT | 11/12/10 | EEC |         |

**GENERAL NOTES**

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL BUILDING CODE (IBC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARDOUS LIQUID HANDLING CODE (NFPA 30).
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL MECHANICAL CODE (IMC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARDOUS LIQUID HANDLING CODE (NFPA 30).
3. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL PLUMBING AND MECHANICAL CODE (IPMC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARDOUS LIQUID HANDLING CODE (NFPA 30).
4. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL ELECTRICAL CODE (IEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARDOUS LIQUID HANDLING CODE (NFPA 30).
5. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL MECHANICAL CODE (IMC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARDOUS LIQUID HANDLING CODE (NFPA 30).
6. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL PLUMBING AND MECHANICAL CODE (IPMC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARDOUS LIQUID HANDLING CODE (NFPA 30).
7. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL ELECTRICAL CODE (IEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARDOUS LIQUID HANDLING CODE (NFPA 30).
8. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL MECHANICAL CODE (IMC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARDOUS LIQUID HANDLING CODE (NFPA 30).
9. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL PLUMBING AND MECHANICAL CODE (IPMC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARDOUS LIQUID HANDLING CODE (NFPA 30).
10. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL ELECTRICAL CODE (IEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARDOUS LIQUID HANDLING CODE (NFPA 30).



C02.02

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 200 International Drive, Suite 170, Portsmouth, NH 03801 603-427-0244

## CONCRETE TEST/PLACEMENT REPORT

**Project Name:** Terminal Enhancement, Portland Int. Jetport  
**Project No:** 557-14  
**Weather Conditions:** Sunny  
**Method of Placement:** Pump  
**Admixtures:** Mid Range Water Reducer, 1% Pozzutec 20+  
**Placement Location:** Slab 5-2  
**Test Cylinder Location:** See Attached Sketch

**Date Cylinders Cast:** 12-Nov-10  
**Concrete Supplier:** Auburn  
**General Contractor:** Turner  
**Design Strength:** 3,500  
**Max Agg. Size:** 3/8

**Date Report Issued:**

DEC 10 2010

|               |    |                            |                     |            |
|---------------|----|----------------------------|---------------------|------------|
| 4x8 Cylinders | 4  | Cast by                    | Michael J. Kramlich | Time       |
| Load No.      | 2  | Slump (in) ASTM C 143      | 5.75                | Batched @  |
| Ticket No.    | -- | Air (°F)                   | 58                  | Arrived @  |
| Truck No.     | -- | Concrete (°F) ASTM C 1064  | 63                  | Total Time |
| Cubic Yds.    | 10 | Air Content (%) ASTM C 231 | 3.5                 |            |

\*Concrete sampled by ASTM C 172

**Specimen Storage ASTM C 31: Field cure days: 3**  
**Date received 15-Nov-10**  
**Condition of Cylinders: Good**

| Lab No. | Test Date | Avg Dia (in) | Area (in <sup>2</sup> ) | Age (Days) | Load (lbs) | Compressive Strength (psi) | Break type |
|---------|-----------|--------------|-------------------------|------------|------------|----------------------------|------------|
| 67783   | 19-Nov-10 | 4.008        | 12.62                   | 7          | 36,680     | 2910                       | 5          |
| 67784   | 10-Dec-10 | 4.009        | 12.62                   | 28         | 53,200     | 4220                       | 5          |
| 67785   | 10-Dec-10 | 4.009        | 12.62                   | 28         | 49,780     | 3940                       | 6          |
| 67786   | HOLD      |              |                         | HOLD       |            |                            |            |

\*Concrete compressive strength by ASTM C 39

### Types of Breaks



Cone  
1



Cone & Split  
2



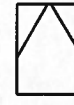
Columnar  
3



Shear  
4



Side Fracture  
5



Double Side Fracture  
6

| Load | Ticket Number | Truck Number | Cubic Yds | Slump (inches) | Air Temp (°F) | Conc Temp (°F) | (%) Air Content | Time (min.) |
|------|---------------|--------------|-----------|----------------|---------------|----------------|-----------------|-------------|
| 1    | --            | --           | 10        | --             | --            | --             | --              | --          |
| 3    | --            | --           | 10        | --             | --            | --             | --              | --          |
| 4    | --            | --           | 10        | --             | --            | --             | --              | --          |
| 5    | --            | --           | 10        | --             | --            | --             | --              | --          |
|      |               |              |           |                |               |                |                 |             |
|      |               |              |           |                |               |                |                 |             |

**Remarks:** Total loads = 13  
 Lightweight concrete.  
 Curing Temperatures: Max = 75°, Min = 48°  
 Unit Weight: 121.6 pcf.

Checked by: Matthew T. Grady  
 MTR Matthew T. Grady, Manager of MTS

# R. W. GILLESPIE & ASSOCIATES, INC.

86 Industrial Park Road, Suite 4, Saco, ME 04072 207-286-8008  
 200 International Drive, Suite 170, Portsmouth, NH 03801 603-427-0244

## CONCRETE TEST/PLACEMENT REPORT

|                                |   |                             |           |
|--------------------------------|---|-----------------------------|-----------|
| <b>Project Name:</b>           | Terminal Enhancement, Portland Int. Jetport | <b>Date Cylinders Cast:</b> | 12-Nov-10 |
| <b>Project No:</b>             | 557-14                                      | <b>Concrete Supplier:</b>   | Auburn    |
| <b>Weather Conditions:</b>     | Sunny                                       | <b>General Contractor:</b>  | Turner    |
| <b>Method of Placement:</b>    | Pump  | <b>Design Strength:</b>     | 3,500     |
| <b>Admixtures:</b>             | Mid Range Water Reducer, 1% Pozzutec 20+    | <b>Max Agg. Size:</b>       | 3/8       |
| <b>Placement Location:</b>     | Slab 5-2                                    |                             |           |
| <b>Test Cylinder Location:</b> | See Attached Sketch                         |                             |           |

**Date Report Issued:** **DEC 10 2010**

|               |    |                            |                     |            |    |
|---------------|----|----------------------------|---------------------|------------|----|
| 4x8 Cylinders | 4  | Cast by                    | Michael J. Kramlich | Time       |    |
| Load No.      | 6  | Slump (in) ASTM C 143      | 8.0                 | Batched @  | -- |
| Ticket No.    | -- | Air (°F)                   | 58                  | Arrived @  | -- |
| Truck No.     | -- | Concrete (°F) ASTM C 1064  | 62                  | Total Time | -- |
| Cubic Yds.    | 10 | Air Content (%) ASTM C 231 | 3.75                |            |    |

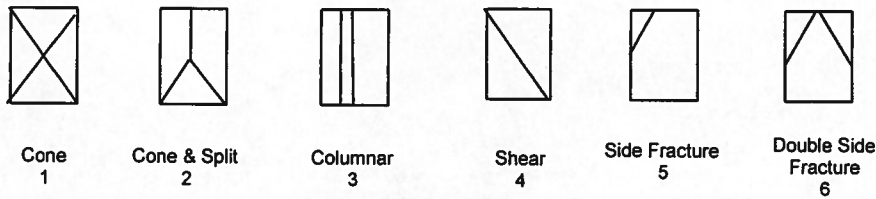
\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 3  
 Date received 15-Nov-10  
 Condition of Cylinders: Good

| Lab No. | Test Date | Avg Dia (in) | Area (in <sup>2</sup> ) | Age (Days) | Load (lbs) | Compressive Strength (psi) | Break type |
|---------|-----------|--------------|-------------------------|------------|------------|----------------------------|------------|
| 67787   | 19-Nov-10 | 4.008        | 12.62                   | 7          | 46,480     | 3680                       | 5          |
| 67788   | 10-Dec-10 | 4.009        | 12.62                   | 28         | 58,340     | 4620                       | 2          |
| 67789   | 10-Dec-10 | 4.009        | 12.62                   | 28         | 60,900     | 4830                       | 5          |
| 67790   | HOLD      |              |                         | HOLD       |            |                            |            |

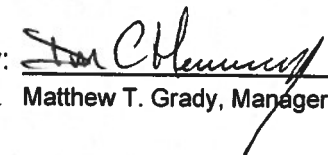
\*Concrete compressive strength by ASTM C 39

### Types of Breaks



| Load | Ticket Number | Truck Number | Cubic Yds | Slump (inches) | Air Temp (°F) | Conc Temp (°F) | (%) Air Content | Time (min.) |
|------|---------------|--------------|-----------|----------------|---------------|----------------|-----------------|-------------|
| 7    | --            | --           | 10        | --             | --            | --             | --              | --          |
| 8    | --            | --           | 10        | --             | --            | --             | --              | --          |
| 9    | --            | --           | 10        | --             | --            | --             | --              | --          |
| 10   | --            | --           | 10        | --             | --            | --             | --              | --          |
|      |               |              |           |                |               |                |                 |             |
|      |               |              |           |                |               |                |                 |             |

**Remarks:** Total loads = 13  
 Lightweight concrete.  
 Curing Temperatures: Max = 75°, Min = 48°  
 Unit Weight: 122.2 pcf.

Checked by:   
 For Matthew T. Grady, Manager of MTS



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## CONCRETE TEST/PLACEMENT REPORT

|                                |   |                             |           |
|--------------------------------|---|-----------------------------|-----------|
| <b>Project Name:</b>           | Terminal Enhancement, Portland Int. Jetport | <b>Date Cylinders Cast:</b> | 12-Nov-10 |
| <b>Project No:</b>             | 557-14                                      | <b>Concrete Supplier:</b>   | Auburn    |
| <b>Weather Conditions:</b>     | Sunny                                       | <b>General Contractor:</b>  | Turner    |
| <b>Method of Placement:</b>    | Pump  | <b>Design Strength:</b>     | 3,500     |
| <b>Admixtures:</b>             | Mid Range Water Reducer, 1% Pozzutec 20+    | <b>Max Agg. Size:</b>       | 3/8       |
| <b>Placement Location:</b>     | Slab 5-2                                    |                             |           |
| <b>Test Cylinder Location:</b> | See Attached Sketch                         |                             |           |

**Date Report Issued: DEC 10 2010**

|               |    |                            |                     |            |      |
|---------------|----|----------------------------|---------------------|------------|------|
| 4x8 Cylinders | 4  | Cast by                    | Michael J. Kramlich | Time       |      |
| Load No.      | 11 | Slump (in) ASTM C 143      | 4.25                | Batched @  | --   |
| Ticket No.    | -- | Air (°F)                   | 54                  | Arrived @  | 2:50 |
| Truck No.     | -- | Concrete (°F) ASTM C 1064  | 63                  | Total Time | --   |
| Cubic Yds.    | 10 | Air Content (%) ASTM C 231 | 3.75                |            |      |

\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 3  
 Date received 15-Nov-10  
 Condition of Cylinders: Good

| Lab No. | Test Date | Avg Dia (in) | Area (in <sup>2</sup> ) | Age (Days) | Load (lbs) | Compressive Strength (psi) | Break type |
|---------|-----------|--------------|-------------------------|------------|------------|----------------------------|------------|
| 67791   | 19-Nov-10 | 4.008        | 12.62                   | 7          | 47,680     | 3780                       | 5          |
| 67792   | 10-Dec-10 | 4.009        | 12.62                   | 28         | 59,980     | 4750                       | 2          |
| 67793   | 10-Dec-10 | 4.009        | 12.62                   | 28         | 60,940     | 4830                       | 5          |
| 67794   | HOLD      |              |                         | HOLD       |            |                            |            |

\*Concrete compressive strength by ASTM C 39

### Types of Breaks



Cone  
1



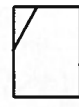
Cone & Split  
2



Columnar  
3



Shear  
4



Side Fracture  
5



Double Side  
Fracture  
6

| Load | Ticket Number | Truck Number | Cubic Yds | Slump (inches) | Air Temp (°F) | Conc Temp (°F) | (%) Air Content | Time (min.) |
|------|---------------|--------------|-----------|----------------|---------------|----------------|-----------------|-------------|
| 12   | --            | --           | 10        | --             | --            | --             | --              | --          |
| 13   | --            | --           | 10        | --             | --            | --             | --              | --          |
|      |               |              |           |                |               |                |                 |             |
|      |               |              |           |                |               |                |                 |             |
|      |               |              |           |                |               |                |                 |             |
|      |               |              |           |                |               |                |                 |             |
|      |               |              |           |                |               |                |                 |             |

Remarks: Total loads = 13  
 Lightweight concrete.  
 Curing Temperatures: Max = 75°, Min = 48°  
 Unit Weight: 121.8 pcf.

Checked by: *Matthew T. Grady*  
 For Matthew T. Grady, Manager of MTS

LONG

SLAB-ON-DECK  
130 CY LIGHTWEIGHT

Level 5

PORTLAND INT'L AIRPORT  
TERMINAL EXPANSION

587-14

1/2/2010

15K

