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

Date:	Project No.:
October 1, 2010	557-14
Attention: Mr. Cuyler Feagles (cmf@portlandmaine.gov)	
Re: Concrete Testing Terminal Enhancement, Portland Int. Jetport Portland, Maine	

City of Portland, Portand Int. Jetport

1001 Westbrook Street

Portland, Maine 04102

We are sending you attached concrete cylinder test results.

Cylinder No. (s)	Age (Days)
67206	7
67212	7
67217	7
67221	7
67225	7
67229	7
67223	7
67237	7

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
Phil Coleman: pcoleman@tcco.com
Elizabeth O'Toole: eotoole@tcco.com
TMM@portlandmaine.gov
ldobson@portlandmaine.gov
rdixon@tcco.com
gemitchell@tcco.com
Remi Delcourt (remi@auburnconcrete.com)

Signed: Bertha Dawn

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

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

Project Name: Terminal Enhancement, Portland Int. Jetport
Project No: 557-14
Weather Conditions: Overcast
Method of Placement: Pump
Admixtures: Mid Range Water Reducer
Placement Location: Lightweight slab on deck - 3rd floor (1 & 2); Normal weight slab on grade - ground floor (3 - 8)
Test Cylinder Location: See attached sketch

Date Cylinders Cast: 24-Sep-10
Concrete Supplier: Auburn
General Contractor: Turner
Design Strength: 3,500
Max Agg. Size: 3/8

Date Report Issued: OCT 0 4 2010

4x8 Cylinders	6	Cast by	Erik E. Cohenour	Time	
Load No.	2	Slump (in) ASTM C 143	5	Batched @	7:18
Ticket No.	180874	Air (°F)	59	Arrived @	--
Truck No.	97	Concrete (°F) ASTM C 1064	70	Total Time	60
Cubic Yds.	10	Air Content (%) ASTM C 231	4.0		

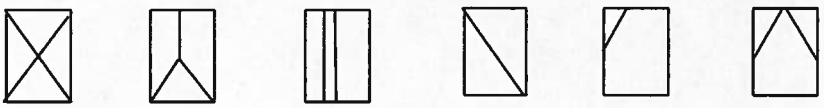
*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 3
Date received 27-Sep-10
Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67205	27-Sep-10	4.012	12.64	3	38,900	3080	2
67206	01-Oct-10	4.018	12.68	7	48,020	3790	2
67207	22-Oct-10			28			
67208	22-Oct-10			28			
67209	HOLD			HOLD			
67210	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	180870	86	10	--	57	--	--	40
3	180876	98	10	--	--	--	--	--
4	180877	106	10	--	--	--	--	--
5	180878	100	10	--	--	--	--	--

Remarks: 7 Total Loads lightweight, Unit Weight = 123.2 pcf
30 Total Loads normal weight
Curing Temperatures: Max = 79°, Min = 56°

Checked by: 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

Project Name: Terminal Enhancement, Portland Int. Jetport
Project No: 557-14
Weather Conditions: Overcast
Method of Placement: Pump
Admixtures: Mid Range Water Reducer
Placement Location: Lightweight slab on deck - 3rd floor (1 & 2); Normal weight slab on grade - ground floor (3 - 8)
Test Cylinder Location: See attached sketch

Date Cylinders Cast: 24-Sep-10
Concrete Supplier: Auburn
General Contractor: Turner
Design Strength: 3,500
Max Agg. Size: 3/8
Date Report Issued: OCT 0 4 2010

4x8 Cylinders	6	Cast by	Erik E. Cohenour	Time	
Load No.	6	Slump (in) ASTM C 143	8	Batched @	8:00
Ticket No.	180879	Air (°F)	60	Arrived @	8:20
Truck No.	101	Concrete (°F) ASTM C 1064	72	Total Time	40
Cubic Yds.	10	Air Content (%) ASTM C 231	3.25		

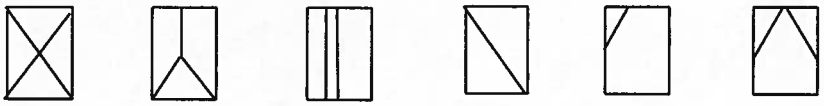
*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 3
Date received 27-Sep-10
Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67211	27-Sep-10	4.015	12.66	3	29,900	2360	5
67212	01-Oct-10	4.018	12.68	7	40,680	3210	2
67213	22-Oct-10			28			
67214	22-Oct-10			28			
67215	HOLD			HOLD			
67216	HOLD			HOLD			

*Concrete compressive strength by ASTM C 39

Types of Breaks

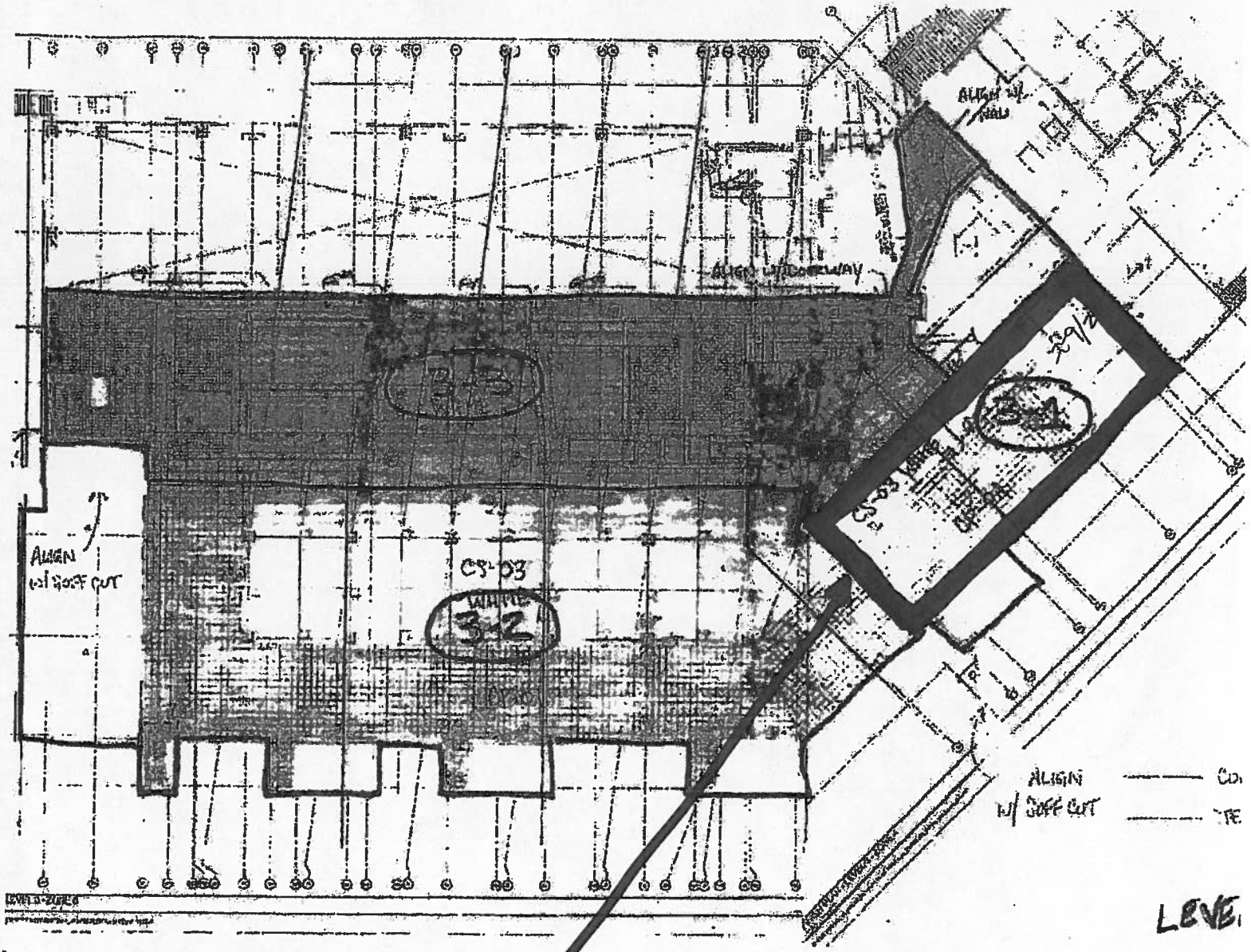


Cone 1 | Cone & Split 2 | Columnar 3 | Shear 4 | Side Fracture 5 | Double Side Fracture 6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min.)
7	180880	96	10	--	--	--	--	--

Remarks: 7 Total Loads lightweight, Unit Weight = 123.0 pcf
30 Total Loads normal weight
Curing Temperatures: Max = 79°, Min = 56°

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



LIGHTWEIGHT CONC. PLACEMENT
3RD FLOOR

PORTLAND INT'L JETPORT
TERMINAL EXPANSION
557-14
9-24-2010
MJK

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

Project Name: Terminal Enhancement, Portland Int. Jetport
Project No: 557-14
Weather Conditions: Overcast
Method of Placement: Pump
Admixtures: Mid Range Water Reducer
Placement Location: Lightweight slab on deck - 3rd floor (1 & 2); Normal weight slab on grade - ground floor (3 - 8)
Test Cylinder Location: See attached sketch

Date Cylinders Cast: 24-Sep-10
Concrete Supplier: Auburn
General Contractor: Turner
Design Strength: 3,000
Max Agg. Size: 3/4

Date Report Issued: OCT 0 4 2010

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time	
Load No.	201350	Slump (in) ASTM C 143	5	Batched @	10:31
Ticket No.	177224	Air (°F)	72	Arrived @	10:52
Truck No.	94	Concrete (°F) ASTM C 1064	72	Total Time	45
Cubic Yds.	10	Air Content (%) ASTM C 231	2.4		

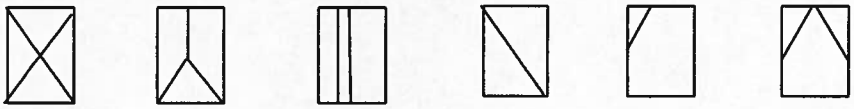
*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 3
Date received 27-Sep-10
Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67217	01-Oct-10	4.018	12.68	7	44,400	3500	5
67218	22-Oct-10			28			
67219	22-Oct-10			28			
67220	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	177222	98	10	--	--	--	--	--
3	177226	76	10	--	--	--	--	--
4	177227	101	10	--	--	--	--	--
5	177229	82	10	--	--	--	--	--

Remarks: 7 Total Loads lightweight
30 Total Loads normal weight
Curing Temperatures: Max = 79°, Min = 56°

Checked by: _____
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

Project Name: Terminal Enhancement, Portland Int. Jetport
Project No: 557-14
Weather Conditions: Overcast
Method of Placement: Pump
Admixtures: Mid Range Water Reducer
Placement Location: Lightweight slab on deck - 3rd floor (1 & 2); Normal weight slab on grade - ground floor (3 - 8)
Test Cylinder Location: See attached sketch

Date Cylinders Cast: 24-Sep-10
Concrete Supplier: Auburn
General Contractor: Turner
Design Strength: 3,000
Max Agg. Size: 3/4

Date Report Issued: OCT 0 4 2010

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time	
Load No.	6	Slump (in) ASTM C 143	4.5	Batched @	11:26
Ticket No.	177230	Air (°F)	72	Arrived @	11:45
Truck No.	99	Concrete (°F) ASTM C 1064	70	Total Time	70
Cubic Yds.	10	Air Content (%) ASTM C 231	2.4		

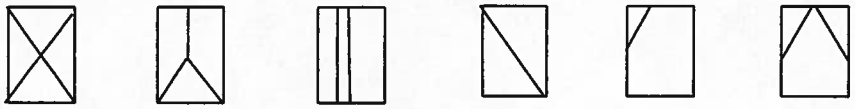
*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 3
Date received 27-Sep-10
Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67221	01-Oct-10	4.018	12.68	7	47,340	3730	5
67222	22-Oct-10			28			
67223	22-Oct-10			28			
67224	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.)
7	177232	94	10	--	--	--	--	--
8	177233	86	10	--	--	--	--	--
9	177235	76	10	--	--	--	--	--
10	177236	82	10	--	--	--	--	--

Remarks: 7 Total Loads lightweight
30 Total Loads normal weight
Curing Temperatures: Max = 79°, Min = 56°

Checked by: 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

Project Name: Terminal Enhancement, Portland Int. Jetport
Project No: 557-14
Weather Conditions: Overcast
Method of Placement: Pump
Admixtures: Mid Range Water Reducer
Placement Location: Lightweight slab on deck - 3rd floor (1 & 2); Normal weight slab on grade - ground floor (3 - 8)
Test Cylinder Location: See attached sketch

Date Cylinders Cast: 24-Sep-10
Concrete Supplier: Auburn
General Contractor: Turner
Design Strength: 3,000
Max Agg. Size: 3/4

Date Report Issued: OCT 0 4 2010

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time	
Load No.	11	Slump (in) ASTM C 143	2.75	Batched @	12:28
Ticket No.	177237	Air (°F)	76	Arrived @	12:55
Truck No.	97	Concrete (°F) ASTM C 1064	74	Total Time	45
Cubic Yds.	10	Air Content (%) ASTM C 231	2.4		

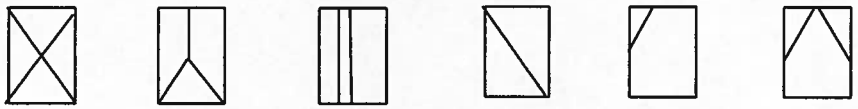
*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 3
Date received 27-Sep-10
Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67225	01-Oct-10	4.018	12.68	7	51,700	4080	6
67226	22-Oct-10			28			
67227	22-Oct-10			28			
67228	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	177239	84	10	--	--	--	--	--
13	177240	94	10	--	--	--	--	--
14	177244	86	10	--	--	--	--	--
15	177246	82	10	--	--	--	--	--

Remarks: 7 Total Loads lightweight
30 Total Loads normal weight
Curing Temperatures: Max = 79°, Min = 56°

Checked by: Matthew T. Grady
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

Project Name: Terminal Enhancement, Portland Int. Jetport
Project No: 557-14
Weather Conditions: Overcast
Method of Placement: Pump
Admixtures: Mid Range Water Reducer
Placement Location: Lightweight slab on deck - 3rd floor (1 & 2); Normal weight slab on grade - ground floor (3 - 8)
Test Cylinder Location: See attached sketch

Date Cylinders Cast: 24-Sep-10
Concrete Supplier: Auburn
General Contractor: Turner
Design Strength: 3,000
Max Agg. Size: 3/4

Date Report Issued: OCT 0 4 2010

4x8 Cylinders	4	Cast by	Erik E. Cohenour	Time	
Load No.	16	Slump (in) ASTM C 143	3	Batched @	1:40
Ticket No.	177248	Air (°F)	75	Arrived @	2:00
Truck No.	84	Concrete (°F) ASTM C 1064	71	Total Time	35
Cubic Yds.	10	Air Content (%) ASTM C 231	2.3		

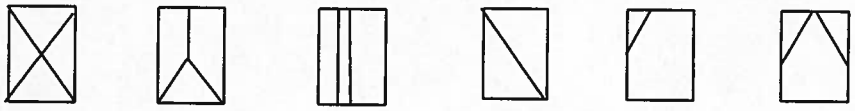
*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 3
Date received 27-Sep-10
Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67229	01-Oct-10	4.018	12.68	7	45,200	3560	2
67230	22-Oct-10			28			
67231	22-Oct-10			28			
67232	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.)
17	177249	78	10	--	--	--	--	--
18	177250	97	10	--	--	--	--	--
19	177251	116	10	--	--	--	--	--
20	177252	94	10	--	--	--	--	--

Remarks: 7 Total Loads lightweight
30 Total Loads normal weight
Curing Temperatures: Max = 79°, Min = 56°

Checked by: Matthew T. Grady
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

Project Name: Terminal Enhancement, Portland Int. Jetport
Project No: 557-14
Weather Conditions: Overcast
Method of Placement: Pump
Admixtures: Mid Range Water Reducer
Placement Location: Lightweight slab on deck - 3rd floor (1 & 2); Normal weight slab on grade - ground floor (3 - 8)
Test Cylinder Location: See attached sketch

Date Cylinders Cast: 24-Sep-10
Concrete Supplier: Auburn
General Contractor: Turner
Design Strength: 3,000
Max Agg. Size: 3/4

Date Report Issued: OCT 0 4 2010

4x8 Cylinders	4	Cast by	Erik E. Cohenour	Time	
Load No.	21	Slump (in) ASTM C 143	2.25	Batched @	2:25
Ticket No.	177253	Air (°F)	76	Arrived @	2:49
Truck No.	99	Concrete (°F) ASTM C 1064	73	Total Time	45
Cubic Yds.	10	Air Content (%) ASTM C 231	2.5		

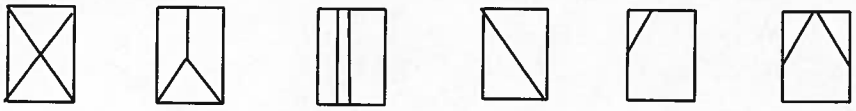
*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 3
Date received 27-Sep-10
Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67233	01-Oct-10	4.018	12.68	7	45,600	3600	2
67234	22-Oct-10			28			
67235	22-Oct-10			28			
67236	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.)
22	177254	82	10	--	--	--	--	--
23	177255	78	10	--	--	--	--	--
24	177256	97	10	--	--	--	--	--
25	177257	116	10	--	--	--	--	--

Remarks: 7 Total Loads lightweight
30 Total Loads normal weight
Curing Temperatures: Max = 79°, Min = 56°

Checked by: Matthew T. Grady
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

Project Name: Terminal Enhancement, Portland Int. Jetport
Project No: 557-14
Weather Conditions: Overcast
Method of Placement: Pump
Admixtures: Mid Range Water Reducer
Placement Location: Lightweight slab on deck - 3rd floor (1 & 2); Normal weight slab on grade - ground floor (3 - 8)
Test Cylinder Location: See attached sketch

Date Cylinders Cast: 24-Sep-10
Concrete Supplier: Auburn
General Contractor: Turner
Design Strength: 3,000
Max Agg. Size: 3/4

Date Report Issued: OCT 0 4 2010

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time	
Load No.	26	Slump (in) ASTM C 143	3	Batched @	3:09
Ticket No.	177258	Air (°F)	76	Arrived @	3:32
Truck No.	94	Concrete (°F) ASTM C 1064	70	Total Time	40
Cubic Yds.	10	Air Content (%) ASTM C 231	2.7		

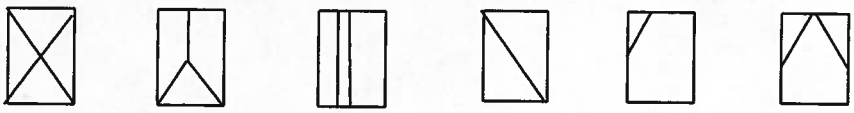
*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 3
Date received 27-Sep-10
Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67237	01-Oct-10	4.018	12.68	7	36,480	2880	5
67238	22-Oct-10			28			
67239	22-Oct-10			28			
67240	HOLD			HOLD			

*Concrete compressive strength by ASTM C 39

Types of Breaks



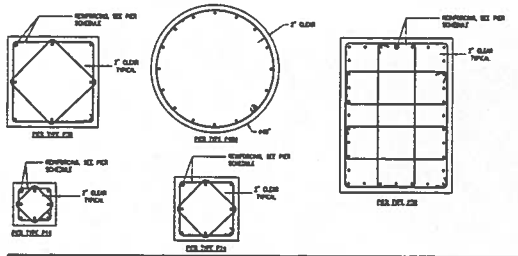
Cone 1 | Cone & Split 2 | Columnar 3 | Shear 4 | Side Fracture 5 | Double Side Fracture 6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min.)
27	177259	82	10	--	--	--	--	--
28	177260	76	10	--	--	--	--	--
29	177261	97	10	--	--	--	--	--
30	177262	116	5/10 used	--	--	--	--	35

Remarks: 7 Total Loads lightweight
30 Total Loads normal weight
Curing Temperatures: Max = 79°, Min = 56°

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

PORTLAND INT'L JETPORT
TERMINAL EXPANSION
557-14
9-24-2010
MJK



PIER SCHEDULE			
PIER TYPE	PIER DIMENSIONS	VERTICAL REINFORCING	TIES
[illegible]	[illegible]	[illegible] VERTICAL BARS	#3 TIES @ [illegible] O.C.
[illegible]	24" x 24"	[illegible] VERTICAL BARS	#3 TIES @ [illegible] O.C.
[illegible]	[illegible]	[illegible] VERTICAL BARS	#3 TIES @ [illegible] O.C.
[illegible]	[illegible]	[illegible] VERTICAL BARS	#3 TIES @ [illegible] O.C.
[illegible]	[illegible]	[illegible] VERTICAL BARS	#3 TIES @ [illegible] O.C.
[illegible]	[illegible]	[illegible] VERTICAL BARS	#3 TIES @ [illegible] O.C.

PIER SCHEDULE & DETAILS
SCALE: 3/4" = 1'-0"

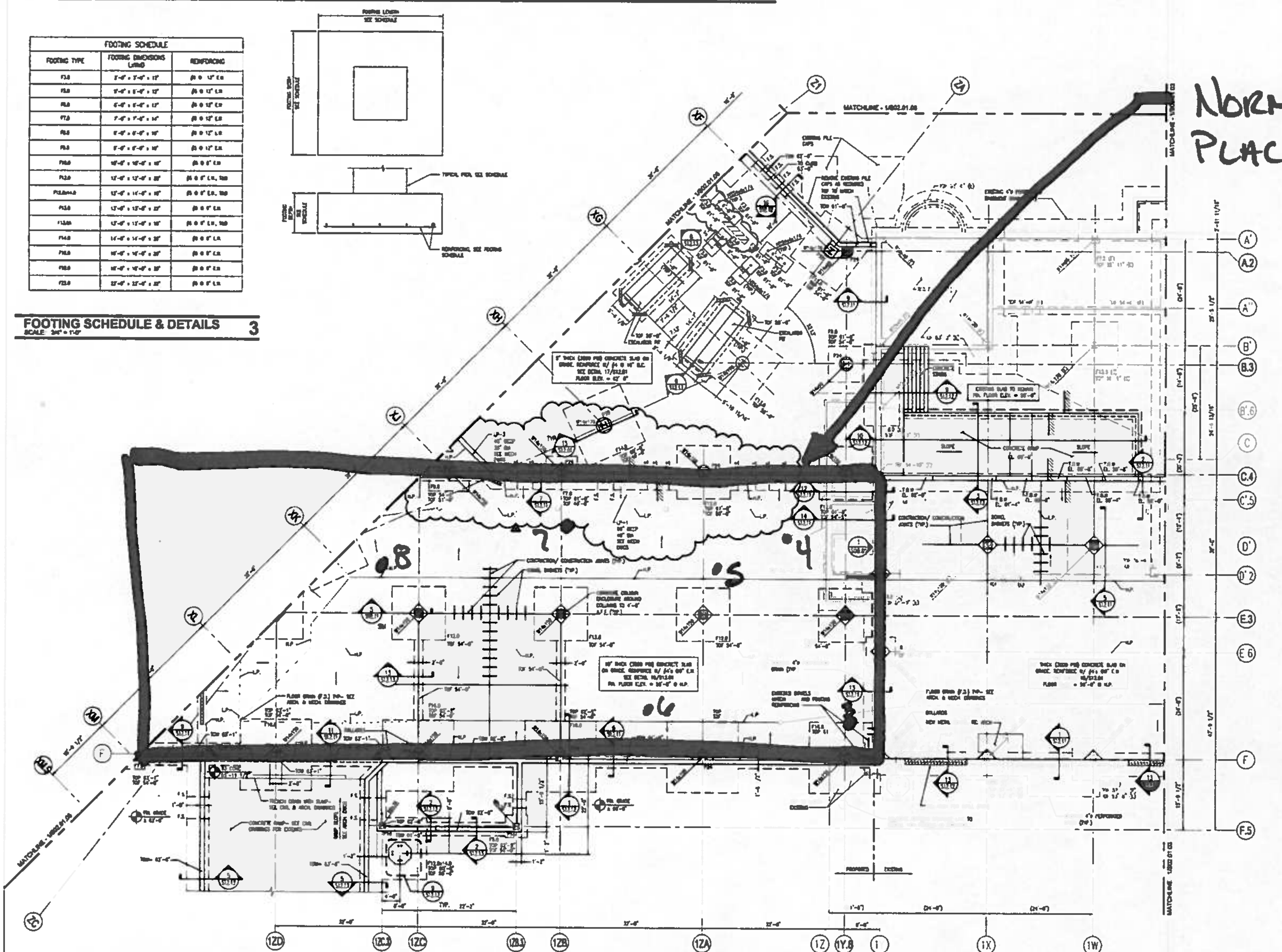
2

FOOTING SCHEDULE		
FOOTING TYPE	FOOTING DIMENSIONS LxWxD	REINFORCING
F3.0	3'-0" x 3'-0" x 12"	#[illegible] @ 12" E.W.
F5.0	5'-0" x 5'-0" x 12"	#[illegible] @ 12" E.W.
F6.0	6'-0" x 6'-0" x 12"	#[illegible] @ 12" E.W.
F7.0	7'-0" x 7'-0" x 14"	#[illegible] @ 12" E.W.
F8.0	8'-0" x 8'-0" x 16"	#[illegible] @ 12" E.W.
F9.0	9'-0" x 9'-0" x 16"	#[illegible] @ 12" E.W.
F10.0	10'-0" x 10'-0" x 16"	#[illegible] @ [illegible] E.W.
F12.0	12'-0" x 12'-0" x 20"	#[illegible] @ [illegible] E.W., T&B
F12.0x14.0	12'-0" x 14'-0" x 16"	#[illegible] @ [illegible] E.W., T&B
F13.0	13'-0" x 13'-0" x 22"	#[illegible] @ [illegible] E.W.
F13.0A	13'-0" x 13'-0" x 16"	#[illegible] @ [illegible] E.W., T&B
F14.0	14'-0" x 14'-0" x 20"	#[illegible] @ [illegible] E.W.
F16.0	16'-0" x 16'-0" x 20"	#[illegible] @ [illegible] E.W.
F18.0	18'-0" x 18'-0" x [illegible]	#[illegible] @ [illegible] E.W.
F22.0	22'-0" x 22'-0" x [illegible]	#[illegible] @ [illegible] E.W.

FOOTING SCHEDULE & DETAILS
SCALE: 3/4" = 1'-0"

3

NORMALWEIGHT CONC.
PLACEMENT



FOUNDATION PLAN - LEVEL 1&2- ZONE 4
SCALE: 1/8" = 1'-0"

1

SHEET NOTES

GENERAL NOTES

KEY PLAN

Portland International Jetport
1001 Westbrook Street
Portland, Maine 04102

Gensler

oest ASSOCIATES, INC.
engineers · architects · surveyors · construction managers

S02.01.04

2/7