

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

We are sending you attached concrete cylinder test results.

Cylinder No. (s)	Age (Days)
67387	7
67393	7
67399	7
67405	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

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

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CONCRETE TEST/PLACEMENT REPORT

Project Name: Terminal Enhancement, Portland Int. Jetport
Project No: 557-14
Weather Conditions: Cloudy
Method of Placement: Pump
Admixtures: Mid Range Water Reducer
Placement Location: Slab on Deck (Slab 3-2 white)
Test Cylinder Location: See attached sketch

Date Cylinders Cast: 05-Oct-10
Concrete Supplier: Auburn
General Contractor: Turner
Design Strength: 3,500
Max Agg. Size: 3/8

Date Report Issued: OCT 14 2010

4x8 Cylinders	6	Cast by	Michael J. Kramlich	Time	
Load No.	2	Slump (in) ASTM C 143	5	Batched @	7:02
Ticket No.	177458	Air (°F)	55	Arrived @	7:25
Truck No.	86	Concrete (°F) ASTM C 1064	64	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: 1
Date received 06-Oct-10
Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67386	08-Oct-10	4.016	12.67	3	38,160	3010	5
67387	12-Oct-10	4.015	12.66	7	53,860	4250	5
67388	02-Nov-10			28			
67389	02-Nov-10			28			
67390	HOLD			HOLD			
67391	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	177456	76	10	--	--	--	--	35
3	177460	106	10	--	--	--	--	--
4	177462	81	10	--	--	--	--	--
5	177465	82	10	--	--	--	--	--
6	177467	76	10	9.50	--	--	--	35

Remarks: 18 Total Loads, Unit Weight = 123.0 pcf
Curing Temperatures: Max = 77°, Min = 61°

Load 6 rejected after first 3 yds due to excessive slump. In-place concrete mixed with next batch.

Checked by:
Matthew T. Grady, Manager of MTS

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CONCRETE TEST/PLACEMENT REPORT

Project Name: Terminal Enhancement, Portland Int. Jetport
Project No: 557-14
Weather Conditions: Cloudy
Method of Placement: Pump
Admixtures: Mid Range Water Reducer
Placement Location: Slab on Deck (Slab 3-2 white)
Test Cylinder Location: See attached sketch

Date Cylinders Cast: 05-Oct-10
Concrete Supplier: Auburn
General Contractor: Turner
Design Strength: 3,500
Max Agg. Size: 3/8

Date Report Issued: OCT 14 2010

4x8 Cylinders	6	Cast by	Michael J. Kramlich	Time	
Load No.	7	Slump (in) ASTM C 143	6.75	Batched @	8:44
Ticket No.	177472	Air (°F)	55	Arrived @	--
Truck No.	81	Concrete (°F) ASTM C 1064	65	Total Time	--
Cubic Yds.	10	Air Content (%) ASTM C 231	3		

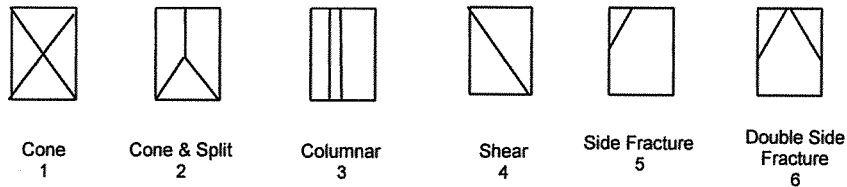
*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1
 Date received 06-Oct-10
 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67392	08-Oct-10	4.016	12.67	3	42,940	3390	5
67393	12-Oct-10	4.015	12.66	7	51,480	4070	5
67394	02-Nov-10			28			
67395	02-Nov-10			28			
67396	HOLD			HOLD			
67397	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.)
8	177473	82	10	--	--	--	--	--
9	177474	116	10	--	--	--	--	--
10	177476	76	10	--	--	--	--	--
11	177478	117	10	--	--	--	--	--

Remarks: 18 Total Loads, Unit weight = 124.6 pcf
 Curing Temperatures: Max = 77°, Min = 61°

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CONCRETE TEST/PLACEMENT REPORT

Project Name: Terminal Enhancement, Portland Int. Jetport
Project No: 557-14
Weather Conditions: Cloudy
Method of Placement: Pump
Admixtures: Mid Range Water Reducer
Placement Location: Slab on Deck (Slab 3-2 white)
Test Cylinder Location: See attached sketch

Date Cylinders Cast: 05-Oct-10
Concrete Supplier: Auburn
General Contractor: Turner
Design Strength: 3,500
Max Agg. Size: 3/8

Date Report Issued: OCT 14 2010

4x8 Cylinders	6	Cast by	Michael J. Kramlich	Time	
Load No.	12	Slump (in) ASTM C 143	7.5	Batched @	9:45
Ticket No.	177479	Air (°F)	60	Arrived @	--
Truck No.	84	Concrete (°F) ASTM C 1064	64	Total Time	--
Cubic Yds.	10	Air Content (%) ASTM C 231	3.5		

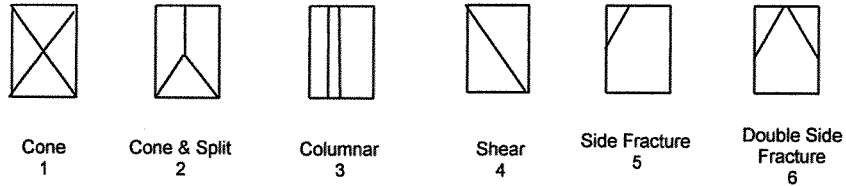
*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1
 Date received 06-Oct-10
 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67398	08-Oct-10	4.016	12.67	3	43,380	3420	5
67399	12-Oct-10	4.015	12.66	7	54,700	4320	5
67400	02-Nov-10			28			
67401	02-Nov-10			28			
67402	HOLD			HOLD			
67403	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.)
13	177481	97	10	--	--	--	--	--
14	177483	82	10	--	--	--	--	--
15	177485	76	10	--	--	--	--	--
16	177487	117	10	--	--	--	--	--

Remarks: 18 Total Loads, Unit weight 125.0 pcf
 Curing Temperatures: Max = 77°, Min = 61°

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CONCRETE TEST/PLACEMENT REPORT

Project Name:	Terminal Enhancement, Portland Int. Jetport	Date Cylinders Cast:	05-Oct-10
Project No:	557-14	Concrete Supplier:	Auburn
Weather Conditions:	Cloudy	General Contractor:	Turner
Method of Placement:	Pump	Design Strength:	3,500
Admixtures:	Mid Range Water Reducer	Max Agg. Size:	3/8
Placement Location:	Slab on Deck (Slab 3-2 white)		
Test Cylinder Location:	See attached sketch		

Date Report Issued: **OCT 14 2010**

4x8 Cylinders	6	Cast by	Michael J. Kramlich	Time	
Load No.	17	Slump (in) ASTM C 143	4	Batched @	11:05
Ticket No.	177489	Air (°F)	60	Arrived @	--
Truck No.	81	Concrete (°F) ASTM C 1064	67	Total Time	--
Cubic Yds.	10	Air Content (%) ASTM C 231	3.25		

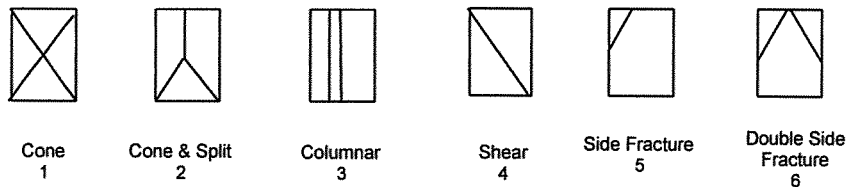
*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1
 Date received 06-Oct-10
 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
37404	08-Oct-10	4.016	12.67	3	46,580	3680	5
37405	12-Oct-10	4.015	12.66	7	53,860	4250	5
37406	02-Nov-10			28			
37407	02-Nov-10			28			
37408	HOLD			HOLD			
37409	HOLD			HOLD			

*Concrete compressive strength by ASTM C 39

Types of Breaks

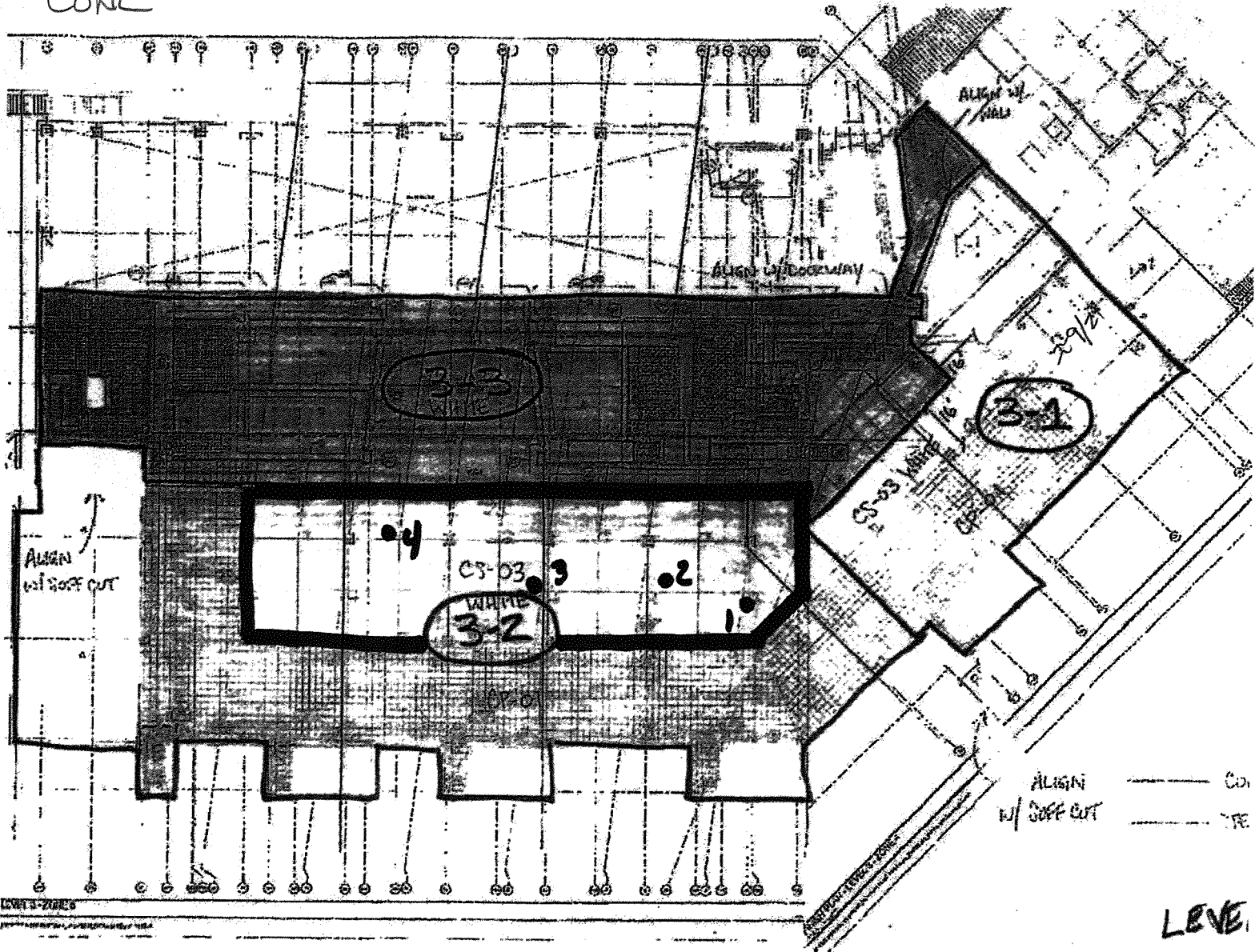


Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min.)
18	177493	76	10	--	--	--	--	--

Remarks: 18 Total Loads, Unit weight 125.6 pcf
 Curing Temperatures: Max = 77°, Min = 61°

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

CONC



PORTLAND INT'L AIRPORT 3
TERMINAL EXPANSION
SS7-14
10/5/10
MSK