

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:	5 November 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)
67626	7
67630	7
67634	7
67638	7
67642	7
67646	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
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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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CONCRETE TEST/PLACEMENT REPORT

Project Name:	Terminal Enhancement, Portland Int. Jetport	Date Cylinders Cast:	29-Oct-10
Project No:	557-14	Concrete Supplier:	Auburn
Weather Conditions:	Overcast with periods of Light Rain	General Contractor:	Turner
Method of Placement:	Pump	Design Strength:	3,500
Admixtures:	Mid Range Water Reducer	Max Agg. Size:	3/8
Placement Location:	Slabs on Deck: 5-1, 4-7, & portions of 3-3		
Test Cylinder Location:	Slab on Deck 5-1, See Attached Sketch		

Date Report Issued:

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time
Load No.	2	Slump (in) ASTM C 143	7.0	Batched @
Ticket No.	179982	Air (°F)	44	Arrived @
Truck No.	99	Concrete (°F) ASTM C 1064	62	Total Time
Cubic Yds.	10	Air Content (%) ASTM C 231	3.25	40±

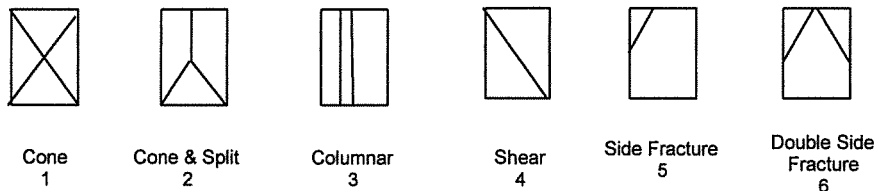
*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 3
 Date received 01-Nov-10
 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67626	05-Nov-10	4.020	12.69	7	49,520	3900	2
67627	29-Nov-10			31			
67628	29-Nov-10			31			
67629	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.)
1	179981	94	10	6.50	--	--	--	45±
3	179984	116	10	--	--	--	--	--
4	179985	96	10	5.75	--	--	--	--
5	179986	107	10	--	--	--	--	40±
6	179988	94	10	--	--	--	--	40±
7	179989	99	10	--	--	--	--	35±

Remarks: Total loads = 31
 Unit weight = 124.0 pcf
 Cylinders were moved at approximately 9:00am by the concrete contractor.

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

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CONCRETE TEST/PLACEMENT REPORT

Project Name:	Terminal Enhancement, Portland Int. Jetport	Date Cylinders Cast:	29-Oct-10
Project No:	557-14	Concrete Supplier:	Auburn
Weather Conditions:	Overcast with periods of Light Rain	General Contractor:	Turner
Method of Placement:	Pump	Design Strength:	3,500
Admixtures:	Mid Range Water Reducer	Max Agg. Size:	3/8
Placement Location:	Slabs on Deck: 5-1, 4-7, & portions of 3-3		
Test Cylinder Location:	Slab on Deck 5-1, See Attached Sketch		

Date Report Issued:

4x8 Cylinders	4	Cast by	Michael J. Kramlich	
Load No.	8	Slump (in) ASTM C 143	4.0	Time Batched @ 8:21 Arrived @ 8:41 Total Time 30±
Ticket No.	179990	Air (°F)	44	
Truck No.	116	Concrete (°F) ASTM C 1064	63	
Cubic Yds.	10	Air Content (%) ASTM C 231	3.0	

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 3
Date received 01-Nov-10
Condition of Cylinders: Good

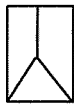
Lab No.	Test Date	Avg Dia (in)	Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67630	05-Nov-10	4.020	12.69	7	44,500	3510	5
67631	29-Nov-10			31			
67632	29-Nov-10			31			
67633	HOLD			HOLD			

*Concrete compressive strength by ASTM C 39

Types of Breaks



Cone
1



Cone & Split
2



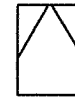
Columnar
3



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.)
9	179992	107	10	--	--	--	--	45±
10	179993	76	10	--	--	--	--	70±

Remarks: Total loads = 31
Unit weight = 123.8 pcf
Curing Temperatures: Max = 65°, Min = 39°

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

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CONCRETE TEST/PLACEMENT REPORT

Project Name:	Terminal Enhancement, Portland Int. Jetport	Date Cylinders Cast:	29-Oct-10
Project No:	557-14	Concrete Supplier:	Auburn
Weather Conditions:	Overcast with periods of Light Rain	General Contractor:	Turner
Method of Placement:	Pump	Design Strength:	3,500
Admixtures:	Mid Range Water Reducer	Max Agg. Size:	3/8
Placement Location:	Slabs on Deck: 5-1, 4-7, & portions of 3-3		
Test Cylinder Location:	Slab on Deck 4-7, See Attached Sketch		

Date Report Issued:

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time
Load No.	12	Slump (in) ASTM C 143	2.75	Batched @
Ticket No.	179996	Air (°F)	50	Arrived @
Truck No.	99	Concrete (°F) ASTM C 1064	63	Total Time
Cubic Yds.	10	Air Content (%) ASTM C 231	3.5	70±

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 3
Date received 01-Nov-10
Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67634	05-Nov-10	4.020	12.69	7	43,920	3460	2
67635	29-Nov-10			31			
67636	29-Nov-10			31			
67637	HOLD			HOLD			

*Concrete compressive strength by ASTM C 39

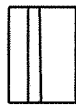
Types of Breaks



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.)
11	179995	99	10	--	--	--	--	35±
13	179999	107	10	--	--	--	--	45±
14	180002	76	10	--	--	--	--	45±
15	180003	98	10	--	--	--	--	60±

Remarks: Total loads = 31
Curing Temperatures: Max = 65°, Min = 39°
Load #12 was sent away approximately half empty.
Unit weight = 123.8 pcf

Checked by: Don C. McNamee
For 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: Overcast with periods of Light Rain
Method of Placement: Pump
Admixtures: Mid Range Water Reducer
Placement Location: Slabs on Deck: 5-1, 4-7, & portions of 3-3
Test Cylinder Location: Slab on Deck 4-7, See Attached Sketch

Date Cylinders Cast: 29-Oct-10
Concrete Supplier: Auburn
General Contractor: Turner
Design Strength: 3,500
Max Agg. Size: 3/8

Date Report Issued:

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time	
Load No.	16	Slump (in) ASTM C 143	4.0	Batched @	10:42
Ticket No.	180005	Air (°F)	48	Arrived @	11:25
Truck No.	116	Concrete (°F) ASTM C 1064	67	Total Time	100±
Cubic Yds.	10	Air Content (%) ASTM C 231	3.25		

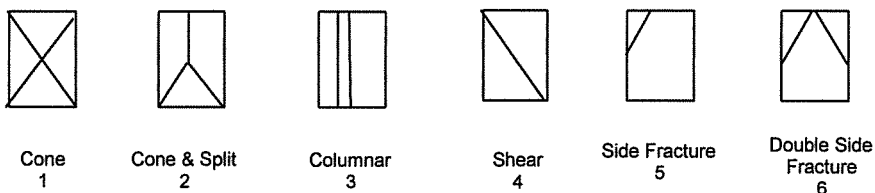
*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 3
 Date received 01-Nov-10
 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67638	05-Nov-10	4.020	12.69	7	42,840	3380	5
67639	29-Nov-10			31			
67640	29-Nov-10			31			
67641	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.)
17	180006	107	10	--	--	--	--	95±
18	180010	76	10	--	--	--	--	65±
19	180013	108	10	--	--	--	--	60±
20	180014	116	10	--	--	--	--	50±
21	180015	107	10	--	--	--	--	55±
22	180017	76	10	--	--	--	--	70±

Remarks: Total loads = 31
 Curing Temperatures: Max = 65°, Min = 39°
 Load #17 was sent away approximately half empty.
 Unit weight = 124.0 pcf

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

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CONCRETE TEST/PLACEMENT REPORT

Project Name:	Terminal Enhancement, Portland Int. Jetport	Date Cylinders Cast:	29-Oct-10
Project No:	557-14	Concrete Supplier:	Auburn
Weather Conditions:	Overcast with periods of Light Rain	General Contractor:	Turner
Method of Placement:	Pump	Design Strength:	3,500
Admixtures:	Mid Range Water Reducer	Max Agg. Size:	3/8
Placement Location:	Slabs on Deck: 5-1, 4-7, & portions of 3-3		
Test Cylinder Location:	Slab on Deck 3-3, See Attached Sketch		

Date Report Issued:

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time
Load No.	23	Slump (in) ASTM C 143	4.0	Batched @ 1:19 Arrived @ 2:20 Total Time 90
Ticket No.	180018	Air (°F)	48	
Truck No.	108	Concrete (°F) ASTM C 1064	66	
Cubic Yds.	10	Air Content (%) ASTM C 231	3.0	

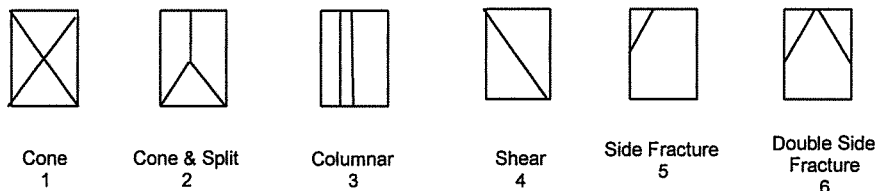
*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 3
 Date received 01-Nov-10
 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67642	05-Nov-10	4.020	12.69	7	43,240	3410	5
67643	29-Nov-10			31			
67644	29-Nov-10			31			
67645	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.)
24	180228	76	10	--	--	--	--	40±
25	180229	108	10	--	--	--	--	60±
26	180230	107	10	--	--	--	--	--

Remarks: Total loads = 31
 Pump had to relocate.
 Load #23 was sent away with approximately 7 yards left.
 Unit weight = 123.4 pcf

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

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CONCRETE TEST/PLACEMENT REPORT

Project Name:	Terminal Enhancement, Portland Int. Jetport	Date Cylinders Cast:	29-Oct-10
Project No:	557-14	Concrete Supplier:	Auburn
Weather Conditions:	Overcast with periods of Light Rain	General Contractor:	Turner
Method of Placement:	Pump	Design Strength:	3,500
Admixtures:	Mid Range Water Reducer	Max Agg. Size:	3/8
Placement Location:	Slabs on Deck: 5-1, 4-7, & portions of 3-3		
Test Cylinder Location:	Slab on Deck 3-3, See Attached Sketch		

Date Report Issued:

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time
Load No.	27	Slump (in) ASTM C 143	6.5	Batched @
Ticket No.	180231	Air (°F)	46	Arrived @
Truck No.	76	Concrete (°F) ASTM C 1064	65	Total Time
Cubic Yds.	10	Air Content (%) ASTM C 231	3.0	80±

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 3
Date received 01-Nov-10
Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67646	05-Nov-10	4.020	12.69	7	48,340	3810	2
67647	29-Nov-10			31			
67648	29-Nov-10			31			
67649	HOLD			HOLD			

*Concrete compressive strength by ASTM C 39

Types of Breaks



Cone
1



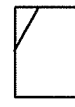
Cone & Split
2



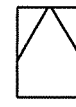
Columnar
3



Shear
4



Side Fracture
5

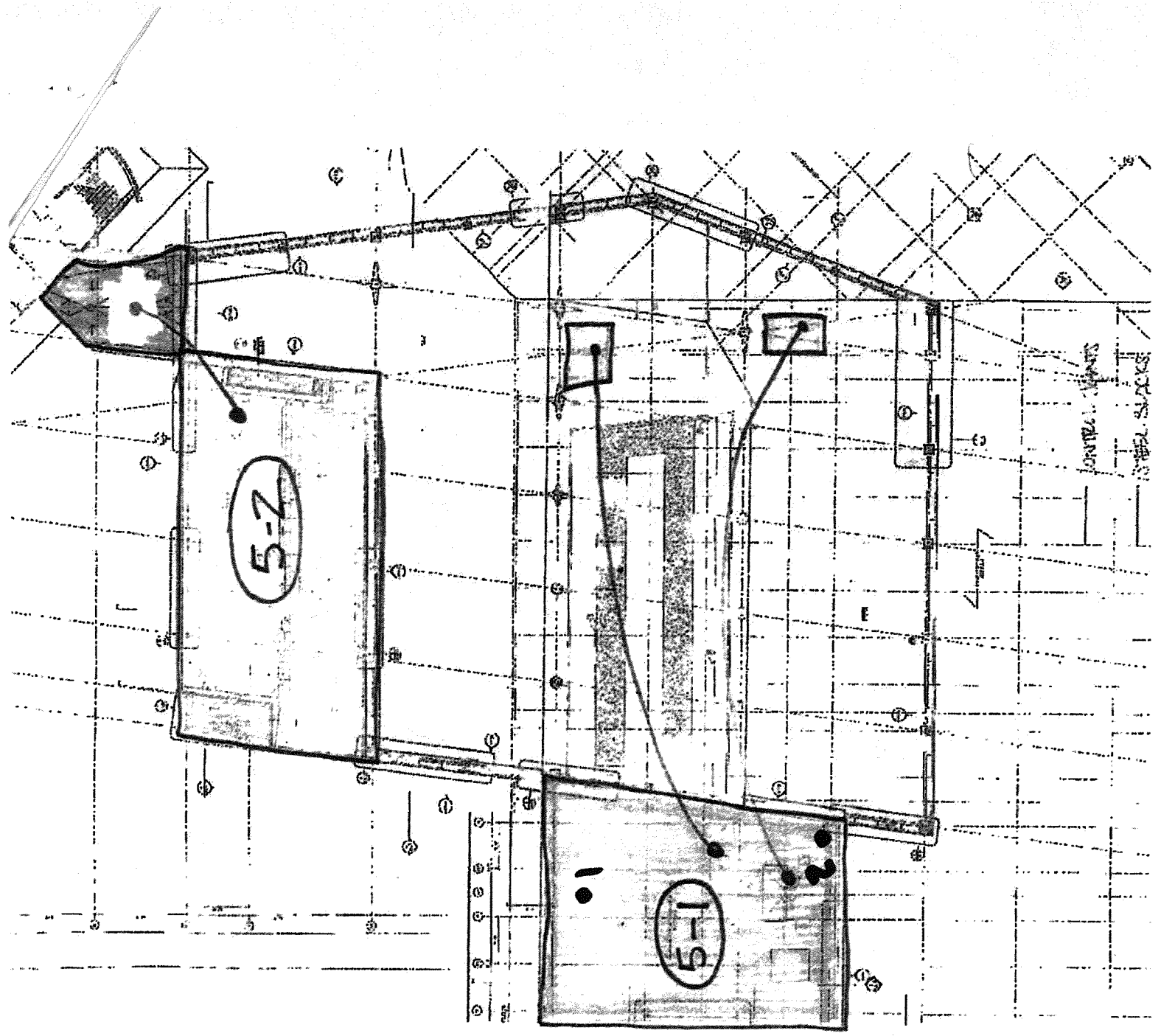


Double Side
Fracture
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min.)
28	180233	82	10	--	--	--	--	50±
29	--	--	10	--	--	--	--	--
30	--	--	10	--	--	--	--	--
31	--	--	10	--	--	--	--	--

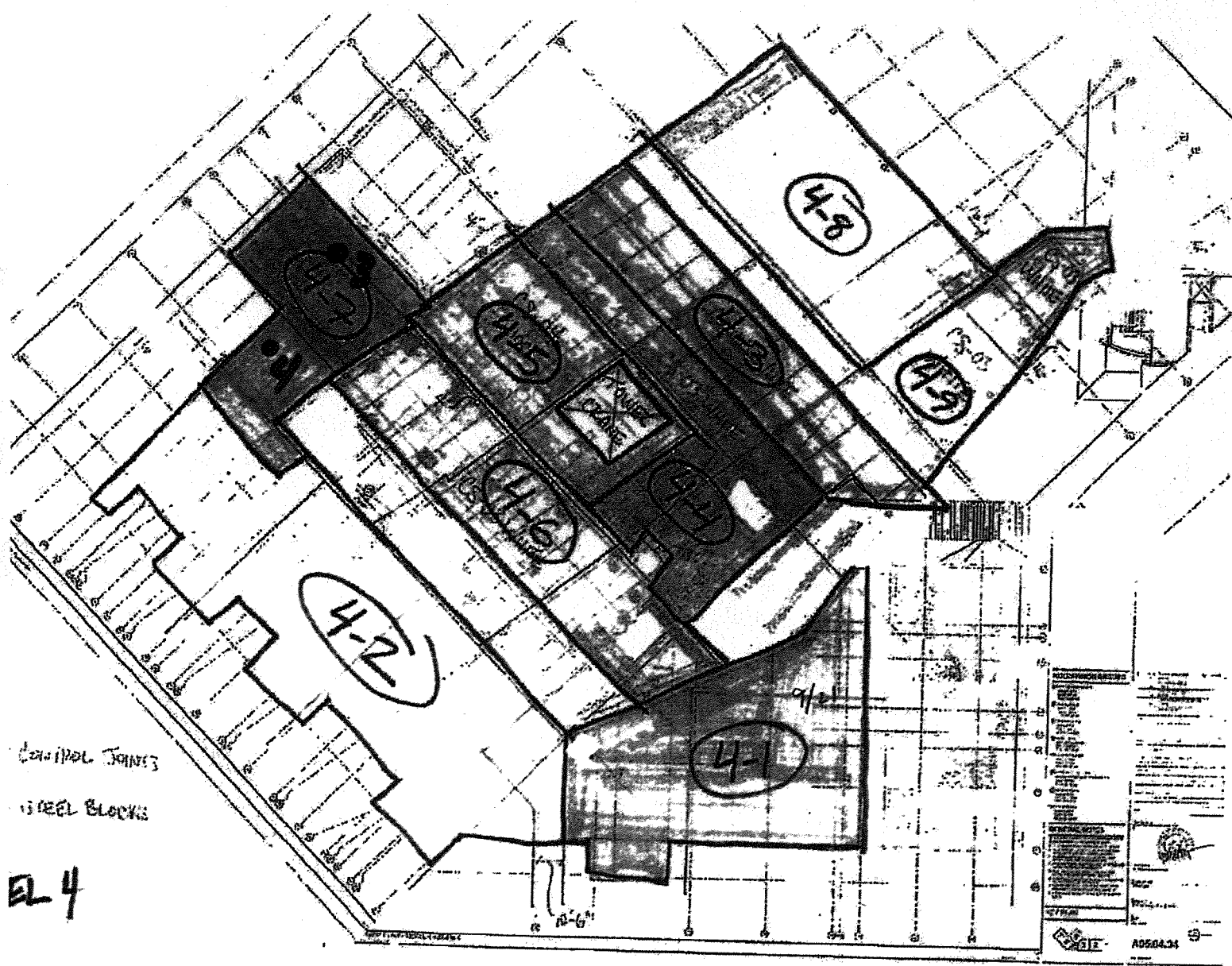
Remarks: Total loads = 31
Unit weight = 123.4 pcf
Curing Temperatures: Max = 57°, Min = 34°

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



Level 5

PORTLAND INT'L JETPORT
 TERMINAL EXPANSION
 557-14
 10/29/10
 MSK



CONCRETE JOINTS
 STEEL BLOCKS

EL 4

PORTLAND INT'L AIRPORT
 TERMINAL EXPANSION
 557-14
 10/29/2010
 MJC

