

# GAGNON ENGINEERING, INC.

Structural Consultants

Jeanie Bourke  
City of Portland - Inspections Division  
389 Congress St. Room 315  
Portland, ME 04101

January 8, 2015

Re: Canal Landing LLC, 400 Commercial Street  
Operations Building

## Special Inspector's Final Report

Dear Jeanie:

This letter and attached document compliance with IBC (chapter 17) Structural Inspection requirements.

To the extent of my information, knowledge, and belief, the Special Inspections and Testing required for this project, and designated for this Inspector & Agent in the Statement of Special Inspections, submitted for permit, have been performed and all discovered discrepancies have been reported and resolved.

I trust that this certification meets your needs. Please call or email with questions, if you need more.

Sincerely,



Roger R. Gagnon, P.E.  
(Gagnon Engineering, Inc)

### Attachments:

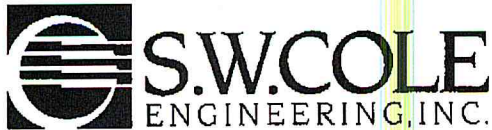
Subgrade Compaction Testing  
Schedule of Pre-Concrete Inspections  
Concrete Testing Results  
Welder Certificates  
Steel Certificates

Project: Canal Landing, Ops Bldg  
Subject: IBC Special Inspections  
Item: Pre-concrete Inspections

GAGNON ENGINEERING, INC  
Gorham, Maine 04038

By: RG  
Date: 01/08/15

Date	Description	Notes	Testing?
28-Aug	Footing, 2-5, B-L	ok	SW Cole
8-Sep	Grade Beams, 7a-7M, A4-A7	ok	SW Cole
	Footing, 2B	ok	
12-Sep	Wall, 7-line	ok	SW Cole
18-Sep	North Wall, 7 - 1	ok	SW Cole
	South Wall, 1 -7	ok	
3-Oct	Slab, A-M, 4-7	ok	SW Cole
11-Oct	Slab, A-M, 1-4	ok	SW Cole



# Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** Portland ME - Portland Yacht Services- Phase II Construction **Project Number:** 13-0912.2  
**Materials Testing**

**Client:** Portland Yacht Services, Inc.

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** AUBURN CONCRETE

## PLACEMENT INFORMATION

**Date Cast:** 8/28/2014 **Time Cast:** 11:45 **Date Received:** 9/2/2014

**Placement Location:** INTERIOR FOOTING: 2 TO 5, B TO L

**Placement Method:** DIRECT DISCHARGE

**Placement Vol. (yd<sup>3</sup>):** 50

**Cylinders Made By:** VAN TERRELL, JR.

**Aggregate Size (in):** 3/4

## INITIAL CURING CONDITIONS

### Temperatures

**Minimum (°F)** **Maximum (°F)**

## DELIVERY INFORMATION

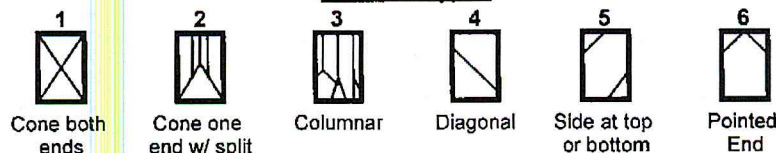
**Admixtures:** MASTER AE20  
 MASTER SET R100  
 MAS GLENIUM 7500

## TEST RESULTS

<b>Slump (in) (C-143):</b>	<b>Slump WR:</b> 6	<b>Load Number:</b> 2	<b>Batch</b>
<b>Air Content (%) (C-231)</b>	<b>Air WR:</b> 6.5	<b>Mixer Number:</b> 118	10:23
<b>Air Temp (°F):</b> 77		<b>Ticket Number</b> 251228	<b>Arrive</b>
<b>Conc. Temp (°F) (C-1064):</b> 81		<b>Cubic Yards:</b> 10	11:12
		<b>Design (psi):</b> 4000	<b>Depart</b>
			11:35

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
600-1A		3.99	12.50	9/4/2014	Lab	7	4	45.6	3650
600-1B		3.99	12.52	9/25/2014	Lab	28	4	56.2	4490
600-1C		4.03	12.75	9/25/2014	Lab	28	4	55.4	4350
600-1D				Hold	Lab				

### Fracture Types



Remarks:



# Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** Portland ME - Portland Yacht Services- Phase II Construction **Project Number:** 13-0912.2  
Materials Testing

**Client:** Portland Yacht Services, Inc.

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** AUBURN CONCRETE

## PLACEMENT INFORMATION

**Date Cast:** 9/8/2014 **Time Cast:** 11:26 **Date Received:** 9/9/2014  
**Placement Location:** GRADE BEAMS - 7, A TO M, A 4 TO 7  
 COLUMN FOOTINGS - B AT 2  
**Placement Method:** PUMP TRUCK **Placement Vol. (yd³):** 60.5  
**Cylinders Made By:** FRANK CLARK **Aggregate Size (in):** 3/4

## INITIAL CURING CONDITIONS

### Temperatures

**Minimum (°F)** 62 **Maximum (°F)** 74

## DELIVERY INFORMATION

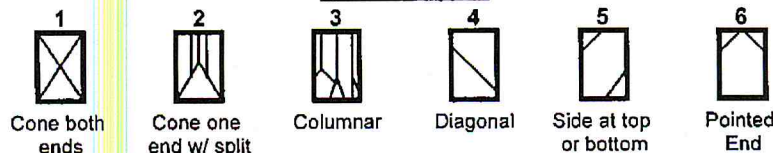
**Admixtures:** MASTER AIR AE20  
 GLENIUM  
 MASTER SET R100

## TEST RESULTS

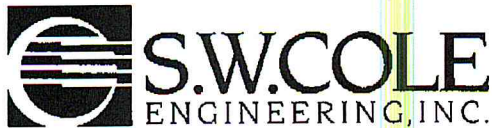
**Slump (in) (C-143):** **Slump WR:** 6 **Load Number:** 3 **Batch**  
**Air Content (%) (C-231)** **Air WR:** 6.5 **Mixer Number:** 99 **10:43**  
**Air Temp (°F):** 74 **Ticket Number** 252632 **Arrive**  
**Conc. Temp (°F) (C-1064):** 78 **Cubic Yards:** 10 **11:12**  
**Design (psi):** 4000 **Depart**  
**10:39**

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
600-2A	8.30	3.99	12.50	9/15/2014	Lab	7	4	50.0	4000
600-2B	8.30	4.02	12.71	10/6/2014	Lab	28	4	52.6	4140
600-2C	8.30	4.02	12.69	10/6/2014	Lab	28	4	55.8	4400
600-2D	8.30			Hold	Lab				

### Fracture Types



Remarks:



# Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** Portland ME - Portland Yacht Services- Phase II Construction **Project Number:** 13-0912.2  
**Materials Testing**

**Client:** Portland Yacht Services, Inc.

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** AUBURN CONCRETE

## PLACEMENT INFORMATION

**Date Cast:** 9/12/2014 **Time Cast:** 8:52 **Date Received:** 9/15/2014

**Placement Location:** WALL: ALL OF 7 LINE

**Placement Method:** PUMP

**Placement Vol. (yd³):** 65

**Cylinders Made By:** AARON HIGGINS

**Aggregate Size (in):** 3/4

## INITIAL CURING CONDITIONS

### Temperatures

**Minimum (°F)** **Maximum (°F)**

## DELIVERY INFORMATION

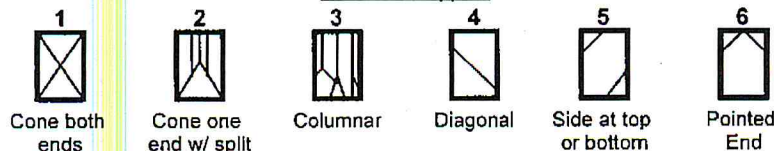
**Admixtures:** AIR GLENIUM R100

## TEST RESULTS

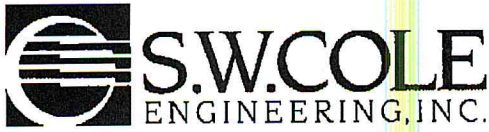
<b>Slump (in) (C-143):</b> 5.5	<b>Slump WR:</b> 5 1/4	<b>Load Number:</b> 2	<b>Batch</b> 7:40
<b>Air Content (%) (C-231)</b> 7.5	<b>Air WR:</b> 6.9	<b>Mixer Number:</b> 136	<b>Arrive</b> 8:25
<b>Air Temp (°F):</b> 60		<b>Ticket Number</b> 603	<b>Depart</b> 8:55
<b>Conc. Temp (°F) (C-1064):</b> 75		<b>Cubic Yards:</b> 10	
		<b>Design (psi):</b> 4000	

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
600-3A	8.40	4.04	12.79	9/19/2014	Lab	7	4	46.8	3660
600-3B	8.40	4.05	12.90	10/10/2014	Lab	28	5	51.6	4000
600-3C	8.40	4.04	12.82	10/10/2014	Lab	28	5	53.1	4140
600-3D	8.45			Hold	Lab				

### Fracture Types



Remarks:



# Report of Concrete Compressive Strength

ASTM C-31 & C-39

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Materials Testing

**Client:** Portland Yacht Services, Inc.

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** AUBURN CONCRETE

## PLACEMENT INFORMATION

**Date Cast:** 9/12/2014 **Time Cast:** 8:52 **Date Received:** 9/15/2014

**Placement Location:** WALL: ALL OF 7 LINE

**Placement Method:** PUMP

**Placement Vol. (yd³):** 65

**Cylinders Made By:** AARON HIGGINS

**Aggregate Size (in):** 3/4

## INITIAL CURING CONDITIONS

### Temperatures

**Minimum (°F)** **Maximum (°F)**

## DELIVERY INFORMATION

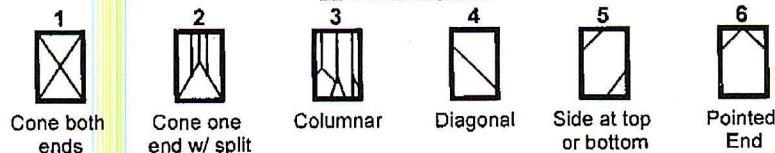
**Admixtures:** AIR GLENIUM R100

## TEST RESULTS

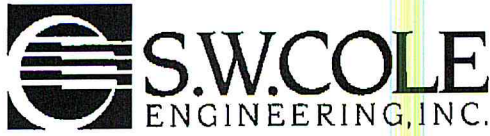
<b>Slump (in) (C-143):</b> 5.5	<b>Slump WR:</b> 5 1/4	<b>Load Number:</b> 6	<b>Batch</b>
<b>Air Content (%) (C-231)</b> 7.5	<b>Air WR:</b> 6.9	<b>Mixer Number:</b> 76	10:04
<b>Air Temp (°F):</b> 60		<b>Ticket Number</b> 621	<b>Arrive</b>
<b>Conc. Temp (°F) (C-1064):</b> 75		<b>Cubic Yards:</b> 10	10:30
		<b>Design (psi):</b> 4000	<b>Depart</b>
			10:48

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(in)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
600-4A	8.40	4.06	12.95	9/19/2014	Lab	7	4	53.8	4160
600-4B	8.45	4.04	12.80	10/10/2014	Lab	28	5	60.7	4740
600-4C	8.45	4.04	12.83	10/10/2014	Lab	28	5	59.1	4610
600-4D	8.45			Hold	Lab				

### Fracture Types



Remarks:



# Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** Portland ME - Portland Yacht Services- Phase II Construction **Project Number:** 13-0912.2  
Materials Testing

**Client:** Portland Yacht Services, Inc.

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** AUBURN CONCRETE

## PLACEMENT INFORMATION

**Date Cast:** 9/18/2014 **Time Cast:** 10:00 **Date Received:**  
**Placement Location:** NORTH WALL: LINE 7 TO 10  
SOUTH WALL: LINE 1 TO 10  
**Placement Method:** PUMP **Placement Vol. (yd<sup>3</sup>):**  
**Cylinders Made By:** JUSTIN ROUILLARD **Aggregate Size (in):** 3/4

## INITIAL CURING CONDITIONS

### Temperatures

**Minimum (°F)** **Maximum (°F)**

## DELIVERY INFORMATION

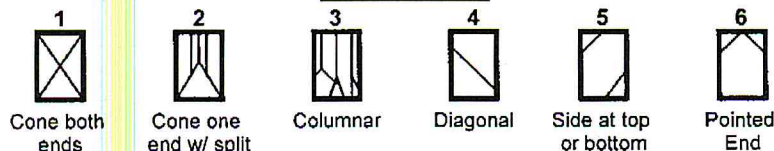
**Admixtures:** GLENIUM  
MASTER SET R100

## TEST RESULTS

<b>Slump (in) (C-143):</b> 6	<b>Slump WR:</b> 5.5	<b>Load Number:</b> 1	<b>Batch</b>
<b>Air Content (%) (C-231)</b> 6.0	<b>Air WR:</b> 5.8	<b>Mixer Number:</b> 98	9:09
<b>Air Temp (°F):</b> 64		<b>Ticket Number</b> 253908	<b>Arrive</b>
<b>Conc. Temp (°F) (C-1064):</b> 74		<b>Cubic Yards:</b> 10	10:00
		<b>Design (psi):</b> 4000	<b>Depart</b>
			10:15

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
600-5A	8.30	4.02	12.67	9/25/2014	Lab	7	4	53.8	4250
600-5B	8.25	4.00	12.57	10/16/2014	Lab	28	5	63.9	5080
600-5C	8.35	4.00	12.54	10/16/2014	Lab	28	3	60.1	4790
600-5D	8.35			Hold	Lab				

### Fracture Types



Remarks:

## Report of Concrete Compressive Strength

ASTM C-31 &amp; C-39

**Project Name:** Portland ME - Portland Yacht Services- Phase II Construction **Project Number:** 13-0912.2  
 Materials Testing

**Client:** Portland Yacht Services, Inc.

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** AUBURN CONCRETE

### PLACEMENT INFORMATION

**Date Cast:** 10/3/2014      **Time Cast:** 6:15      **Date Received:** 10/6/2014

**Placement Location:** SLAB: A TO M & 4 TO 7

**Placement Method:** PUMP

**Placement Vol. (yd<sup>3</sup>):** 250

**Cylinders Made By:** MICHAEL BOURQUE

**Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

**Minimum (°F)** 55      **Maximum (°F)** 68

### DELIVERY INFORMATION

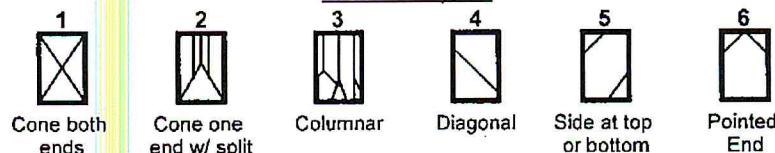
**Admixtures:** GLENUM 7500

### TEST RESULTS

<b>Slump (in) (C-143):</b>	<b>Slump WR:</b> 5.5	<b>Load Number:</b> 2	<b>Batch</b>
<b>Air Content (%) (C-231)</b>	<b>Air WR:</b> 3.0	<b>Mixer Number:</b> 98	5:32
<b>Air Temp (°F):</b> 52		<b>Ticket Number</b> 253714	<b>Arrive</b>
<b>Conc. Temp (°F) (C-1064):</b> 65		<b>Cubic Yards:</b> 10	6:05
		<b>Design (psi):</b> 4000	<b>Depart</b>
			6:20

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
600-6A	8.45	3.99	12.49	10/10/2014	Lab	7	5	54.5	4360
600-6B	8.50	4.01	12.63	10/31/2014	Lab	28	4	68.8	5450
600-6C	8.50	4.03	12.75	10/31/2014	Lab	28	4	63.2	4960
600-6D	8.50			Hold	Lab				

#### Fracture Types



Remarks:



## Report of Concrete Compressive Strength

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**Project Name:** Portland ME - Portland Yacht Services- Phase II Construction **Project Number:** 13-0912.2  
 Materials Testing

**Client:** Portland Yacht Services, Inc.

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** AUBURN CONCRETE

### PLACEMENT INFORMATION

**Date Cast:** 10/3/2014 **Time Cast:** 6:30 **Date Received:** 10/6/2014

**Placement Location:** SLAB: A TO M & 4 TO 7

**Placement Method:** PUMP

**Placement Vol. (yd<sup>3</sup>):** 250

**Cylinders Made By:** MICHAEL BOURQUE

**Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

**Minimum (°F)** 55 **Maximum (°F)** 68

### DELIVERY INFORMATION

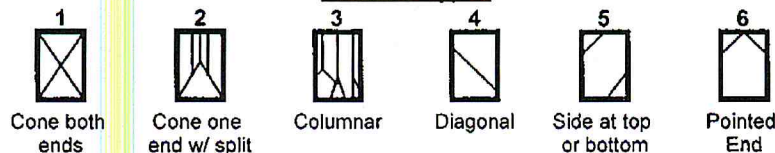
**Admixtures:** GLENUM 7500

### TEST RESULTS

<b>Slump (in) (C-143):</b>	<b>Slump WR:</b> 5	<b>Load Number:</b> 5	<b>Batch</b>
<b>Air Content (%) (C-231)</b>	<b>Air WR:</b> 2.7	<b>Mixer Number:</b> 84	5:59
<b>Air Temp (°F):</b> 54		<b>Ticket Number</b> 253717	<b>Arrive</b>
<b>Conc. Temp (°F) (C-1064):</b> 66		<b>Cubic Yards:</b> 10	6:25
		<b>Design (psi):</b> 4000	<b>Depart</b>
			6:43

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
600-7A	8.50	4.00	12.55	10/10/2014	Lab	7	5	55.6	4430
600-7B	8.45	4.02	12.67	10/31/2014	Lab	28	4	66.4	5240
600-7C	8.50	4.02	12.71	10/31/2014	Lab	28	4	68.0	5350
600-7D	8.45			Hold	Lab				

#### Fracture Types



Remarks:

## Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** Portland ME - Portland Yacht Services- Phase II Construction **Project Number:** 13-0912.2  
 Materials Testing

**Client:** Portland Yacht Services, Inc.

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** AUBURN CONCRETE

### PLACEMENT INFORMATION

**Date Cast:** 10/3/2014      **Time Cast:** 7:55      **Date Received:** 10/6/2014

**Placement Location:** SLAB: A TO M & 4 TO 7

**Placement Method:** PUMP

**Placement Vol. (yd³):** 250

**Cylinders Made By:** MICHAEL BOURQUE

**Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

**Minimum (°F)** 55      **Maximum (°F)** 68

### DELIVERY INFORMATION

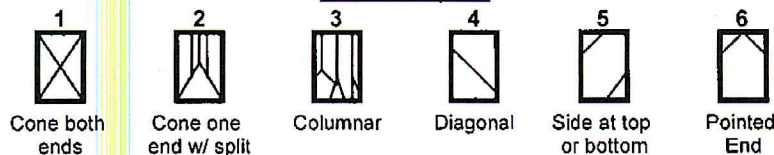
**Admixtures:** GLENUM 7500

### TEST RESULTS

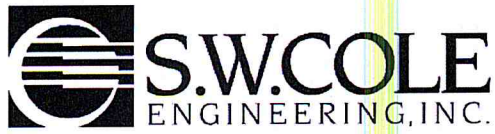
<b>Slump (in) (C-143):</b>	<b>Slump WR:</b> 5 3/4	<b>Load Number:</b> 12	<b>Batch</b>
<b>Air Content (%) (C-231)</b>	<b>Air WR:</b> 2.4	<b>Mixer Number:</b> 76	7:06
<b>Air Temp (°F):</b> 57		<b>Ticket Number</b> 253724	<b>Arrive</b>
<b>Conc. Temp (°F) (C-1064):</b> 64		<b>Cubic Yards:</b> 10	7:40
		<b>Design (psi):</b> 4000	<b>Depart</b>
			7:50

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
600-8A	8.50	4.00	12.55	10/10/2014	Lab	7	5	49.0	3910
600-8B	8.50	4.02	12.70	10/31/2014	Lab	28	4	61.0	4800
600-8C	8.45	4.02	12.67	10/31/2014	Lab	28	4	61.6	4860
600-8D	8.45			Hold	Lab				

#### Fracture Types



Remarks:



AMENDED 12-2-14

**Report of Concrete Compressive Strength**

ASTM C-31 & C-39

Project Name: Portland ME - Portland Yacht Services- Phase II Construction **Project Number:** 13-0912.2  
Materials Testing

**Client:** Portland Yacht Services, Inc.

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** AUBURN CONCRETE

**PLACEMENT INFORMATION**

**Date Cast:** 10/3/2014 **Time Cast:** 8:30 **Date Received:** 10/6/2014

**Placement Location:** SLAB: A TO M & 4 TO 7

**Placement Method:** PUMP

**Placement Vol. (yd³):** 250

**Cylinders Made By:** MICHAEL BOURQUE

**Aggregate Size (in):** 3/4

**INITIAL CURING CONDITIONS**

**Temperatures**

**Minimum (°F)** 55 **Maximum (°F)** 68

**DELIVERY INFORMATION**

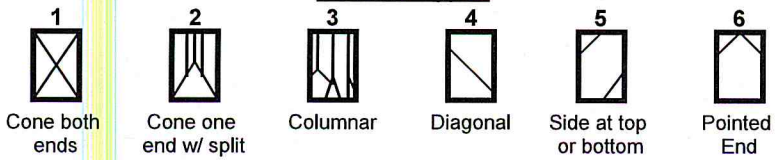
**Admixtures:** GLENUM 7500

**TEST RESULTS**

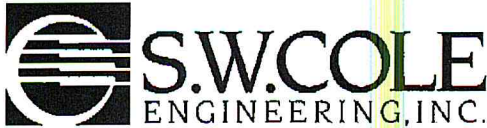
<b>Slump (in) (C-143):</b>	<b>Slump WR:</b> 5	<b>Load Number:</b> 16	<b>Batch</b>
<b>Air Content (%) (C-231)</b>	<b>Air WR:</b> 2.6	<b>Mixer Number:</b> 144	7:49
<b>Air Temp (°F):</b> 60		<b>Ticket Number</b> 253728	<b>Arrive</b>
<b>Conc. Temp (°F) (C-1064):</b> 66		<b>Cubic Yards:</b> 10	8:20
		<b>Design (psi):</b> 4000	<b>Depart</b>
			8:33

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
600-9A	8.50	4.02	12.68	10/10/2014	Lab	7	5	52.6	4150
600-9B	8.45	4.03	12.74	10/31/2014	Lab	28	4	63.8	5010
600-9C	8.50	4.03	12.76	10/31/2014	Lab	28	4	67.2	5270
600-9D	8.45			Hold	Lab				

**Fracture Types**



Remarks:



# Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** Portland ME - Portland Yacht Services- Phase II Construction **Project Number:** 13-0912.2  
Materials Testing

**Client:** Portland Yacht Services, Inc.

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** AUBURN CONCRETE

## PLACEMENT INFORMATION

**Date Cast:** 10/3/2014 **Time Cast:** 9:40 **Date Received:** 10/6/2014

**Placement Location:** SLAB: A TO M & 4 TO 7

**Placement Method:** PUMP

**Placement Vol. (yd³):** 250

**Cylinders Made By:** MICHAEL BOURQUE

**Aggregate Size (in):** 3/4

## INITIAL CURING CONDITIONS

### Temperatures

**Minimum (°F)** 55 **Maximum (°F)** 68

## DELIVERY INFORMATION

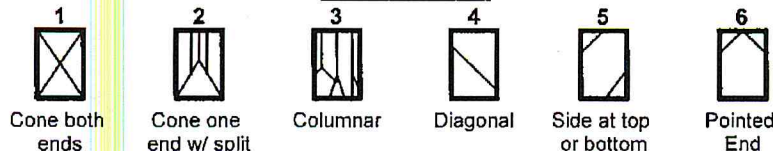
**Admixtures:** GLENUM 7500

## TEST RESULTS

<b>Slump (in) (C-143):</b>	<b>Slump WR:</b> 5.5	<b>Load Number:</b> 21	<b>Batch</b>
<b>Air Content (%) (C-231)</b>	<b>Air WR:</b> 2.9	<b>Mixer Number:</b> 84	<b>8:49</b>
<b>Air Temp (°F):</b> 64		<b>Ticket Number</b> 253733	<b>Arrive</b>
<b>Conc. Temp (°F) (C-1064):</b> 66		<b>Cubic Yards:</b> 10	<b>9:20</b>
		<b>Design (psi):</b> 4000	<b>Depart</b>
			<b>9:35</b>

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
600-10A	8.50	4.02	12.67	10/10/2014	Lab	7	4	57.6	4550
600-10B	8.50	4.01	12.60	10/31/2014	Lab	28	4	64.2	5100
600-10C	8.50	4.01	12.61	10/31/2014	Lab	28	4	59.8	4740
600-10D	8.45			Hold	Lab				

### Fracture Types



Remarks:



# Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** Portland ME - Portland Yacht Services- Phase II Construction **Project Number:** 13-0912.2  
**Materials Testing**

**Client:** Portland Yacht Services, Inc.

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** AUBURN CONCRETE

## PLACEMENT INFORMATION

**Date Cast:** 10/3/2014 **Time Cast:** 6:15 **Date Received:** 10/6/2014

**Placement Location:** SLAB: A TO M & 4 TO 7

**Placement Method:** PUMP

**Placement Vol. (yd³):** 250

**Cylinders Made By:** MICHAEL BOURQUE

**Aggregate Size (in):** 3/4

## INITIAL CURING CONDITIONS

### Temperatures

**Minimum (°F)** 55 **Maximum (°F)** 68

## DELIVERY INFORMATION

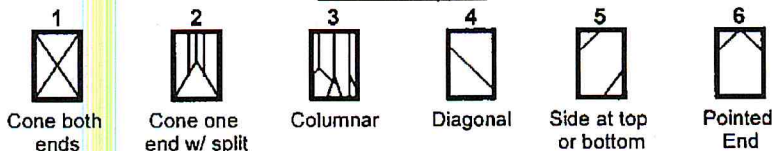
**Admixtures:** GLENUM 7500

## TEST RESULTS

<b>Slump (in) (C-143):</b>	<b>Slump WR:</b> 6	<b>Load Number:</b> 26	<b>Batch</b>
<b>Air Content (%) (C-231)</b>	<b>Air WR:</b> 3.0	<b>Mixer Number:</b> 76	9:49
<b>Air Temp (°F):</b> 52		<b>Ticket Number</b> 249884	<b>Arrive</b>
<b>Conc. Temp (°F) (C-1064):</b> 65		<b>Cubic Yards:</b> 10	10:16
		<b>Design (psi):</b> 4000	<b>Depart</b>
			10:22

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
600-11A	8.60	4.01	12.61	10/10/2014	Lab	7	3	62.2	4930
600-11B	8.60	4.04	12.79	10/31/2014	Lab	28	4	72.2	5650
600-11C	8.55	4.03	12.76	10/31/2014	Lab	28	4	67.6	5300
600-11D	8.60			Hold	Lab				

### Fracture Types



Remarks:

## Report of Concrete Compressive Strength

ASTM C-31 &amp; C-39

**Project Name:** Portland ME - Portland Yacht Services- Phase II Construction **Project Number:** 13-0912.2  
 Materials Testing

**Client:** Portland Yacht Services, Inc.

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** AUBURN CONCRETE

### PLACEMENT INFORMATION

**Date Cast:** 10/11/2014 **Time Cast:** 6:45 **Date Received:** 10/13/2014

**Placement Location:** SLAB: A TO M & 1 TO 4

**Placement Method:** PUMP

**Placement Vol. (yd<sup>3</sup>):** 325

**Cylinders Made By:** ROGER DOMINGO

**Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

**Minimum (°F)** 50 **Maximum (°F)** 65

### DELIVERY INFORMATION

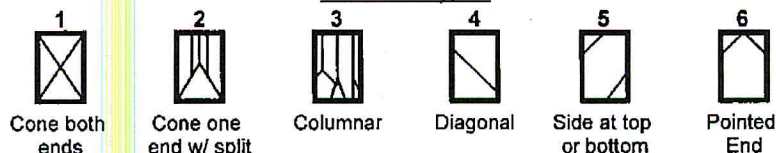
**Admixtures:** MASTER SET 1%  
 MASGLENIUM 7500

### TEST RESULTS

<b>Slump (in) (C-143):</b> 6.5	<b>Slump WR:</b> 6	<b>Load Number:</b> 6	<b>Batch</b> 5:46
<b>Air Content (%) (C-231)</b>	<b>Air WR:</b> 2.6	<b>Mixer Number:</b> 84	<b>Arrive</b>
<b>Air Temp (°F):</b> 43		<b>Ticket Number</b> 246739	<b>Depart</b> 6:40
<b>Conc. Temp (°F) (C-1064):</b> 64		<b>Cubic Yards:</b> 10	
		<b>Design (psi):</b> 4000	

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (in <sup>2</sup> )	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
600-12A	8.45	4.00	12.56	10/22/2014	Lab	11	4	58.9	4690
600-12B	8.55	4.00	12.58	11/8/2014	Lab	28	5	61.5	4890
600-12C	8.50	3.99	12.52	11/8/2014	Lab	28	5	62.8	5020
600-12D	8.55			Hold	Lab				

#### Fracture Types



Remarks: W/C=0.51

## Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** Portland ME - Portland Yacht Services- Phase II Construction **Project Number:** 13-0912.2  
 Materials Testing

**Client:** Portland Yacht Services, Inc.

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** AUBURN CONCRETE

### PLACEMENT INFORMATION

**Date Cast:** 10/11/2014      **Time Cast:** 7:00      **Date Received:** 10/13/2014

**Placement Location:** SLAB: A TO M & 1 TO 4

**Placement Method:** PUMP

**Placement Vol. (yd<sup>3</sup>):** 325

**Cylinders Made By:** ROGER DOMINGO

**Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

**Temperatures**

**Minimum (°F)** 50      **Maximum (°F)** 65

### DELIVERY INFORMATION

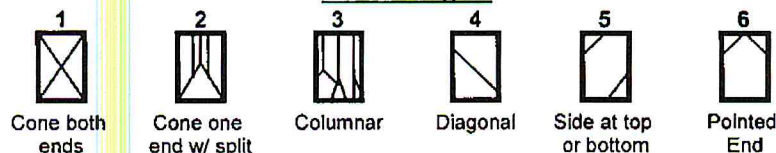
**Admixtures:** MASTER SET 1%  
 MASGLENIUM 7500

### TEST RESULTS

<b>Slump (in) (C-143):</b> 6.5	<b>Slump WR:</b> 6.5	<b>Load Number:</b> 9	<b>Batch</b>
<b>Air Content (%) (C-231)</b>	<b>Air WR:</b> 2.5	<b>Mixer Number:</b> 118	6:17
<b>Air Temp (°F):</b> 45		<b>Ticket Number</b> 246742	<b>Arrive</b>
<b>Conc. Temp (°F) (C-1064):</b> 67		<b>Cubic Yards:</b> 10	<b>Depart</b>
		<b>Design (psi):</b> 4000	7:00

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
600-13A	8.55	4.15	13.52	10/22/2014	Lab	11	4	56.4	4170
600-13B	8.55	4.02	12.68	11/8/2014	Lab	28	5	63.6	5020
600-13C	8.50	4.01	12.65	11/8/2014	Lab	28	5	64.1	5070
600-13D	8.50			Hold	Lab				

Fracture Types



Remarks: W/C=0.49

## Report of Concrete Compressive Strength

ASTM C-31 &amp; C-39

**Project Name:** Portland ME - Portland Yacht Services- Phase II Construction **Project Number:** 13-0912.2  
 Materials Testing

**Client:** Portland Yacht Services, Inc.

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** AUBURN CONCRETE

### PLACEMENT INFORMATION

**Date Cast:** 10/11/2014 **Time Cast:** 7:35 **Date Received:** 10/13/2014

**Placement Location:** SLAB: A TO M & 1 TO 4

**Placement Method:** PUMP

**Placement Vol. (yd<sup>3</sup>):** 325

**Cylinders Made By:** ROGER DOMINGO

**Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

**Minimum (°F)** 50 **Maximum (°F)** 65

### DELIVERY INFORMATION

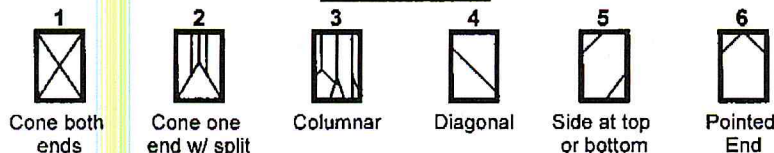
**Admixtures:** MASTER SET 1%  
 MASGLENIUM 7500

### TEST RESULTS

<b>Slump (in) (C-143):</b>	<b>Slump WR:</b> 7	<b>Load Number:</b> 13	<b>Batch</b>
<b>Air Content (%) (C-231)</b>	<b>Air WR:</b> 2.5	<b>Mixer Number:</b> 99	6:55
<b>Air Temp (°F):</b> 47		<b>Ticket Number:</b> 246746	<b>Arrive</b>
<b>Conc. Temp (°F) (C-1064):</b> 66		<b>Cubic Yards:</b> 10	<b>Depart</b>
		<b>Design (psi):</b> 4000	7:04

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In <sup>2</sup> )	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
600-14A	8.50	4.01	12.63	10/22/2014	Lab	11	4	58.0	4590
600-14B	8.50	3.99	12.52	11/8/2014	Lab	28	5	61.7	4930
600-14C	8.45	3.99	12.47	11/8/2014	Lab	28	5	62.5	5010
600-14D	8.60			Hold	Lab				

#### Fracture Types



Remarks: W/C=0.49



## Report of Concrete Compressive Strength

ASTM C-31 &amp; C-39

**Project Name:** Portland ME - Portland Yacht Services- Phase II Construction **Project Number:** 13-0912.2  
 Materials Testing

**Client:** Portland Yacht Services, Inc.

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** AUBURN CONCRETE

### PLACEMENT INFORMATION

**Date Cast:** 10/11/2014      **Time Cast:** 9:20      **Date Received:** 10/13/2014

**Placement Location:** SLAB: A TO M & 1 TO 4

**Placement Method:** PUMP

**Placement Vol. (yd<sup>3</sup>):** 325

**Cylinders Made By:** ROGER DOMINGO

**Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

**Minimum (°F)** 50      **Maximum (°F)** 65

### DELIVERY INFORMATION

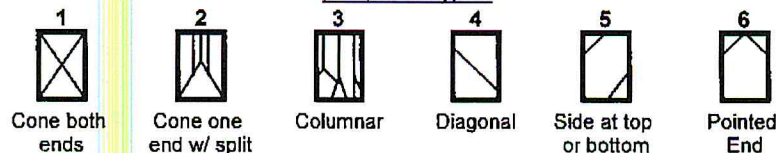
**Admixtures:** MASTER SET 1%  
MASGLENIUM 7500

### TEST RESULTS

<b>Slump (in) (C-143):</b> 6.5	<b>Slump WR:</b> 6	<b>Load Number:</b> 27	<b>Batch</b> 8:28
<b>Air Content (%) (C-231)</b>	<b>Air WR:</b> 2.6	<b>Mixer Number:</b> 163	<b>Arrive</b>
<b>Air Temp (°F):</b> 48		<b>Ticket Number</b> 246761	<b>Depart</b> 9:30
<b>Conc. Temp (°F) (C-1064):</b> 65		<b>Cubic Yards:</b> 10	
		<b>Design (psi):</b> 4000	

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(in) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
600-15A	8.35	4.00	12.59	10/22/2014	Lab	11	4	59.0	4690
600-15B	8.50	4.00	12.58	11/8/2014	Lab	28	5	65.2	5180
600-15C	8.50	4.00	12.59	11/8/2014	Lab	28	5	63.8	5070
600-15D	8.45			Hold	Lab				

#### Fracture Types



Remarks:

## Report of Concrete Compressive Strength

ASTM C-31 &amp; C-39

**Project Name:** Portland ME - Portland Yacht Services- Phase II Construction **Project Number:** 13-0912.2  
 Materials Testing

**Client:** Portland Yacht Services, Inc.

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** AUBURN CONCRETE

### PLACEMENT INFORMATION

**Date Cast:** 10/11/2014      **Time Cast:** 10:10      **Date Received:** 10/13/2014

**Placement Location:** SLAB: A TO M & 1 TO 4

**Placement Method:** PUMP

**Placement Vol. (yd<sup>3</sup>):** 325

**Cylinders Made By:** ROGER DOMINGO

**Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

**Minimum (°F)** 50      **Maximum (°F)** 65

### DELIVERY INFORMATION

**Admixtures:** MASTER SET 1%  
 MASGLENIUM 7500

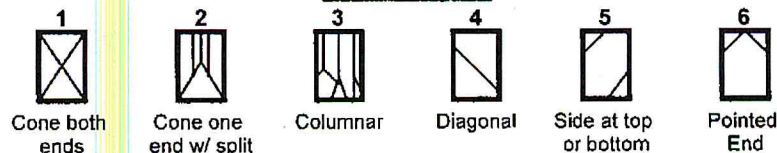
### TEST RESULTS

**Slump (in) (C-143):** 6.5      **Slump WR:** 4 3/4  
**Air Content (%) (C-231)**      **Air WR:** 2.4  
**Air Temp (°F):** 49  
**Conc. Temp (°F) (C-1064):** 66

**Load Number:** 32      **Batch** 9:28  
**Mixer Number:** 99      **Arrive**  
**Ticket Number** 246766  
**Cubic Yards:** 10      **Design (psi):** 4000      **Depart** 10:10

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
600-16A	8.50	4.01	12.60	10/22/2014	Lab	11	4	58.6	4650
600-16B	8.50	4.01	12.60	11/8/2014	Lab	28	5	64.2	5100
600-16C	8.50	4.01	12.65	11/8/2014	Lab	28	5	64.7	5120
600-16D	8.50			Hold	Lab				

#### Fracture Types



Remarks: W/C=0.49



# Report of Field Density ASTM D6938

Project: **PORTLAND ME - PORTLAND YACHT SERVICES- PHASE II CONSTRUCTION MATERIALS TESTING**

Project Number: **13-0912.2**

Client: **PORTLAND YACHT SERVICES, INC.**

## Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
1	8/21/2014	CMH	B.4 LINE, 30'	6.77	12	18613G	125.2	4.1	95.6	95
2	8/21/2014	CMH	B.4 LINE, 60'	6.77	12	18613G	125.9	4.4	96.1	95
3	8/21/2014	CMH	B.4 LINE, 90'	6.77	12	18613G	123.6	5.1	94.4	95
4	8/21/2014	CMH	B.4 LINE, 120'	6.77	12	18613G	125.9	4.7	96.1	95
5	8/21/2014	CMH	C LINE, 30'	6.77	12	18613G	125.8	2.9	96.0	95
6	8/21/2014	CMH	C LINE, 60'	6.77	12	18613G	129.9	2.8	99.2	95
7	8/21/2014	CMH	C LINE, 90'	6.77	12	18613G	132.1	2.3	100.8	95

## Laboratory Compaction Test Reference

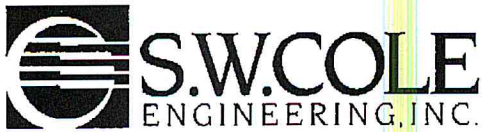
Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
18613G	8/22/2014	Phinney Pit	Aggregate Subbase	ASTM D-1557 Modified C	131.0	6.8	

Elevation Notes:

Comments:

ALL TESTS AT INTERIOR PIER FOOTINGS

  
 \_\_\_\_\_  
 Reviewed By



# Report of Field Density

## ASTM D6938

Project: PORTLAND ME - PORTLAND YACHT SERVICES- PHASE II CONSTRUCTION  
MATERIALS TESTING

Project Number: 13-0912.2

Client: PORTLAND YACHT SERVICES, INC.

### Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
8	8/28/2014	VLT	B2	115	12	18613G	129.7	2.9	99.0	95
9	8/28/2014	VLT	C3	115	12	18613G	130.9	3.4	99.9	95
10	8/28/2014	VLT	B6	115	12	18613G	129.5	3.0	98.9	95


### Laboratory Compaction Test Reference

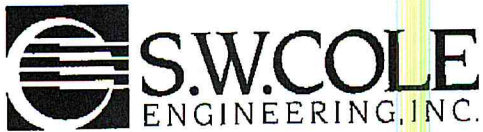
Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
18613G	8/22/2014	Phinney Pit	Aggregate Subbase	ASTM D-1557 Modified C	131.0	6.8	

Elevation Notes:

Comments:

ALL LOCATIONS ARE INTERIOR FOOTINGS

  
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 Reviewed By



# Report of Field Density

## ASTM D6938

Project: PORTLAND ME - PORTLAND YACHT SERVICES- PHASE II CONSTRUCTION  
MATERIALS TESTING

Project Number: 13-0912.2

Client: PORTLAND YACHT SERVICES, INC.

### Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
11	9/2/2014	CMH	30' OFF BLDG CL TRENCH	6.77	12	18613G	124.8	3.0	95.3	95
12	9/2/2014	CMH	60' OFF BLDG CL TRENCH	6.77	12	18613G	125.9	2.6	96.1	95

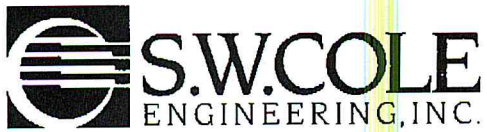
### Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
18613G	8/22/2014	Phinney Pit	Aggregate Subbase	ASTM D-1557 Modified C	131.0	6.8	

Elevation Notes:

Comments:  
CL - CENTER LINE

  
 Reviewed By



# Report of Field Density ASTM D6938

Project: PORTLAND ME - PORTLAND YACHT SERVICES- PHASE II CONSTRUCTION  
MATERIALS TESTING

Project Number: 13-0912.2

Client: PORTLAND YACHT SERVICES, INC.

## Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
13	9/16/2014	FC	L.3 @ 5.2	1'	12	18613G	125.4	2.7	95.7	95
14	9/16/2014	FC	A @ 5	1'	12	18613G	126.7	3.4	96.7	95

## Laboratory Compaction Test Reference

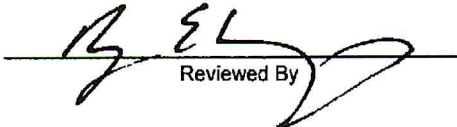
Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
18613G	8/22/2014	Phinney Pit	Aggregate Subbase	ASTM D-1557 Modified C	131.0	6.8	

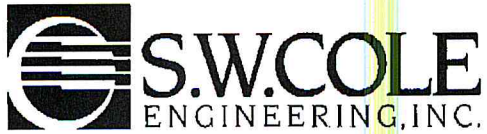
**Elevation Notes:**

ALL ELEVATIONS ARE BELOW FINISH GRADE

**Comments:**

ALL LOCATIONS ARE INTERIOR BACKFILL

  
 Reviewed By



# Report of Field Density

## ASTM D6938

Project: PORTLAND ME - PORTLAND YACHT SERVICES- PHASE II CONSTRUCTION  
MATERIALS TESTING

Project Number: 13-0912.2

Client: PORTLAND YACHT SERVICES, INC.

### Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
15	9/18/2014	CLC	PIER AT I2	FG	121	18613G	128.9	1.6	98.4	95
16	9/18/2014	CLC	PIER AT I3	FG	121	18613G	127.2	2.0	97.1	95
17	9/18/2014	CLC	PIER AT C2	FG	121	18613G	126.5	2.1	96.6	95

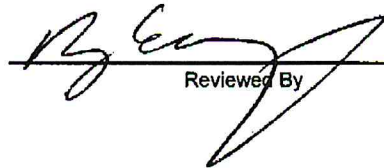
### Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
18613G	8/22/2014	Phinney Pit	Aggregate Subbase	ASTM D-1557 Modified C	131.0	6.8	

**Elevation Notes:**

FG - FINISH GRADE

**Comments:**

  
 \_\_\_\_\_  
 Reviewed By



# Report of Field Density

## ASTM D6938

Project: PORTLAND ME - PORTLAND YACHT SERVICES- PHASE II CONSTRUCTION  
MATERIALS TESTING

Project Number: 13-0912.2

Client: PORTLAND YACHT SERVICES, INC.

### Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
18	9/26/2014	FC	N WALL - A AT 2.2	TGG	12	18613G	126.1	3.4	96.3	95
19	9/26/2014	FC	W WALL - 1 AT M.5	TGG	12	18613G	125.0	2.5	95.4	95
20	9/26/2014	FC	W WALL - 1 AT I	TGG	12	18613G	126.6	3.1	96.6	95

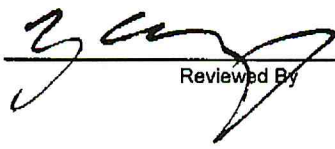
### Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
18613G	8/22/2014	Phinney Pit	Aggregate Subbase	ASTM D-1557 Modified C	131.0	6.8	

**Elevation Notes:**

TGG - TOP OF GRAVEL GRADE

**Comments:**

  
 \_\_\_\_\_  
 Reviewed By

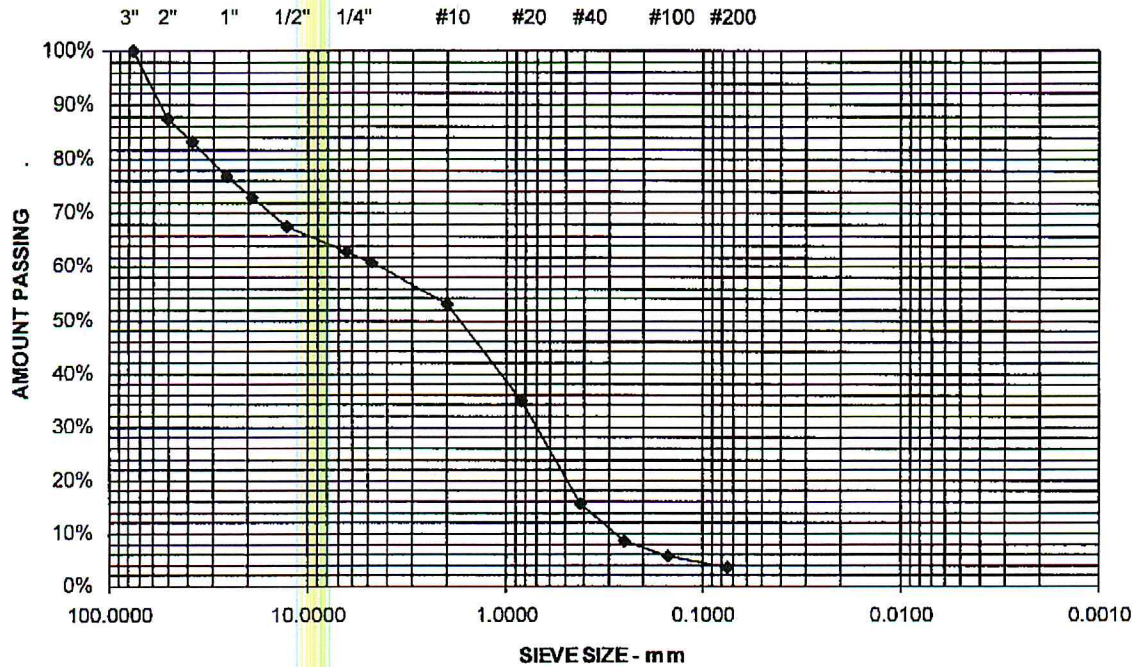


Project Name PORTLAND ME - PORTLAND YACHT SERVICES- PHASE II  
CONSTRUCTION MATERIALS TESTING  
Client PORTLAND YACHT SERVICES, INC.  
Material Type AGGREGATE SUBBASE  
Material Source PHINNEY PIT

Project Number 13-0912.2  
Lab ID 18613G  
Date Received 8/22/2014  
Date Completed 8/27/2014  
Tested By VAN TERRELL, JR.

<u>STANDARD</u> <u>DESIGNATION (mm/µm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	<u>MDOT 703.06 TYPE D</u> <u>SPECIFICATIONS (%)</u>
150 mm	6"	100	100
125 mm	5"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	87	
38.1 mm	1-1/2"	83	
25.0 mm	1"	77	
19.0 mm	3/4"	73	
12.5 mm	1/2"	68	
6.3 mm	1/4"	63	25 - 70
4.75 mm	No. 4	61	
2.00 mm	No. 10	53	
850 µm	No. 20	35	
425 µm	No. 40	16	0 - 30
250 µm	No. 60	8	
150 µm	No. 100	6	
75 µm	No. 200	3.7	0.0 - 7.0

SAMPLE MEETS SPECIFICATION



Comments

  
Roger E. Domingo



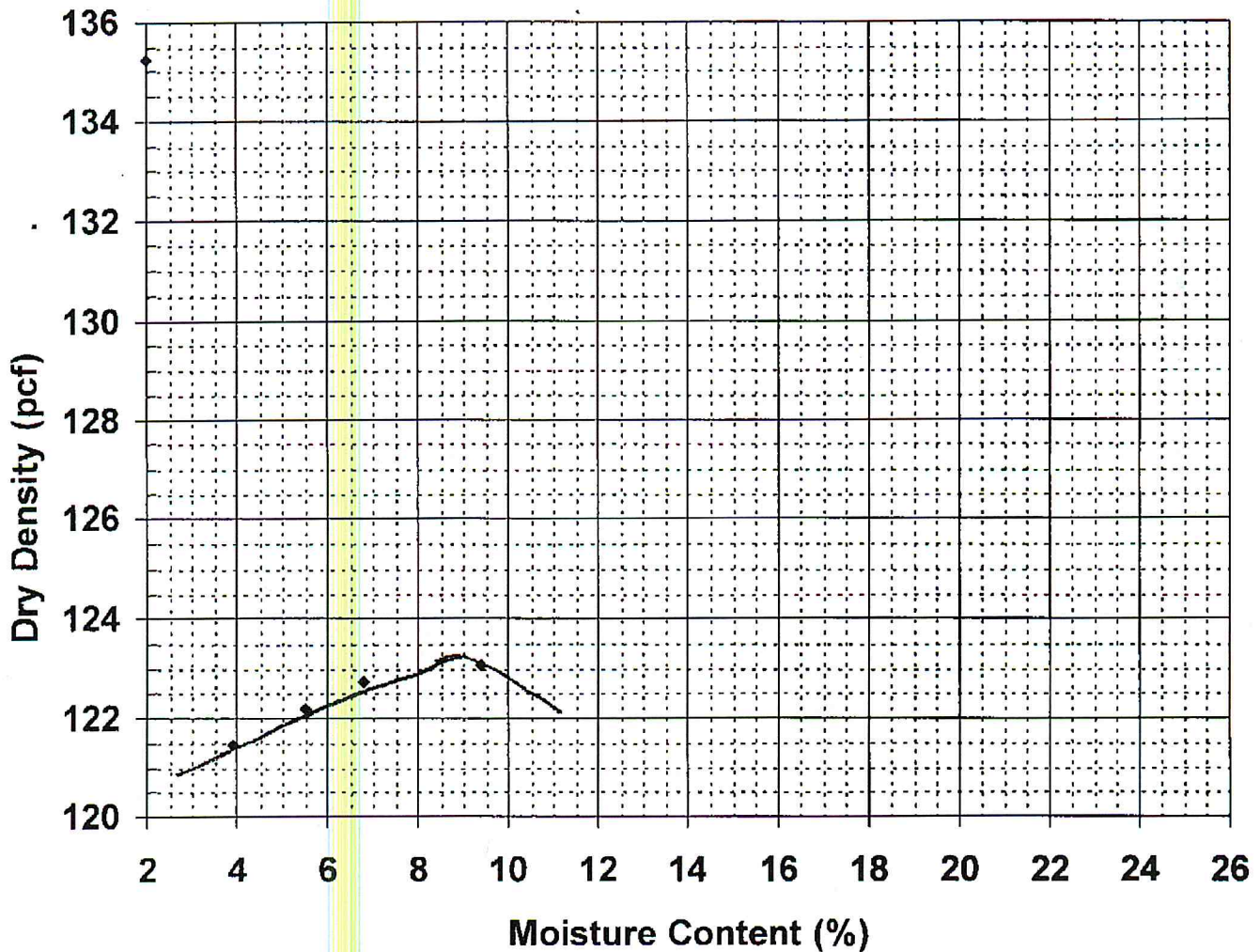
# Report of Moisture-Density

Method ASTM D-1557 MODIFIED Procedure C

Project Name PORTLAND ME - PORTLAND YACHT SERVICES- PHASE II  
 CONSTRUCTION MATERIALS TESTING  
 Client PORTLAND YACHT SERVICES, INC.  
 Material Type AGGREGATE SUBBASE  
 Material Source PHINNEY PIT

Project Number 13-0912.2  
 Lab ID 18613G  
 Date Received 8/22/2014  
 Date Completed 8/28/2014  
 Tested By CHRISTOPHER HENES

## Moisture-Density Relationship Curve



Maximum Dry Density (pcf) 123.4  
 Optimum Moisture Content (%) 8.6  
 Percent Oversized 27.1%

Corrected Dry Density (pcf) **131**  
Corrected Moisture Content (%) **6.8**

Comments

Roger E. Domingo

**Project:**  
**Date Prepared:**

## Structural Statement of Special Inspections

---

Project:

Location:

Owner:

---

This *Statement of Special Inspections* encompass the following discipline: **Structural**

This *Statement of Special Inspections* is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Structural Special Inspection Coordinator (SSIC) and the identity of other approved agencies to be retained for conducting these inspections and tests.

The Structural Special Inspection Coordinator shall keep records of all Structural inspections and shall furnish inspection reports to the Building Code Official (BCO) and the Structural Registered Design Professional in Responsible Charge (SRDP). Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Structural Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

Interim reports shall be submitted to the Building Official and the Structural Registered Design Professional in Responsible Charge at an interval determined by the SSIC and the BCO.

A *Final Report of Special Inspections* documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted to the BCO prior to issuance of a Certificate of Use and Occupancy.

Job site safety and means and methods of construction are solely the responsibility of the Contractor.

Interim Report Frequency:  Upon request of Building Official \_\_\_\_\_ or  per attached schedule.

Prepared by:

*John Q. Public, P.E.*

\_\_\_\_\_  
(type or print name of the Structural Registered Design Professional in Responsible Charge)



\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

Owner's Authorization:

Building Code Official's Acceptance:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

---

**Project:**  
**Date Prepared:**

## Structural Statement of Special Inspections (Continued)

### List of Agents

Project:

Location:

Owner:

This *Statement of Special Inspections* encompass the following discipline: **Structural**

(Note: *Statement of Special Inspections* for other disciplines may be included under a separate cover)

This Statement of Special Inspections / Quality Assurance Plan includes the following building systems:

- Soils and Foundations
- Cast-in-Place Concrete
- Precast Concrete System
- Masonry Systems
- Structural Steel
- Wood Construction
- Special Cases

Special Inspection Agencies	Firm	Address, Telephone, e-mail
1. STRUCTURAL Special Inspections Coordinator (SSIC)		
2. Special Inspector (SI 1)		
3. Special Inspector (SI 2)		
4. Testing Agency (TA 1)		
5. Testing Agency (TA 2)		
6. Other (O1)		

Note: The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to commencing work.

**Project:**  
**Date Prepared:**

## Structural Statement of Special Inspections (Continued)

---

### Final Report of Special Inspections (SSIC/SI 1)

[To be completed by the Structural Special Inspections Coordinator (SSIC/SI 1). Note that all Agent's Final Reports must be received prior to issuance.]

Project:  
Location:  
Owner:  
Owner's Address:

Architect of Record: \_\_\_\_\_  
(name) (firm)

Structural Registered Design  
Professional in Responsible Charge: John Q. Public \_\_\_\_\_  
(name) (firm)

To the best of my information, knowledge and belief, the Special Inspections required for this project, and itemized in the *Statement of Special Inspections* submitted for permit, have been performed and all discovered discrepancies have been reported and resolved.

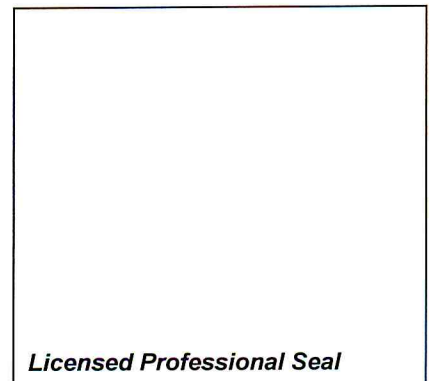
Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

Respectfully submitted,  
Structural Special Inspection Coordinator

\_\_\_\_\_  
(Type or print name)

\_\_\_\_\_  
(Firm Name)

\_\_\_\_\_  
Signature Date



Project:  
Date Prepared:

## Structural Statement of Special Inspections (Continued)

---

### Special Inspector's/Agent's Final Report

Project:  
Special Inspector or  
Agent:

\_\_\_\_\_

(name)

\_\_\_\_\_

(firm)

Designation:

To the best of my information, knowledge and belief, the Special Inspections or testing required for this project, and designated for this Inspector/Agent in the *Statement of Special Inspections* submitted for permit, have been performed and all discovered discrepancies have been reported and resolved.

Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

Respectfully submitted,  
Special Inspector or Agent:

\_\_\_\_\_  
(Type or print name)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
**Licensed Professional Seal or  
Certification Number**

**Project:**  
**Date Prepared:**

## **Structural Schedule of Special Inspections**

---

### **Qualifications of Inspectors and Testing Technicians**

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided to the Special Inspector for their records. *NOTE VERIFICATION THAT QUALIFIED INDIVIDUALS ARE AVAILABLE TO PERFORM STIPULATED TESTING AND/OR INSPECTION SHOULD BE PROVIDED PRIOR TO SUBMITTING STATEMENT. AGENT QUALIFICATIONS IN SCHEDULE ARE SUGGESTIONS ONLY; FINAL QUALIFICATIONS ARE SUBJECT TO THE DISCRETION OF THE REGISTERED DESIGN PROFESSIONAL PREPARING THE SCHEDULE.*

#### **Key for Minimum Qualifications of Inspection Agents:**

When the Registered Design Professional in Responsible Charge or Special Inspector of Record deems it appropriate that the individual performing a stipulated test or inspection have a specific certification, license or experience as indicated below, such requirement shall be listed below and shall be clearly identified within the schedule under the Agent Qualification Designation.

PE/SE	Structural Engineer – a licensed SE or PE specializing in the design of building structures
PE/GE	Geotechnical Engineer – a licensed PE specializing in soil mechanics and foundations
EIT	Engineer-In-Training – a graduate engineer who has passed the Fundamentals of Engineering examination

#### **Experienced Testing Technician**

ETT	Experienced Testing Technician – An Experienced Testing Technician with a minimum 5 years experience with the stipulated test or inspection
-----	---

#### **American Concrete Institute (ACI) Certification**

ACI-CFTT	Concrete Field Testing Technician – Grade 1
ACI-CCI	Concrete Construction Inspector
ACI-LTT	Laboratory Testing Technician – Grade 1&2
ACI-STT	Strength Testing Technician

#### **American Welding Society (AWS) Certification**

AWS-CWI	Certified Welding Inspector
AWS/AISC-SSI	Certified Structural Steel Inspector

#### **American Society of Non-Destructive Testing (ASNT) Certification**

ASNT	Non-Destructive Testing Technician – Level II or III.
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#### **International Code Council (ICC) Certification**

ICC-SMSI	Structural Masonry Special Inspector
ICC-SWSI	Structural Steel and Welding Special Inspector
ICC-SFSI	Spray-Applied Fireproofing Special Inspector
ICC-PCSI	Prestressed Concrete Special Inspector
ICC-RCSI	Reinforced Concrete Special Inspector

#### **National Institute for Certification in Engineering Technologies (NICET)**

NICET-CT	Concrete Technician – Levels I, II, III & IV
NICET-ST	Soils Technician - Levels I, II, III & IV
NICET-GET	Geotechnical Engineering Technician - Levels I, II, III & IV

#### **Other**

---

Project:

Date Prepared:

## Structural Schedule of Special Inspections

### SOILS & FOUNDATION CONSTRUCTION

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
IBC Section 1704.7, 1704.8, 1704.9						
1. Verify existing soil conditions, fill placement and load bearing requirements						
a. Prior to placement of prepared fill, determine that the site has been prepared in accordance with the approved soils report.		P	IBC 1704.7.1		PE/GE, EIT or ETT	
b. During placement and compaction of fill material, verify material being used and maximum lift thickness comply with the approved soils report.		P	IBC 1704.7.2		PE/GE, EIT or ETT	
c. Test in-place dry density of compacted fill complies with the approved soils report.		p	IBC 1704.7.2		PE/GE, EIT or ETT	
2. Pile foundations:						
a. Observe and record procedures for static load testing of piles.		C	IBC 1704.8		PE/GE, EIT or ETT	
b. Observe and record procedures for dynamic load testing of piles.		C			PE/GE, EIT or ETT	
c. Record installation of each pile and results of load test. Include cutoff and tip elevations of each pile relative to permanent reference.		C			PE/GE, EIT or ETT	
d. Test welded splices of steel piles		C	AWS D1.1		AWS-CWI	
3. Pier foundations: Verify installation of pier foundations for buildings assigned to Seismic Design Category C, D, E or F.		C	IBC 1704.9		PE/GE, EIT or ETT	
a. Verify pier diameter and length		C			PE/GE, EIT or ETT	
b. Verify pier embedment (socket) into bedrock		P			PE/GE, EIT or ETT	
c. Verify suitability of end bearing strata		P			PE/GE, EIT or ETT	



**Project:**  
**Date Prepared:**

**Structural Schedule of Special Inspections**  
**CONCRETE CONSTRUCTION**

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
<b>IBC Section 1704.4</b>						
1. Inspection of reinforcing steel, including prestressing tendons, and placement		P	ACI 318: 3.5, 7.1-7.7		PE/SE or EIT	
2. Inspection of reinforcing steel welding in accordance with Table 1704.3, Item 5B			Welding of Reinf Not Allowed		AWS-CWI	
3. Inspect bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased		C	IBC 1912.5		PE/SE or EIT	
4. Verifying use of required design mix		P	ACI 318: Ch 4, 5.2-5.4		PE/SE or EIT	
5. At time fresh concrete is sampled to fabricate specimens for strength test, perform slump and air content test and temperature		C	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8		ACI-CFTT or ACI-STT	
6. Inspection of concrete and shotcrete placement for proper application techniques		C	ACI 318: 5.9, 5.10		PE/SE or EIT	
7. Inspection for maintenance of specified curing temperature and techniques		P	ACI 318: 5.11-5.13		PE/SE or EIT	
8. Inspection of Prestressed Concrete						
a. Application of prestressing force.		C	ACI 318: 18.20		PE/SE or EIT	
b. Grouting of bonded prestressing tendons in seismic force resisting system		C	ACI 318: 18.18.4		PE/SE or EIT	
9. Erection of precast concrete members		P	ACI 318: Ch 16		PE/SE or EIT	
10. Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms beams and structural slabs		P	ACI 318: 6.2		ACI-STT	

Project:

Date Prepared:

**Structural Schedule of Special Inspections - STEEL CONSTRUCTION**

VERIFICATION AND INSPECTION  IBC Section 1704.3	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Material verification of high-strength bolts, nuts and washers:						
a. Identification markings to conform to ASTM standards specified in the approved construction documents.		S	Applicable ASTM material specifications; AISC 335, Section A3.4; AISC LRFD, Section A3.3	ESSEX	PE/SE or EIT	
b. Manufacturer's certificate of compliance required.		S		ESSEX	PE/SE or EIT	
2. Inspection of high-strength bolting						
a. Bearing-type connections.		P	AISC LRFD Section M2.5		AWS/AISC-SSI	
b. Slip-critical connections.		C or P (method dependent)	IBC Sect 1704.3.3		AWS/AISC-SSI	
3. Material verification of structural steel (IBC Sect 1708.4):				SJB		
a. Identification markings to conform to ASTM standards specified in the approved construction documents.		S	ASTM A 6 or ASTM A 568 IBC Sect 1708.4	ESSEX	PE/SE or EIT	
b. Manufacturers' certified mill test reports.		S	ASTM A 6 or ASTM A 568 IBC Sect 1708.4	ESSEX	PE/SE or EIT	
4. Material verification of weld filler materials:				SJB		
a. Identification markings to conform to AWS specification in the approved construction documents.		S	AISC, ASD, Section A3.6; AISC LRFD, Section A3.5		PE/SE or EIT	
b. Manufacturer's certificate of compliance required.		S		ESSEX	PE/SE or EIT	
5. Submit current AWS D1.1 welder certificate for all field welders who will be welding on this project.		S	AWS D1.1	ESSEX	PE/SE or EIT	
6. Inspection of welding (IBC 1704.3.1):				SJB		
a. Structural steel:				SJB		
1) Complete and partial penetration groove welds.		C	AWS D1.1	SJB	AWS-CWI	
2) Multipass fillet welds.		C		SJB	AWS-CWI	
3) Single-pass fillet welds > 5/16"		C		SJB	AWS-CWI	
4) Single-pass fillet welds < 5/16"		P		SJB	AWS-CWI	
5) Floor and deck welds.		P	AWS D1.3		AWS-CWI	
b. Reinforcing steel (IBC Sect 1903.5.2):						
1) Verification of weldability of reinforcing steel other than ASTM A706.		C	AWS D1.4 ACI 318: 3.5.2			
2) Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special reinforced concrete shear walls and shear reinforcement.		C			AWS-CWI	
3) Shear reinforcement.		C			AWS-CWI	
4) Other reinforcing steel.		P			AWS-CWI	
7. Inspection of steel frame joint details for compliance (IBC Sect 1704.3.2) with approved construction documents:						
a. Details such as bracing and stiffening.		P			PE/SE or EIT	
b. Member locations.		P			PE/SE or EIT	
c. Application of joint details at each connection.		P			PE/SE or EIT	

Project:  
Date Prepared:

**Structural Schedule of Special Inspection Services**  
**FABRICATION AND IMPLEMENTATION PROCEDURES – STRUCTURAL STEEL**

VERIFICATION AND INSPECTION  IBC Section 1704.2	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Fabrications Procedures: Review of fabricator's written procedural and quality control manuals and periodic auditing of fabrication practices by an approved special inspection agency. At the completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents. -OR- 2. AISC Certification		S	Fabricator shall submit one of the two qualifications	SJB	PE/SE or EIT	
3. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents.		S	IBC 1704.2.2	ESSEX	PE/SE or EIT	

SJB Inspection Services  
60 Miller Street  
Cortland, NY 13045

**Project:**  
**Date Prepared:**

## Contractor's Statement of Responsibility

---

Each contractor responsible for the construction or fabrication of a system or component designated in the Quality Assurance Plan must submit a Statement of Responsibility. The Statement of Responsibility is required for Seismic Design Category C or higher. Make additional copies of this form as required.

Project:

Contractor's Name:

Address:

License No.:

Description of designated building systems and components included in the Statement of Responsibility:

### Contractor's Acknowledgment of Special Requirements

I hereby acknowledge that I have received, read, and understand the Quality Assurance Plan and Special Inspection program.

I hereby acknowledge that control will be exercised to obtain conformance with the construction documents approved by the Building Official.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

### Contractor's Provisions for Quality Control

Procedures for exercising control within the contractor's organization, the method and frequency of reporting and the distribution of reports is attached to this Statement.

Identification and qualifications of the person(s) exercising such control and their position(s) in the organization are attached to this Statement.

Project:  
Date Prepared:

Structural Statement of Special Inspections (Continued)

Special Inspector's/Agent's Final Report

Project:  
Special Inspector or Agent: Roger R. Gagnon PE Gagnon Engineering Inc  
Agent: (name) Roger R Gagnon (firm)  
Designation: SSIC

To the best of my information, knowledge and belief, the Special Inspections or testing required for this project, and designated for this Inspector/Agent in the *Statement of Special Inspections* submitted for permit, have been performed and all discovered discrepancies have been reported and resolved.

Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

Respectfully submitted,  
Special Inspector or Agent:

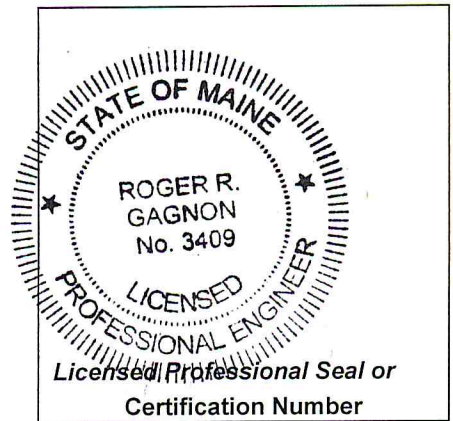
Roger R Gagnon

(Type or print name)

Roger R. Gagnon

Signature

Date





Contract  
Drilling and  
Testing

Central New York Office  
60 Miller Street Extension  
Cortland, NY 13045  
Telephone: (607) 758-7182  
Fax: (607) 758-7188

## STEEL INSPECTION REPORT

ESSEX STRUCTURAL STEEL CO., INC.  
607 ROUTE 13  
CORTLAND, NY 13045

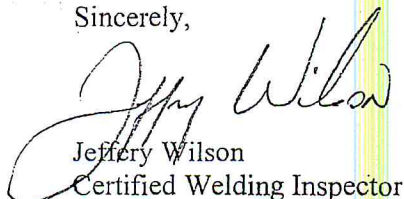
RE: IRISHSPAN INDUSTRIES.CANAL LANDING (ESSEX JOB NUMBER S1468)

This SJB Services, Inc. Structural Steel and Welding Inspector was present at Essex Structural Steel Co., Inc. facility to monitor and examine the structural steel fabricated in accordance with project specifications, drawings, and building code which includes the following:

1. AISC: Specification for the Design of Structural Steel for Buildings/ 14<sup>TH</sup> Ed.
2. AISI: Specification for Design of Cold Formed Steel Structural Members/ 2008 Ed.
3. MBMA: Low Rise Building Systems Manual/ 2006 Ed. Supplement 2010
4. AWS: American Welding Standards D1.1/ 2010 Ed.

Welding practices were found to be acceptable and compliant to the above listed guidelines and practices. Structural Steel Members were comprised of Columns and Rafters and were found to be acceptable for workmanship, weld quality, and weld quantity. Material traceability was found to be maintained throughout fabrication processes from raw material to finished product. Filler Material used in welding practices was found to be in compliance with American Welding Society Welding Code Practices.

Sincerely,

  
Jeffery Wilson  
Certified Welding Inspector



Jeffery S. Wilson  
CWI 02001801  
CWI EXP. 07/2013

# DAVIS INSPECTION SERVICE, INC.

200 NORTH MONTICELLO DRIVE, SYRACUSE, NEW YORK 13205 PHONE 492-9345

## WELDER AND WELDING OPERATOR QUALIFICATION TEST REPORT

CLIENT: Essex Structural Steel Co., Inc.  
607 State Rte 13  
Cortland, NY 13045

DATE: 4-10-07  
Lab No: 07-102

Welder/Welder Operators Name Tom Greene Soc. Sec. # \_\_\_\_\_

Welding Code AWS D1.1 Plate  Pipe \_\_\_\_\_ Thickness/Diameter .375"

Weld Process GMAW Material ASTM-A36 Position 1G Flat Joint Design Groove

Thickness Range Qualified up to .750" Welding Procedure No. ES-CS-1 Polarity DCEP

Current DC+ Amps 275-450 Volts 29-33 Welding Witnessed by William Davis, DIS, Inc.

FILLER METAL: Specification No. AWS 5.18 Classification E70C-6MR8 Diameter 1/16" Wire Spd. \_\_\_\_\_

Backing Yes Shielding Gas 35 Mix Flow 35-50CFH Trade Name Lincoln Metalshield

VISUAL INSPECTION: (AWS) Appearance Satisfactory undercut None Porosity None

### GUIDED BEND TESTS:

Type \_\_\_\_\_ Face Bend Results \_\_\_\_\_ Meets Code \_\_\_\_\_

Type \_\_\_\_\_ Root Bend Results \_\_\_\_\_ Meets Code \_\_\_\_\_

Type \_\_\_\_\_ Results \_\_\_\_\_

Type \_\_\_\_\_ Results \_\_\_\_\_

### RADIOGRAPHIC TEST RESULTS: NA

Film identification \_\_\_\_\_ Results \_\_\_\_\_ Remarks \_\_\_\_\_

### FILLET WELD TEST RESULTS NA

Weld Appearance \_\_\_\_\_ Size \_\_\_\_\_ Macro Etch Results \_\_\_\_\_

### QUALIFICATION RESULTS:

The welder/operator identified above  Does \_\_\_\_\_ Does not meet the performance qualifications specified in the Code identified above for the variables stated.

Respectfully Submitted,



Davis Inspection Service, Inc.

# DAVIS INSPECTION SERVICE, INC.

200 NORTH MONTICELLO DRIVE, SYRACUSE, NEW YORK 13205 PHONE 492-9345

## WELDER AND WELDING OPERATOR QUALIFICATION TEST REPORT

CLIENT: Essex Structural Steel Co., Inc.  
607 State Rte 13  
Cortland, NY 13045

DATE: 4-10-07  
Lab No: 07-106

Welder/Welder Operators Name John T Stafford Jr Soc. Sec. # \_\_\_\_\_

Welding Code AWS D1.1 Plate  Pipe \_\_\_\_\_ Thickness/Diameter .375"

Weld Process GMAW Material ASTM-A36 Position 1G Flat Joint Design Groove

Thickness Range Qualified up to .750" Welding Procedure No. ES-CS-1 Polarity DCEP

Current DC+ Amps 275-450 volts 29-33 Welding Witnessed by William Davis, DIS, Inc.

FILLER METAL: Specification No. AWS 5.18 Classification E70C-6MR8 Diameter 1/16" Wire Spd. \_\_\_\_\_

Backing Yes Shielding Gas. 35 Mix Flow 35-50CFH Trade Name Lincoln Metalshield

VISUAL INSPECTION: (AWS) Appearance Satisfactory undercut None Porosity None

### GUIDED BEND TESTS:

Type \_\_\_\_\_ Face Bend Results \_\_\_\_\_ Meets Code \_\_\_\_\_

Type \_\_\_\_\_ Root Bend Results \_\_\_\_\_ Meets Code \_\_\_\_\_

Type \_\_\_\_\_ Results \_\_\_\_\_

Type \_\_\_\_\_ Results \_\_\_\_\_

### RADIOGRAPHIC TEST RESULTS: NA

Film identification \_\_\_\_\_ Results \_\_\_\_\_ Remarks \_\_\_\_\_

### FILLET WELD TEST RESULTS NA

Weld Appearance \_\_\_\_\_ Size \_\_\_\_\_ Macro Etch Results \_\_\_\_\_

### QUALIFICATION RESULTS:

The welder/operator identified above XX Does \_\_\_\_\_ Does not meet the performance qualifications specified in the Code identified above for the variables stated.

Respectfully Submitted,



Davis Inspection Service, Inc.



# DAVIS INSPECTION SERVICE, INC.

200 NORTH MONTICELLO DRIVE, SYRACUSE, NEW YORK 13205 PHONE 492-9345

## WELDER AND WELDING OPERATOR QUALIFICATION TEST REPORT

CLIENT: Essex Structural Steel Co., Inc.  
607 State Rte 13  
Cortland, NY 13045

DATE: 4-10-07  
Lab No: 07-108

Welder/Welder Operators Name Nate McMahon Soc. Sec. # \_\_\_\_\_

Welding Code AWS D1.1 Plate  Pipe \_\_\_\_\_ Thickness/Diameter .375"

Weld Process GMAW Material ASTM-A36 Position 1G Flat Joint Design Groove

Thickness Range Qualified up to .750" Welding Procedure No. ES-CS-1 Polarity DCEP

Current DC+ Amps 275-450 Volts 29-33 Welding Witnessed by William Davis, DIS, Inc.

FILLER METAL: Specification No. AWS 5.18 Classification E70C-6MR8 Diameter 1/16" Wire Spd. \_\_\_\_\_

Backing Yes Shielding Gas 35 Mix Flow 35-50CFH Trade Name Lincoln Metalshield

VISUAL INSPECTION: (AWS) Appearance Satisfactory undercut None Porosity None

### GUIDED BEND TESTS:

Type \_\_\_\_\_ Face Bend Results \_\_\_\_\_ Meets Code \_\_\_\_\_

Type \_\_\_\_\_ Root Bend Results \_\_\_\_\_ Meets Code \_\_\_\_\_

Type \_\_\_\_\_ Results \_\_\_\_\_

Type \_\_\_\_\_ Results \_\_\_\_\_

### RADIOGRAPHIC TEST RESULTS: NA

Film identification \_\_\_\_\_ Results \_\_\_\_\_ Remarks \_\_\_\_\_

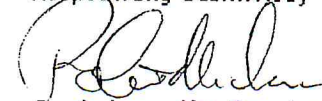
### FILLET WELD TEST RESULTS NA

Weld Appearance \_\_\_\_\_ Size \_\_\_\_\_ Macro Etch Results \_\_\_\_\_

### QUALIFICATION RESULTS:

The welder/operator identified above **XX** Does \_\_\_\_\_ Does not meet the performance qualifications specified in the Code identified above for the variables stated.

Respectfully Submitted,



Davis Inspection Service, Inc.

# DAVIS INSPECTION SERVICE, INC.

200 NORTH MONTICELLO DRIVE, SYRACUSE, NEW YORK 13205 PHONE 492-9345

## WELDER AND WELDING OPERATOR QUALIFICATION TEST REPORT

CLIENT: Essex Structural Steel Co., Inc.  
607 State Rte 13  
Cortland, NY 13045

DATE: 4-10-07  
Lab No: 07-101

Welder/Welder Operators Name Martin Greene Soc. Sec. # \_\_\_\_\_

Welding Code AWS D1.1 Plate  Pipe \_\_\_\_\_ Thickness/Diameter .375"

Weld Process GMAW Material ASTM-A36 Position 1G Flat Joint Design Groove

Thickness Range Qualified up to .750" Welding Procedure No. ES-CS-1 Polarity DCEP

Current DC+ Amps 275-450 Volts 29-33 Welding Witnessed by William Davis, DIS, inc.

FILLER METAL: Specification No. AWS 5.18 Classification E70C-6MR8 Diameter 1/16" Wire Spd. \_\_\_\_\_

Backing Yes Shielding Gas 35 Mix Flow 35-50CFH Trade Name Lincoln Metalshield

VISUAL INSPECTION: (AWS) Appearance Satisfactory undercut None Porosity None

### GUIDED BEND TESTS:

Type \_\_\_\_\_ Face Bend Results \_\_\_\_\_ Meets Code \_\_\_\_\_

Type \_\_\_\_\_ Root Bend Results \_\_\_\_\_ Meets Code \_\_\_\_\_

Type \_\_\_\_\_ Results \_\_\_\_\_

Type \_\_\_\_\_ Results \_\_\_\_\_

### RADIOGRAPHIC TEST RESULTS: NA

Film identification \_\_\_\_\_ Results \_\_\_\_\_ Remarks \_\_\_\_\_

### FILLET WELD TEST RESULTS NA

Weld Appearance \_\_\_\_\_ Size \_\_\_\_\_ Macro Etch Results \_\_\_\_\_

### QUALIFICATION RESULTS:

The welder/operator identified above XX Does \_\_\_\_\_ Does not meet the performance qualifications specified in the Code identified above for the variables stated.

Respectfully Submitted,



Davis Inspection Service, Inc.

**Subject:**Special Inspections

**Date:**Tue, 9 Sep 2014 13:22:11 +0000

**From:**Jeff R <JeffR@essexsteel.com>

**To:**roger@gagnonengineering.com <roger@gagnonengineering.com>

**CC:**Dave Fitzpatrick <dfitzpatrick@irishspan.com>

Attached is the entire document you had sent to me. I filled out pages 10-11 as it pertains to Essex and our third part Inspection Service. If we need anything else please let me know. I will also scan and forward my Certified Welder Certificates. Mill Certs and final Certification letters to follow at end of fabrication.

Thanking you in advance,

Jeff

Welders Certificates  
Certs for steel  
Inspection LETTER

1/8/2015

**Customer Name**

Essex Structural Steel Co., Inc.

**Customer PO#**

tony 5-13 email

**Shipper No**

217297

**Heat Number**

L93147

*Good*

**MATERIAL CERTIFICATION REPORT**  
METAL TRADER INC, (TRIAD METAL)  
1 Village Road  
HORSHAM PA 19044  
USA

TRIAD METALS INTERNATIONAL  
PETERSBURG, VA  
1951 BESSEMER RD.  
PETERSBURG VA 23805  
USA

AracelorMittal LaPlace  
138 HWY 3217  
LaPlace LOUISIANA 70068  
Telephone (985) 652-4900  
Export Country = USA

Tested in Accordance  
With: ASTM A6

Sales Order 114185-29 Date 2014/04/03 PO: 57037  
Product Flat bars Cust 40006875 Ref. 80640692  
Heat NO. L93147 Grade A3652950 Pieces 35  
Length 20' 00" Weight 9534  
Size 8" X1/2" X13.620

*GOOD PIECES*

CHEMICAL ANALYSIS	TEST 1		TEST 2		TEST 3	
	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC
C	0.11					
Mn	0.92					
P	0.008					
S	0.032					
Si	0.20					
Cu	0.22					
Ni	0.11					
Cr	0.11					
Mo	0.042					
Cb	0.016					
V	0					
B						
Al						
Sn	0.008					
N						
Ti						
CI	4.9					
CE	0.32					

MECHANICAL PROPERTIES	TEST 1		TEST 2		TEST 3	
	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC
YIELD STRENGTH	56000 PSI	386 MPa	56100 PSI	387 MPa		
TENSILE STRENGTH	72100 PSI	497 MPa	72300 PSI	498 MPa		
ELONGATION	24 %	24 %	26 %	26 %		
GAUGE LENGTH	8 IN	203 mm	8 IN	203 mm		
BEND TEST DIAMETER						
BEND TEST RESULTS						
SPECIMEN AREA						
REDUCTION OF AREA						
IMPACT STRENGTH						

IMPACT STRENGTH AVERAGE TEST TEMP ORIENTATION	INTERNAL CLEANLINESS		GRAIN SIZE	
	SEVERITY FREQUENCY RATING	GRAIN PRACTICE	HARDNESS	REDUCTION RATIO

This heat makes the following grades: A36-08, A52950-05, G40, 21-CSA50W, CSA44W, A70936-09a, ASME SA36-2010, A57250-07, A70950-10, AASHTO M270 Grade 36, AASHTO M270 Grade 50, AASHTO M270M Grade 345.

I hereby certify that the material test results presented here are from the reported heat and are correct. All tests were performed in accordance to the specification reported above. All steel is electric arc furnace melted (billets), manufactured, processed, tested in the U.S.A with satisfactory results. No weld repair was performed on this heat.

*Mark Edwards*

Notarized upon request:  
Sworn to and subscribed before me in and for ST. John Parish on this 3rd day of April, 2014

Signed

MARK EDWARDS, QUALITY ASSURANCE SUPERVISOR

Direct any questions or necessary clarifications concerning this report to the Sales Department 1-800-535-7692 (USA)

Notary Public

*5x8-32*

**A**

**ArcelorMittal**

ArcelorMittal LaPlace  
 138 HWY 3217  
 LaPlace LOUISIANA 70068  
 Telephone (985) 652 4900  
 Export Country = USA

**MATERIAL CERTIFICATION REPORT**

BUSHWICK METALS LLC  
 BRIDGEPORT, CT  
 560 North Washington Avenue  
 BRIDGEPORT CT 06604  
 USA

Tested in Accordance  
 With: ASTM A6

Sales Order 117539-3 Date 07/30/2014 PO: CT 1227  
 Product Flat bars Cust 40005902 Ref. 80685795  
 Heat NO. L94643 Grade A3652950 Pieces 14  
 Cust.Mat. length 20' 00" Weight 4765.6  
 Size 8" X5/8" X17.020

CHEMICAL ANALYSIS	MECHANICAL PROPERTIES		TEST 1		TEST 2		TEST 3	
	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC
C 0.12	YIELD STRENGTH	55100 PSI	380 MPa	54700 PSI	377 MPa			
Mn 0.84	TENSILE STRENGTH	75600 PSI	521 MPa	72700 PSI	501 MPa			
P 0.012	ELONGATION	38 %	38 %	36 %	36 %			
S 0.025	GAUGE LENGTH	8 IN	203 mm	8 IN	203 mm			
Si 0.20	BEND TEST DIAMETER							
Cu 0.34	BEND TEST RESULTS							
Ni 0.12	SPECIMEN AREA							
Cr 0.16	REDUCTION OF AREA							
Mo 0.050	IMPACT STRENGTH							
Cb 0.020								
V 0								

IMPACT STRENGTH	INTERNAL CLEANLINESS		GRAIN SIZE
	SEVERITY	FREQUENCY RATING	
AVERAGE			HARDNESS
TEST TEMP			GRAIN PRACTICE
ORIENTATION			REDUCTION RATIO

This heat makes the following grades: A36-08, A52950-05, G40.21-CSA50W, CSA44W, A70936-09a, ASME SA336-201C, A57250-07, A70950-10, AASHTO M270 Grade 36, AASHTO M270 Grade 50, AASHTO M270M Grade 345.

I hereby certify that the material test results presented here are from the reported heat and are correct. All tests were performed in accordance to the specification reported above. All steel is electric arc furnace melted (billets), manufactured, processed, tested in the U.S.A with satisfactory results. No weld repair was performed on this heat.

Notarized upon request: \_\_\_\_\_ Signed Mark Edwards  
 Sworn to and subscribed before me on this 30th day of July, 2014 MARK EDWARDS, QUALITY ASSURANCE SUPERVISOR

Notary Public, \_\_\_\_\_ Parish/County \_\_\_\_\_  
 Direct any questions or necessary clarifications concerning this report to the Sales Department 1-800-535-2(USA)

625 x 8 - 20

Customer Name

Essex Structural Steel Co., Inc.

Customer PO#

stock

Shipper No

227289

Heat Number

L94656



ArcelorMittal LaPlace  
138 HWY 3217  
LaPlace LOUISIANA 70068  
Telephone (985) 652-4900  
Export Country = USA

**MATERIAL CERTIFICATION REPORT**

METAL TRADER INC, (TRIAD METAL)  
1 Village Road  
HORSHAM PA 19044  
ETATS-UNIS

TRIAD METALS INTERNATIONAL

PETERSBURG, VA  
1951 BESSEMER RD.  
PETERSBURG VA 23805  
USA

Tested in Accordance  
With: ASTM A6

Sales Order 120225-2

Date 2014/07/31

PO: 61237

Product Flat bars

Cust 40006875

Ref. 80685810

Heat NO. L94656

Grade A3652950

Pieces 48

Cust.Mat.

Length 20' 00"

Weight 9801.6

Size 8" X3/8" X10.210

CHEMICAL ANALYSIS		MECHANICAL PROPERTIES	TEST 1		TEST 2		TEST 3	
			IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC
C	0.12	YIELD STRENGTH	56400 PSI	389 MPa	56000 PSI	386 MPa		
Mn	0.92	TENSILE STRENGTH	78200 PSI	539 MPa	78400 PSI	541 MPa		
P	0.010	ELONGATION	33 %	33 %	33 %	33 %		
S	0.030	GAUGE LENGTH	8 IN	203 mm	8 IN	203 mm		
Si	0.18	BEND TEST DIAMETER						
Cu	0.30	BEND TEST RESULTS						
Ni	0.16	SPECIMEN AREA						
Cr	0.13	REDUCTION OF AREA						
Mo	0.056	IMPACT STRENGTH						
Cb	0.016							
V	0							
B		IMPACT STRENGTH	IMPERIAL	METRIC	INTERNAL CLEANLINESS		GRAIN SIZE	
Al		AVERAGE			SEVERITY		HARDNESS	
Sn	0.012	TEST TEMP			FREQUENCY		GRAIN PRACTICE	
N		ORIENTATION			RATING		REDUCTION RATIO	
Ti								

This heat makes the following grades: A36-08, A52950-05, G40.21-CSA50W, CSA44W, A70936-09a, ASME SA36-2010, A57250-07, A70950-10, AASHTO M270 Grade 36, AASHTO M270 Grade 50, AASHTO M270M Grade 345.

Ci	5.6
CE	0.34

I hereby certify that the material test results presented here are from the reported heat and are correct. All tests were performed in accordance to the specification reported above. All steel is electric arc furnace melted (billets), manufactured, processed, tested in the U.S.A with satisfactory results. No weld repair was performed on this heat.

Notarized upon request:

Sworn to and subscribed before me on this 31st day of July, 2014

Signed

MARK EDWARDS, QUALITY ASSURANCE SUPERVISOR

Notary Public

Parish/County

Direct any questions or necessary clarifications concerning this report to the Sales Department 1-800-535-7692 (USA)

. 375 x 8 - 29



ArcelorMittal LaPlace  
 138 HWY 3217  
 LaPlace LOUISIANA 70068  
 Telephone (985) 652-4900

MATERIAL CERTIFICATION REPORT  
 METAL TRADER INC, (TRIAD METAL)  
 1 Village Road  
 19044 Horsham

TRIAD METALS INTERNATIONAL  
 PETERSBURG, VA  
 1951 BESSEMER RD.  
 23805 Petersburg

Heat Number L9043

Shipper No 217297

Customer PO# tony 5-13 email

Customer Name Essex Structural Steel Co., Inc.

Tested in Accordance With: ASTM A6

Invoice NO. Date 2013/10/30  
 Product Flat bars Cust 40006875  
 Heat NO. L90943 Grade A3652950  
 Length 20'00" Size 8" X1/4" X6.808

PO: 54446  
 Ref. 80584346  
 Pieces 72

CHEMICAL ANALYSIS	TEST 1		TEST 2		TEST 3	
	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC
C	0.10					
Mn	0.93					
P	0.008					
S	0.032					
Si	0.15					
Cu	0.21					
Ni	0.08					
Cr	0.08					
Mo	0.059					
Cb	0.010					
V	0					
B						
Al						
Sn	0.010					
N						
Ti						
Cl	4.6					
CE	0.31					
MECHANICAL PROPERTIES						
YIELD STRENGTH	55300 PSI	381 MPa	55200 PSI	381 MPa		
TENSILE STRENGTH	71400 PSI	492 MPa	72300 PSI	498 MPa		
ELONGATION	40 %	40 %	34 %	34 %		
GAUGE LENGTH	8 IN	203 mm	8 IN	203 mm		
BEND TEST DIAMETER						
BEND TEST RESULTS						
SPECIMEN AREA						
REDUCTION OF AREA						
IMPACT STRENGTH						
IMPACT STRENGTH						
AVERAGE						
TEST TEMP						
ORIENTATION						
INTERNAL CLEANLINESS						
SEVERITY						
FREQUENCY RATING						
HARDNESS						
GRAIN PRACTICE						
REDUCTION RATIO						

A36-08, A52950-05, G40.21-CSA50W, 44W, A70936-09a, AASHTO M270 Grade 36, AASHTO M270 Grade 50, AASHTO M270M Grade 345, ASME SA36-2010, A57250-07, A70950-10.

I hereby certify that the material test results presented here are from the reported heat and are correct. All tests were performed in accordance to the specification reported above. All steel is electric furnace melted (billets), manufactured, processed, and tested in the U.S.A with satisfactory results, and is free of Mercury contamination in the process. No weld repair was performed on this heat.

Notarized upon request:  
 Sworn to and subscribed before me in and for St. John Parish on this 30th day of October, 2013

Signed *Mark Edwards*

MARK EDWARDS, QUALITY ASSURANCE SUPERVISOR

Notary Public  
 Direct any questions or necessary clarifications concerning this report to the Sales Department 1-800-535-7692 (USA)

25 x 8 - 15



US-ML-CARTERSVILLE  
 384 OLD GRASSDALE ROAD NE  
 CARTERSVILLE, GA 30121  
 USA

CERTIFIED MATERIAL TEST REPORT

CUSTOMER SHIP TO TRIAD METALS INTERNATIONAL 3450 GRAND AVE PITTSBURGH, PA 15225-1508 USA		CUSTOMER BILL TO TRIAD METALS INTERNATIONAL MET I VILLAGE RD HORSHAM, PA 19044-3800 USA		GRADE A36/A529-50	SHAPE / SIZE Flat / 58 X 10
SALES ORDER 729235/000020		CUSTOMER MATERIAL N°		LENGTH 2000"	WEIGHT 8,500 LB
CUSTOMER PURCHASE ORDER NUMBER 59949		BILL OF LADING 1323-0000022871		SPECIFICATION / DATE of REVISION 1-ASTM A39 GR55-05 2-BUTLER SPEC 10004.20 GR 55	
DATE 03/20/2014					

CHEMICAL COMPOSITION		C		Mn		P		S		Si		Cu		Ni		Cr		Mo		V		Nb		N		Pb	
%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
0.18	0.97	0.015	0.027	0.20	0.31	0.10	0.08	0.028	0.025	0.001	0.0100	0.0060															

CHEMICAL COMPOSITION	
S <sub>0.011</sub>	%
0.011	

MECHANICAL PROPERTIES			
Elong <sub>g</sub>	G/L	UTS	YS
%	Inch	MPa	MPa
18.50	8.000	76800	56800
18.60	8.000	75900	56400
		530	392
		523	389

COMMENTS / NOTES

The above figures are certified chemical and physical test records as contained in the permanent records of company. This material, including the billets, was melted and manufactured in the USA. CMTTR complies with EN 10204 3.1.

*Mackay*  
 BHASKAR YALAMANCHILI  
 QUALITY DIRECTOR

*Yan Wang*  
 YAN WANG  
 QUALITY ASSURANCE MGR.

625 x 10 x 8

Customer Name: Essex Structural Steel Co., Inc.  
 Customer PO#: Tony 2-15  
 Shipper No: 216698  
 Heat Number: 55030134



**Customer Name**

Essex Structural Steel Co., Inc.

**Customer PO#**

tony 3-4

**Shipper No**

211921

**Heat Number**

55030950

Page 1 of 1

**CERTIFIED MATERIAL TEST REPORT**

<b>CUSTOMER SHIP TO</b> TRIAD METALS INTERNATIONAL 1951 BESSEMER RD PETERSBURG, VA 23805-1112 USA	<b>CUSTOMER BILL TO</b> TRIAD METALS INTERNATIONAL MET 1 VILLAGE RD HORSHAM, PA 19044-3800 USA	<b>SHAPE / SIZE</b> Flat / 3/8 X 10  <b>WEIGHT</b> 8,670 LB  <b>HEAT / BATCH</b> 55030950/02
<b>CUSTOMER PURCHASE ORDER NUMBER</b> 57932		<b>GRADE</b> A36/A529-50
<b>SALES ORDER</b> 646992/000090		<b>LENGTH</b> 20'00"
<b>BILL OF LADING</b> 1323-0000019589		<b>REVISION</b> 1-ASTM A618M-11 2-A36/A36M-08 3-A529/A529M-05(2009)
<b>DATE</b> 01/30/2014		<b>SPECIFICATION / DATE of</b>

**CHEMICAL COMPOSITION**

C	0.16	Mn	0.89	P	0.017	S	0.052	Si	0.20	Cu	0.32	Ni	0.10	Cr	0.08	Mo	0.033	V	0.017	Nb	0.001	N	0.0110	As	0.0050
---	------	----	------	---	-------	---	-------	----	------	----	------	----	------	----	------	----	-------	---	-------	----	-------	---	--------	----	--------

**CHEMICAL COMPOSITION**

Sp	0.015
----	-------

**MECHANICAL PROPERTIES**

Elong.	23.70	UTS	MPa	YS	0.2%
GPA	21.80	PSI	521	PSI	55000
inch	8.000	MPa	521	MPa	383
	8.000				

**COMMENTS / NOTES**

**ESSEX**  
**GERALD**  
 US-ML-CARTERSVILLE  
 384 OLD GRASSDALE ROAD NE  
 CARTERSVILLE, GA 30121  
 USA

375 x 10 - 11

The above figures are certified chemical and physical test records as contained in the permanent records of company. This material, including the billets, was melted and manufactured in the USA. CMFTR complies with EN 10204 3.1.

*Shackley*  
 BHASKAR YALAMANCHILI  
 QUALITY DIRECTOR

*Yan Wang*  
 YAN WANG  
 QUALITY ASSURANCE MGR.

Customer Name

Essex Structural Steel Co., Inc.

Customer PO#

tony 6-10

Shipper No

220275

Heat Number

JJ8116



Steel Dynamics - Roanoke Bar Division  
P.O. Box 13948 Roanoke, VA 24038  
Office: 540-342-1831 Fax: 540-342-9437

Test and Inspection Report

NO. 76050-4

ROANOKE

TRIAD METALS INT'L - PA  
1 VILLAGE ROAD  
HORSHAM PA 19044-0000

Date 6/24/14

HEAT NUMBER	SIZE	1-YIELD Pt. KSI	ULTIMATE KSI	ELONG 8 IN. TEST	BEND TEST	GRADE					
JJ8116	FLATS 5/8 X 6	55.7	75.5	31.3		A529-55					
PURCHASE ORDER NUMBER	NUMBER PIECES	2-YIELD Pt. KSI	ULTIMATE KSI	ELONG 8 IN. TEST	BEND TEST	GRADE					
64935	20 PIECES 20'	56.9	76.3	31.3		A529-55					
HEAT NUMBER	SIZE	1-YIELD Pt. MPA	ULTIMATE MPA	ELONG 203mm TEST	BEND TEST	GRADE					
JJ8116	15.9 X 152.4	384.0	520.6	31.3		A529-55					
PURCHASE ORDER NUMBER	NUMBER PIECES	2-YIELD Pt. MPA	ULTIMATE MPA	ELONG 203mm TEST	BEND TEST	GRADE					
64935	20 PIECES 20'	392.3	526.1	31.3		A529-55					
C	MN	S	P	SI	CR	NI	MO	CU	V	NB	CE
.17	1.06	.024	.011	.22	.11	.11	.03	.27	.020	.002	

MERCURY, RADIUM OR OTHER ALPHA SOURCE MATERIALS IN ANY FORM HAVE NOT BEEN USED IN THE PRODUCTION OF THIS MATERIAL. NO WELD REPAIR HAS BEEN PERFORMED.

Approved ABS QA Mill. Certificate No. 12-MMPQA-676

This material was melted and manufactured in the USA by basic Electric Furnace processes to meet specification: ASTM A529-05 GRADE 55

The tensile values stated in either inch-pound units or SI units are to be regarded as separate as defined in the ASTM scope for this material. Unless a metric specification is ordered, this material has been tested and meets the requirements of the inch-pound ranges.

This is to certify the above to be a true and accurate report as contained in the records of this company.

Metallurgist: Devin R. Crawford

625 x 6 - 18

**A**

**ArcelorMittal**

ArcelorMittal LaPlace  
138 HWY 3217  
LaPlace LOUISIANA 70068  
Telephone (985) 652-4900

**MATERIAL CERTIFICATION REPORT**

METAL TRADER INC. (TRIAD METAL)  
1 Village Road  
19044 Horsham  
NEVILLE ISLAND, PA  
3480 GRAND AVE.  
15225 Neville Island

Heat Number L92237

Shipper No 209942

Customer PO# 375x6-20

Tested in Accordance With: ASTM A6  
Invoice NO. Date 11/23/2013 PO: 58135  
Product Flat bars Cust 40006874 Ref. 80590690  
Heat NO. L92237 Grade A3652950 Pieces 258  
Length 20'00" Size 6" X3/8" X7.659

CHEMICAL ANALYSIS	TEST 1		TEST 2		TEST 3	
	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC
C 0.11	56300 PSI	388 MPa	57200 PSI	394 MPa		
P 0.012	71200 PSI	491 MPa	71500 PSI	496 MPa		
S 0.038	32 %	32 %	34 %	34 %		
Si 0.18	8 IN	203 mm	8 IN	203 mm		
Cu 0.20	BEND TEST DIAMETER					
Ni 0.14	BEND TEST RESULTS					
Cr 0.15	SPECIMEN AREA					
Mo 0.048	REDUCTION OF AREA					
Cb 0.020	IMPACT STRENGTH					
V 0						
B	IMPACT STRENGTH					
Al	IMPERIAL		METRIC		INTERNAL CLEANLINESS	
Sn	SEVERITY		FREQUENCY		GRAIN SIZE	
N	RATING		RATING		HARDNESS	
Ti	REDUCTION RATIO		REDUCTION RATIO		GRAIN PRACTICE	
Cl	A36-08, A52950-05, G40.21-CSA50W, 44W, A70936-09a, AASHTO M270 Grade 36, AASHTO M270 Grade 50, AASHTO M270M					
CE	Grade 345, ASME SA36-2010, A57250-07, A70950-10.					

I hereby certify that the material test results presented here are from the reported heat and are correct. All tests were performed in accordance to the specification reported above. All steel is electric furnace melted (billets), manufactured, processed, and tested in the U.S.A with satisfactory results, and is free of Mercury contamination in the process. No weld repair was performed on this heat.

Notarized upon request:  
Sworn to and subscribed before me in and for ST. John Parish on this 23rd day of November, 2013

Signed: Mark Edwards  
MARK EDWARDS, QUALITY ASSURANCE SUPERVISOR

Direct any questions or necessary clarifications concerning this report to the Sales Department 1-800-535-7692 (USA)

Customer Name

Essex Structural Steel Co., Inc.

tony 3-4

**A**

**ArcelorMittal**

ArcelorMittal LaPlace  
138 HWY 3217  
LaPlace LOUISIANA 70068  
Telephone (985) 652-4900

**MATERIAL CERTIFICATION REPORT**

METAL TRADER INC, (TRIAD METAL)  
1 Village Road  
19044 Horsham  
NEVILLE ISLAND, PA  
3480 GRAND AVE.  
15225 Neville Island

Tested in Accordance  
With: ASTM A6

Invoice NO. Date 10/30/2013 PO: 57198  
Product Flat bars Cust 40006874 Ref. 80582858  
Heat NO. L92265 Grade A3652950 Pieces 48  
Length 20'00" Size 6" X1/2" X10.210

Heat Number L92265

Shipper No 206241

Customer PO#

tont 1-28

Customer Name Essex Structural Steel Co., Inc.

CHEMICAL ANALYSIS	TEST 1		TEST 2		TEST 3	
	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC
C 0.14	56300 PSI	388 MPa	55400 PSI	382 MPa		
Mn 0.96	75200 PSI	518 MPa	74900 PSI	516 MPa		
P 0.014	34 %	34 %	35 %	35 %		
S 0.038	8 IN	203 mm	8 IN	203 mm		
Si 0.16						
Cu 0.20						
Ni 0.09						
Cr 0.15						
Mo 0.034						
Cb 0.016						
V 0						
B						
Al						
Sn						
N						
Ti						
CI 4.7						
CE 0.36						

MECHANICAL PROPERTIES	IMPERIAL	METRIC	INTERNAL CLEANLINESS	GRAIN SIZE
YIELD STRENGTH	56300 PSI	388 MPa	SEVERITY	HARDNESS
TENSILE STRENGTH	75200 PSI	518 MPa	FREQUENCY	GRAIN PRACTICE
ELONGATION	34 %	34 %	RATING	REDUCTION RATIO
GAUGE LENGTH	8 IN	203 mm		
BEND TEST DIAMETER				
BEND TEST RESULTS				
SPECIMEN AREA				
REDUCTION OF AREA				
IMPACT STRENGTH				

A36-08, A52950-05, G40.21-CSA50W, 44W, A70936-09a, AASHTO M270 Grade 36, AASHTO M270 Grade 50, AASHTO M270M Grade 345, ASME SA36-2010, A57250-07, A70950-10.

57198-22

I hereby certify that the material test results presented here are from the reported heat and are correct. All tests were performed in accordance to the specification reported above. All steel is electric furnace melted (billets), manufactured, processed, and tested in the U.S.A with satisfactory results, and is free of Mercury contamination in the process. No weld repair was performed on this heat.

Notarized upon request:

Sworn to and subscribed before me in and for ST. John Parish on this 30th day of October, 2013

Signed

*Mark Edwards*

MARK EDWARDS, QUALITY ASSURANCE SUPERVISOR

Notary Public

Direct any questions or necessary clarifications concerning this report to the Sales Department 1-800-535-7692 (USA)

**A**  
ArcelorMittal

ArcelorMittal LaPlace  
138 HWY 3217  
LaPlace LOUISIANA 70068  
Telephone (985) 652-4900  
Export Country = USA

MATERIAL CERTIFICATION REPORT  
METAL TRADER INC. (TRIAD METAL)  
1 Village Road  
HORSHAM PA 19044  
USA

TRIAD METALS INTERNATIONAL  
NEVILLE ISLAND, PA  
3480 GRAND AVE.  
NEVILLE ISLAND PA 15225  
USA

Tested in Accordance  
With: ASTM A6

Sales Order 131345-21 Date 2014/09/29 PO: 68135  
Product Flat bars Cust 40006874 Ref. 80702624  
Heat NO. L96071 Grade A3652950 Pieces 72  
Cust.Mat. Length 20' 00" Weight 9803.52  
Size 8" X1/4" X6.808

Heat Number  
L96071

Shipper No  
236835

Customer PO#  
Jeff 11-3

Customer Name  
Essex Structural Steel Co., Inc.

CHEMICAL ANALYSIS		TEST 1		TEST 2		TEST 3	
MECHANICAL PROPERTIES		IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC
C	0.10	56000 PSI	386 MPa	56900 PSI	392 MPa		
Mn	0.88	72400 PSI	499 MPa	72000 PSI	496 MPa		
P	0.010	36 %	36 %	32 %	32 %		
S	0.034	8 IN	203 mm	8 IN	203 mm		
Si	0.16	BEND TEST DIAMETER					
Cu	0.30	BEND TEST RESULTS					
Ni	0.12	SPECIMEN AREA					
Cr	0.20	REDUCTION OF AREA					
Mo	0.040	IMPACT STRENGTH					
Cb	0.010						
V	0						
B		INTERNAL CLEANLINESS		GRAIN SIZE			
Al		SEVERITY	FREQUENCY	HARDNESS	GRAIN PRACTICE		
Su	0.009	RATING		REDUCTION RATIO			
N							
Ti							
Ci	5.6	This heat makes the following grades: A36-08, A52950-05, G40.21-CSA50W, CSA44W, A70936-09a, ASME SA336-2010, A57250-07, A70950-10, AASHTO M270 Grade 36, AASHTO M270 Grade 50, AASHTO M270M Grade 345.					
CE	0.33						

I hereby certify that the material test results presented here are from the reported heat and are correct. All tests were performed in accordance to the specification reported above. All steel is electric arc furnace melted (billets), manufactured, processed, tested in the U.S.A with satisfactory results. No weld repair was performed on this heat.

Notarized upon request:

Sworn to and subscribed before me on this 29th day of September, 2014

Signed  
*Mark Edwards*

MARK EDWARDS, QUALITY ASSURANCE SUPERVISOR

Notary Public

Parish/County

Direct any questions or necessary clarifications concerning this report to the Sales Department 1-800-535-7692(USA)

**A**

**ArcelorMittal**

ArcelorMittal LaPlace  
138 HWY 3217  
LaPlace LOUISIANA 70068  
Telephone (985) 652-4900  
Export Country = USA

**MATERIAL CERTIFICATION REPORT**

METAL TRADER INC, (TRIAD METAL)  
1 Village Road  
HORSHAM PA 19044  
ETATS-UNIS

TRIAD METALS INTERNATIONAL  
NEVILLE ISLAND, PA  
3480 GRAND AVE.  
NEVILLE ISLAND PA 15225  
USA

Tested in Accordance  
With: ASTM A6

Sales Order 127883-1 Date 07/22/2014 PO: 65830  
Product Flat bars Cust 40006874 Ref. E0682183  
Heat NO. L91193 Grade A3652950 Pieces 80  
Cust. Mat. Length 20' 00" Weight 10200  
Size 6" X5/16" X6.375

Heat Number  
L91193

Shipper No  
223169

Customer PO#  
Tony 7-8

Customer Name  
Essex Structural Steel Co., Inc.

CHEMICAL ANALYSIS	MECHANICAL PROPERTIES		TEST 1		TEST 2		TEST 3	
	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC
C 0.12	YIELD STRENGTH	57800 PSI	399 MPa	56300 PSI	402 MPa			
Mn 1.02	TENSILE STRENGTH	79800 PSI	550 MPa	78900 PSI	544 MPa			
P 0.022	ELONGATION	35 %	35 %	34 %	34 %			
S 0.038	GAUGE LENGTH	2 IN	51 mm	2 IN	51 mm			
Si 0.20	BEND TEST DIAMETER							
Cu 0.33	BEND TEST RESULTS							
Ni 0.13	SPECIMEN AREA							
Cr 0.15	REDUCTION OF AREA							
Mo 0.042	IMPACT STRENGTH							
Cb 0.010								
V 0								
B	IMPACT STRENGTH	IMPERIAL	METRIC	INTERNAL CLEANLINESS	GRAIN SIZE			
Al	AVERAGE			SEVERITY	HARDNESS			
Sn 0.011	TEST TEMP			FREQUENCY	GRAIN FRACTURE			
N	ORIENTATION			RATING	REDUCTION RATIO			
Ti								
Cl	This heat makes the following grades: A36-08, A52950-05, C40.21-CSA50W, CSA44W, A70936-09a, ASME SA336-2010, A57250-07, A70950-10, AASHTO M270 Grade 36, AASHTO M270 Grade 50, AASHTO M270M Grade 345.							
CE 0.36	This heat also makes A52955.							

I hereby certify that the material test results presented here are from the reported heat and are correct. All tests were performed in accordance to the specification reported above. All steel is electric arc furnace melted (billets), manufactured, processed, tested in the U.S.A with satisfactory results. No weld repair was performed on this heat.

Notarized upon request: \_\_\_\_\_  
Sworn to and subscribed before me on this 22nd day of July, 2014  
Signed: *Mark Edwards*  
MARK EDWARDS, QUALITY ASSURANCE SUPERVISOR

Notary Public \_\_\_\_\_  
Parish/County \_\_\_\_\_  
Direct any questions or necessary clarifications concerning this report to the Sales Department 1-800-535-7692(USA)

3125 x 6 - 17

CERTIFIED TEST REPORT

BUCKEYE METALS  
3238 E. 82ND STREET  
CLEVELAND, OH 44104  
216 663-4300

DATE: 3/27/14

SOLD TO: ESSEX STRUCTURAL STEEL  
607 ROUTE 13  
CORTLAND, NY. 13045

SHIP TO: ESSEX STRUCTURAL STEEL  
607 ROUTE 13  
COURTLAND, NY 13045

Cust P/O# 1372

SIZE: .312 X 60.00 X 242.00

GRADE: GRD.55

CHEMICAL ANALYSIS

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Heat Number 31335260

C : .05	Mn: 1.38	P : .013	S : .004
Si: .29	Ti: .108	Cr: .06	Mo: .02
Cu: .09	Al: .045	Cb: Nb: .002	Va: .007
	Sn: .006	Ca: .002	N : .009
B : .0003			

PHYSICAL PROPERTIES

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Rockwell: 80.80

Yield: 65180      Tensile: 75710      Elongation 29%

Comment GRD.55

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3125-12

CERTIFIED TEST REPORT

BUCKEYE METALS  
3238 E. 82ND STREET  
CLEVELAND, OH 44104  
216 663-4300

DATE: 3/27/14

SOLD TO: ESSEX STRUCTURAL STEEL  
607 ROUTE 13  
CORTLAND, NY. 13045

SHIP TO: ESSEX STRUCTURAL STEEL

Cust P/O# 113-3

SIZE: .250 X 41.00 X 242.00

GRADE: HOT ROLLED

CHEMICAL ANALYSIS

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Heat Number 11331460

C : .05	Mn: .84	P : .014	S : .005
Si: .04	Ti: .003	Cr: .07	Mo: .02
Cu: .09	Al: .027	Cb: Nb: .043	Va: .002
B : .0002	Sn: .005	Ca: .0002	N : .009
		Ni: .04	

PHYSICAL PROPERTIES

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Yield: 57000      Tensile: 67500      Elongation 33%

Comment      GRD.55

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.25-25



CERTIFIED TEST REPORT

BUCKEYE METALS  
3238 E. 82ND STREET  
CLEVELAND, OH 44104  
216 663-4300

DATE: 7/01/14

SOLD TO: ESSEX STRUCTURAL STEEL  
607 ROUTE 13  
CORTLAND, NY. 13045

SHIP TO: ESSEX STRUCTURAL STEEL  
607 RT.13  
COURTLAND, NY 13045

Cust P/O# 113-5

SIZE: .375 X 50.00 X 242.00

GRADE: GRD.55

CHEMICAL ANALYSIS

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Heat Number A71327

C : .06  
Si: .05  
Cu: .12

Mn: .76  
Al: .03

P : .01  
Cb: Nb: .02

PHYSICAL PROPERTIES

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Yield: 56000

Tensile: 71000

Elongation 32%

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375-6