



Special Inspections Report  
443 Congress Street  
Portland, Maine  
10/5/2011

Prepared for: JJR 443 Congress, LLC  
C/O Northland Enterprises  
One City Center 4<sup>th</sup> Floor  
Portland, Maine 04101

In Conjunction with:  
The City of Portland  
City Hall Room 315  
389 Congress Street  
Portland, Maine 04101

Special Inspections Report  
443 Congress Street, Portland, Maine

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Special Inspections Report  
443 Congress Street, Portland, Maine

Final Report of Special Inspections, Coordinator  
Becker Structural Engineers, Inc.

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Project: 443 Congress Street  
Date Prepared: 6/1/2011

## 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: Charles Rizza, Morris Switzer Environments for Health  
*(name)* *(firm)*  
Structural Registered Design Professional in Responsible Charge: Ethan Rhile, Becker Structural Engineers  
*(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  
Ethan A. Rhile, P. E.

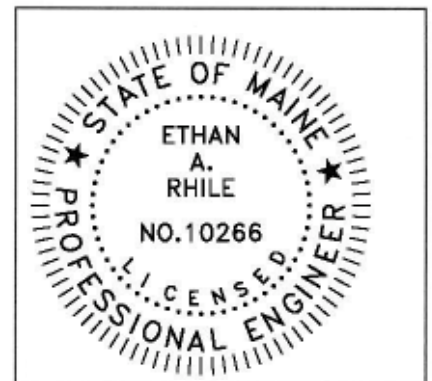
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Becker Structural Engineers, Inc  
(Firm Name)



9/22/2011

Signature

Date





## Statement of Special Inspections – A/M/E/P (Continued)

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### Final Report of Special Inspections (SIC)

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

Project: *Second and Third Floor Renovation, 443 Congress Street*

Location: *443 Congress Street, Portland, Maine*

Owner: *JJR 443 Congress Street, LLC*

Owner's Address: *C/O Northland Enterprises  
One City Center, 4<sup>th</sup> Floor Portland, Maine 04101*

Architect of Record: *Charles Rizza Jr., AIA* *MorrisSwitzer~Environments for Health*  
*(name)* *(firm)*

Registered Design Professional in Responsible Charge: Ethan A. Rhile, P. E., Becker Structural Engineers, Inc.  
*(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,  
Special Inspection Coordinator  
Ethan A. Rhile, P. E.

(Type or print name)

Becker Structural Engineers, Inc.

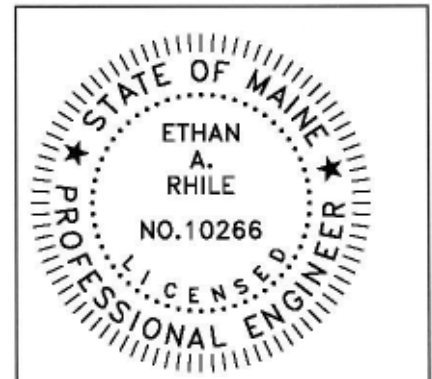
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Signature

9/22/2011

Date



Special Inspections Report  
443 Congress Street, Portland, Maine

Agents Final Statements

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S.W. Cole Engineering

Q. A. Labs



Project: Second and Third Floor Renovation, 443 Congress Street  
Date Prepared: 06/01/2011

Statement of Special Inspections – A/M/E/P (Continued)

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**Final Report of Special Inspections (SIC)**

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

Project: *Second and Third Floor Renovation, 443 Congress Street*

Location: *443 Congress Street, Portland, Maine*

Owner: *JJR 443 Congress Street, LLC*

Owner's Address: *C/O Northland Enterprises  
One City Center, 4<sup>th</sup> Floor Portland, Maine 04101*

Architect of Record: *Charles Rizza Jr., AIA* *MorrisSwitzer-Environments for Health*  
*(name)* *(firm)*

Registered Design Professional in Responsible Charge: \_\_\_\_\_  
*(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,  
Special Inspection Coordinator

Roger E. Domingo

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

S. W. COLE ENGINEERING, INC.

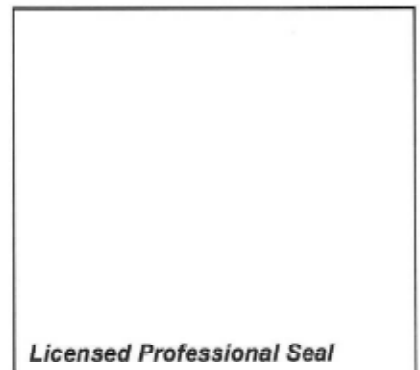
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(Firm Name)

*Roger E Domingo*

9/6/2011

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date



Project: 443 Congress Street  
Date Prepared: 6/1/2011

**Structural Statement of Special Inspections (Continued)**

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

Project:

Special Inspector or Agent:

Michael W. Drew

Quality Assurance Laboratories Inc.

(name)

(firm)

Designation:

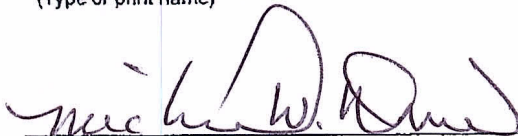
To the best of my information, knowledge and belief, the Special Inspections or testing required for this project, and designated for this Inspector/Agent in the *Statement of Special Inspections* submitted for permit, have been performed and all discovered discrepancies have been reported and resolved.

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:

Michael W. Drew

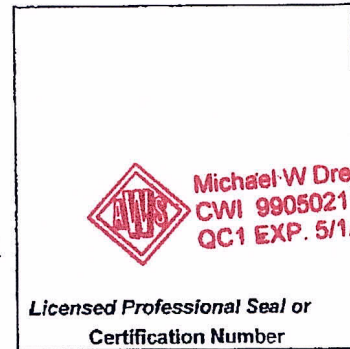
(Type or print name)



Signature

10/4/2011

Date



Special Inspections Report  
443 Congress Street, Portland, Maine

Statement of Inspections, Structural

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Project: 443 Congress Street  
Date Prepared: 6/1/2011

## Structural Statement of Special Inspections

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Project: 443 Congress Street Steel Stair Installation  
Location: 443 Congress Street, Portland, Maine  
Owner: JJR 443 Congress Street, LLC

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This *Statement of Special Inspections* encompasses 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.

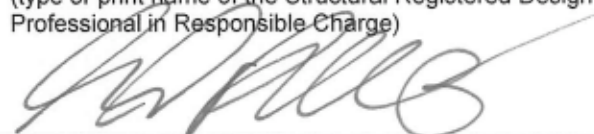
Job site safety and means and methods of construction are solely the responsibility of the Contractor.

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

Prepared by:

Ethan A. Rhile, P. E.

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



Signature

6/1/2011

Date



Owner's Authorization:

Building Code Official's Acceptance:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

## Structural Statement of Special Inspections (Continued)

### List of Agents

Project: 443 Congress Street Steel Stair Installation

Location: 443 Congress Street, Portland, Maine

Owner: JJR 443 Congress Street, LLC

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
- Structural Masonry Systems
- Structural Steel
- Wood Construction
- Special Cases

Special Inspection Agencies	Firm	Address, Telephone, e-mail
1. STRUCTURAL Special Inspections Coordinator (SSIC)	Becker Structural Engineers, Inc.	75 York Street Portland, Maine 04101 (207) 879-1838 Attn: Ethan Rhile ethan@beckerstructural.com
2. Special Inspector (SI 1)	Becker Structural Engineers, Inc	(Same as above)
3. Special Inspector (SI 2)	Quality Assurance Laboratories, Inc	80 Pleasant Avenue South Portland, Maine 04106 (207) 799-8911 Attn: Gary Parechianian gary.parechianian@applusrtd.com
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.



## Structural Schedule of Special Inspections

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### 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
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#### 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

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Project: 443 Congress Street

Date Prepared: 6/1/2011

## Structural Schedule of Special Inspections

### SOILS & FOUNDATION CONSTRUCTION

VERIFICATION AND INSPECTION	REQD Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
<b>IBC Section 1704.7, 1704.8, 1704.9</b>						
1. Required Verification and Inspection of Soils:						
a. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	N		IBC 1704.7			
b. Verify excavations are extended to proper depth and have reached proper material.	N		IBC 1704.7			
c. Perform classification and testing of compacted fill materials.	N		IBC 1704.7			
d. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	N		IBC 1704.7			
e. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.	N		IBC 1704.7			
2. Required Verification and Inspection of Driven Deep Foundation Elements:						
a. Verify element materials, sizes and lengths comply with the requirements.	N		IBC 1704.8			
b. Determine capacities of test elements and conduct additional load tests, as required.	N		IBC 1704.8			
c. Observe driving operations and maintain complete and accurate records for each element.	N		IBC 1704.8			
d. Verify placement locations and plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any damage to foundation element.	N		IBC 1704.8			
3. Required Verification and Inspection of Cast-in-Place Deep Foundation Elements:						
a. Observe drilling operations and maintain complete and accurate records for each element.	N		IBC 1704.9			
b. Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end bearing strata capacity. Record concrete or grout volumes.	N		IBC 1704.9			

See Concrete, Masonry, and/or Steel Schedules for additional material inspections for deep foundation elements as applicable.

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

VERIFICATION AND INSPECTION	REQD Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
IBC Section 1704.4						
1. Inspection of reinforcing steel, including prestressing tendons, and placement	N		ACI 318: 3.5, 7.1-7.7			
2. Inspection of reinforcing steel welding in accordance with Table 1704.3, Item 5B	N		Not applicable. Welding of Reinf Not Allowed			
3. Inspect bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased or where strength design is used.	N		IBC 1911.5			
4. Inspection of anchors installed in hardened concrete.	N		IBC 1212.1			
5. Verifying use of required design mix	N		ACI 318: Ch 4, 5.2-5.4			
6. At time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests and determine the temperature of the concrete.	N		ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8			
7. Inspection of concrete and shotcrete placement for proper application techniques	N		ACI 318: 5.9, 5.10			
8. Inspection for maintenance of specified curing temperature and techniques	N		ACI 318: 5.11-5.13			
9. Inspection of Prestressed Concrete						
a. Application of prestressing force.	N		ACI 318: 18.20			
b. Grouting of bonded prestressing tendons in seismic force resisting system	N		ACI 318: 18.18.4			
10. Erection of precast concrete members.	N		ACI 318: Ch 16			
11. Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	N		ACI 318: 6.2			
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.	N		Limitations apply. See below			

Limitations of item 12: Special inspection includes periodic review of formwork shape, general location, and formwork dimensions that can be readily measured with conventional tape measure. Verification of building layout, building location, foundation extents, column grids, and foundation elevations is excluded.



## Structural Schedule of Special Inspections

### MASONRY CONSTRUCTION – LEVEL 1

VERIFICATION AND INSPECTION	REQD Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
IBC Section 1704.5						
1. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.	N		ACI530.1, 1.5			
2. Verification of $f_m$ and $f_{AAC}$ prior to construction except where specifically exempted by this code.	N		ACI531.1, 1.4B			
3. Verification of slump flow and VSI as delivered to the site for self-consolidating grout.	N		ACI530.1, 1.5B.1.b.3			
4. As masonry construction begins, the following shall be verified to ensure compliance:						
a. Proportions of site-prepared mortar.	N		ACI530.1, 2.6A			
b. Construction of mortar joints.	N		ACI530.1, 3.3B			
c. Location of reinforcement and connectors.	N		ACI530.1, 3.4, 3.6A			
d. Prestressing technique.	N		ACI530.1, 3.6B			
e. Grade and size of prestressing tendons and anchorages.	N		ACI530.1, 2.4B, 2.4H			
5. During construction the inspection program shall verify:						
a. Size and location of structural elements.	N		ACI530.1, 3.3F			
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	N		ACI530, 1.2.2(e), 2.1.4, 3.1.6			
c. Specified size, grade and type of reinforcement, anchor bolts, prestressing tendons and anchorages.	N		ACI530, 1.12, ACI530.1, 2.4, 3.4			
d. Welding of reinforcing bars.	N		Not applicable. Welding of Reinf Not Allowed			
e. Preparation, construction and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).	N		IBC 2104.3, 2104.4; ACI530.1, 1.8C, 1.8D			
f. Application and measurement of prestressing force.	N		ACI530.1, 3.6B			
6. Prior to grouting, the following shall be verified to ensure compliance:						
a. Grout space is clean.	N		ACI530.1, 3.2D			
b. Placement of reinforcement and connectors and prestressing tendons and anchorages.	N		ACI530, 1.12, ACI530.1, 3.4			
c. Proportions of site-prepared grout and prestressing grout for bonded tendons.	N		ACI530.1, 2.6B			
d. Construction of mortar joints.	N		ACI530.1, 3.3B			
7. Grout placement shall be verified to ensure compliance.	N		ACI530.1, 3.5			
a. Grouting of prestressing bonded tendons.	N		ACI530.1, 3.6C			
8. Preparation of any required grout specimens, mortar specimens and/or prisms shall be observed.	N		IBC 2105.2.2, 2105.3; ACI530.1, 1.4			

**Structural Schedule of Special Inspections**  
**MASONRY CONSTRUCTION – LEVEL 2**

VERIFICATION AND INSPECTION  IBC Section 1704.5	REQD Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.	N		ACI530.1, 1.5			
2. Verification of $f_m$ and $f_{AAC}$ prior to construction and for every 5,000 square feet during construction.	N		ACI531.1, 1.4B			
3. Verification of proportions of materials in premixed or preblended mortar and grout as delivered to site.	N		ACI530.1, 1.5B			
4. Verification of slump flow and VSI as delivered to the site for self-consolidating grout.	N		ACI530.1, 1.5B.1.b.3			
5. The following shall be verified to ensure compliance:						
a. Proportions of site-prepared mortar, grout and prestressing grout for bonded tendons.	N		ACI530.1, 2.6A			
b. Placement of masonry units and construction of mortar joints.	N		ACI530.1, 3.3B			
c. Placement of reinforcement, connectors and prestressing tendons and anchorages.	N		ACI530, 1.12; ACI530.1, 3.4, 3.6 A			
d. Grout space prior to grouting.	N		ACI530.1, 3.2D			
e. Placement of grout.	N		ACI530.1, 3.5			
f. Placement of prestressing grout.	N		ACI530.1, 3.6C			
g. Size and location of structural elements.	N		ACI530.1, 3.3F			
h. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	N		ACI530, 1.2.2(e), 1.16.1			
i. Specified size, grade and type of reinforcement anchor bolts, prestressing tendons and anchorages.	N		ACI530, 1.15			
j. Welding of reinforcement.	N		Not applicable. Welding of Reinf Not Allowed			
k. Preparation, construction and protection of masonry during cold weather and (temperature below 40°F) or hot weather (temperature above 90°F).	N		IBC 2104.3, 2104.4; ACI530.1, 1.8C, 1.8D			
l. Application and measurement of prestressing force.	N		ACI530.1, 3.6B			
6. Preparation of any required grout specimens, mortar specimens and/or prisms shall be observed.	N		IBC 2105.2.2, 2105.3; ACI 530.1, 1.4			



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

VERIFICATION AND INSPECTION	REQD Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED	
<b>IBC Section 1704.3</b>							
<b>1. Material verification of high-strength bolts, nuts and washers:</b>							
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	Y	P	Applicable ASTM material standards, AISC 360, A3.3	SI2	AWS/AISC-SSI	X	
b. Manufacturer's certificate of compliance required.	Y	S		SI1	PE/SE or EIT	X	
<b>2. Inspection of high-strength bolting</b>							
a. Snug-tight joints.	Y	P		SI2	AWS/AISC-SSI		
b. Pretensioned and slip-critical joints using turn-of-nut with matchmaking, twist-off bolt or direct tension indicator methods of installation.	N	N/A	AISC LRFD Section M2.5				
c. Pretensioned and slip-critical joints using turn-of-nut without matchmaking or calibrated wrench methods of installation.	N	N/A	IBC Sect 1704.3.3				
<b>3. Material verification of structural steel and cold-formed steel deck:</b>							
a. For structural steel, identification markings to conform to AISC 360.	Y	P	AISC 360, M5.5	SI1	PE/SE or EIT	X	
b. For other steel, identification markings to conform to ASTM standards specified in the approved construction documents.	Y	P	Applicable ASTM material standards	SI1	PE/SE or EIT	X	
c. Manufacturer's certified test reports.	Y	S		SI1	PE/SE or EIT		
<b>4. Material verification of weld filler materials:</b>							
a. Identification markings to conform to AWS specification in the approved construction documents.	Y	P	AISC 360, M5.5	SI2	AWS/AISC-SSI	X	
b. Manufacturer's certificate of compliance required.	Y	S		SI1	PE/SE or EIT	X	
<b>5. Submit current AWS D1.1 welder certificate for all field welders who will be welding on this project.</b>							
Y	Y	S	AWS D1.1	SI1	PE/SE or EIT	X	
<b>6. Inspection of welding (IBC 1704.3.1):</b>							
<b>a. Structural steel and cold-formed deck:</b>							
1) Complete and partial joint penetration groove welds.	N		AWS D1.1				
2) Multipass fillet welds.	N						
3) Single-pass fillet welds > 5/16"	N						
4) Plug and slot welds	N						
5) Single-pass fillet welds ≤ 5/16"	Y	P			SI2	AWS-CWI	X
6) Floor and deck welds.	N		AWS D1.3				
<b>b. Reinforcing steel:</b>							
1) Verification of weldability of reinforcing steel other than ASTM A706.	N		Not applicable.	-	-		
2) Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement.	N		AWS D1.4 ACI 318: 3.5.2				
3) Shear reinforcement.	N						
4) Other reinforcing steel.	N						
<b>7. Inspection of steel frame joint details for compliance (IBC Sect 1704.3.2) with approved construction documents:</b>							
a. Details such as bracing and stiffening.	Y	P	IBC 1704.3.2	SI1	PE/SE or EIT	X	
b. Member locations.	Y	P			SI1	PE/SE or EIT	X
c. Application of joint details at each connection.	Y	P			SI1	PE/SE or EIT	X

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

VERIFICATION AND INSPECTION IBC Section 1704.2	REQD 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	Y	S	Fabricator shall submit one of the two qualifications	SII	PE/SE or EIT	X
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.	Y	S	IBC 1704.2.2	SII	PE/SE or EIT	X

**Structural Schedule of Special Inspection Services**  
**FABRICATION AND IMPLEMENTATION PROCEDURES – WOOD TRUSSES**

VERIFICATION AND INSPECTION IBC Section 1704.2	REQD 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. TPI Inspection Program: Fabricator shall participate in the TPI Quality Assurance Inspection Program, and maintain a copy of the Quality Assurance Procedures Manual, QAP-90. Submit copy of certificate. All trusses shall bear the TPI Registered Mark.	N		Fabricator shall submit one of the two qualifications			
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	N		IBC 1704.2.2			

## Structural Schedule of Special Inspections

### WOOD CONSTRUCTION

VERIFICATION AND INSPECTION  IBC Section 1704.6	REQD	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
	Y/N					
1. Fabrication of high-load diaphragms						
a. Verify wood structural panel sheathing for grade and thickness	N		IBC 1704.6			
b. Verify the nominal size of framing members at adjoining panel edges	N		IBC 1704.6			
b. Verify the nail or staple diameter and length	N		IBC 1704.6			
b. Verify the number of fastener lines	N		IBC 1704.6			
b. Verify the spacing between fasteners in each line and at edge margins	N		IBC 1704.6			
2. Load Tests for Joist Hangers: Provide evidence of manufacturer's load test in accordance with ASTM D1761 including the vertical load bearing capacity, torsional moment capacity, and deflection characteristics when there is no calculated procedure recognized by the code.	N		IBC 1716 [submit ICBO reports]			
3. Metal-plate-connected wood trusses spanning 60 feet or greater:						
a. Verify the temporary installation restraint / bracing and the permanent individual truss member restraint / bracing is installed per the approved truss submittal package.	N		IBC 1704.6.2.			



**Structural Schedule of Special Inspections**  
**SEISMIC RESISTANCE - STRUCTURAL**

VERIFICATION AND INSPECTION  IBC Section 1707	REQD Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETE D
1. Special inspections for seismic resistance. Special inspection as specified in this section is required for the following:						
a. The seismic-force-resisting systems in structures assigned to Seismic Design Category C, D, E or F	N		IBC 1707.1			
b. Designated seismic systems in structures assigned to Seismic Design Category D, E, or F.	N		IBC 1707.1			
2. Structural steel: Continuous special inspection for structural welding in accordance with AISC 341.	N		IBC 1707.2			
3. Structural wood:						
a. Continuous special inspection during field gluing operations of elements of the seismic-force-resisting system.	N		IBC 1707.3			
b. Periodic special inspections for nailing, bolting, anchoring and other fastening of components within the seismic-force-resisting system (where spacing is 4" o.c., or less) including drag struts, braces and hold-downs	N		IBC 1707.3			
4. Cold-formed steel framing: Periodic special inspections during welding operations of elements of the seismic-force-resisting system. Periodic special inspections for screw attachment, bolting, anchoring and other fastening of components within the seismic-force-resisting system (where spacing is 4" o.c., or less), including struts, braces, and hold-downs	N		CFSF for this project not part of the primary seismic-force resisting system.	-	-	
5. Seismic isolation system. Provide periodic special inspection during the fabrication and installation of isolator units and energy dissipation devices if used as part of the seismic isolation system	N		Seismic isolators not used.	-	-	

**SEISMIC RESISTANCE CHECK LIST [IBC 1705.3]**

**Seismic Design Category**    N/A

**FOR SEISMIC DESIGN CATEGORY C OR HIGHER:**

**Structural:**

- The seismic-force-resisting systems
  - Steel Braced Frames and associated connections/anchorage (Not required for SDC C, R=3)
  - Steel Moment Frames and associated connections (Not required for SDC C, R=3)
  - Shear walls:  CMU  Wood  Concrete                       Diaphragms:  Floor  Roof
  - Other:

**WIND RESISTANCE CHECK LIST [IBC 1705.4]**

**Wind Exposure Category**    N/A

REQUIRED	NOT REQUIRED	NOT APPLICABLE	WIND RESISTANCE REQUIREMENTS
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	In wind exposure Category B, where the 3-second-gust basic wind speed is 120 miles per hour (mph) (52.8 m/sec) or greater.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	In wind exposure Categories C and D, where the 3-second-gust basic wind speed is 110 mph (49 m/sec) or greater.

Project: 443 Congress Street  
Date Prepared: 6/1/2011

CASE Form 104 • Fabricator's Certificate of Compliance • ©CASE 2004

**End of Structural Statement of Special Inspections**

Special Inspections Report  
443 Congress Street, Portland, Maine

Statement of Inspections, A/M/E/P

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Project: Second and Third Floor Renovation, 443 Congress Street  
Date Prepared: 06/01/2011

## Statement of Special Inspections – A/M/E/P

Project: *Second and Third Floor Renovation, 443 Congress Street*

Location: *443 Congress Street, Portland, Maine*

Owner: *JJR 443 Congress Street, LLC*

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

Mechanical/Electrical/Plumbing

Architectural       Other: \_\_\_\_\_  
Design Professional in Responsible Charge: *Charles Rizza Jr., AIA*

Firm Name: MorrisSwitzer-Environments for Health

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

This *Statement of Special Inspections* is submitted as a condition for permit issuance in accordance with the Special Inspection and 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 Special Inspection Coordinator (SIC) and the identity of other approved agencies to be retained for conducting these inspections and tests.

The Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to the Building Code Official (BCO) and the Registered Design Professional in Responsible Charge (RDP). 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 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 Registered Design Professional in Responsible Charge at an interval determined by the RDP, SIC 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.

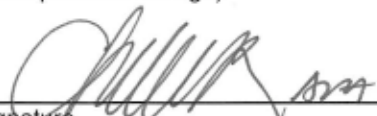
Job site safety and means and methods of construction are solely the responsibility of the Contractor.

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

Prepared by:

*Charles Rizza Jr., AIA*

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

  
Signature

*06/01/2011*  
Date



Owner's Authorization:

Building Code Official's Acceptance:

Signature

Date

Signature

Date

Statement of Special Inspections – A/M/E/P (Continued)

**List of Agents**

Project: *Second and Third Floor Renovation, 443 Congress Street*

Location: *443 Congress Street, Portland, Maine*

Owner: *JJR 443 Congress Street, LLC*

This Statement of Special Inspections encompass the following discipline:

- Architectural     
  Mechanical/Electrical/Plumbing  
 Other: \_\_\_\_\_

(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:

- Spray Fire Resistant Material  
 Exterior Insulation and Finish  
 Mechanical & Electrical  
 Architectural Systems  
 Special Cases

Special Inspection Agencies	Firm	Address, Telephone, e-mail
1. Special Inspection Coordinator (SIC)	<i>Becker Structural Engineers, Inc.</i>	<i>75 York Street Portland, Maine 04101 (207) 879-1838</i>
2. Special Inspector (SI 1)	<i>S. W. Cole Engineering, Inc.</i>	<i>17 Chestnut St Portland, Maine 04101 (207) 773-6800</i>
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.



## Schedule of Special Inspections – A/M/E/P

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### 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.

RA	Registered Architect – a licensed Registered Architect
PE	Professional Engineer – a licensed PE specializing in the discipline to be inspected
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
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#### International Code Council (ICC) Certification

ICC-SFSI	Spray-Applied Fireproofing Special Inspector
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#### Exterior Design Institute (EDI) Certification

EDI-EIFS	EIFS Third Party Inspector
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#### Other

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**Schedule of Special Inspections – A/M/E/P**  
**SPRAYED FIRE-RESISTANT MATERIALS**

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
<b>IBC Section 1704.11</b>						
1. Surface Conditions: Verify surfaces are prepared in accordance with the approved fire-resistance design and the approved manufacturer's written instructions prior to application of the sprayed fire-resistant material	Y	P	IBC 1704.12.2	SI 1	ICC-SFSI	X
2. Application: Verify the substrate shall have a minimum ambient temperature before and after application as specified in the approved manufacturer's written instruction. The area for application shall be ventilated during and after application as required by the approved manufacturer's written instructions.	Y	P	IBC 1704.12.3	SI 1	ICC-SFSI	X
3. Thickness: Verify average thickness of the sprayed fire-resistant materials applied to structural elements shall not be less than the thickness required by the approved fire-resistance design.						
a. Floor, Roofs & Walls: The thickness of the sprayed fire-resistant material applied to floor, roof and wall assemblies shall be determined in accordance with ASTM E 605, taking the average of not less than four measurements for each 1,000 square feet (93 m <sup>2</sup> ) of the sprayed area on each floor or part thereof.	Y	P	IBC 1704.12.4.2; ASTM E605	SI 1	ICC-SFSI	X
b. Structural Framing: The thickness of the sprayed fire-resistant material applied to structural members shall be determined in accordance with ASTM E 605. Thickness testing shall be performed on not less than 25 percent of the structural members on each floor.	Y	P	IBC 1704.12.4.3; ASTM E605	SI 1	ICC-SFSI	X
4. Density: Verify density of the sprayed fire-resistant material shall not be less than the density specified in the approved fire-resistant design.	Y		IBC1704.12.5; ASTM E605	SI 1	ICC-SFSI	
5. Bond: Verify the cohesive/adhesive bond strength of the cured sprayed fire-resistant material applied to structural elements shall not be less than 150 pounds per square foot (psf) (7.18 kN/m <sup>2</sup> ). The cohesive/adhesive bond strength shall be determined in accordance with the field test specified in ASTM E 736 by testing in-place samples.						
a. The test samples for determining the cohesive/adhesive bond strength of the sprayed fire-resistant materials shall be selected from each floor, roof and wall assembly at the rate of not less than one sample for every 10,000 square feet (929 m <sup>2</sup> ) or part thereof of the sprayed area in each story.	Y	P	IBC 1704.12.6.1; ASTM E 736	SI 1	ICC-SFSI	X
b. The test samples for determining the cohesive/adhesive bond strength of the sprayed fire-resistant materials shall be selected from beams, girders, joists, trusses and columns at the rate of not less than one sample for each type of structural framing member for each 5,000 square feet (464 m <sup>2</sup> ) of floor area or part thereof in each story.	Y	P	IBC 1704.12.6.2; ASTM E 736	SI 1	ICC-SFSI	X



**Schedule of Special Inspections – A/M/E/P**  
**SMOKE CONTROL**

VERIFICATION AND INSPECTION  IBC Section 1704.14	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Smoke control systems shall be tested by An agency for smoke control who shall have expertise in fire-protection engineering, mechanical engineering and certification as air balancers. The test scope shall be as follows:						
a. During erection of ductwork and prior to concealment for the purposes of leakage testing and recording of device location.	N		IBC 1704.14			
b. Prior to occupancy and after sufficient completion for the purposes of pressure difference testing, flow measurements, and detection and control verification.	N		IBC 1704.14			

**Schedule of Special Inspections – A/M/E/P**  
**WALL PANEL & VENEER CONSTRUCTION**

VERIFICATION AND INSPECTION  IBC Section 1704.10	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Verify exterior and interior architectural wall panels and the anchoring of veneers for building assigned to Seismic Design Category E or F.	N		Seismic Design Category:			

**Schedule of Special Inspections – A/M/E/P**  
**EXTERIOR INSULATION AND FINISH SYSTEM (EIFS)**

VERIFICATION AND INSPECTION  IBC Section 1704.12	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Visual observation of the installation of EIFS systems without water-resistive barrier.	N		IBC Section 1704.12			
2. Visual observation of the installation of EIFS systems without a means of draining moisture to the exterior.	N		IBC Section 1704.12			
3. Visual observation of the installation of EIFS systems not installed over masonry or concrete walls.	N		IBC Section 1704.12			

**Schedule of Special Inspections – A/M/E/P**  
**SEISMIC RESISTANCE - ARCHITECTURAL**

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
IBC Section 1707						
1. Special inspections for seismic resistance. Special inspection as specified in this section is required for Architectural components, assigned to Seismic Design Category D, E or F			Seismic Design Category:			
a. Periodic special inspection during the erection and fastening of exterior cladding, interior and exterior nonbearing walls and interior and exterior veneer in structures	N		IBC 1707.6			
b. Suspended ceiling systems and their anchorage	N					
c. Access floors: Periodic special inspection during the anchorage of access floors	N		IBC 1707.5			
d. Storage racks: Periodic special inspection during the anchorage of storage racks 8 feet (2438 mm) or greater in height.	N					
1. Retail Storage Racks	N					
2. High Density Files	N					
3. Other:	N					
3. Life-safety components required to function after an earthquake:						
1. Egress Stairs	N					
2. Fire Protection Sprinkler System	N					
3. Other:	N					
4. Other:	N					

**Schedule of Special Inspections – A/M/E/P**  
**SEISMIC RESISTANCE - ELECTRICAL**

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
<b>IBC Section 1707</b>						
1. Electrical components			Seismic Design Category:			
a. Periodic special inspection during the anchorage of electrical equipment for emergency or standby power systems in structures assigned to Seismic Design Category C, D, E or F	N		IBC 1707.7			
b. Periodic special inspection during the installation of anchorage of other electrical equipment in structures assigned to Seismic Design Category E or F	N		IBC 1707.7			
2. Component inspection. Special inspection is required for the installation of the following components:	N					
a. Electrical motors, transformers, switchgear unit substations and motor control centers.	N		IBC 1707.7.1.2			
b. Reciprocating and rotating-type machinery	N		IBC 1707.7.1.3			
3. Component and attachment testing. The component manufacturer shall test or analyze the component and the component mounting system or anchorage for the design forces in Chapter 16 for those components having a Component Importance Factor of 1.0 or 1.5 in accordance with Chapter 16. The manufacturer shall submit a certificate of compliance for review and acceptance by the registered design professional responsible for the design, and for approval by the building official.	N		IBC 1707.7.2			
4. Component manufacturer certification. Each manufacturer of equipment to be placed in a building assigned to Seismic Design Categories E and F, in accordance with Chapter 16, where the equipment has a Component Importance Factor of 1.0 or 1.5 in accordance with Chapter 16, shall maintain an approved quality control program. Evidence of the quality control program shall be permanently identified on each piece of equipment by a label	N		IBC 1707.7.3			

**Schedule of Special Inspections – A/M/E/P**  
**SEISMIC RESISTANCE - MECHANICAL**

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
<b>IBC Section 1707</b>						
1. Mechanical components			Seismic Design Category:			
a. Periodic special inspection during the installation of HVAC ductwork that will contain hazardous materials in structures assigned to Seismic Design Category C, D, E or F	N		IBC 1707.7			
b. Periodic special inspection during installation of piping systems intended to carry flammable, combustible, or highly toxic contents and their associated mechanical units in structures assigned to Seismic Design Category C, D, E or F	N		IBC 1707.7			
2. Component inspection. Special inspection is required for the installation of the following components:	N					
a. Equipment using combustible energy sources	N		IBC 1707.7.1.1			
b. Reciprocating and rotating-type machinery	N		IBC 1707.7.1.3			
c. Piping distribution systems 3 inches (76 mm) and larger	N		IBC 1701.7.1.4			
d. Tanks, heat exchangers and pressure vessels	N		IBC 1701.7.1.5			
3. Component and attachment testing. The component manufacturer shall test or analyze the component and the component mounting system or anchorage for the design forces in Chapter 16 for those components having a Component Importance Factor of 1.0 or 1.5 in accordance with Chapter 16. The manufacturer shall submit a certificate of compliance for review and acceptance by the registered design professional responsible for the design, and for approval by the building official.	N		IBC 1707.7.2			
4. Component manufacturer certification. Each manufacturer of equipment to be placed in a building assigned to Seismic Design Categories E and F, in accordance with Chapter 16, where the equipment has a Component Importance Factor of 1.0 or 1.5 in accordance with Chapter 16, shall maintain an approved quality control program. Evidence of the quality control program shall be permanently identified on each piece of equipment by a label	N		IBC 1707.7.3			

**Quality Assurance Plan – A/M/E/P**  
**QUALITY ASSURANCE FOR SEISMIC RESISTANCE CHECK LIST [IBC 1705]**

<b>SEISMIC DESIGN CATEGORY:</b> Category C	
<b><u>QUALITY ASSURANCE PLAN REQUIREMENTS</u></b> (A Quality Assurance Plan, enacted through the Special Inspections requirements for this project, are in place for the following systems)	
<b>Mechanical/Piping:</b> <input type="checkbox"/> Heating, ventilating and air-conditioning (HVAC) ductwork containing hazardous materials and anchorage of such ductwork <input type="checkbox"/> Hazardous Material: <input type="checkbox"/> Hazardous Material: <input type="checkbox"/> Piping systems and mechanical units containing flammable, combustible or highly toxic materials <input type="checkbox"/> Material: <input type="checkbox"/> Material:	MER Not Req'd  Not Req'd
<b>Electrical:</b> <input type="checkbox"/> Anchorage of electrical equipment used for emergency or standby power systems <input type="checkbox"/> Equipment: <input type="checkbox"/> Equipment: <input type="checkbox"/> Equipment:	EER Not Req'd
<input type="checkbox"/> <b>ADDITIONAL SYSTEMS FOR SEISMIC DESIGN CATEGORY D OR HIGHER:</b>	
<b>Architectural:</b> <input type="checkbox"/> Exterior wall panels and their anchorage <input type="checkbox"/> Precast Concrete <input type="checkbox"/> Brick <input type="checkbox"/> Stone: <input type="checkbox"/> Other: <input type="checkbox"/> Suspended ceiling systems and their anchorage <input type="checkbox"/> Access floors and their anchorage <input type="checkbox"/> Steel storage racks and their anchorage <input type="checkbox"/> Retail Storage Racks <input type="checkbox"/> High Density Files <input type="checkbox"/> Other: <input type="checkbox"/> Life-safety component required to function after an earthquake: <input type="checkbox"/> Engineered Egress Stairs <input type="checkbox"/> Fire Protection Sprinkler System <input type="checkbox"/> Other: <input type="checkbox"/> Other: <input type="checkbox"/> Other:	RAR N/A  Not Req'd N/A N/A  Not Req'd
<input type="checkbox"/> <b>ADDITIONAL SYSTEMS FOR SEISMIC DESIGN CATEGORY D OR HIGHER:</b>	
<b>Electrical:</b> <input type="checkbox"/> Electrical equipment	EER N/A

Mechanical Engineer of Record (MER):

Electrical Engineer of Record (EER):

\_\_\_\_\_  
 Signature Date  
 Building Code Official's Acceptance:

\_\_\_\_\_  
 Signature Date  
 Registered Architect of Record (RAR):

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

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



## Contractor's Statement of Responsibility –Exhibit D

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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.



Special Inspections Report  
443 Congress Street, Portland, Maine

Inspection Reports:

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Becker Structural Engineer, Inc.  
S. W. Cole Engineering  
QA Labs



<b>OBSERVATION REPORT</b>
Structural Steel

<b>Date:</b>	7/7/2011
<b>Time:</b>	8:30am
<b>Temp:</b>	N/A Interior
<b>Weather:</b>	N/A Interior

<b>Project:</b>	443 Congress Street Stair
<b>Location:</b>	443 Congress Street, Portland, ME
<b>Becker Job No:</b>	2604

**Observation Location:**  
Installation of steel surrounding opening for stair

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Bolt Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Weld Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Anchor Bolts, Nuts, & Washers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Grout/Leveling Plates	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Fit Up/Plumbness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Metal Deck Welds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Pour Stops	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Bracing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Items	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Items	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

**Notes:**

**Signed:** Ethan A. Rhile, P.E.

<b>OBSERVATION REPORT</b>
Structural Steel

<b>Date:</b>	8/17/2011
<b>Time:</b>	7:450am
<b>Temp:</b>	N/A Interior
<b>Weather:</b>	N/A Interior

<b>Project:</b>	443 Congress Street Stair
<b>Location:</b>	443 Congress Street, Portland, ME
<b>Becker Job No:</b>	2604

**Observation Location:**  
Post stair installation

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Bolt Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Weld Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Anchor Bolts, Nuts, & Washers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Grout/Leveling Plates	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Fit Up/Plumbness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Metal Deck Welds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Pour Stops	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Bracing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Items	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Items	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

**Notes:**  
Note that finishes were up at the time of my visit.

**Signed:** Ethan A. Rhile, P.E.

11-0525

July 15, 2011

JJR 443 Congress, LLC,  
C/O Development Services of New England  
Attention: Alan Nichols  
17 Chestnut Street  
Portland, Maine 04101

Subject: Report  
Sprayed Fire Resistive Material (SFRM)  
Planned Parenthood of Northern New England  
Second and Third Floor Renovation Project  
443 Congress Street  
Portland, Maine

Alan:

As scheduled by Steve Keltonic of The Thaxter Company, we made a site visit to measure the thickness and obtain samples of SFRM from the third floor structural steel framing members.

### **Observation and Findings**

At the time of our site visit the application of SFRM to the third floor framing was substantially complete. The material appeared to provide sufficient coverage and was adhering to the steel members. The ambient conditions were dry and the material appeared to be protected from external conditions.

We performed thickness measurements at three columns (E/4, C/4 and G/2) and a beam (E/4 to E/2) and obtained a density sample (G/2). The nature of the renovation work prevented performing the minimum number of measurements in accordance with the ASTM standard; 12 for columns and 9 for beams at 1 foot spacing at two locations. Therefore, we calculated the average with 7 and 6 readings at 1 foot spacing at two locations for columns and beams respectively.

The results are shown in the table below:

July 15, 2011

<b>Location</b>	<b>Type</b>	<b>Average Thickness (ins.)</b>	<b>Specification (ins.)</b>
E/4	Column	2.85	1.38
C/4	Column	1.96	1.38
G/2	Column	1.77	1.38
E/4 to E/2	Beam	2.25	1.56

The dry density of the SFRM sample obtained at G/2 is 19.8 pcf which meets the 15 pcf requirement.

If you have any questions regarding this report, please do not hesitate to contact me.

Very truly yours,

**S. W. COLE ENGINEERING, INC.**

Roger E. Domingo  
Construction Services Manager



# Quality Assurance Labs Inc.

NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES

80 PLEASANT AVENUE • SOUTH PORTLAND, MAINE 04106 • TEL: (207) 799-8911 • FAX: (207) 799-7251

## INSPECTION REPORT

CUSTOMER: THAXTER CO.			PAGE 1 OF 1
ADDRESS: 55 BELL ST., PORTLAND, ME. 04103			
ATTENTION: STEVE KELTON			
COPIES: FILE			
PROJECT: 443 CONGRESS ST., PLANNED PARENTHOOD OF NORTHERN NEW ENGLAND			
OWNER: SAME			
CONTRACTOR: THAXTER CO.			
JOB No.:	REPORT No.: QAL-11-1416	P. O. NUMBER:	DATES INSPECTED: 07-08-11

### REMARKS

>>>> SITE VISIT TO PERFORM VISUAL INSPECTIONS OF STRUCTURAL STEEL FIELD CONNECTIONS PER THIRD FLOOR FRAMING PLAN DRAWING SK-S1 FOR STAIR ATTACHMENTS . GRIDS EX-EX,EX-EX :

> W12X14 TO W12X14 WELDED AND HIGH STRENGTH A325 BOLTED CONNECTIONS COMPLETE PER SITE DRAWINGS AND AWS D1.1 , AISC REQUIREMENTS .

END ITEMS ///

**FAA REPAIR STATION NUMBER RX5R187N**  
METHOD(S),PROCESS(ES),PROCEDURE(S) MERCURY FREE

ADDITIONAL INFORMATION - SEE ATTACHED:  SKETCH(ES)  SUPPLEMENTARY SHEET(S)  NDT REPORTS  VIDEO

SIGNATURES			CERTIFICATION		DATE		
			LEVEL		M	D	Y
INSPECTOR	M. Drew	CWI # 99050211	ASNT	II	07	08	11
SUPERVISOR	<i>Sign For Dwayne Parshurman</i>						

Special Inspections Report  
443 Congress Street, Portland, Maine

Fabricators Data:

---

Quality Assurance Procedures

Certificate of Compliance

Material Certifications

Welder Certifications



# LMC Light Iron, Inc

51 E. Range Road, Portland, Maine 04108

Telephone (207) 793-9957

# LMC Light Iron, Inc

51 E. Range Road, Portland, Maine 04108

Telephone (207) 793-9957

Telephone (207) 793-9957

September 6, 2011

September 6, 2011

The Thaxter Company  
Bell Street 55  
Portland, Maine 04103

The Thaxter Company  
Bell Street 55  
Portland, Maine 04103

Re: Planned Parenthood  
Portland, Maine

Re: Planned Parenthood  
Portland, Maine

Gentlemen: Good

Gentlemen: Good

Even though LMC Light Iron, part of the AISC program, we do not certify our welders and fabricators with our welding A.W.S. certified per D1.1

Even though LMC Light Iron, part of the AISC program, we do not certify our welders and fabricators with our welding A.W.S. certified per D1.1

All of our materials comply with the specifications for each job.

All of our materials comply with the specifications for each job.

Our detailing software is based on the AISC Manual Construction Detailing for Automatic Group shop drawings.

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Shop drawings are prepared for each project. Typically a drawing contains the following information:

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- Date and initials of the fabricator
- Date and signature of the checker
- Date and initials of the fabricator

- Date and initials of the fabricator
- Date and signature of the checker
- Date and initials of the fabricator

Welding is required on the labels site inspection are also done or to painting and shipping.

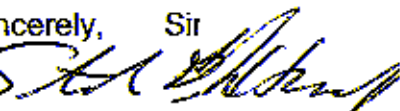
Welding is required on the labels site inspection are also done or to painting and shipping.

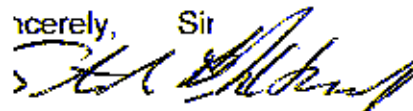
Before shipping, please separate the shop drawings for reference. This allows final review of cutting prior to shipping and ship list is so used to delug the loading.

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If you have any further questions, please do not hesitate to

If you have any further questions, please do not hesitate to

Sincerely, Sir  
  
Stephen D. Hilton  
President

Sincerely, Sir  
  
Stephen D. Hilton  
President

DH/dh SE

DH/dh SE





ORDER #  
NUMBER: FARG 3013313

ORDER #  
NUMBER: FARG 3013313

V-V-NOTCH DIMENSIONS:

LODD : AS-WE  
TEMPERATURE (°F) : -20  
TEMPERATURE (°C) : -29  
W MIN (FT-CORR) : 20  
W MIN (JOHNS) : 27

V-V-NOTCH DIMENSIONS:

LODD : AS-WE  
TEMPERATURE (°F) : -20  
TEMPERATURE (°C) : -29  
W MIN (FT-CORR) : 20  
W MIN (JOHNS) : 27

V-V-NOTCH RESULTS:

LODD : AS-WE  
F) TEMP (FT-LBSEMP (C) ) 5 JOULES AS  
0 101 -18 137 75AR/25C02  
-20 61 -29 83 75AR/25C02

V-V-NOTCH RESULTS:

LODD : AS-WE  
F) TEMP (FT-LBSEMP (C) ) 5 JOULES AS  
0 101 -18 137 75AR/25C02  
-20 61 -29 83 75AR/25C02

Material ~~identified~~ any mercury.

Material ~~identified~~ any mercury.

undersigned hereby certifies that the equipment used in this application is as specified in the contract, and that no significant change has been made without the approval of the customer.

The ESAB Group, Inc.

1500 Karen Lane  
Hanover, PA 17331  
www.esab.com  
Fax: 1-800-444-8911  
Phone: 1-800-423ESAB

*[Signature]*  
Supervisor, Q. Control Dept.



The ESAB Group, Inc.

1500 Karen Lane  
Hanover, PA 17331  
www.esab.com  
Fax: 1-800-444-8911  
Phone: 1-800-423ESAB

*[Signature]*  
Supervisor, Q. Control Dept.







**TYPE CERTIFICATION ANALYSIS**

ORDER #  
NUMBER: **PA2-5013313**

ORDER NAME: CUSTOR

WELDER & LENGTHS  
NAME: TRADE SHIELD BUA  
TYPE 70 Ultra II  
CLASSIFICATION CLASS: 1M/T-12M E71  
5.20-95, ASME SFA 5.20

**CHEMICAL ANALYSIS:**

**PROPERTIES REQUIREMENTS**

C	Carbon	0.04	0.15 Max
Mn	Mangan	1.04	1.60 Max
Si	Silic	0.36	0.90 Max
P	Phosph	0.008	0.03 Max
S	Sulph	0.009	0.03 Max
Cr	Chrom	0.03	0.20 Max
Ni	Nickel	0.01	0.50 Max
Cu	Copper	0.01	0.30 Max
V	Vanadi	0.02	0.08 Max
Co	Copp	0.11	0.35 Max

**RADIOGRAPHY:**

XRAY satisfactory Sat

**WELDABLE HYDROGEN:**

TEST: AVERA:(ml/100gr @90)  
METHOD: GAS UR/25C02 75A

**MECHANICAL REQUIREMENTS:**

LOAD	AS WEL	
TENSILE (psi) MIN Y	58000	
TENSILE (MPa) MIN Y	400	
TENSILE (psi) MIN T	70000	R (psi) TENSIL 90000
TENSILE (MPa) MIN T	480	R (MPa) TENSIL 620
ELONG : MIN %	22.0	

**MECHANICAL RESULTS:**

AS WELDED

TEST	GAS UR/25C02	75A R/
TENSILE (psi)	74000	
TENSILE (MPa)	511	
TENSILE (psi)	92250	
TENSILE (MPa)	568	
ELONGATION : % ELON	30.0	
ELONGATION OF TENSILE	73.5	

The ESAB Group, Inc.

1500 Karen Lane  
Hanover, PA 17331  
www.esab.com  
Fax: 1-800-444-8811  
Phone: 1-800-423-ESAB

*Signature*  
Superior, R. Williams



**TYPE CERTIFICATION ANALYSIS**

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NUMBER: **PA2-5013313**

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Hanover, PA 17331  
www.esab.com  
Fax: 1-800-444-8811  
Phone: 1-800-423-ESAB

*Signature*  
Superior, R. Williams





rtificate of Complia

rtificate of Complia

Sold To:

Order: Purchase 8059

Sold To:

Order: Purchase 8059

HT IRON/SLIGI

Job:

HT IRON/SLIGI

Job:

date: Invoice 05/23/2011

date: Invoice 05/23/2011

THIS IS TO CERTIFY WE SUPPLIED THE FOLLOWING PARTS. THESE PARTS SEER TO CONFORM TO THE SPECIFICATIONS.

THIS IS TO CERTIFY WE SUPPLIED THE FOLLOWING PARTS. THESE PARTS SEER TO CONFORM TO THE SPECIFICATIONS.

10 x 2 1/2" PCL 4301 PMS HIGH STRENGTH FLANGE NUMBER 16004925  
OR PART NUMBER 42604

10 x 2 1/2" PCL 4301 PMS HIGH STRENGTH FLANGE NUMBER 16004925  
OR PART NUMBER 42604

ASTM F436 Plate Water Sealed Under Cover 160017507 AND  
RT NUMBER P43120

ASTM F436 Plate Water Sealed Under Cover 160017507 AND  
RT NUMBER P43120

I certify that this document is true and correct to the best of my knowledge.

I certify that this document is true and correct to the best of my knowledge.

It was printed on 05/23/2011 at that was o  
time.

It was printed on 05/23/2011 at that was o  
time.

Account Representative Signature: e Location Address

Account Representative Signature: e Location Address

Robert E Day  
Home Phone: 282-1688 # (207)  
282-1828 # (207)2

Robert E Day  
Home Phone: 282-1688 # (207)  
282-1828 # (207)2

05/11/11

05/11/11

Date

Page 1 of 1

Date

Page 1 of 1

CARTERSVILLE STEEL MILL  
384 OLD GRASSDALE RD NE  
CARTERSVILLE GA 30121 USA  
(770) 387-3300

SALES ORDER		CUST P.O. NUMBER	
1629588-05		095037935	
PRODUCED IN: CARTERSVILLE Tensile: 72400 PSI, 489.18 MPA %EL: 23.08% Yield: 401.98 MPA Elongation: 22.32% Charpy: 32 J Weight: 60005840			

SALES ORDER		CUST P.O. NUMBER	
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Element	C	Mn	P	S	Si	Al	Ni	Cr	Mo	V	Nb	B	N	Sn	As	Th	Zn	Co	Er	G	Er	V	
Chemical Notes	.38	.95	.010	.018	.28	.27	.13	.04	.028	.028	.002	.0008	.0062	.010	.001	.00100	.00230	.33					

Blaskar Yalamanchi  
Quality Director  
Gerdau Ameristeel

Seller warrants that all material furnished shall comply with specifications subject to standard published manufacturing variations. NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, ARE MADE BY THE SELLER, AND SPECIFICALLY EXCLUDED ARE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. In no event shall seller be liable for indirect, consequential or punitive damages arising out of or related to the materials furnished by seller. Any claim for damages for materials that do not conform to specifications must be made from buyer to seller immediately after delivery of same in order to allow the seller the opportunity to inspect.

Metallurgical Services Manager  
CARTERSVILLE STEEL MILL  
095037935

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384 OLD GRASSDALE RD NE  
CARTERSVILLE GA 30121 USA  
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Metallurgical Services Manager  
CARTERSVILLE STEEL MILL  
095037935



**MATERIAL TEST REPORT**

**MATERIAL TEST REPORT**

JUL 18 2011

JUL 18 2011

**Shipped to**  
 Mill Metals Corporation  
 62 Maple Street  
 MANCHESTER NH 03103  
 USA

**Shipped to**  
 Mill Metals Corporation  
 62 Maple Street  
 MANCHESTER NH 03103  
 USA

Material No: 2002D1252400 Made in: USA  
 Melted in: USA  
 Purchase Order: 60417  
 Order: 650407 Sales or  

C	Heat	Mn	Si	P	Al	S	Cu	Ni	Cb	Cr	Mo	V	N	Ti
0.200	D27921	0.024	0.013	0.007	0.006	0.040	0.010	0.004	0.004	0.004	0.004	0.001	0.001	0.001

 Certification C.35  
 No PCs Yield Elong. Tensile  
 86702 50 80000 Psi %078200 Psi 500-10A GRADE B&C  
 Material Sales (22418)

Material No: 2002D1252400 Made in: USA  
 Melted in: USA  
 Purchase Order: 60417  
 Order: 650407 Sales or  

C	Heat	Mn	Si	P	Al	S	Cu	Ni	Cb	Cr	Mo	V	N	Ti
0.200	D27921	0.024	0.013	0.007	0.006	0.040	0.010	0.004	0.004	0.004	0.004	0.001	0.001	0.001

 Certification C.35  
 No PCs Yield Elong. Tensile  
 86702 50 80000 Psi %078200 Psi 500-10A GRADE B&C  
 Material Sales (22418)

Material No: 250251882400 Made in: USA  
 Melted in: USA  
 Purchase Order: 60359  
 Order: 64829 Sales or  

C	Heat	Mn	Si	P	Al	S	Cu	Ni	Cb	Cr	Mo	V	N	Ti
0.200	W26015	0.028	0.009	0.007	0.007	0.030	0.010	0.004	0.004	0.004	0.004	0.001	0.001	0.001

 Certification C.34  
 No PCs Yield Elong. Tensile  
 86487 32 80000 Psi %080740 Psi 1500-10A GRADE B&C  
 Material Sales (31222(24))

Material No: 250251882400 Made in: USA  
 Melted in: USA  
 Purchase Order: 60359  
 Order: 64829 Sales or  

C	Heat	Mn	Si	P	Al	S	Cu	Ni	Cb	Cr	Mo	V	N	Ti
0.200	W26015	0.028	0.009	0.007	0.007	0.030	0.010	0.004	0.004	0.004	0.004	0.001	0.001	0.001

 Certification C.34  
 No PCs Yield Elong. Tensile  
 86487 32 80000 Psi %080740 Psi 1500-10A GRADE B&C  
 Material Sales (31222(24))

Material No: 300302502400 Made in: USA  
 Melted in: USA  
 Purchase Order: 60359  
 Order: 64828 Sales  

C	Heat	Mn	Si	P	Al	S	Cu	Ni	Cb	Cr	Mo	B	V	N	Ti
0.200	D27921	0.016	0.013	0.008	0.008	0.030	0.010	0.003	0.004	0.004	0.004	0.001	0.001	0.001	0.001

 Certification C.34  
 No PCs Yield Elong. Tensile  
 267387 30 80000 Psi %077780 P 1500-10A GRADE B&C  
 Material Sales (23814)

Material No: 300302502400 Made in: USA  
 Melted in: USA  
 Purchase Order: 60359  
 Order: 64828 Sales  

C	Heat	Mn	Si	P	Al	S	Cu	Ni	Cb	Cr	Mo	B	V	N	Ti
0.200	D27921	0.016	0.013	0.008	0.008	0.030	0.010	0.003	0.004	0.004	0.004	0.001	0.001	0.001	0.001

 Certification C.34  
 No PCs Yield Elong. Tensile  
 267387 30 80000 Psi %077780 P 1500-10A GRADE B&C  
 Material Sales (23814)

Authorized by Quality Assurance: [Signature]  
 Results reported on this report represent the material furnished and indicate full compliance with all applicable requirements.  
 Method used: ASTM A578 D1.1 method.

Authorized by Quality Assurance: [Signature]  
 Results reported on this report represent the material furnished and indicate full compliance with all applicable requirements.  
 Method used: ASTM A578 D1.1 method.







JUL 13 2011

Critical and Physical Test report  
Made and Melted in USA

**GERDAU AMERISTEEL**

YOUNGSTOWN DEBOT  
382 ROSEMONT RD  
N JACKSON OH 44451 USA  
(966) 658-2858

SHIP DATE		SUBSIZ-04													CUST P.O. NUMBER				
WEAR METALS CORROSION	P	S	SI	CU	NI	CR	MN	MO	V	Nb	B	N	SN	Al	TI	CEW	ZN	CA	Zn
ASTM A38-08, ASTM A36-08, ASTM A770-08, ASTM A770-08, ASTM A770-08, ASTM A770-08	0.18	0.10	0.27	0.23	0.01	0.007	0.068	0.010	0.010	0.001	0.010	0.012	0.001	0.010	0.010	0.0100	0.0080	0.0440	0.43
YIELD 59500 PSI, 389.65 MPa TENSILE 74800 PSI	<b>PRODUCED IN: CARTERSVILLE</b> CUSTOMER REQUIREMENTS: CASTING: STRAND CAST NO WELD REPAIR STEEL NOT EXPOSED TO MERCURY STEEL NOT EXPOSED TO MERCURY CUSTOMER REQUIREMENTS: CASTING: STRAND CAST NO WELD REPAIR STEEL NOT EXPOSED TO MERCURY STEEL NOT EXPOSED TO MERCURY																		
SALES ORDER		1053127-07													CUST P.O. NUMBER				
															60-405-07				

*Shaskoy*

Shekhar Yalamanchili  
Quality Director  
Gerdau Ameristeel

Metallurgical Services Manager  
CARTERSVILLE STEEL MILL

Seller warrants that all material furnished shall comply with specifications subject to standard published manufacturing variations. NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, ARE MADE BY THE

**GERDAU AMERISTEEL**

YOUNGSTOWN DEBOT  
382 ROSEMONT RD  
N JACKSON OH 44451 USA  
(966) 658-2858

JUL 13 2011

Page 5 of 7

SHIP DATE		SUBSIZ-04													CUST P.O. NUMBER				
WEAR METALS CORROSION	P	S	SI	CU	NI	CR	MN	MO	V	Nb	B	N	SN	Al	TI	CEW	ZN	CA	Zn
ASTM A38-08, ASTM A36-08, ASTM A770-08, ASTM A770-08, ASTM A770-08, ASTM A770-08	0.18	0.10	0.27	0.23	0.01	0.007	0.068	0.010	0.010	0.001	0.010	0.012	0.001	0.010	0.010	0.0100	0.0080	0.0440	0.43
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N JACKSON OH 44451 USA  
(966) 658-2858

JUL 13 2011

Page 5 of 7

SHIP DATE		SUBSIZ-04													CUST P.O. NUMBER				
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ASTM A38-08, ASTM A36-08, ASTM A770-08, ASTM A770-08, ASTM A770-08, ASTM A770-08	0.18	0.10	0.27	0.23	0.01	0.007	0.068	0.010	0.010	0.001	0.010	0.012	0.001	0.010	0.010	0.0100	0.0080	0.0440	0.43
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															60-405-07				

*Shaskoy*

Shekhar Yalamanchili  
Quality Director  
Gerdau Ameristeel

Metallurgical Services Manager  
CARTERSVILLE STEEL MILL

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**GERDAU AMERISTEEL**

YOUNGSTOWN DEBOT  
382 ROSEMONT RD  
N JACKSON OH 44451 USA  
(966) 658-2858

4 A  
 Iova Steel Inc  
 1331 Graham Bell  
 789-5511 Fax 789-5515 366-31

4 A  
 Iova Steel Inc  
 1331 Graham Bell  
 789-5511 Fax 789-5515 366-31

CERTIFICATE

CERTIFICATE

du a: ROGER LEROUX Dite Expedite 15/07/11  
 Date a: ROGER LEROUX CLF #: 146466  
 1331 GRAHAM BELI # B.C.:M 94026007  
 BOUCHERVILLE, Qc de Commande: 026073

du a: ROGER LEROUX Dite Expedite 15/07/11  
 Date a: ROGER LEROUX CLF #: 146466  
 1331 GRAHAM BELI # B.C.:M 94026007  
 BOUCHERVILLE, Qc de Commande: 026073

3116 3(24)

3116 3(24)

Description	Des	Dimensions	Form	Matériau	Spécification	Grades
HSS, Form. Proj. Tube		3x3x0.188x200	USCA	A500	10	GRADE C
HSS, Form. Proj. Tube		3x3x0.188x200	USCA	A500	10	GRADE C
HSS, Form. Proj. Tube		3x3x0.188x200	USCA	A500	10	GRADE C

Description	Des	Dimensions	Form	Matériau	Spécification	Grades
HSS, Form. Proj. Tube		3x3x0.188x200	USCA	A500	10	GRADE C
HSS, Form. Proj. Tube		3x3x0.188x200	USCA	A500	10	GRADE C
HSS, Form. Proj. Tube		3x3x0.188x200	USCA	A500	10	GRADE C

Coulee	Composition Ch									
	#	Gr	Mn	Pu	Si	S	Al	Ni	Sn	B
803867	USC	50	0.50	0.05	0.05	0.05	0.05	0.05	0.05	0.05
759009	USC	50	0.50	0.05	0.05	0.05	0.05	0.05	0.05	0.05
3065L	ALG	50	0.50	0.05	0.05	0.05	0.05	0.05	0.05	0.05

Coulee	Composition Ch									
	#	Gr	Mn	Pu	Si	S	Al	Ni	Sn	B
803867	USC	50	0.50	0.05	0.05	0.05	0.05	0.05	0.05	0.05
759009	USC	50	0.50	0.05	0.05	0.05	0.05	0.05	0.05	0.05
3065L	ALG	50	0.50	0.05	0.05	0.05	0.05	0.05	0.05	0.05

Resultats Mecaniques

Resultats Mecaniques

de Coulee	#	Bobine	ou	Dimensions	Matériau	Spécification	Grades	N-fact
803867	HSS	3x3x0.188x200	185	50	USCA	A500	10	PPFI 22.00(2") P
759009	HSS	3x3x0.188x200	185	50	USCA	A500	10	PPFI 22.00(2") P
3065L	HSS	3x3x0.188x200	185	50	USCA	A500	10	PPFI 22.00(2") P

de Coulee	#	Bobine	ou	Dimensions	Matériau	Spécification	Grades	N-fact
803867	HSS	3x3x0.188x200	185	50	USCA	A500	10	PPFI 22.00(2") P
759009	HSS	3x3x0.188x200	185	50	USCA	A500	10	PPFI 22.00(2") P
3065L	HSS	3x3x0.188x200	185	50	USCA	A500	10	PPFI 22.00(2") P

de Coulee # Fabrication au(x)  
 /803867 USCA Le Canad  
 /759009 USCA Le Canad  
 /3065L ALGA Le Canad



de Coulee # Fabrication au(x)  
 /803867 USCA Le Canad  
 /759009 USCA Le Canad  
 /3065L ALGA Le Canad



Authorise par le fabricant de qua

Authorise par le fabricant de qua

15, 2011DUL

15, 2011DUL



SHIP DATE: 07/18/11  
CUST. ACCOUNT NO: 60076023

SHIP DATE	1054141-09	80443-09
07/18/11		

INVOICES NO: 1054141-09	SHIP DATE: 07/18/11	80443-09
ASTM A36-10A	ASTM A709-10	ASTM A709-10 GR36
Yield: 473802 PSI, 3267.44 MPA	Tensile: 65800 PSI, 453.68 MPA	%El: 32.08in, 32.0200MM

Element	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Nb	B	Al	Ti	C	Eqv
ASTM A36-10A	.11	.69	.016	.036	.22	.30	.09	.12	.050	.016	<.008	.0003	.010	.001	.00100	.244

Produced in: JACKSON TN, 358 DAMPKING RD, MANCHESTER, NH 03103  
 Produced in: JACKSON TN, 358 DAMPKING RD, MANCHESTER, NH 03103  
 Produced in: JACKSON TN, 358 DAMPKING RD, MANCHESTER, NH 03103

Quality Director: Gerdau Ameristeel  
 Bhaaskar Yalamanchili

SHIP DATE: 07/18/11  
CUST. ACCOUNT NO: 60076023

SHIP DATE	1054141-08	80443-08
07/18/11		

INVOICES NO: 1054141-08	SHIP DATE: 07/18/11	80443-08
ASTM A36-10A	ASTM A709-10	ASTM A709-10 GR36
Yield: 473802 PSI, 3267.44 MPA	Tensile: 65800 PSI, 453.68 MPA	%El: 32.08in, 32.0200MM

Element	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Nb	B	Al	Ti	C	Eqv
ASTM A36-10A	.11	.69	.016	.036	.22	.30	.09	.12	.050	.016	<.008	.0003	.010	.001	.00100	.244

Produced in: JACKSON TN, 358 DAMPKING RD, MANCHESTER, NH 03103  
 Produced in: JACKSON TN, 358 DAMPKING RD, MANCHESTER, NH 03103  
 Produced in: JACKSON TN, 358 DAMPKING RD, MANCHESTER, NH 03103

Quality Director: Gerdau Ameristeel  
 Bhaaskar Yalamanchili

WHITBY STEEL MILL  
HOPKINS STREET SOUTH  
WHITBY ON L1N 5T1 CAN  
(905) 666-5811

# 5.

GERDAU AMERISTEEL  
MADE IN CANADA

INTERNATIONAL STEEL TRADE ASSOCIATION  
MADE IN CANADA

WPC177330

HEADLINE		INVOICE TO										SHIP DATE	
GRADE	SIZE	YIELD	TENSILE	TEMPER	DELIVERY	UNIT	QTY	NET WT	GROSS WT	NET WT	GROSS WT	DATE	TIME
A36	4 X 4 X 5/16	50W	50812 PSI	353.28 MPa	Temp: 72183 PSI	25.07200MM	25.07200MM	25.07200MM	25.07200MM	25.07200MM	25.07200MM	09/25/11	13:00
PRODUCED IN: WHITBY SPECIFICATION: A36/A36W/50W/AS360R3D/ASTM/A36-06/AS29900 M-06/CSA/C40 21-04/RC2000 44 SALES ORDER: 9425824-04 CUST P.O. NUMBER: 9425824-04													

Customer Notes  
NO WELD REPAIRMENT PERFORMED. STEEL NOT EXPOSED TO MERCURY.  
This material, including the blanks, was melted and manufactured in Canada.  
Shaker Valenardillo  
Quality Director  
Gerdau Ameristeel

THE ABOVE FIGURES ARE CERTIFIED CHEMICAL AND PHYSICAL PERMANENT RECORDS OF COMPANY.  
LEMOUX  
Metallurgical Services Manager  
WHITBY STEEL MILL  
094070446

Seller warrants that all material furnished shall comply with specifications subject to standard published manufacturing variations. NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, ARE MADE BY THE SELLER, AND SPECIFICALLY EXCLUDED ARE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  
In no event shall seller be liable for incidental, consequential or punitive damages arising out of or related to the materials furnished by seller.  
Any claim for damages for materials that do not conform to specifications must be made from buyer to seller immediately after delivery of same in order to allow the seller the opportunity to inspect the material in question.

GERDAU AMERISTEEL  
MADE IN CANADA

INTERNATIONAL STEEL TRADE ASSOCIATION  
MADE IN CANADA

WPC177330

WHITBY STEEL MILL  
HOPKINS STREET SOUTH  
WHITBY ON L1N 5T1 CAN  
(905) 666-5811

# 5.

HEADLINE		INVOICE TO										SHIP DATE	
GRADE	SIZE	YIELD	TENSILE	TEMPER	DELIVERY	UNIT	QTY	NET WT	GROSS WT	NET WT	GROSS WT	DATE	TIME
A36	4 X 4 X 5/16	50W	50812 PSI	353.28 MPa	Temp: 72183 PSI	25.07200MM	25.07200MM	25.07200MM	25.07200MM	25.07200MM	25.07200MM	09/25/11	13:00
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SHIP DATE		1050872-04		60358-04	
SECTION#	A36	ASTM A36-08	ASTM A709 GR50-10	SHIP DATE	1050872-04
WEAR METALS CORROSION	P	S	Cu	Ni	Mn
	.14	.96	.012	.18	.30
<b>PRODUCTION INFORMATION</b>					
MATERIAL SPEC: Y84 69500 PSI, 403.34 MPA Tensile; 78600 PSI, 540.28 MPA Yield; 23.9/200MM Elongation; 0.0050 IN. WALL THICKNESS; STRAND CAST					

**PRODUCTION INFORMATION**  
 A36  
 Y84 69500 PSI, 403.34 MPA Tensile; 78600 PSI, 540.28 MPA Yield; 23.9/200MM Elongation; 0.0050 IN. WALL THICKNESS; STRAND CAST  
 MANUFACTURED BY: GERDAU AMERISTEEL  
 382 ROSEMONT RD, N JACKSON, OH 44451 USA  
 TEL: 419.462.4000 FAX: 419.462.4000  
 CARRIER: DART  
 ORDER NO: 1050872-04  
 SALES ORDER: 60358-04  
 CUST. P.O. NUMBER:

SHIP DATE		1050872-05		60358-05	
SECTION#	A36	ASTM A36-08	ASTM A709 GR50-10	SHIP DATE	1050872-05
WEAR METALS CORROSION	P	S	Cu	Ni	Mn
	.14	.92	.010	.20	.25
<b>PRODUCTION INFORMATION</b>					
MATERIAL SPEC: Y84 69500 PSI, 403.34 MPA Tensile; 78600 PSI, 540.28 MPA Yield; 23.9/200MM Elongation; 0.0050 IN. WALL THICKNESS; STRAND CAST					

**PRODUCTION INFORMATION**  
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 Y84 69500 PSI, 403.34 MPA Tensile; 78600 PSI, 540.28 MPA Yield; 23.9/200MM Elongation; 0.0050 IN. WALL THICKNESS; STRAND CAST  
 MANUFACTURED BY: GERDAU AMERISTEEL  
 382 ROSEMONT RD, N JACKSON, OH 44451 USA  
 TEL: 419.462.4000 FAX: 419.462.4000  
 CARRIER: DART  
 ORDER NO: 1050872-05  
 SALES ORDER: 60358-05  
 CUST. P.O. NUMBER:

*Shaskany*  
 Bhasakar Yalamanchili  
 Quality Director  
 Gerdau Ameristeel

**GERDAU AMERISTEEL**  
 382 ROSEMONT RD  
 N JACKSON OH 44451 USA  
 (866) 658-2958

Statement: that all material furnished shall comply with specifications subject to standard published manufacturing variations. NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, ARE MADE BY THE  
**Chemical and Physical Test Report**  
 Made and Melted In USA  
 JUL 07 2011

*Shaskany*  
 Metallurgical Services Manager  
 CARTERSVILLE STEEL MILL

SHIP DATE		1050872-04		60358-04	
SECTION#	A36	ASTM A36-08	ASTM A709 GR50-10	SHIP DATE	1050872-04
WEAR METALS CORROSION	P	S	Cu	Ni	Mn
	.14	.95	.012	.18	.30
<b>PRODUCTION INFORMATION</b>					
MATERIAL SPEC: Y84 69500 PSI, 403.34 MPA Tensile; 78600 PSI, 540.28 MPA Yield; 23.9/200MM Elongation; 0.0050 IN. WALL THICKNESS; STRAND CAST					

**PRODUCTION INFORMATION**  
 A36  
 Y84 69500 PSI, 403.34 MPA Tensile; 78600 PSI, 540.28 MPA Yield; 23.9/200MM Elongation; 0.0050 IN. WALL THICKNESS; STRAND CAST  
 MANUFACTURED BY: GERDAU AMERISTEEL  
 382 ROSEMONT RD, N JACKSON, OH 44451 USA  
 TEL: 419.462.4000 FAX: 419.462.4000  
 CARRIER: DART  
 ORDER NO: 1050872-04  
 SALES ORDER: 60358-04  
 CUST. P.O. NUMBER:

SHIP DATE		1050872-05		60358-05	
SECTION#	A36	ASTM A36-08	ASTM A709 GR50-10	SHIP DATE	1050872-05
WEAR METALS CORROSION	P	S	Cu	Ni	Mn
	.14	.92	.010	.20	.25
<b>PRODUCTION INFORMATION</b>					
MATERIAL SPEC: Y84 69500 PSI, 403.34 MPA Tensile; 78600 PSI, 540.28 MPA Yield; 23.9/200MM Elongation; 0.0050 IN. WALL THICKNESS; STRAND CAST					

**PRODUCTION INFORMATION**  
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 Made and Melted In USA  
 JUL 07 2011

*Shaskany*  
 Metallurgical Services Manager  
 CARTERSVILLE STEEL MILL



# CERTIFIED MILL TEST REPORT

we hereby certify that the test results presented here are accurate and conform to the reported grade specification

CMC STEEL ALABAMA  
101 S. 50TH STREET  
BIRMINGHAM AL 35212-3525  
600-837-3227  
For additional copies call

*Marcus W. McCluney*  
Marcus W. McCluney - CMC Steel AL  
Quality Assurance Manager

## 1 SERIES-BPS TM

HEAT NO.: 1009860	S	Acier Leroux	3	Acier Leroux	Delivery#: 80432015	Value
SECTION: FLAT 1/4" BPS	1	1331 Graham Belt			BOL# 5888939318	
A36/52988		Beucherville Quebec QC			CUST PO#: M94026018	
GRADE: ASTM A36-08/A529-05	C	CA J4B 6A1			CUST P/N:	
ROLL DATE: 12/07/2010	Mn	1508412729-N/A			DLVRY LBS / HEAT: 46900.000 LB	
MELT DATE: 12/06/2010	P	4508418426-N/A			DLVRY PCS / HEAT: 540 EA	
	S	Yield Strength test 2	2	23%		
	SI	Tensile Strength test 2	2	81N		
	CU					
	CI					
	Ni					
	Mn					
	Carbon Eq A6					
	Carbon Eq A529					
	Cb					
	Yield Strength test 1					
	Tensile Strength test 4					
				01/21/2011 09:36:02		



THIS MATERIAL IS FULLY KILLED, 100% MELTED AND MANUFACTURED IN THE USA BY WIPAC WELD REPAIR OR MERCURY CONTAMINATION IN THE PROCESS.

REMARKS: ALSO MEETS GRADES ASTM A36, A529 GR.50, A572 GR.55, A572 GR.36, A709 GR.50, AASHTO M270 GR.36, M270 GR.50, CSA G40.21-04 44W,50W,55W



# CERTIFIED MILL TEST REPORT

we hereby certify that the test results presented here are accurate and conform to the reported grade specification

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101 S. 50TH STREET  
BIRMINGHAM AL 35212-3525  
600-837-3227  
For additional copies call

*Marcus W. McCluney*  
Marcus W. McCluney - CMC Steel AL  
Quality Assurance Manager

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HEAT NO.: 1009860	S	Acier Leroux	3	Acier Leroux	Delivery#: 80432015	Value
SECTION: FLAT 1/4" BPS	1	1331 Graham Belt			BOL# 5888939318	
A36/52988		Beucherville Quebec QC			CUST PO#: M94026018	
GRADE: ASTM A36-08/A529-05	C	CA J4B 6A1			CUST P/N:	
ROLL DATE: 12/07/2010	Mn	1508412729-N/A			DLVRY LBS / HEAT: 46900.000 LB	
MELT DATE: 12/06/2010	P	4508418426-N/A			DLVRY PCS / HEAT: 540 EA	
	S	Yield Strength test 2	2	23%		
	SI	Tensile Strength test 2	2	81N		
	CU					
	CI					
	Ni					
	Mn					
	Carbon Eq A6					
	Carbon Eq A529					
	Cb					
	Yield Strength test 1					
	Tensile Strength test 4					
				01/21/2011 09:36:02		



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REMARKS: ALSO MEETS GRADES ASTM A36, A529 GR.50, A572 GR.55, A572 GR.36, A709 GR.50, AASHTO M270 GR.36, M270 GR.50, CSA G40.21-04 44W,50W,55W



WELDER, WELDING OPERATOR IDENTIFICATION TEST RECORD

WELDER, WELDING OPERATOR IDENTIFICATION TEST RECORD

Name of Welder: Richard MANSON  
 Identification No.: 16296  
 Welding Procedure Specification No.: TAL Rev AWS A3.3-3-08

Name of Welder: Richard MANSON  
 Identification No.: 16296  
 Welding Procedure Specification No.: TAL Rev AWS A3.3-3-08

Variables	Value	Record	Actual	Qualification Range
Process/Type [Table 4.10, Item (2)]	<u>ECAW</u>			
Electrode (single or multiplex) [Table 4.9, Item (6)]	<u>SINGLE</u>			
Shielding Gas	<u>DCEN</u>			
Position [Table 4.10, Item (5)]	<u>1F</u>			
Weld Progression [Table 4.10, Item (7)]	<u>FLAT</u>			
Backing (YES or NO) [Table 4.10, Item (8)]	<u>NO</u>			
Shielding Metal/Spec. [Table 4.10, Item (1)]	<u>308</u>			
Base Metal	<u>Bas</u>			
Thickness: (Plate) T1	<u>N/A</u>			
Groove	<u>N/A</u>			
Fillet	<u>SCOTED-UNLIMIT</u>			
Thickness: (Pipe/tube)	<u>N/A</u>			
Groove	<u>N/A</u>			
Fillet	<u>N/A</u>			
Diameter: (Pipe) D1	<u>N/A</u>			
Groove	<u>N/A</u>			
Fillet	<u>N/A</u>			
Shielding Metal [Table 4.10, Item (3)]	<u>AS 30</u>			
Spec. No.	<u>LETIT-1N</u>			
Class	<u>E60 AND LOWER</u>			
No.	<u>CO2</u>			
Flux Type [Table 4.10, Item (4)]	<u>CO2</u>			
Other				

Variables	Value	Record	Actual	Qualification Range
Process/Type [Table 4.10, Item (2)]	<u>ECAW</u>			
Electrode (single or multiplex) [Table 4.9, Item (6)]	<u>SINGLE</u>			
Shielding Gas	<u>DCEN</u>			
Position [Table 4.10, Item (5)]	<u>1F</u>			
Weld Progression [Table 4.10, Item (7)]	<u>FLAT</u>			
Backing (YES or NO) [Table 4.10, Item (8)]	<u>NO</u>			
Shielding Metal/Spec. [Table 4.10, Item (1)]	<u>308</u>			
Base Metal	<u>Bas</u>			
Thickness: (Plate) T1	<u>N/A</u>			
Groove	<u>N/A</u>			
Fillet	<u>SCOTED-UNLIMIT</u>			
Thickness: (Pipe/tube)	<u>N/A</u>			
Groove	<u>N/A</u>			
Fillet	<u>N/A</u>			
Diameter: (Pipe) D1	<u>N/A</u>			
Groove	<u>N/A</u>			
Fillet	<u>N/A</u>			
Shielding Metal [Table 4.10, Item (3)]	<u>AS 30</u>			
Spec. No.	<u>LETIT-1N</u>			
Class	<u>E60 AND LOWER</u>			
No.	<u>CO2</u>			
Flux Type [Table 4.10, Item (4)]	<u>CO2</u>			
Other				

VISUAL INSPECTION (4.8.1)			
Acceptable YES or NO <u>YES</u>			
Guided Bend Test Results (4.30.5)			
Type	Result	Type	Result
<u>N/A</u>	<u>A</u>	<u>N/A</u>	<u>N/A</u>
Appearance <u>ACCEPTABLE</u>			
Describe the location of any cracks or defects of the specimen <u>None</u>			
Inspected by <u>M. BREW</u>			
Organization <u>MOBIL</u>			

VISUAL INSPECTION (4.8.1)			
Acceptable YES or NO <u>YES</u>			
Guided Bend Test Results (4.30.5)			
Type	Result	Type	Result
<u>N/A</u>	<u>A</u>	<u>N/A</u>	<u>N/A</u>
Appearance <u>ACCEPTABLE</u>			
Describe the location of any cracks or defects of the specimen <u>None</u>			
Inspected by <u>M. BREW</u>			
Organization <u>MOBIL</u>			

RADIOGRAPHIC TEST RESULTS (4.30.1)			
Film Identification Number	Remarks	Film Identification Number	Remarks
<u>N/A</u>	<u>A</u>	<u>N/A</u>	<u>N/A</u>

RADIOGRAPHIC TEST RESULTS (4.30.1)			
Film Identification Number	Remarks	Film Identification Number	Remarks
<u>N/A</u>	<u>A</u>	<u>N/A</u>	<u>N/A</u>

Interpreted by: MOBIL Test Number: 190810119  
 Date: 08-3-3

Interpreted by: MOBIL Test Number: 190810119  
 Date: 08-3-3

I, the undersigned, certify that the test results were prepared, welded, and inspected in accordance with the requirements of AWS A3.3 Structural Welding Code—Steel.

Manufacturer or Contractor: MOBIL Form: 08-3-3

WELDER, WELDING CABLE IDENTIFICATION RECORD

WELDER, WELDING CABLE IDENTIFICATION RECORD

Name of Welder: WELDER, WELDER Identification No. 2699  
 Job Title: WELDER Date: 11-3-09  
 Welding Procedure Specification No. WPS-3-09  
 Value Record Actual: ECWV  
 Categorized in Qualification Range: ECWV  
 Variables:  
 Electrode Type (Table 10, Item (2)) ECWV  
 Electrode (single or dual) (Table 4.8, Item (4)) ECWV  
 Electrode Polarity: DC  
 Shielding Gas (Table 4.10, Item (5)) IF  
 Weld Progression (Table 4.10, Item (7)) 15  
 Preheat (YES or NO) (Table 4.10, Item (8)) NO  
 Interpass Temp. (Table 10, Item (11)) 250  
 Backing: Gas  
 Thickness: (Plate) T N/A  
 Groove: N/A  
 Fillet: N/A  
 Thickness: (Pipe/Tube) N/A  
 Groove: N/A  
 Fillet: N/A  
 Diameter (Pipe) D N/A  
 Groove: N/A  
 Fillet: N/A  
 Material (Table 4.10, Item (3)) A530  
 Spec. No. S 1500  
 Class C 1500  
 Thickness 1500  
 Flux Type (Table 10, Item (4)) ECW  
 or ECW  
 or ECW

Name of Welder: WELDER, WELDER Identification No. 2699  
 Job Title: WELDER Date: 11-3-09  
 Welding Procedure Specification No. WPS-3-09  
 Value Record Actual: ECWV  
 Categorized in Qualification Range: ECWV  
 Variables:  
 Electrode Type (Table 10, Item (2)) ECWV  
 Electrode (single or dual) (Table 4.8, Item (4)) ECWV  
 Electrode Polarity: DC  
 Shielding Gas (Table 4.10, Item (5)) IF  
 Weld Progression (Table 4.10, Item (7)) 15  
 Preheat (YES or NO) (Table 4.10, Item (8)) NO  
 Interpass Temp. (Table 10, Item (11)) 250  
 Backing: Gas  
 Thickness: (Plate) T N/A  
 Groove: N/A  
 Fillet: N/A  
 Thickness: (Pipe/Tube) N/A  
 Groove: N/A  
 Fillet: N/A  
 Diameter (Pipe) D N/A  
 Groove: N/A  
 Fillet: N/A  
 Material (Table 4.10, Item (3)) A530  
 Spec. No. S 1500  
 Class C 1500  
 Thickness 1500  
 Flux Type (Table 10, Item (4)) ECW  
 or ECW  
 or ECW

VISUAL INSPECTION (4.8.1)			
Acceptable YES or NO <u>YES</u>			
Guided Bend Test Results (4.30.5)			
Type	Result	Type	Result
<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Test Test Results (4.30.2.3 and 4.30.4) <u>ECWV</u> Describe the location, orientation, and size of the specimen <u>ECWV</u> Inspected by <u>WELDER, WELDER</u> Certification <u>WELDER, WELDER</u>			

VISUAL INSPECTION (4.8.1)			
Acceptable YES or NO <u>YES</u>			
Guided Bend Test Results (4.30.5)			
Type	Result	Type	Result
<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Test Test Results (4.30.2.3 and 4.30.4) <u>ECWV</u> Describe the location, orientation, and size of the specimen <u>ECWV</u> Inspected by <u>WELDER, WELDER</u> Certification <u>WELDER, WELDER</u>			

RADIOGRAPHIC TEST RESULTS (4.30)			
Film Identification Number	Remarks	Film Identification Number	Remarks
<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Inspected by <u>WELDER, WELDER</u>	Test Number <u>WELDER, WELDER</u>	Inspected by <u>WELDER, WELDER</u>	Test Number <u>WELDER, WELDER</u>
Certification <u>WELDER, WELDER</u>	Date <u>WELDER, WELDER</u>	Certification <u>WELDER, WELDER</u>	Date <u>WELDER, WELDER</u>

RADIOGRAPHIC TEST RESULTS (4.30)			
Film Identification Number	Remarks	Film Identification Number	Remarks
<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Inspected by <u>WELDER, WELDER</u>	Test Number <u>WELDER, WELDER</u>	Inspected by <u>WELDER, WELDER</u>	Test Number <u>WELDER, WELDER</u>
Certification <u>WELDER, WELDER</u>	Date <u>WELDER, WELDER</u>	Certification <u>WELDER, WELDER</u>	Date <u>WELDER, WELDER</u>



# WELDER, WELDING OPERATOR IDENTIFICATION RECORD

# WELDER, WELDING OPERATOR IDENTIFICATION RECORD

No. of Welder: 6583 - 251  
 No. of Welder: 6583 - 251  
 Identification No. 1403  
 Identification No. 1403  
 Welding Procedure Specification No. AW 5015-2-01  
 Welding Procedure Specification No. AW 5015-2-01  
 Name of Employer AMERICAN AIR  
 Name of Employer AMERICAN AIR  
 Job Title WELDER  
 Job Title WELDER  
 Date of Birth 11-15-47  
 Date of Birth 11-15-47  
 Social Security No. 254-95-4456  
 Social Security No. 254-95-4456  
 Grade WELDER  
 Grade WELDER  
 Department ENGINEERING  
 Department ENGINEERING  
 Division PLANT  
 Division PLANT  
 Plant PLANT  
 Plant PLANT  
 City PLANT  
 City PLANT

No. of Welder: 6583 - 251  
 No. of Welder: 6583 - 251  
 Identification No. 1403  
 Identification No. 1403  
 Welding Procedure Specification No. AW 5015-2-01  
 Welding Procedure Specification No. AW 5015-2-01  
 Name of Employer AMERICAN AIR  
 Name of Employer AMERICAN AIR  
 Job Title WELDER  
 Job Title WELDER  
 Date of Birth 11-15-47  
 Date of Birth 11-15-47  
 Social Security No. 254-95-4456  
 Social Security No. 254-95-4456  
 Grade WELDER  
 Grade WELDER  
 Department ENGINEERING  
 Department ENGINEERING  
 Division PLANT  
 Division PLANT  
 Plant PLANT  
 Plant PLANT  
 City PLANT  
 City PLANT

VISUAL INSPECTION (4.8.1)

Acceptable YES or NO YES

Guided Bend Test Results (4.30.5)

Type	Result	Type	Result
<u>W</u>	<u>A</u>	<u>W</u>	<u>A</u>
<u>W</u>	<u>A</u>	<u>W</u>	<u>A</u>
<u>W</u>	<u>A</u>	<u>W</u>	<u>A</u>
<u>W</u>	<u>A</u>	<u>W</u>	<u>A</u>
<u>W</u>	<u>A</u>	<u>W</u>	<u>A</u>

Test Results of 100.2.3 and 4.30.4  
 Test Results of 100.2.3 and 4.30.4  
 Describe the location and extent of the specimen  
 Describe the location and extent of the specimen  
 Inspected by M. J. [Signature]  
 Inspected by M. J. [Signature]  
 Date 11-15-47  
 Date 11-15-47

VISUAL INSPECTION (4.8.1)

Acceptable YES or NO YES

Guided Bend Test Results (4.30.5)

Type	Result	Type	Result
<u>W</u>	<u>A</u>	<u>W</u>	<u>A</u>
<u>W</u>	<u>A</u>	<u>W</u>	<u>A</u>
<u>W</u>	<u>A</u>	<u>W</u>	<u>A</u>
<u>W</u>	<u>A</u>	<u>W</u>	<u>A</u>
<u>W</u>	<u>A</u>	<u>W</u>	<u>A</u>

Test Results of 100.2.3 and 4.30.4  
 Test Results of 100.2.3 and 4.30.4  
 Describe the location and extent of the specimen  
 Describe the location and extent of the specimen  
 Inspected by M. J. [Signature]  
 Inspected by M. J. [Signature]  
 Date 11-15-47  
 Date 11-15-47

NOGRAPHIC TEST RESULTS (4.30.1)

Run Identification Number	Remarks	Film Identification Number	Remarks
<u>W</u>	<u>A</u>	<u>W</u>	<u>A</u>
<u>W</u>	<u>A</u>	<u>W</u>	<u>A</u>
<u>W</u>	<u>A</u>	<u>W</u>	<u>A</u>
<u>W</u>	<u>A</u>	<u>W</u>	<u>A</u>
<u>W</u>	<u>A</u>	<u>W</u>	<u>A</u>

Inspected by [Signature]  
 Inspected by [Signature]  
 Date [Date]  
 Date [Date]

NOGRAPHIC TEST RESULTS (4.30.1)

Run Identification Number	Remarks	Film Identification Number	Remarks
<u>W</u>	<u>A</u>	<u>W</u>	<u>A</u>
<u>W</u>	<u>A</u>	<u>W</u>	<u>A</u>
<u>W</u>	<u>A</u>	<u>W</u>	<u>A</u>
<u>W</u>	<u>A</u>	<u>W</u>	<u>A</u>
<u>W</u>	<u>A</u>	<u>W</u>	<u>A</u>

Inspected by [Signature]  
 Inspected by [Signature]  
 Date [Date]  
 Date [Date]

WELDER WELDING TACKLE WELDER TEST RECORD

WELDER WELDING TACKLE WELDER TEST RECORD

Welder Name: ADEAU JODY N.  
 Name: ht Iron, InAC Lig NO. Ids 26-5910  
 Procedure Specification No. 1 Re-Date: N/A 2/03/05

Welder Name: ADEAU JODY N.  
 Name: ht Iron, InAC Lig NO. Ids 26-5910  
 Procedure Specification No. 1 Re-Date: N/A 2/03/05

Variables	Record	Actual Values Used in Qualifications	Qualification Range
Type [Table 4.10, Item (1)]	MAW		
Position (single or multiple)	6G	6G	A
Polarity	Current	210 Amps DC+	
[Table 4.10, Item (2)]	1G	5	10
Progression [Table 4.10, Item (5)]	1A		N
YES or NO [Table 4.10, Item (7)]	YES (7)	ES	Y
Spec. Material	Group 1	to Group 1	
Base Metal			
Thickness (Plate)	Thickness		
Joint	Joint		
Weld	Weld		
Process (Pipe/Tubing)	Process		
Weld	Weld		
Joint (Pipe)	Joint		
Weld	Weld		
Shielding Gas	Shielding Gas		
Other	Other		

Variables	Record	Actual Values Used in Qualifications	Qualification Range
Type [Table 4.10, Item (1)]	MAW		
Position (single or multiple)	6G	6G	A
Polarity	Current	210 Amps DC+	
[Table 4.10, Item (2)]	1G	5	10
Progression [Table 4.10, Item (5)]	1A		N
YES or NO [Table 4.10, Item (7)]	YES (7)	ES	Y
Spec. Material	Group 1	to Group 1	
Base Metal			
Thickness (Plate)	Thickness		
Joint	Joint		
Weld	Weld		
Process (Pipe/Tubing)	Process		
Weld	Weld		
Joint (Pipe)	Joint		
Weld	Weld		
Shielding Gas	Shielding Gas		
Other	Other		

USUAL INSPECTION (4.8.1)  
 Acceptable: YES or NO  Y  
 Bended Bend Test Results (4.30.5)

Type	Result	Type	Result
1G FAC	ACCEPTABLE	1G ROOT BEND	ACCEPTABLE
Pillet Test Spec 4.30.2.1	N/A	Fillet Size	N/A
Macroetch	N/A	Macroetch	N/A

Inspect the location of any cracks or defects of the specimen by the location of any cracks or defects of the specimen.  
 Inspected by: [Signature] Date: 2-3-05  
 Organization: InAC 1

USUAL INSPECTION (4.8.1)  
 Acceptable: YES or NO  Y  
 Bended Bend Test Results (4.30.5)

Type	Result	Type	Result
1G FAC	ACCEPTABLE	1G ROOT BEND	ACCEPTABLE
Pillet Test Spec 4.30.2.1	N/A	Fillet Size	N/A
Macroetch	N/A	Macroetch	N/A

Inspect the location of any cracks or defects of the specimen by the location of any cracks or defects of the specimen.  
 Inspected by: [Signature] Date: 2-3-05  
 Organization: InAC 1

RADIOGRAPHIC TEST RESULTS

Film Identification	Number	Results	Remarks
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

RADIOGRAPHIC TEST RESULTS

Film Identification	Number	Results	Remarks
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Inspected by: [Signature] Date: 2-3-05  
 Organization: InAC 1

Inspected by: [Signature] Date: 2-3-05  
 Organization: InAC 1

I, the undersigned, certify that the test results were prepared and tested in accordance with the requirements of section 2.2.2.2 of the Steel Code.

I, the undersigned, certify that the test results were prepared and tested in accordance with the requirements of section 2.2.2.2 of the Steel Code.

Manufacturer or Supplier: [Signature] Date: 2-3-05

Manufacturer or Supplier: [Signature] Date: 2-3-05