ASSOCIATED DESIGN PARTNERS INC.
80 Leighton Road • Falmouth, Maine 04105
Office 207.878.1751
Fax 207.878.1703
e-mail adp@adpengineering.com

April 18, 2017 16201

Code Enforcement Officer
389 Congress St
Portland, ME 04101

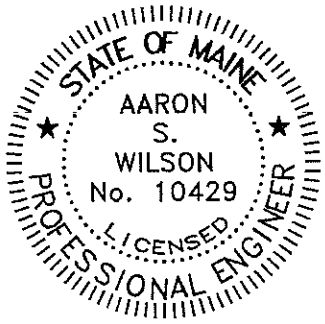
Re: 1067 Riverside St, Portland, ME
Statement of Special Inspections – Final Report

Dear CEO,

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.

Sincerely,

Aaron S. Wilson, P.E.
Structural Engineer
Associated Design Partners, Inc.



## CONSTRUCTION OBSERVATION REPORT

**Project:** 1067 Riverside – Lot 2, Portland, Maine
**Client:** Biskup Construction
**Client's Rep.:** Jim Biskup

**S.W.Cole Project No.:** 11-0446.1
**Date:** 10-06 & 10-07-2016
**Weather:** Clear, 60s

**Work in Progress:** Preparation of footing and slab subgrades

**Observations, Discussions, Recommendations:**

10-06-2016: As requested by our Client, arrived on site to observe footing and slab subgrades. Upon arrival, observed the excavating contractor (Chase Excavating) had excavated the southeast and southwest perimeter footings and was preparing slab areas to receive fill. Excavation was being completed with a tracked excavator equipped with a smooth-edged bucket. The footing subgrades consisted of light brown fine sand to fine sandy silt consistent with the project geotechnical report. We understand a 6-inch layer of geotextile wrapped crushed stone will be installed over the exposed perimeter footing subgrades.

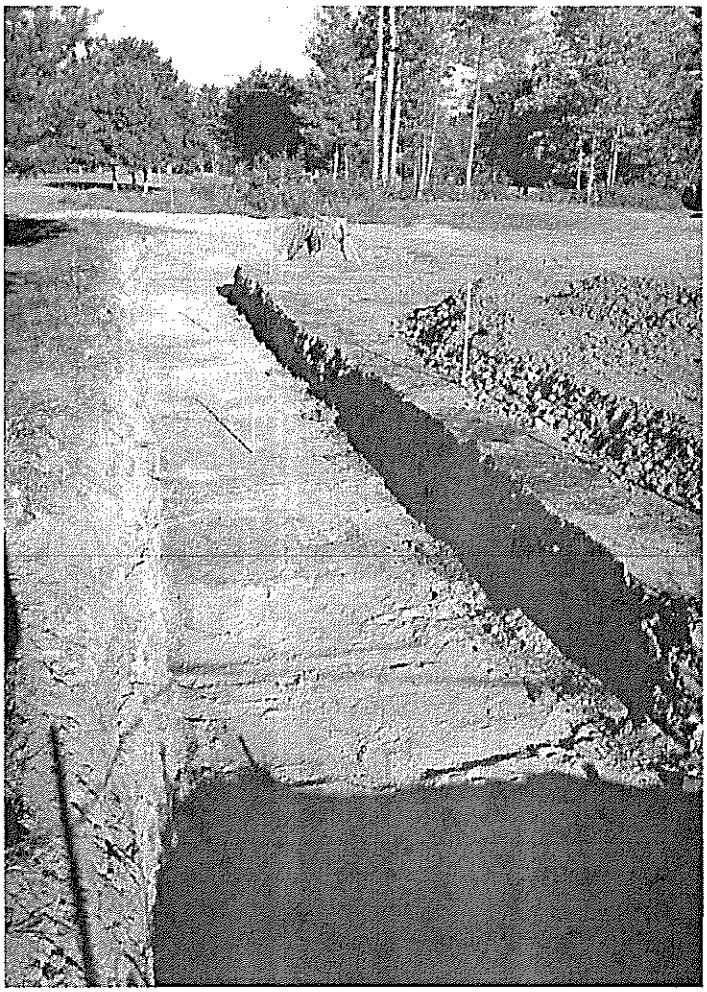
Chase was also removing uncontrolled fill and relic organics from beneath the floor slab area and placing 12 to 18 inches of 4-inch minus crushed gravel.

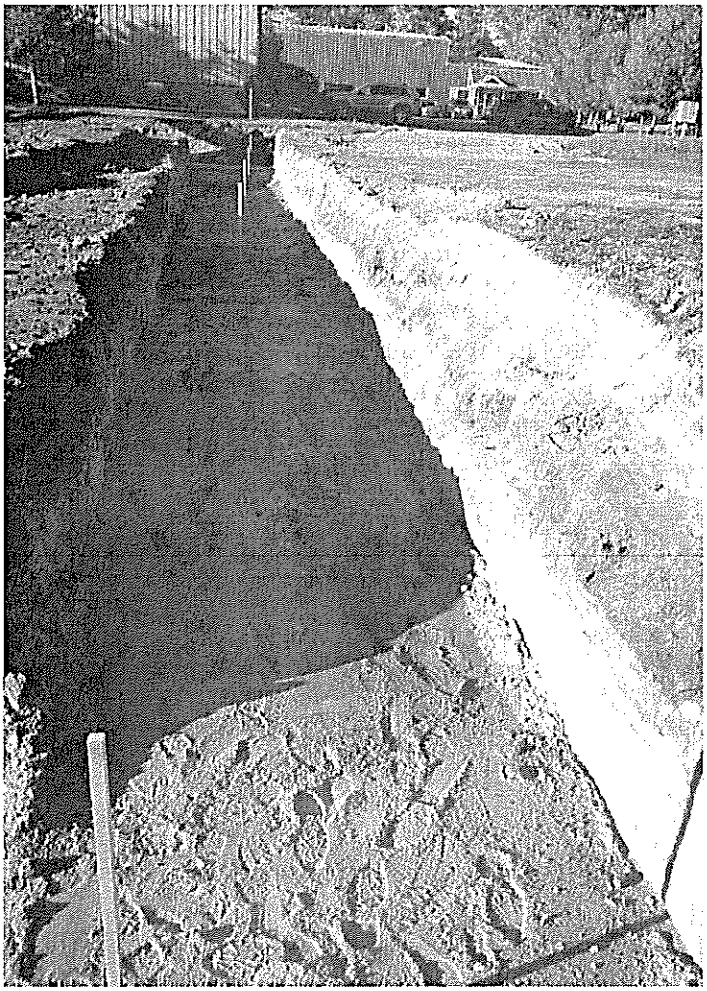
10-07-2016: Upon arrival, observed Chase Excavating had excavated the northwest and northeast perimeter footings. Excavation methods and subgrade conditions were consistent with those observed on 10-06-2016. Chase was installing geotextile filter fabric and crushed stone in the footing excavations observed on 10-06-2016 and continued to place crushed gravel over slab areas where uncontrolled fill and relic organics had been removed.

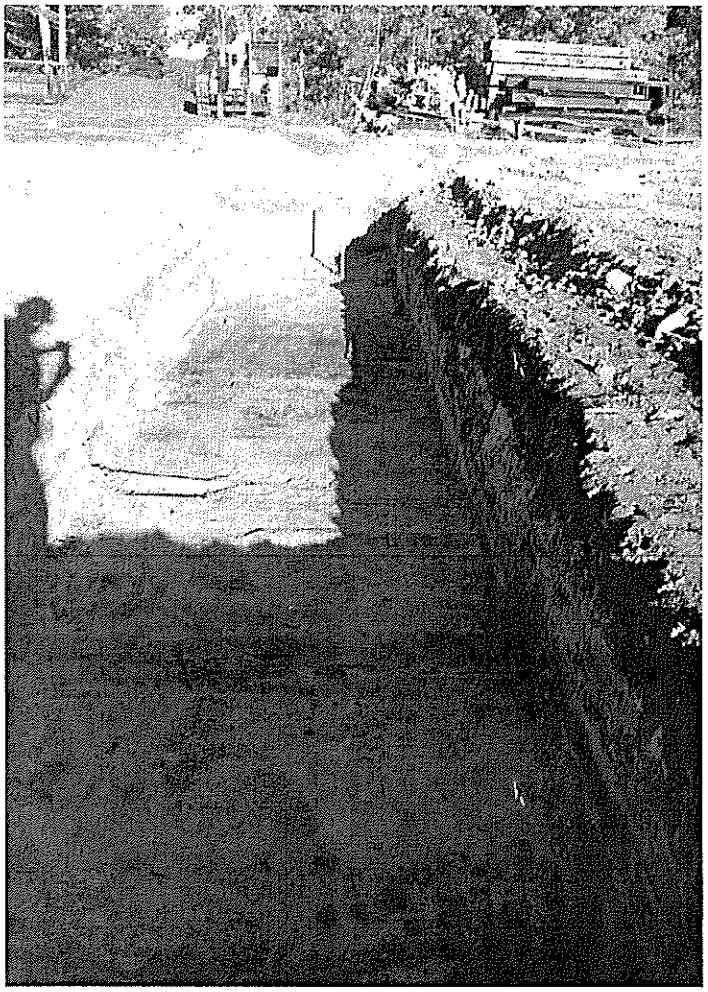
In our opinion, the footing and slab subgrade conditions appeared consistent with those anticipated in the project geotechnical report and suitable support of loads as outlined therein.

**On Site:** 0730 – 0800, 0730 – 0800
**Attachments:** Photos
**Sheet:** 1 of 1

**S.W.Cole Rep.:** TJB
**Reviewed by:** EMW







S.W.COLE ENGINEERING, INC.

# Concrete Construction Observation Report

| | | | |
|---|---|---|---|
| **Project Name/Location:** | 1067 Riverside – Lot 2, Portland, Maine | **Project No:** | 11-0446.1 |
| **Client/Client's Rep.:** | Biskup Construction / Jim Biskup | **Date:** | 10-11-16 |
| **Concrete Contractor:** | CCI – Concrete Construction Incorporated | **Sheet:** | 1 of 1 |
| **Placement Location:** | Footing: G-line from3 to 6-line, A-line from 1to 6-line, A to C-line on 1-line, 6-line from A to G-line | **S.W.COLE Rep.:** | C. Cromwell |
| **Weather:** | Clear 60's F | **On Site:** | 9:30a - 11:00 |

| ***Pre Placement Observations*** | **In Compliance** | | **N/O** | **Comments** |
|---|---|---|---|---|
| Bar size and location (diameter, length, bend and coverage) | Yes ☒ | No ☐ | ☐ | Per Plan |
| Splicing (type, overlap) | Yes ☒ | No ☐ | ☐ | To specification |
| Stability (wiring, chairs, and spacers) | Yes ☒ | No ☐ | ☐ | Brick |
| Reinforcement conditions (cleanliness, temperature etc.) | Yes ☒ | No ☐ | ☐ | Clean / Clear |
| Embedments and anchor bolts installed | Yes ☒ | No ☐ | ☐ | To specification |
| Soil subgrade prepared in accordance with project specifications | Yes ☒ | No ☐ | ☐ | ¾" crushed rock |

| **Referenced Drawings** | **Date** | **Page(s)** | **Rev.** | **ASTM** | **GRADE** |
|---|---|---|---|---|---|
| Foundation Plan | 6/16/16 | S-1 | | **A 615** ☒ | **40** ☐ **50** ☐ **60** ☒ |
| Foundation Plan | 6/16/16 | S-2 | | **A 616** ☐ **A 617** ☐ | **75** ☐ |
| | | | | **A 706** ☐ | **A 775 Epoxy** ☐ |
| | | | | | |
| | | | | | |
| | | | | | |

| ***Concrete Placement Observations*** | **In Compliance** | | **N/O** | **Comments** |
|---|---|---|---|---|
| Required mix used | Yes ☒ | No ☐ | ☐ | 3000 psi / ¾" stone |
| Concrete properly conveyed to all areas of placement | Yes ☒ | No ☐ | ☐ | Pump |
| Internal vibration / consolidation of concrete | Yes ☒ | No ☐ | ☐ | Mechanical |
| Even layering around openings and embedments | Yes ☐ | No ☐ | ☒ | |
| Post placement observations (finishing, curing, etc.) | Yes ☐ | No ☐ | ☒ | |

***Field Testing of Concrete Performed*** Yes ☐ No ☐ Loads: 3 Yards: 27

***Cylinder Set Number:** 858 -1 ←*refer to associated concrete test report*

***Non-Conformance Items Observed (person notified)*** Yes ☐ No ☒

**Notes:**

S.W. Cole arrived onsite for reinforcement observations and to field test concrete. Reinforcement appeared consistent with the provided drawings. Concrete was a 3000 psi mix with ¾" stone containing air entrainment and mid-range water reducing admixture. Concrete test results indicated the mix to be within project specification. Results of initial testing were reported verbally to Tom Foley from CCI.

N/O=Not Observed

Attachments: Photos

Reviewed By:

S.W.COLE ENGINEERING, INC.

# Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** Portland ME - 1067 Riverside Lot 2 - Construction Materials Testing Services

**Project Number:** 11-0446.1

**Client:** Biskup Construction, Inc.

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** HISSONG CONCRETE

## PLACEMENT INFORMATION

**Date Cast:** 10/11/2016 **Time Cast:** 10:11 **Date Received:** 10/12/2016

**Placement Location:** FOOTING: G LINE FROM 3 TO 6, A LINE FROM 1 TO 6, 6 LINE FROM A TO G, 1 LINE FROM A TO C LINE

**Placement Method:** TAILGATE

**Cylinders Made By:** CHARLES CROMWELL

**Placement Vol. ($yd^3$):** 27

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

## INITIAL CURING CONDITIONS

**Temperatures**

**Minimum (°F)** 60 **Maximum (°F)** 80

## DELIVERY INFORMATION

**Admixtures:** MIDRANGE
MICRO AIR

## TEST RESULTS

**Slump (in) (C-143):** **Slump WR:** 5.5

**Air Content (%) (C-231)** **Air WR:** 6.2

**Air Temp (°F):** 50

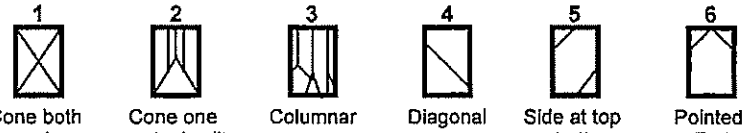
**Conc. Temp (°F) (C-1064):** 60

**Load Number:** 1
**Mixer Number:** 303
**Ticket Number** 3811
**Cubic Yards:** 9
**Design (psi):** 3000

**Batch** 9:25
**Arrive** 9:40
**Depart** 10:11

| Cylinder Designation | Cylinder Weight (lbs) | Cylinder Diameter (in) | Cross Sectional Area(In)² | Date Of Test | Cure Type | Age (days) | Fracture Type | Load (kips) | Strength (psi) |
|---|---|---|---|---|---|---|---|---|---|
| 858-1A | | 4.00 | 12.57 | 10/18/2016 | Lab | **7** | 4 | 30.4 | **2420** |
| 858-1B | | 4.01 | 12.64 | 10/25/2016 | Lab | **14** | 6 | 41.6 | **3290** |
| 858-1C | | | | Hold | Lab | | | | |
| 858-1D | | | | Hold | Lab | | | | |

Fracture Types




Remarks:

S.W.COLE ENGINEERING, INC.

# Concrete Construction Observation Report

| | | | |
|---|---|---|---|
| **Project Name/Location:** | 1067 Riverside – Lot 2, Portland, Maine | **Project No:** | 11-0446.1 |
| **Client/Client's Rep.:** | Biskup Construction / Jim Biskup | **Date:** | 10-14-16 |
| **Concrete Contractor:** | CCI – Concrete Construction Incorporated | **Sheet:** | 1 of 1 |
| **Placement Location:** | G/2(+5') to 6 Line to A line to 1/D | **S.W.COLE Rep.:** | N. McArthur |
| **Weather:** | Clear 50's F | **On Site:** | 9:45a - 1:00p |

| *Pre Placement Observations* | In Compliance | | N/O | Comments |
|---|---|---|---|---|
| Bar size and location (diameter, length, bend and coverage) | Yes ☒ | No ☐ | ☐ | #4@16" Vert / @12"Hor |
| Splicing (type, overlap) | Yes ☒ | No ☐ | ☐ | To specification |
| Stability (wiring, chairs, and spacers) | Yes ☒ | No ☐ | ☐ | Supported by verts |
| Reinforcement conditions (cleanliness, temperature etc.) | Yes ☒ | No ☐ | ☐ | Clean / Clear |
| Embedments and anchor bolts installed | Yes ☒ | No ☐ | ☐ | To specification |
| Soil subgrade prepared in accordance with project specifications | Yes ☒ | No ☐ | ☐ | ¾" crushed rock |

| Referenced Drawings | Date | Page(s) | Rev. | ASTM | GRADE |
|---|---|---|---|---|---|
| Foundation Plan | 6/16/16 | S-1 | | A 615 ☐ | 40 ☐ 50 ☐ 60 ☒ |
| Foundation Plan | 6/16/16 | S-2 | | A 616 ☐ | |
| | | | | A 617 ☐ | 75 ☐ |
| | | | | A 706 ☐ | A 775 Epoxy ☐ |
| | | | | | |
| | | | | | |
| | | | | | |

| *Concrete Placement Observations* | In Compliance | | N/O | Comments |
|---|---|---|---|---|
| Required mix used | Yes ☒ | No ☐ | ☐ | 3000 psi / ¾" stone |
| Concrete properly conveyed to all areas of placement | Yes ☒ | No ☐ | ☐ | Pump |
| Internal vibration / consolidation of concrete | Yes ☒ | No ☐ | ☐ | Mechanical |
| Even layering around openings and embedments | Yes ☐ | No ☐ | ☒ | |
| Post placement observations (finishing, curing, etc.) | Yes ☐ | No ☐ | ☒ | |

| | | | | | | |
|---|---|---|---|---|---|---|
| *Field Testing of Concrete Performed* | Yes ☐ | No ☐ | Loads: | 4 | Yards: | 38 |
| ***Cylinder Set Number:** 858 -2 | ←**refer to associated concrete test report* | | | | | |
| *Non-Conformance Items Observed (person notified)* | Yes ☐ | No ☒ | | | | |

**Notes:**

S.W. Cole representative Nate McArthur arrived onsite for reinforcement observations and to field test concrete. Reinforcement appeared consistent with the provided drawings as well as form geometry. Concrete was a 3000 psi mix with ¾" stone containing air entrainment and mid-range water reducing admixture. Concrete test results indicated the mix to be within project specification. Results of initial testing were reported verbally to Tom Foley from CCI.

N/O=Not Observed

Attachments: (Photos?)

Reviewed By:

S.W.COLE ENGINEERING, INC.

# Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** Portland ME - 1067 Riverside Lot 2 - Construction Materials Testing Services
**Project Number:** 11-0446.1

**Client:** Biskup Construction, Inc.
**Client Contract Number:**

**General Contractor:**
**Concrete Supplier:** HISSONG CONCRETE

## PLACEMENT INFORMATION

**Date Cast:** 10/14/2016 **Time Cast:** 11:30
**Date Received:**

**Placement Location:** G/2(+5) TO 6-LINE TO A-LINE TO 1/D

**Placement Method:** PUMP TRUCK
**Cylinders Made By:** NATHANIEL MCARTHUR

**Placement Vol. (yd³):** 38
**Aggregate Size (in):** 3/4

## INITIAL CURING CONDITIONS

**Temperatures**

**Minimum (°F)** **Maximum (°F)**

## DELIVERY INFORMATION

**Admixtures:** MRWR, AIR

## TEST RESULTS

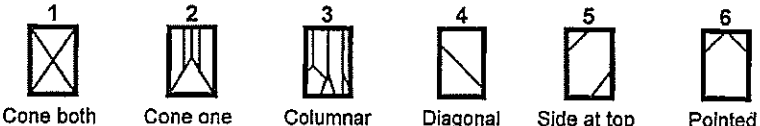
**Slump (in) (C-143):** **Slump WR:** 6
**Air Content (%) (C-231)** **Air WR:** 6.4
**Air Temp (°F):**
**Conc. Temp (°F) (C-1064):** 64

**Load Number:** 2
**Mixer Number:** 317
**Ticket Number** 3878
**Cubic Yards:** 10
**Design (psi):** 3000

**Batch** 10:45
**Arrive** 10:52
**Depart** 11:40

| Cylinder Designation | Cylinder Weight (lbs) | Cylinder Diameter (in) | Cross Sectional Area(In)² | Date Of Test | Cure Type | Age (days) | Fracture Type | Load (kips) | Strength (psi) |
|---|---|---|---|---|---|---|---|---|---|
| 858-2A | | 4.01 | 12.63 | 10/21/2016 | Lab | 7 | 4 | 25.2 | 2000 |
| 858-2B | | 4.01 | 12.62 | 10/28/2016 | Lab | 14 | 4 | 35.2 | 2790 |
| 858-2C | | 4.01 | 12.60 | 11/4/2016 | Lab | 21 | 5 | 41.6 | 3300 |
| 858-2D | | | | Hold | Lab | | | | |

Fracture Types




Remarks:

S.W.COLE ENGINEERING, INC.

# Concrete Construction Observation Report

| | | | |
|---|---|---|---|
| **Project Name/Location:** | 1067 Riverside – Lot 2, Portland, Maine | **Project No:** | 11-0446.1 |
| **Client/Client's Rep.:** | Biskup Construction / Jim Biskup | **Date:** | 10-19-16 |
| **Concrete Contractor:** | CCI – Concrete Construction Incorporated | **Sheet:** | 1 of 1 |
| **Placement Location:** | Rest of footing (North side) | **S.W.COLE Rep.:** | N. McArthur |
| **Weather:** | Clear 70's F | **On Site:** | 2:30p - 4:15p |

| *Pre Placement Observations* | In Compliance | | N/O | Comments |
|---|---|---|---|---|
| Bar size and location (diameter, length, bend and coverage) | Yes ☒ | No ☐ | ☐ | To specification |
| Splicing (type, overlap) | Yes ☒ | No ☐ | ☐ | To specification |
| Stability (wiring, chairs, and spacers) | Yes ☒ | No ☐ | ☐ | Concrete bricks |
| Reinforcement conditions (cleanliness, temperature etc.) | Yes ☒ | No ☐ | ☐ | Clean / Clear |
| Embedments and anchor bolts installed | Yes ☒ | No ☐ | ☐ | To specification |
| Soil subgrade prepared in accordance with project specifications | Yes ☒ | No ☐ | ☐ | ¾" crushed rock |

| Referenced Drawings | Date | Page(s) | Rev. | ASTM | GRADE |
|---|---|---|---|---|---|
| Foundation Plan | 6/16/16 | S-1 | | A 615 ☐ | 40 ☐ 50 ☐ 60 ☒ |
| Foundation Plan | 6/16/16 | S-2 | | A 616 ☐ | |
| | | | | A 617 ☐ | 75 ☐ |
| | | | | A 706 ☐ | A 775 Epoxy ☐ |
| | | | | | |
| | | | | | |
| | | | | | |

| *Concrete Placement Observations* | In Compliance | | N/O | Comments |
|---|---|---|---|---|
| Required mix used | Yes ☒ | No ☐ | ☐ | 3000 psi / ¾" stone |
| Concrete properly conveyed to all areas of placement | Yes ☒ | No ☐ | ☐ | Pump |
| Internal vibration / consolidation of concrete | Yes ☒ | No ☐ | ☐ | Mechanical |
| Even layering around openings and embedments | Yes ☐ | No ☐ | ☒ | |
| Post placement observations (finishing, curing, etc.) | Yes ☐ | No ☐ | ☒ | |

| | | | | | | |
|---|---|---|---|---|---|---|
| *Field Testing of Concrete Performed* | Yes ☐ | No ☐ | Loads: | 2 | Yards: | 16 |
| ***Cylinder Set Number:** 858 -3 | ←**refer to associated concrete test report* | | | | | |
| *Non-Conformance Items Observed (person notified)* | Yes ☐ | No ☒ | | | | |

**Notes:**

S.W. Cole representative Nate McArthur arrived onsite for reinforcement observations and to field test concrete. Reinforcement appeared consistent with the provided drawings as well as form geometry. Concrete was a 3000 psi mix with ¾" stone containing air entrainment and mid-range water reducing admixture. Concrete test results indicated the mix to be within project specification. Results of initial testing were reported verbally to Tom Foley from CCI.

N/O=Not Observed

Attachments: Photos

Reviewed By:

S.W.COLE ENGINEERING, INC.

# Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** Portland ME - 1067 Riverside Lot 2 - Construction Materials Testing Services
**Project Number:** 11-0446.1

**Client:** Biskup Construction, Inc.
**Client Contract Number:**

**General Contractor:**
**Concrete Supplier:** AUBURN CONCRETE

## PLACEMENT INFORMATION

**Date Cast:** 10/19/2016 **Time Cast:** 4:00
**Date Received:**

**Placement Location:** REST OF FOOTING (N SIDE)

**Placement Method:** TAILGATE
**Placement Vol. (yd³):** 16

**Cylinders Made By:** NATHANIEL MCARTHUR
**Aggregate Size (In):** 3/4

## INITIAL CURING CONDITIONS

**Temperatures**

**Minimum (°F)** **Maximum (°F)**

## DELIVERY INFORMATION

**Admixtures:** MRWR
AIR

## TEST RESULTS

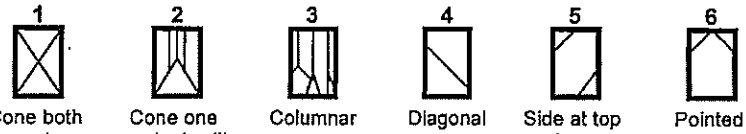
**Slump (in) (C-143):** **Slump WR:** 5.0
**Air Content (%) (C-231)** **Air WR:** 5.0
**Air Temp (°F):** 70
**Conc. Temp (°F) (C-1064):** 72

**Load Number:** 2
**Mixer Number:** 317
**Ticket Number** 3959
**Cubic Yards:** 8
**Design (psi):** 3000

**Batch** 3:24
**Arrive** 3:10
**Depart**

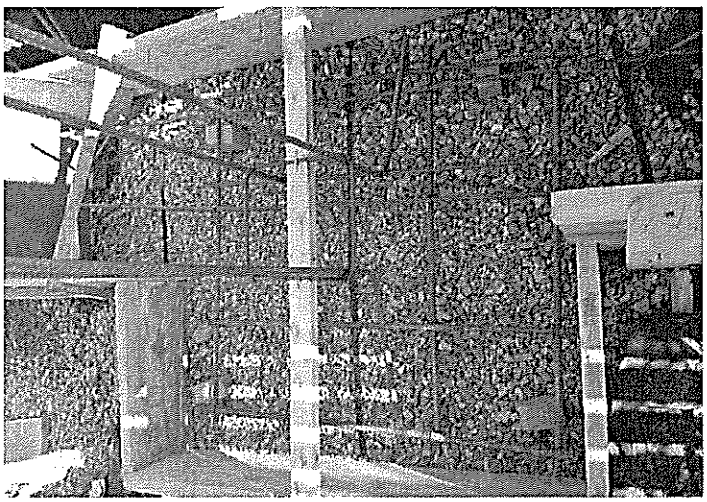
| Cylinder Designation | Cylinder Weight (lbs) | Cylinder Diameter (in) | Cross Sectional Area(In)² | Date Of Test | Cure Type | Age (days) | Fracture Type | Load (kips) | Strength (psi) |
|---|---|---|---|---|---|---|---|---|---|
| 858-3A | 8.25 | 4.01 | 12.63 | 10/26/2016 | Lab | 7 | 5 | 34.4 | 2720 |
| 858-3B | 8.25 | 4.01 | 12.61 | 11/2/2016 | Lab | 14 | 5 | 42.0 | 3330 |
| 858-3C | 8.25 | | | 11/9/2016 | Lab | 21 | | | |
| 858-3D | 8.25 | | | Hold | Lab | | | | |

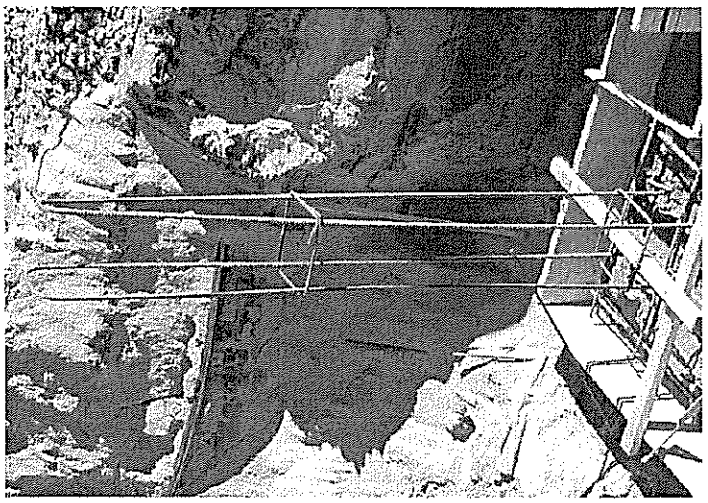
Fracture Types

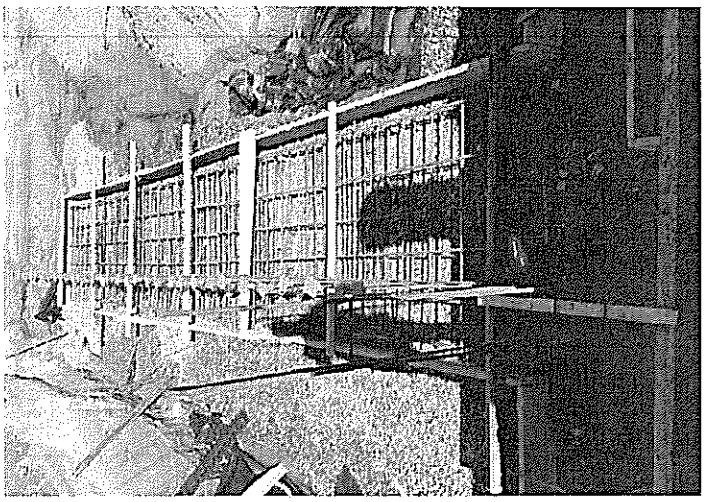



Remarks:

286 Portland Road, Gray, ME 04039-9586 • Tel (207) 657-2866 • Fax (207) 657-2840 • www.swcole.com







S.W.COLE ENGINEERING, INC.

# Concrete Construction Observation Report

| | | | |
|---|---|---|---|
| **Project Name/Location:** | Riverside Street Lot # 2 | **Project No:** | 11-0446.1 |
| **Client/Client's Rep.:** | Jim Biskup / Biskup Construction Inc. | **Date:** | 10-24-16 |
| **Concrete Contractor:** | CCI-Concrete Construction. Inc. | **Sheet:** | 1 of 1 |
| **Placement Location:** | Walls: D/1 t G/1 to G/2(+10') and Retaining Wall: F-line | **S.W.COLE Rep.:** | A. Carr |
| **Weather:** | Clear and 50'sn | **On Site:** | 2:30pm-4:46pm |

| ***Pre Placement Observations*** | **In Compliance** | | **N/O** | **Comments** |
|---|---|---|---|---|
| Bar size and location (diameter, length, bend and coverage) | Yes ☒ | No ☐ | ☐ | #4 12" Horz/ #4 16"Vert. |
| Splicing (type, overlap) | Yes ☒ | No ☐ | ☐ | |
| Stability (wiring, chairs, and spacers) | Yes ☒ | No ☐ | ☐ | |
| Reinforcement conditions (cleanliness, temperature etc.) | Yes ☒ | No ☐ | ☐ | |
| Embedments and anchor bolts installed | Yes ☒ | No ☐ | ☐ | |
| Soil subgrade prepared in accordance with project specifications | Yes ☐ | No ☐ | ☐ | N/A |

| **Referenced Drawings** | **Date** | **Page(s)** | **Rev.** | **ASTM** | **GRADE** |
|---|---|---|---|---|---|
| Biskup Construction Inc. Foundation Plans | 6/16/16 | S-1 | | A 615 ☒ | 40 ☐ 50 ☐ 60 ☒ |
| Biskup Construction Inc. Foundation Details | 6/16/16 | S-2 | | A 616 ☐ | 75 ☐ |
| Biskup Construction Inc. Foundation Details | 6/16/16 | S-3 | | A 617 ☐ | |
| | | | | A 706 ☐ | A 775 Epoxy ☐ |
| | | | | | |
| | | | | | |
| | | | | | |

| ***Concrete Placement Observations*** | **In Compliance** | | **N/O** | **Comments** |
|---|---|---|---|---|
| Required mix used | Yes ☒ | No ☐ | ☐ | Design 3000psi w/ air |
| Concrete properly conveyed to all areas of placement | Yes ☒ | No ☐ | ☐ | Pump |
| Internal vibration / consolidation of concrete | Yes ☒ | No ☐ | ☐ | Mechanical vibration |
| Even layering around openings and embedments | Yes ☒ | No ☐ | ☐ | |
| Post placement observations (finishing, curing, etc.) | Yes ☐ | No ☐ | ☒ | |

***Field Testing of Concrete Performed*** Yes ☒ No ☐ Loads: 3 Yards: 23.5

***Cylinder Set Number:** 858 - 4 ←**refer to associated concrete test report*

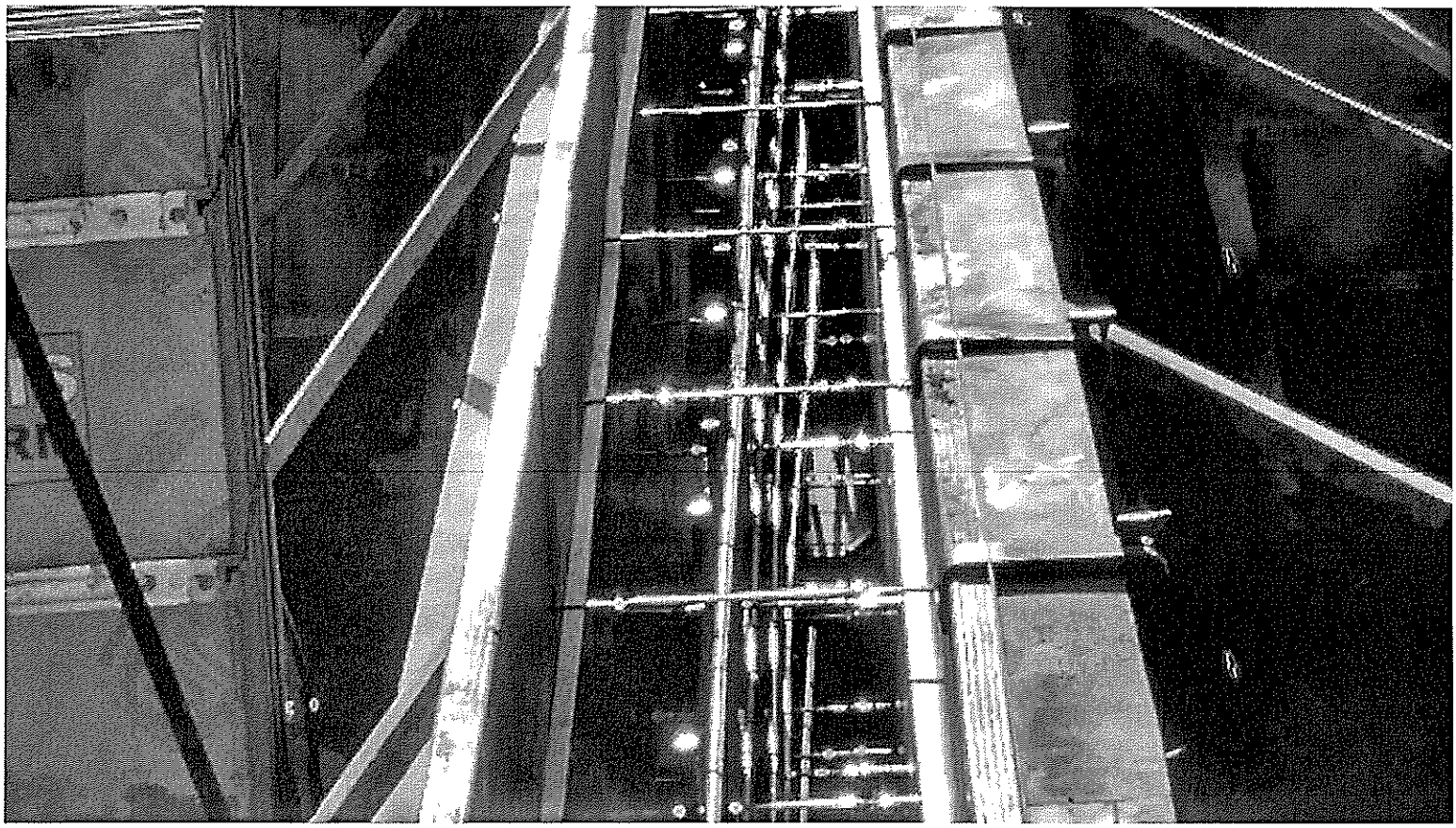
***Non-Conformance Items Observed (person notified)*** Yes ☐ No ☒

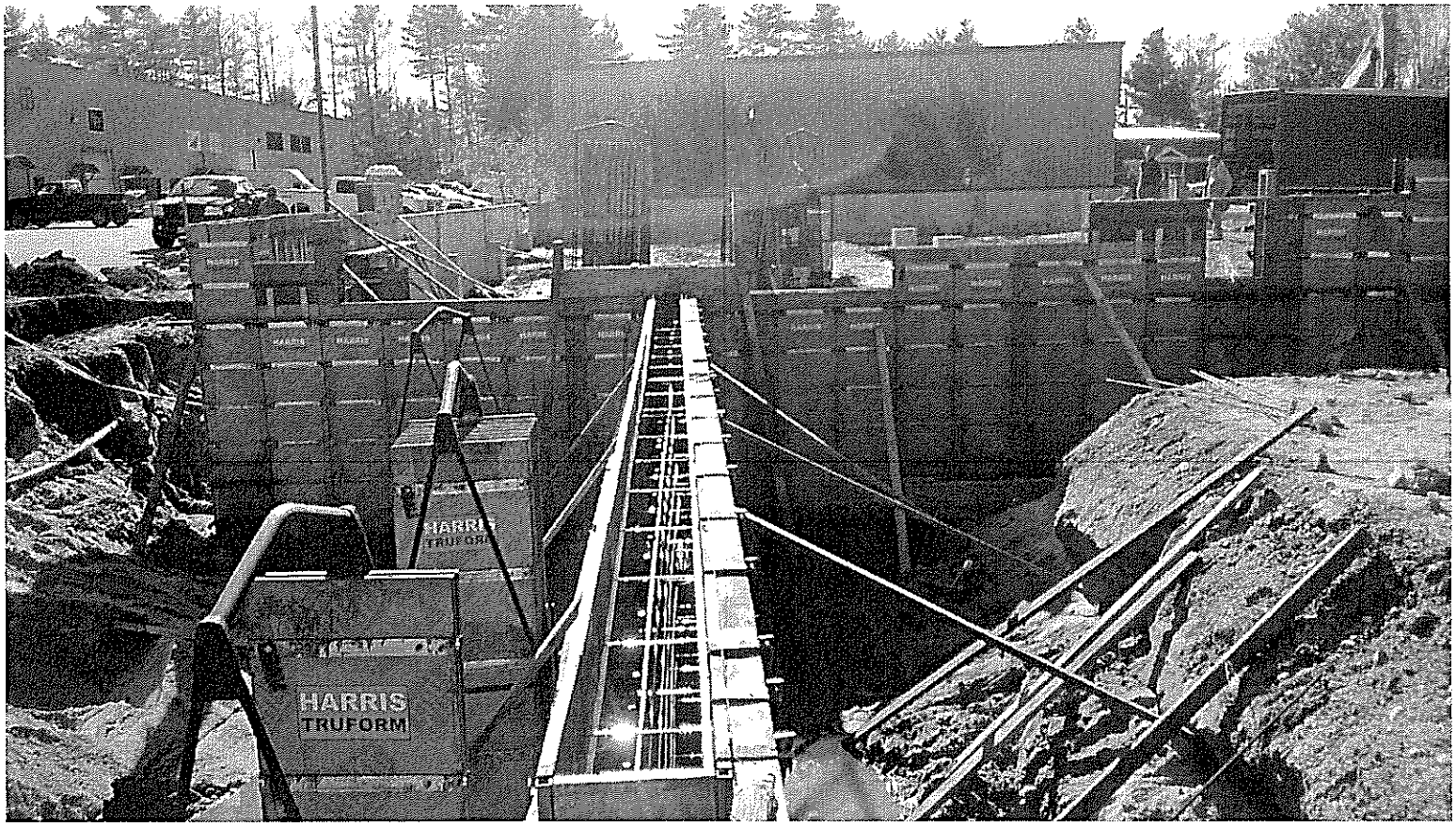
**Notes:** S.W. Cole was on site as requested by Biskup Construction to make observations of reinforcing and to perform concrete field testing. Reinforcing observed appeared to have been installed in accordance with Biskup Construction Foundation Plans & Details dated 6/16/16. Hissong Ready Mix Inc. supplied the concrete. Four cylinders were taken from mid-load of truck #1 and field testing performed indicated a slump of 7 ¾", entrained air of 6.1% and concrete temperature of 68 deg. F. Observations and test results were reported to Jim Biskup onsite.

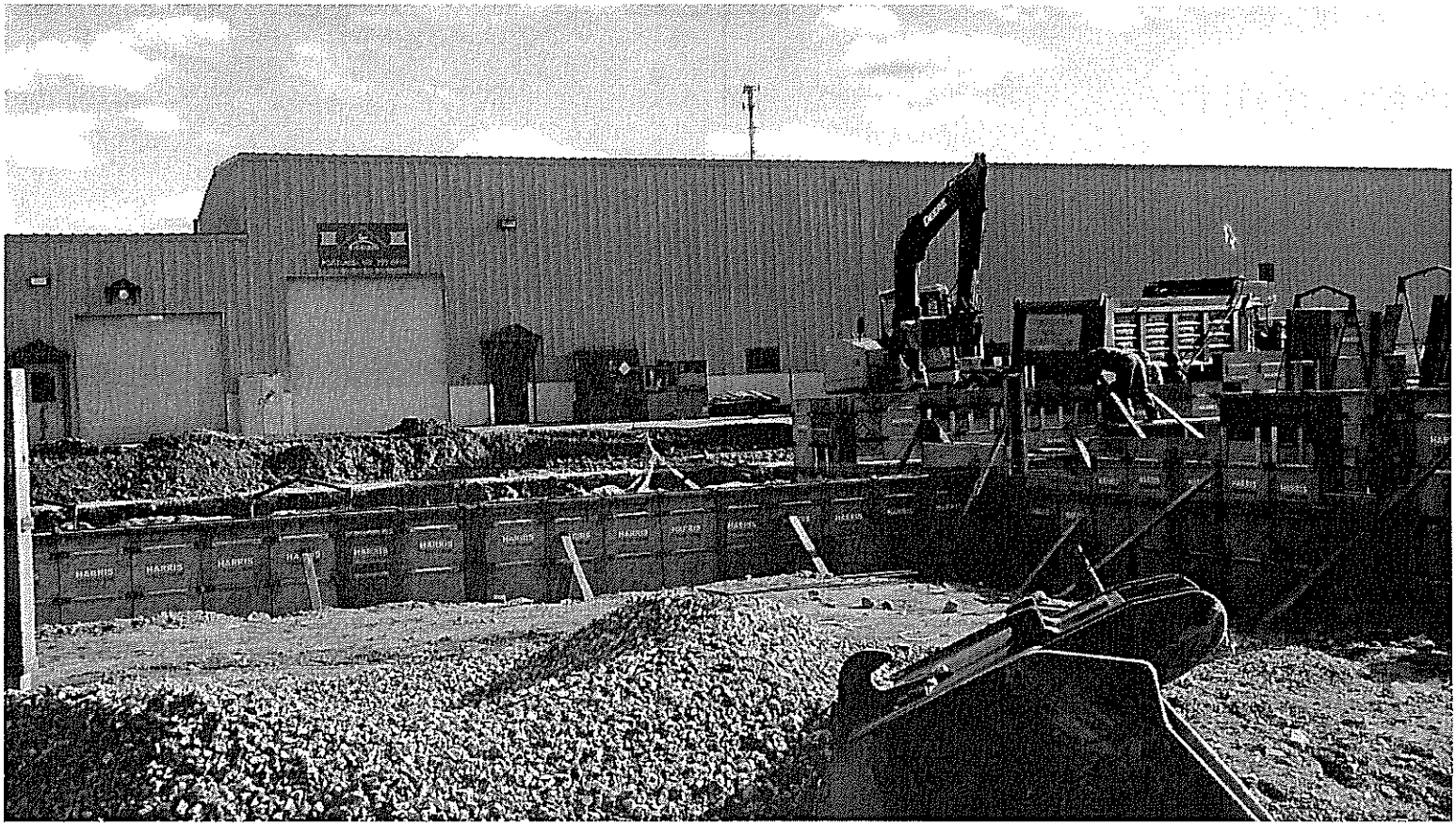
N/O=Not Observed

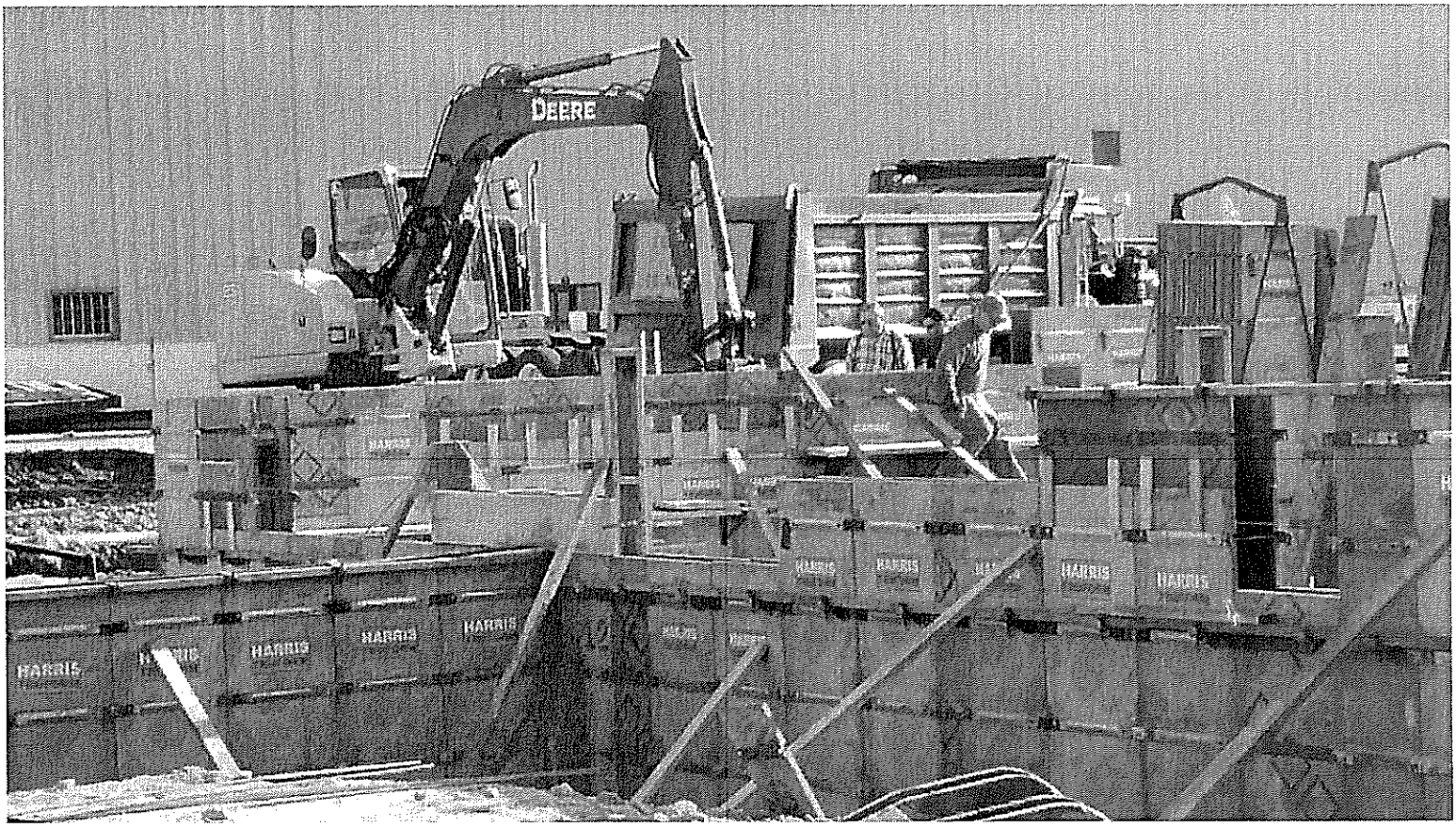
Attachments: Photos

Reviewed By: KBG




HARRIS
TRUFORM

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S.W.COLE ENGINEERING, INC.

# Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** Portland ME - 1067 Riverside Lot 2 - Construction Materials Testing Services

**Project Number:** 11-0446.1

**Client:** Biskup Construction, Inc.

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** HISSONG CONCRETE

## PLACEMENT INFORMATION

**Date Cast:** 10/24/2016 **Time Cast:** 3:15

**Date Received:**

**Placement Location:** 1 RETAINING WALL
WALL LINE 1.0/D-G

**Placement Method:** PUMP

**Placement Vol. (yd³):** 23.5

**Cylinders Made By:** ADAM CARR

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

## INITIAL CURING CONDITIONS

**Temperatures**

**Minimum (°F)** **Maximum (°F)**

## DELIVERY INFORMATION

**Admixtures:** MRWR

## TEST RESULTS

**Slump (in) (C-143):** 7 3/4 **Slump WR:** 7

**Air Content (%) (C-231)** 6.1 **Air WR:** 6.9

**Air Temp (°F):** 51

**Conc. Temp (°F) (C-1064):** 68

**Load Number:** 1

**Mixer Number:** 317

**Ticket Number** 3997

**Cubic Yards:** 8

**Design (psi):** 3000

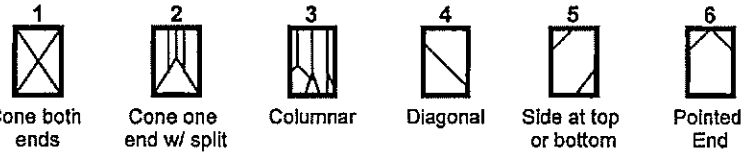
**Batch** 2:57

**Arrive** 3:01

**Depart** 3:28

| Cylinder Designation | Cylinder Weight (lbs) | Cylinder Diameter (in) | Cross Sectional Area(In)² | Date Of Test | Cure Type | Age (days) | Fracture Type | Load (kips) | Strength (psi) |
|---|---|---|---|---|---|---|---|---|---|
| 858-4A | | 4.01 | 12.61 | 10/31/2016 | Lab | **7** | 6 | 29.2 | **2320** |
| 858-4B | | 4.00 | 12.59 | 11/7/2016 | Lab | **14** | 4 | 38.2 | **3040** |
| 858-4C | | 3.99 | 12.50 | 11/14/2016 | Lab | **21** | 5 | 46.4 | **3710** |
| 858-4D | | | | Hold | Lab | | | | |

Fracture Types




Remarks:

286 Portland Road, Gray, ME 04039-9586 • Tel (207) 657-2866 • Fax (207) 657-2840 • www.swcole.com

S.W.COLE ENGINEERING, INC.

# Masonry Construction Observation Report

| | | | |
|---|---|---|---|
| **Project Name/Location:** | 1067 Riverside Street | **Project No:** | 11-0446.1 |
| **Client/Client's Rep.:** | Biskip | **Date:** | 12-6-16 |
| **Masonry Contractor:** | Masonry Specialist | **Sheet:** | 1 of 1 |
| **Placement Location:** | 8" Split faced Block on A-line | **S.W.COLE Rep.:** | C. Cromwell |
| **Weather:** | Sunny 30's | **On Site:** | 9:00-10:30 |

| Referenced Drawings | Date | Page | Revision | Comments |
|---|---|---|---|---|
| Biskip Construction-Foundation Plan | 6-16-16 | S-1 | | |
| Biskip Construction-Foundation Details | 6-16-16 | S-2 | | |
| | | | | |
| | | | | |
| | | | | |

| ***Masonry Construction*** | **Observed** | | |
|---|---|---|---|
| Proportioning of site-mixed mortar | Yes ☐ | No ☒ | Not Onsite for placement of CMU's |
| Placement of units and construction of mortar joints | Yes ☐ | No ☒ | |
| Joint reinforcing (type, spacing, laps) | Yes ☒ | No ☐ | |
| Vertical reinforcing (size, spacing, positioners, laps) | Yes ☒ | No ☐ | #4 @48" O.C. |
| Horizontal reinforcing (size, spacing, positioners, laps) | Yes ☒ | No ☐ | Bond Beam (2)#4 bars |
| Cold-weather / Hot-weather construction (temperature, practices) | Yes ☐ | No ☒ | Ambient temp 33°F |
| Embedments and anchor bolts | Yes ☐ | No ☒ | N/A |
| Installation of flashing and weeps – *material and placement* | Yes ☐ | No ☒ | |

| ***Grout Placement*** | **Observed** | | |
|---|---|---|---|
| Grout space (cleanliness, mortar fins, size/alignment, etc.) | Yes ☒ | No ☐ | Clear Unobstructed |
| Lift height (cleanouts if needed) | Yes ☒ | No ☐ | Low Lift |
| Proportions of site-mixed grout or vendor mix used | Yes ☒ | No ☐ | |
| Placement of grout (*consolidation, reconsolidation*) | Yes ☒ | No ☐ | By Hand |

| **Field Testing Performed** *refer to associated specimen test report* | Mortar ☐ | Grout ☒ | Prism ☐ |
|---|---|---|---|
| **SET NO:** | | 858-5 | |

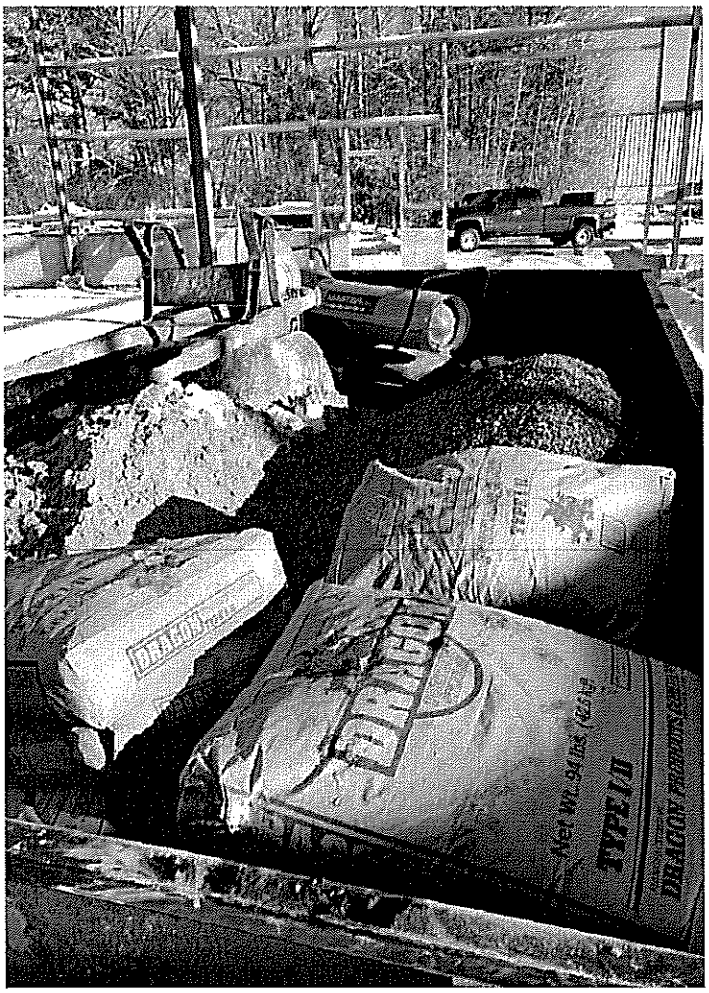
***NON-CONFORMANCE ITEMS OBSERVED (person notified)*** Yes ☐ No ☐

**Notes:**

SW Cole was onsite as scheduled by Biskip Construction for field testing of grout and to observe reinforcing. Grout was being mixed onsite by Masonry Specialist using Dragon type I/II cement, sand, and 3/8 stone. Grout aggregates and water were not heated and CMU wall being placed was at ambient temperature during placement of grout. SW Cole talked with Masonry Specialist onsite and was told that CMU wall will be heated after placement of grout. Reinforcing observed appeared consistent with above referenced documents.

Attachments: Photos

Reviewed By: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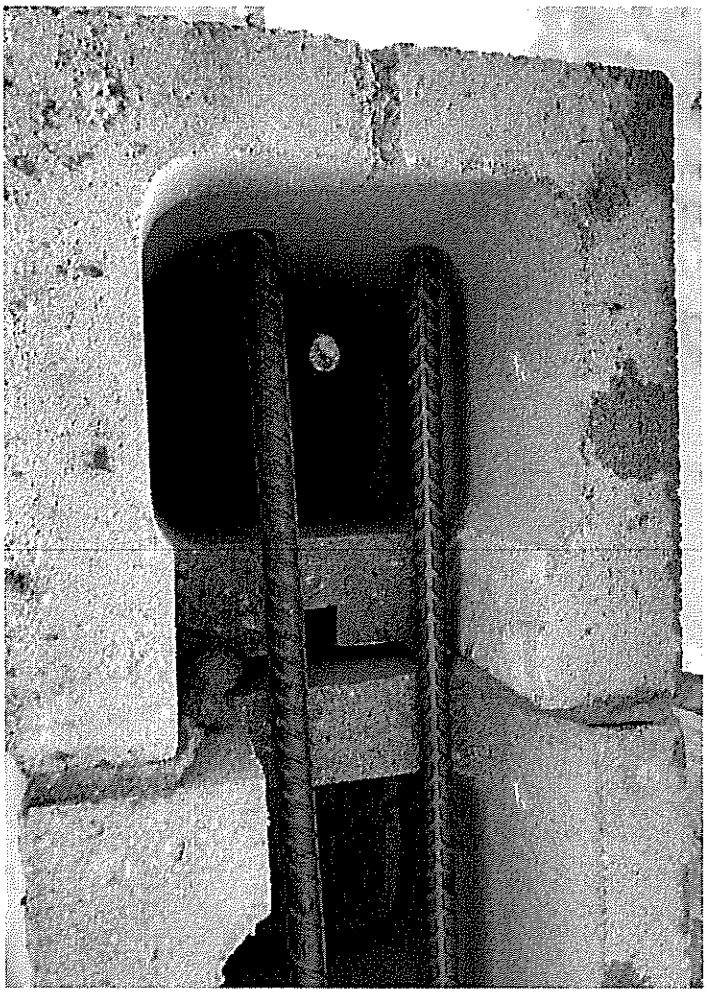
DRAGON PROPULSION



S.W.COLE ENGINEERING, INC.

# Report of Grout Specimen Compressive Strength

ASTM C1019

**Project Name:** Portland ME - 1067 Riverside Lot 2 - Construction Materials Testing Services
**Project Number:** 11-0446.1

**Client:** Biskup Construction, Inc.
**Client Contract Number:**

**General Contractor:**
**Supplier:** ON-SITE

## PLACEMENT INFORMATION

**Date Cast:** 12/6/2016 **Time Cast:** 9:45
**Date Received:**

**Placement Location:** SPLIT FACED CMU ON A LINE

**Placement Method:** HAND/BUCKET
**Placement Vol. (yd³):**

**Specimen Made By:** CHARLES CROMWELL
**Aggregate Size (in):** 3/8

## INITIAL CURING CONDITIONS

**Temperatures**

**Minimum (°F)** 11 **Maximum (°F)** 82

## DELIVERY INFORMATION

**Admixtures:**

## TEST RESULTS

**Slump (in) (C-143):**
**Air Temp (°F):** 25
**Grout Temp (°F) (C-1064):** 37

**Batch Number:** 1
**Mixer Number:**
**Ticket Number:**
**Design (psi):** 3000

| Specimen Designation | Area(In)² | Date Of Test | Age (days) | Load (kips) | Strength (psi) |
|---|---|---|---|---|---|
| 858-5A | 11.65 | 12/13/2016 | 7 | 30.2 | 2590 |
| 858-5B | 10.69 | 1/3/2017 | 28 | 40.6 | 3800 |
| 858-5C | 11.06 | 1/3/2017 | 28 | 39.2 | 3550 |
| 858-5D | | | | | |

Remarks:

**WHITE ENGINEERING, LLC** **P.O. Box 878 Glen, N.H. 03838**
**nealjwhite@gmail.com** **Tel. 603-383-9347 Fax. 603-383-8262**

**Client:** S.W. Cole Engineering, Inc. **Report:** 001
**Project:** 1067 Riverside Drive
**SWCE Project #:** 11-0446.1
**Date:** February 14, 2017
**Subject:** Structural Steel Site Inspection

As requested a site visit was made on this date for inspection of structural steel. Upon arrival we met with Mr. Jim Biskup. The erector was not on site.

Inspection was performed using Package Building Systems drawings as reference. Our activities and observations were as follows:

- Base plates were inspected for suitable bearing and tightened anchor rod nuts.
- Columns were inspected for plumb using a 6'-0 level.
- All primary connections were accessed and inspected for correct bolt size, grade and conformance to RCSC specifications.
- Approximately seventy five percent (75%) of secondary connections (girts, flange braces, opening frames) were accessed and inspected.
- Brace installation was inspected.
- Framing and details were inspected for overall conformance to drawings.

All work inspected appeared acceptable with the following comments or exceptions:

1. Portal frame column at A/4 requires grouting of base plate.
2. Flange brace at A/6 is not attached.
3. Loose bolts were observed at line A portal frame (2 connections) and eave connections at A/5 and A/6.
4. Brace on line 1 is loose. Brace lugs should be installed correctly at G/4.
5. At A/6 a 1" long flame cut was made in the column. This should be reviewed by the building manufacturer.
6. At G/6 and F/1 holes in cap plates were misaligned and flame cut on site. This should be reviewed by the building manufacturer.

Pink flagging was attached on or near each discrepancy. Mr. Biskup was briefly advised of our observations.

**Inspector;** Neal J White
CWI#86070201
ICC #8014170-S1

S.W.COLE ENGINEERING, INC.

# Report of Field Density

## ASTM D6938

Project: PORTLAND ME - 1067 RIVERSIDE LOT 2 - CONSTRUCTION MATERIALS TESTING SERVICES  Project Number: 11-0446.1

Client: BISKUP CONSTRUCTION, INC.

### Field Density Test Results

| Test # | Test Date | Tech | Test Location | Elev Feet | Test Depth | Lab ID | Dry Density | Moisture Content Percent | Compaction Percent | Required Compaction |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11/15/2016 | NM | LINE G/5, 6' FROM WALL | 18" | 12" | 20680G | 133.6 | 1.8 | 99.2 | 95 |
| 2 | 11/15/2016 | NM | LINE G/2, 6' FROM WALL | 18" | 12" | 20680G | 131.5 | 2.1 | 97.6 | 95 |
| 3 | 11/15/2016 | NM | LINE 1/D, 4' FROM WALL | 18" | 12" | 20680G | 132.7 | 2.3 | 98.5 | 95 |
| 4 | 11/15/2016 | NM | LINE A/2, 3' FROM WALL | 18" | 12" | 20680G | 135.1 | 2.6 | 100.3 | 95 |
| 5 | 11/15/2016 | NM | LINE A/5, 4' FROM WALL | 18" | 12" | 20680G | 134.6 | 1.9 | 99.9 | 95 |
| 6 | 11/15/2016 | NM | LINE 6/E, 4' FROM WALL | 18" | 12" | 20680G | 136.6 | 1.9 | 101.4 | 95 |
| 7 | 11/15/2016 | NM | LINE D/3, 4' FROM WALL | 18" | 12" | 20680G | 135.1 | 1.8 | 100.3 | 95 |

### Laboratory Compaction Test Reference

| Lab ID | Date Received | Material Source | Material Type | Method | Max Dry Density PCF | Optimum Moisture Content (%) | Comments |
|---|---|---|---|---|---|---|---|
| 20680G | 4/15/2016 | Chase - Foreside Village | Crushed Gravel | ASTM D-1557 Modified C | 134.7 | 6.3 | |

**Elevation Notes:**

ALL ELEVATIONS ARE BELOW FINISH GRADE

**Comments:**

Reviewed By

# STATEMENT OF SPECIAL CONSTRUCTION MONITORING

**PROJECT:** **1039 RIVERSIDE ST, UNIT #2 – NEW BUILDING**
**1039 Riverside St, Portland Maine 04103**

**PERMIT APPLICANT:** **Biskup Construction Inc**
**APPLICANT'S ADDRESS:** **16 Danielle Dr, Windham, ME 04062**

**STRUCTURAL ENGINEER OF RECORD:** **Associated Design Partners, Inc**

**CONTRACTOR:** **Biskup Construction Inc**

This Statement of Special Construction Monitoring is submitted as a condition for building permit issuance in accordance with Section 1704.0 of the 2009 International Building Code. It includes the Schedule of Special Construction Monitoring and Testing as applicable to this project. Also included is a listing of agents and other approved agencies to be retained for conducting the monitoring and testing applicable to this project.

The Special Construction Monitoring Coordinator shall keep records of all observations listed herein, and shall furnish field reports to the Registered Design Professional of Record. All discrepancies shall be brought to the immediate attention of the Contractor for correction, and to the Registered Design Professional of Record. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Registered Design Professional of Record. Interim reports shall be submitted to the Registered Design Professional of Record monthly, unless more frequent submissions are requested.

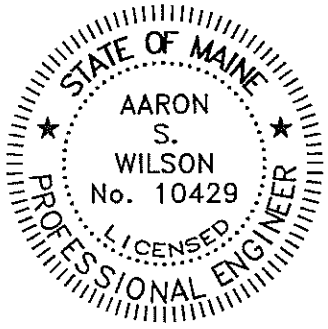
The Special Inspection program does not relieve the Contractor of his or her responsibilities. Job site safety is solely the responsibility of the Contractor. Materials and activities covered under the monitoring schedule are not to include the Contractor's equipment and methods used to erect or install the materials listed.

Prepared by:

Aaron S. Wilson, P.E.

(type or print name)

Signature — Date: 6/16/16




*Design Professional Seal*

Owner's Authorization:

Signature — Date: 6/16/16

Building Official's Acceptance:

Signature — Date

## SPECIAL CONSTRUCTION MONITORING AGENTS

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

- ☒ Soils and Foundations
- ☒ Cast-in-Place Concrete
- ☐ Precast Concrete
- ☐ Masonry
- ☒ Structural Steel
- ☒ Cold-Formed Steel Framing
- ☐ Spray Fire Resistant Material
- ☐ Wood Construction
- ☐ Exterior Insulation and Finish System
- ☐ Mechanical & Electrical Systems
- ☐ Architectural Systems
- ☐ Special Cases

| AGENT | FIRM | CONTACT INFORMATION |
|---|---|---|
| 1. Engineer of Record | **Associated Design Partners** | **80 Leighton Rd<br>Falmouth ME 04105<br>Ph: 878-1751** |
| 2. Special Construction Monitoring Coordinator | **Associated Design Partners** | **80 Leighton Rd<br>Falmouth ME 04105<br>Ph: 878-1751** |
| 3. Field Monitor | **S.W. Cole** | **286 Portland Road<br>Gray, ME 04039-9586<br>P: (207) 657.2866** |
| 4. Testing Agency | **S.W. Cole** | **286 Portland Road<br>Gray, ME 04039-9586<br>P: (207) 657.2866** |
| 5. Other | | |

Note: The construction monitoring agent and testing agency 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.

# QUALITY ASSURANCE FOR LATERAL SYSTEMS

## Quality Assurance for Seismic Requirements

| | |
|---|---|
| Seismic Design Category | *C* |
| Quality Assurance Plan Required (Y/N) | *Y* |

If seismic design category C, and plan is not required, explain:

Description of seismic force resisting system and designated seismic systems:

*Ordinary Steel Moment Resisting Frames, Ordinary Steel Concentric Braced Frames.*

## Quality Assurance for Wind Requirements

| | |
|---|---|
| Basic Wind Speed (3 second gust) | *100MPH* |
| Quality Assurance Plan Required (Y/N) | *N* |

Description of wind force resisting system and designated wind resisting components:
*Ordinary Steel Moment Resisting Frames, Ordinary Steel Concentric Braced Frames.*

## Statement of Responsibility

Each contractor responsible for the construction or fabrication of a system or component designated above must submit a Statement of Responsibility in accordance with section 1705.3, and 1706.3 of the 2003 IBC code.

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 if requested.

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge deems it appropriate that the individual performing a stipulated test or inspection have a specific certification or license as indicated below, such designation shall appear below the *Agency Number* on the Schedule.

**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

**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.

**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

**Exterior Design Institute (EDI) Certification**

EDI-EIFS EIFS Third Party Inspector

# TABLE 1 – SCHEDULE OF SPECIAL CONSTRUCTION MONITORING

| MATERIAL / ACTIVITY | | EXTENT of MONITORING (Continuous, Periodic, Other, Exempt, None) | COMMENTS | AGENT # | DATE COMPLETED | REV # |
|---|---|---|---|---|---|---|
| 1704.3 STEEL CONSTRUCTION | | | | | | |
| 1. Material Verification of high strength bolts, nuts, and washers. | a. Identification markings to conform to ASTM standards specified in the approved construction documents. | Periodic | Provide inspection reports for field installed bolts to Agent 5 also. | 3 | | |
| | b. Manufacturers Certificate of Compliance required. | Exempt | Fabricator to provide registration and approval Certificate per 1704.2.2. | 5 | | |
| 2. Inspection of High – Strength Bolting | a. Bearing type connections | Periodic | Provide inspection reports to Agent 5 also. | 3 | | |
| | b. Slip – critical connections | None | No S-C connections in building | | | |
| 3. Material Verification of structural steel | a. Identification marking to conform to ASTM standards specified in the contract documents. | Exempt | Fabricator to provide registration and approval Certificate per IBC 1704.2.2. | 5 | | |
| | b. Manufacturers certified mill test Reports. | Other | Fabricator to provide registration and approval Certificate per IBC 1704.2.2. | 5 | | |
| 4. Material Verification of weld filler materials: | a. Identification marking to conform to AWS standards specified in the contract documents. | Exempt | Fabricator to provide registration and approval Certificate per IBC 1704.2.2. | 5 | | |
| | b. Manufacturers Certificate of Compliance required. | Exempt | Fabricator to provide registration and approval Certificate per 1704.2.2. No Field Welding. | 5 | | |
| 5. Inspection of Welding – Structural Steel | a. Single Pass fillet welds < 5/16" | Exempt | Fabricator to provide registration and approval Certificate per 1704.2.2. No Field Welding. | 5 | | |
| | b. Roof deck attachment | Periodic | Provide inspection reports to Agent 5 also. | 3 | | |
| 6. Inspection of Steel Frame Joint details for compliance with approved documents. | a. Bracing / moment frame connections | Periodic | Provide inspection reports to Agent 5 also. | 3 | | |
| | b. Member locations | Periodic | Provide inspection reports to Agent 5 also. | 3 | | |
| | c. Application of joint details at each connection. | Periodic | Provide inspection reports to Agent 5 also. | 3 | | |
| | | | | | | |

## TABLE 1 – STATEMENT OF SPECIAL INSPECTIONS, cont.

| MATERIAL/ACTIVITY | | EXTENT of INSPECTION (Continuous, Periodic, Other, None) | COMMENTS | AGENT # | DATE COMPLETED | REV # |
|---|---|---|---|---|---|---|
| 1704.4 CONCRETE CONSTRUCTION | | | | | | |
| 1. Inspection of reinforcing steel, including placement. | | Periodic | | 3 | | |
| 2. Inspection of reinforcing steel welding | | None | No welding of rebar specified in contract drawings | | | |
| 3. Inspect bolts embedded into concrete prior to and during placement of concrete where allowable loads have been increased. | | None | Allowable loads have not been increased for lateral loads. | | | |
| 4. Verify concrete mix design(s) | | Periodic | SER to review and approve mix design(s) prior to delivery. Field agent to verify delivery ticket matches approved mix design. | 1,3 | | |
| 5. Sample fresh concrete for strength tests, perform slump and air content tests, and determine temperature of concrete. | | Continuous | | 3,4 | | |
| 6. Inspection of concrete placement for proper techniques. | | Continuous | | 3 | | |
| 7. Inspection for maintenance of specified curing temperature and techniques. | | Periodic | | 3 | | |
| | | | | | | |
| 1704.5 MASONRY CONSTRUCTION - **Level 1 Special Inspection for non-essential facility – 1704.5.2** | | | | | | |
| 1. As Masonry Construction begins, the following shall be verified to ensure conformance | a. Proportions of site-prepared mortar | Periodic | | 3 | | |
| | b. Construction of mortar joints | Periodic | | 3 | | |
| | c. Location of reinforcement | Periodic | | 3 | | |
| | d. Pre-stressing technique | None | No pre-stressing in building | | | |
| | e. Grade and size of pre-stressing tendons. | None | No pre-stressing in building | | | |
| 2. The Inspection program shall verify the following: | a. Size and location of structural elements. | Periodic | | 3 | | |
| | b. Type, size, and location of embedded anchors. | Periodic | | 3 | | |
| | c. Size, grade, and type of reinforcing | Periodic | | 3 | | |
| | | | | | | |

## TABLE 1 – STATEMENT OF SPECIAL INSPECTIONS, cont.

| MATERIAL/ACTIVITY | | EXTENT of INSPECTION (Continuous, Periodic, Other, None) | COMMENTS | AGENT # | DATE COMPLETED | REV # |
|---|---|---|---|---|---|---|
| **1704.5MASONRY CONSTRUCTION - Level 1 Special Inspection for non-essential facility – 1704.5.2** | | | | | | |
| 2. The Inspection program shall verify the following, cont: | d. welding of reinforcing bars | None | | | | |
| | e. Protection of Masonry during cold weather (temp. below 40 deg F.) | Periodic | | 3 | | |
| | f. Application and measurement of pre-stressing reinforcement | None | No pre-stressing in building | | | |
| 3. Prior to grouting, the following shall be verified to ensure compliance. | a. Grout space is clean | Periodic | | 3 | | |
| | b. Placement of reinforcement | Periodic | | 3 | | |
| | c. Proportions of site-prepared grout | Periodic | | 3 | | |
| | None | Periodic | | 3 | | |
| 4. Grout placement shall be verified to ensure compliance with code and construction document provisions. | | Periodic | | 3 | | |
| 5. Preparation of any grout specimens, mortar specimens and/or prisms shall be observed | | Periodic | | 3 | | |
| 6. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified. | | Periodic | | 3 | | |
| | | | | | | |
| **1704.6 WOOD CONSTRUCTION** | | | | | | |
| 1. Horizontal Diaphragms and Vertical Shearwalls | a. Inspect sheathing size, grade, and thickness for conformance with construction documents. | None | | | | |
| | b. Inspect sheathing fastener size and pattern for conformance with construction documents. | None | | | | |
| | c. Verify attachment to supporting elements is per contract documents. | None | | | | |
| 2. Wood truss fabricator certification / quality control procedures | Verify shop fabrication and quality control procedures for wood truss plant. | None | | | | |
| 3. Material Grading | Verify material grading for sawn lumber for compliance with construction documents. Verify manufactured lumber (LVL'S, PSL's) for conformance with construction documents. | None | | | | |

## TABLE 1 – STATEMENT OF SPECIAL INSPECTIONS, cont.

| MATERIAL/ACTIVITY | | EXTENT of INSPECTION (Continuous, Periodic, Other, None) | COMMENTS | AGENT # | DATE COMPLETED | REV # |
|---|---|---|---|---|---|---|
| 1704.6WOOD CONSTRUCTION | | | | | | |
| 4. Wood Connections | Verify that connections are made as shown in the contract documents. For connections not specifically detailed, verify conformance with IBC 2003 Ch. 23 | None | | | | |
| 5. Framing | Verify that framing is installed in accordance with construction documents. | None | | | | |
| 6. Pre-Fabricated Wood Trusses | Inspect truss and all bracing installation. Bracing to be installed per fabricator's recommendations and BCSI 1-03 | None | | | | |
| | | | | | | |
| 1704.7SOILS | | | | | | |
| 1. Site Preparation | Inspect preparation of site for conformance with Geotechnical recommendations prior to placement of prepared fill. | Periodic | | 3 | | |
| 2. Fill Placement | During Fill Placement verify that material and lift thickness comply with approved Geotechnical report. | Periodic | | 3 | | |
| 3. In-Place Soil Density | Verify compliance of in-place compacted dry density with approved Geotechnical report. | Periodic | | 3 | | |
| | | | | | | |
| 1704.7PILE FOUNDATIONS | Record installation and testing of procedures of each pile. Submit reports to building official and EOR. Reports to include pile tip cutoff elevation relative to a common benchmark. | None | No Piles on Job | | | |
| | | | | | | |
| 1704.10 ARCHITECTURAL WALL PANELS AND VENEERS | Verify compliance of attachment of interior and exterior Architectural veneers to supporting structure for building in Seismic Design Category E or F. | None | | | | |
| | | | | | | |
| 1704.11 SPRAYED FIRE-RESISTANT MATERIAL | a. Verify conformance of the prepared surface with manufacturer's specifications prior to application of material. | None | No Sprayed Fire-Resistant material in building. | | | |

## TABLE 1 – STATEMENT OF SPECIAL INSPECTIONS, cont.

| MATERIAL/ACTIVITY | | EXTENT of INSPECTION (Continuous, Periodic, Other, None) | COMMENTS | AGENT # | DATE COMPLETED | REV # |
|---|---|---|---|---|---|---|
| | b. Verify that substrate's ambient temperature meet manufacturer's specifications. | None | | | | |
| | c. Verify that material thickness meets design specifications. | None | | | | |
| | d. Verify that the material density meets the design specifications. Test in accordance with ASTM E 605. | None | | | | |
| | e. Verify that bond strength between material and substrate is greater than or equal to 150 psf. Test in accordance with ASTM E 736 and IBC 2003 1704.11.5.1 – 1704.11.5.2 | None | | | | |
| | | | | | | |
| **1704.12 EXTERIOR AND INSULATION AND FINISH SYSTEMS (EIFS)** | Verify conformance of EFIS installation with manufacturers and design specifications. | None | No EIFS on building. | | | |
| | | | | | | |
| **1704.13 SPECIAL CASES COLD FORMED METAL FRAMING** | | | | | | |
| 1. Framing | Verify member size, thickness, material, and spacing is in accordance with design specifications and drawings. | Periodic | Roof Purlins | 3 | | |
| 2. Framing Connections | Verify that member connections are in accordance with design specifications and drawings. | Periodic | Roof Purlins | 3 | | |
| 3. Welding | Verify welding of cold formed members is in accordance with design specifications and AWS standards. | None | | | | |
| 4. Light Gage Trusses | a. Verify that light gage trusses are design in accordance with the loads specified on the contract documents. | None | | | | |
| | b. Verify that light gage trusses and truss bracing is installed per manufacturers specifications, | None | | | | |

## TABLE 1 – STATEMENT OF SPECIAL INSPECTIONS, cont.

| MATERIAL/ACTIVITY | | EXTENT of INSPECTION (Continuous, Periodic, Other, None) | COMMENTS | AGENT # | DATE COMPLETED | REV # |
|---|---|---|---|---|---|---|
| | contract documents, and BCSI 1-03 guidelines. | | | | | |
| 1704.10 SMOKE CONTROL | | | | | | |
| | a. Test ductwork for leakage and recode device locations prior to concealment of mechanical systems. | None | | | | |
| | b. Prior to building occupation, perform pressure difference testing, flow measurements and detection, and control monitoring. | None | | | | |