Project: Parking Deck Mixed Use Development Date Prepared: March 17, 2016

Structural Statement of Special Inspections

Project: Parking Deck Mixed Use Development

Location: York and High Street, Portland, Maine

Owner: 101 York Street LLC

This Statement of Special Inspections encompass the following discipline: Structural

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

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

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

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

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

| Interim Report Frequency: X Upon request of Building | Official | or per attached schedule. | | | |
|--|--------------------------|--|--|--|--|
| Prepared by: | | | | | |
| Todd M. Neal, P.E. | | Contraction of the second seco | | | |
| (type or print name of the Structural Registered Design Professional in Responsible Charge) | | HEAL YE | | | |
| | 3/17/16 | NO. 9406 | | | |
| Signature | Date | Design Professional Seal | | | |
| Owner's Authorization: | Building Code Official's | S Acceptance: | | | |
| Signature Date | Signature | Date | | | |

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Interim Report Frequency: X Upon request of Building Official or per attached schedule. Prepared by: OF MA Todd M. Neal, P.E. TODD M. (type or print name of the Structural Registered Design NEAL. Professional in Responsible Charge) NO. 9406 3/17/16 Signature Date ///////// **Design Professional Seal**

Owner's Authorization:

Building Code Official's Acceptance:

Signature

Signature

Date

Structural Statement of Special Inspections (Continued)

List of Agents

Project: Parking Deck Mixed Use Development

Location: York and High Street, Portland, Maine

Owner: 101 York 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
- 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, ME 04101 207-897-1838 |
| 2. Special Inspector (SI 1) | Becker Structural Engineers, Inc | 75 York Street Portland, ME 04101 207-897-1838 |
| 3. Special Inspector (SI 2) | S.W. Cole Engineering Inc. | 286 Portland Road Gray, Maine 04039 207-657-2866 |
| 4. Testing Agency (TA 1) | S.W. Cole Engineering Inc | 286 Portland Road Gray, Maine 04039 207-657-2866 |
| 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 <u>not</u> 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 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:Parking Deck Mixed Use DevelopmentLocation:York and High Street, Portland, MaineOwner:101 York Street LLC

Owner's Address:

| Architect of Record: | Keith Kelley, AIA | | Opechee Construction Corporation | | |
|----------------------------|-------------------|--------------------|----------------------------------|------------------------------------|--|
| | (name) | | (firm) | | |
| Structural Registered Desi | ign | | | | |
| Professional in Responsib | le Charge: | Todd M. Neal, P.E. | | Beckers 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, Structural Special Inspection Coordinator

Todd M. Neal, P.E. (Type or print name)

Becker Structural Engineers, Inc. (Firm Name)

Signature

Date



Structural Statement of Special Inspections (Continued) Special Inspector's/Agent's Final Report

| Project: | Parking Deck Mixed Use Development | |
|----------------------|------------------------------------|-----------------------------------|
| Special Inspector or | | |
| Agent: | | Becker Structural Engineers, 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:

(Type or print name)

Signature

Date

Licensed Professional Seal or Certification Number

Structural Schedule of Special Inspections

Qualifications of Inspectors and Testing Technicians

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

Key for Minimum Qualifications of Inspection Agents:

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

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

Experienced Testing Technician

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

American Concrete Institute (ACI) Certification

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

American Welding Society (AWS) Certification

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

American Society of Non-Destructive Testing (ASNT) Certification

ASNT Non-Destructive Testing Technician – Level II or III.

International Code Council (ICC) Certification

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

National Institute for Certification in Engineering Technologies (NICET)

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

Other

Project: Parking Deck Mixed Use Development Date Prepared: March 17, 2016 Structural Schedule of Special Inspections SOILS & FOUNDATION CONSTRUCTION

| VERIFICATION AND INSPECTION IBC Section 1704.7, 1704.8, 1704.9 | <u>REQD</u> Y/N | EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE | COMMENTS | AGENT | AGENT QUALIFICATION | TASK COMPLETED |
|--|--------------------|--|-----------------|-------|------------------------|-------------------|
| 1. Required Verification and Inspection of Soils: | | | | | | |
| a. Verify materials below shallow foundations are adequate to achieve the design bearing capacity. | Y | С | IBC 1704.7 | SI2 | PE/GE, EIT or ETT | |
| b. Verify excavations are extended to proper depth and have reached proper material. | Y | Р | IBC 1704.7 | SI2 | PE/GE, EIT or ETT | |
| c. Perform classification and testing of compacted fill materials. | Y | Р | IBC 1704.7 | TA1 | PE/GE, EIT or ETT | |
| d. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill. | Y | С | IBC 1704.7 | TA1 | PE/GE, EIT or ETT | |
| e. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly. | Y | Р | IBC 1704.7 | SI2 | PE/GE, EIT or ETT | |
| 2. Required Verification and Inspection of Rammed Aggregate Pier Installation (RAP): | | | IBC 1704.8 | | | |
| a. Review Performance Design Submitted by Specialty Engineer | Y | S | | SI2 | PE/GE, EIT or ETT | |
| b. Verify grout and aggregate materials comply with the design requirements included in Performance Design. | Y | С | At Ea. Location | SI2 | PE/GE, EIT or ETT | |
| c. Observe Rammed Aggregate Pier Modulus Tests | Y | С | At Ea. Location | TA1 | PE/GE, EIT or ETT | |
| d. Observe Rammed Aggregate Pier installation and maintain complete accurate records for each | Y | С | At Ea. Location | TA1 | PE/GE, EIT or ETT | |

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

Project: Parking Deck Mixed Use Development Date Prepared: March 17, 2016 Structural Schedule of Special Inspections CONCRETE CONSTRUCTION

| VERIFICATION AND INSPECTION IBC Section 1704.4 | <u>REQD</u> Y/N | EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, | COMMENTS | AGENT | AGENT QUALIFICATION | TASK COMPLETED |
|---|--------------------|---|---|-------|------------------------|-------------------|
| | | OR NONE | | | | |
| 1. Inspection of reinforcing steel, including prestressing tendons, and placement | Y | Р | ACI 318: 3.5, 7.1-7.7 | SI1 | PE/SE or EIT | |
| 2. Inspection of reinforcing steel welding in accordance with Table 1704.3, Item 5B | N | - | Not applicable. Welding of Reinf Not Allowed | - | - | |
| 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. | Y | С | IBC 1911.5 | SI1 | PE/SE or EIT | |
| 4. Inspection of anchors installed in hardened concrete. | Y | Р | IBC 1212.1 | SI1 | PE/SE or EIT | |
| 5. Verifying use of required design mix | Y | Р | ACI 318: Ch 4, 5.2-5.4 | TA1 | ACI-CFTT or ACI-STT | |
| 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. | Y | С | ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8 | TA1 | ACI-CFTT or ACI-STT | |
| 7. Inspection of concrete and shotcrete placement for proper application techniques | Y | С | ACI 318: 5.9, 5.10 | TA1 | ACI-CFTT or ACI-STT | |
| 8. Inspection for maintenance of specified curing temperature and techniques | Y | Р | ACI 318: 5.11- 5.13 | SI1 | PE/SE or EIT | |
| 9. Inspection of Precast - Prestressed Concrete | | | | | | |
| a. Application of prestressing force. | N | | PCI Certified Plant | | | |
| b. Grouting of bonded prestressing tendons in seismic force resisting system | N | | PCI Certified Plant | | | |
| 10. Erection of precast concrete members. | Y | Р | PCI Certified Erector | SI1 | PE/SE or EIT | |
| 11. Submit current AWS D1.1 welder certificate for all field welders who will be welding on this project. | Y | S | AWS D1.1 | SI1 | PE/SE or EIT | |
| 12. Inspect formwork for shape, location and dimensions of the concrete member being formed. | Y | Р | Limitations apply. See below | SI1 | PE/SE or EIT | |
| | | | | | | |

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.

Project: Parking Deck Mixed Use Development Date Prepared: March 17, 2016 Structural Schedule of Special Inspections - STEEL CONSTRUCTION

| VERIFICATION AND INSPECTION | REQD | | COMMENTS | AGENT | AGENT | TASK |
|--|--------|---|--|-------|--------------------|-----------|
| IBC Section 1704.3 | Y/N | CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE | | | QUALIFICATION | COMPLETED |
| 1. Material verification of high-strength bolts, nuts and washers: | | | | | | |
| a. Identification markings to conform to ASTM standards specified in the approved construction documents. | Y | Р | Applicable ASTM material standards, AISC 360, A3.3 | TA1 | AWS/AISC-SSI | |
| b. Manufacturer's certificate of compliance required. | Y | S | | SI1 | PE/SE or EIT | |
| 2. Inspection of high-strength bolting | | | | | | |
| a. Snug-tight joints. | Y | Р | | TA1 | 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. c. Pretensioned and slip-critical joints using turn-of-nut | Y | Р | AISC LRFD Section M2.5 IBC Sect | TA1 | AWS/AISC-SSI | |
| without matchmaking or calibrated wrench methods of installation. | Y | С | 1704.3.3 | TA1 | AWS/AISC-SSI | |
| 3. Material verification of structural steel: | | | | | | |
| a. For structural steel, identification markings to conform to AISC 360. | N | | | | | |
| b. For other steel, identification markings to conform to ASTM standards specified in the approved construction documents. | Y | Р | Applicable ASTM material standards | SI1 | PE/SE or EIT | |
| c. Manufacturer's certified test reports. | Y | S | | SI1 | PE/SE or EIT | |
| 4. Material verification of weld filler materials: | | | | | | |
| a. Identification markings to conform to AWS specification in the approved construction documents. | Y | Р | AISC 360, M5.5 | TA1 | AWS/AISC-SSI | |
| b. Manufacturer's certificate of compliance required. | Y | S | | SI1 | PE/SE or EIT | |
| 5. Submit current AWS D1.1 welder certificate for all field welders who will be welding on this project. | Y | S | AWS D1.1 | SI1 | PE/SE or EIT | |
| 6. Inspection of welding (IBC 1704.3.1): | | | | | | |
| a. Structural steel: 1) Complete and partial joint penetration groove welds. | V | | | TA1 | A WIG CONT | |
| 2) Multipass fillet welds. | Y Y | C C | - | TA1 | AWS-CWI AWS-CWI | |
| 3) Single-pass fillet welds> 5/16" | Y | С | AWS D1.1 | TA1 | AWS-CWI AWS-CWI | |
| 4) Plug and slot welds | Y | <u>с</u> | 11,10 D1.1 | TA1 | AWS-CWI | |
| 5) Single-pass fillet welds≤ 5/16" | Y | <u>Р</u> | | TA1 | AWS-CWI | |
| 6) Roof and deck welds. | N | P | | | | |
| 7. Inspection of steel frame joint details for compliance (IBC Sect 1704.3.2) with approved construction documents: | | | | | | |
| a. Details such as bracing and stiffening. | Y | Р | | SI1 | PE/SE or EIT | |
| b. Member locations. | Y | Р | IBC 1704.3.2 | SI1 | PE/SE or EIT | |
| c. Application of joint details at each connection. | | Р | | SI1 | PE/SE or EIT | |

Project: Parking Deck Mixed Use Development Date Prepared: March 17, 2016 Structural Schedule of Special Inspection Services FABRICATION AND IMPLEMENTATION PROCEDURES – STRUCTURAL STEEL

| VERIFICATION AND INSPECTION IBC Section 1704.2 | <u>REQD</u> Y/N | EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE | COMMENTS | AGENT | AGENT QUALIFICATION | TASK COMPLETED |
|---|--------------------|--|--|-------|------------------------|-------------------|
| Fabrications Procedures: Review of fabricator's written procedural and quality control manuals and periodic auditing of fabrication practices by an approved special inspection agency. At the completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents. -OR- 2. AISC Certification | | S | Fabricator shall submit one of the two qualifications | SI1 | PE/SE or EIT | |
| 3. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents. | | S | IBC 1704.2.2 | SI1 | PE/SE or EIT | |

Structural Schedule of Special Inspection Services FABRICATION AND IMPLEMENTATION PROCEDURES – PRECAST/PRESTRESSED CONCRETE

| VERIFICATION AND INSPECTION IBC Section 1704.2 | <u>REQD</u> Y/N | EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE | COMMENTS | AGENT | AGENT QUALIFICATION | TASK COMPLETED |
|--|--------------------|--|--|-------|------------------------|-------------------|
| 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- PCI Certified Plant Group C or CA, Category C3 or C3A prestresed straight strand structural members | | S | Fabricator shall submit one of the two qualifications | SI1 | PE/SE or EIT | |
| 3. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents. | | S | IBC 1704.2.2 | SI1 | PE/SE or EIT | |

Structural Schedule of Special Inspections SEISMIC RESISTANCE - STRUCTURAL

| VERIFICATION AND INSPECTION | REQD Y/N | <u>EXTENT:</u> CONTINUOU | COMMENTS | AGENT | AGENT QUALIFICATION | TASK COMPLETE |
|---|-------------|--|---|-------|------------------------|------------------|
| IBC Section 1707 Seismic Design Category B – Therefore Not Required | | S, PERIODIC, SUBMITTAL, OR NONE | | | | 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 | | | | | |
| b. Designated seismic systems in structures assigned to Seismic Design Category D, E, or F. | Ν | | | | | |
| 2. Structural steel: Continuous special inspection for structural welding in accordance with AISC 341. | N | | | | | |
| 3. Structural wood: | | | | | | |
| a. Continuous special inspection during field gluing operations of elements of the seismic-force-resist- ing system. | N | | | | | |
| 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 | | | | | |
| 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]

| a • • | D · | α |
|--------------|------------|----------|
| Seismic | Design | Category |
| Seisinie | Pesign | Cattgory |

☐ <u>FOR SEISMIC DESIGN CATEGORY C OR HIGHER:</u> 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)

B

Shear walls: CMU Wood Concrete

🗌 Diaphragms: 🗌 Floor 🗌 Roof

Other:

WIND RESISTANCE CHECK LIST [IBC 1705.4] Wind Exposure Category C

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

Fabricator's Certificate of Compliance

Each approved fabricator that is exempt from Special Inspection of shop fabrication and implementation procedures per section 1704.2 of the International Building Code must submit a *Fabricator's Certificate of Compliance* at the completion of fabrication.

Project:

Fabricator's Name:

Address:

Certification or Approval Agency:

Certification Number:

Date of Last Audit or Approval:

Description of structural members and assemblies that have been fabricated:

I hereby certify that items described above were fabricated in strict accordance with the approved construction documents.

Signature

Date

Title

Attach copies of fabricator's certification or building code evaluation service report and fabricator's quality control manual

End of Structural Statement of Special Inspections