BECKER
STRUCTURAL ENGINEERS

Structural Special Inspections Report

UNE Goddard Hall Renovation

Portland, Maine
October 27, 2011

Report Prepared by:

Structural Engineer of Record
Becker Structural Engineers, Inc.
75 York Street
Portland, ME 04101
207. 879. 1838

BECKER
STRUCTURAL ENGINEERS

UNE Goddard Hall Renovation

Portland, Maine
October 27, 2011

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Special Inspections – Exhibit A

Statement of Special Inspections
List of Agents
Final Report of Special Inspections
Special Inspector/Agent Report

Structural Statement of Special Inspections

Project: *University of New England - Goddard Hall Renovation*

Location: *Portland, Maine*

Owner: *Univeristy of New England*

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

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

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

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

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

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

Interim Report Frequency: ☒ *Upon request of Building Official* _____ or ☐ per attached schedule.

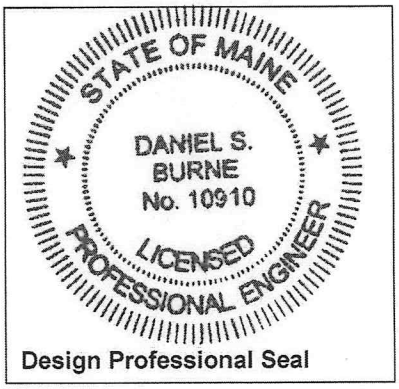
Prepared by:

Daniel S. Burne, P.E.

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

Signature

10-8-10
Date



Design Professional Seal

Owner's Authorization:

Signature Date

Building Code Official's Acceptance:

Signature Date

Structural Statement of Special Inspections (Continued)

List of Agents

Project: *University of New England - Goddard Hall Renovation*

Location: *Portland, Maine*

Owner: *Univeristy of New England*

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

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

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

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

Special Inspection Agencies	Firm	Address, Telephone, e-mail
1. **STRUCTURAL Special Inspections Coordinator (SSIC)**	*Becker Structural Engineers, Inc.*	*75 York St.* *Portland, ME 04101* *207-879-1838* *info@beckerstructural.com*
2. Special Inspector (SI 1)	*Becker Structural Engineers, Inc.*	*75 York St.* *Portland, ME 04101* *207-879-1838* *info@beckerstructural.com*
3. Special Inspector (SI 2)	~~*To Be Determined*~~ SUMMIT ENVIRONMENTAL	640 MAIN ST. LEWISTON, ME 04240 207-576-3313
4. Testing Agency (TA 1)	~~*To Be Determined*~~ SUMMIT ENVIRONMENTAL	do
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 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: *University of New England - Goddard Hall Renovation*

Location: *Portland, Maine*

Owner: *Univeristy of New England*

Owner's Address: *11 Hills Beach Rd.*
Biddeford, ME 04005

Architect of Record: *Lita Semrau* (name) — *Port City Architecture* (firm)

Structural Registered Design Professional in Responsible Charge: *Daniel S. Burne, P.E.* (name) — *Becker Structural Engineers, Inc.* (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.

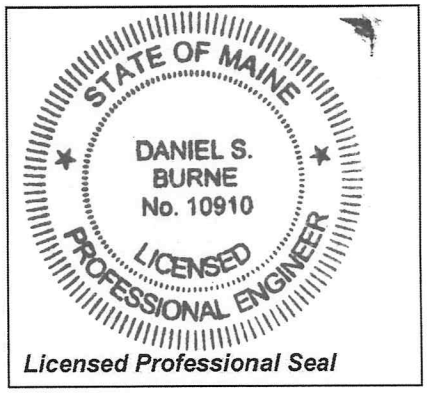
Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

Respectfully submitted,
Structural Special Inspection Coordinator

DANIEL S. BURNE
(Type or print name)

BECKER STRUCTURAL ENGINEERS
(Firm Name)

Signature — Date: 10/28/11



Licensed Professional Seal

Structural Statement of Special Inspections (Continued)

Special Inspector's/Agent's Final Report

Project: *University of New England - Goddard Hall Renovation*

Special Inspector or Agent: William Peterlein (name) Summit Geoengineering Services (firm)

Designation: SI-2

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:

William Peterlein
(Type or print name)

[signature] 10-26-2011
Signature Date

Licensed Professional Seal or
Certification Number

Structural Statement of Special Inspections (Continued)

Special Inspector's/Agent's Final Report

Project: *University of New England - Goddard Hall Renovation*

Special inspector or Agent: DARRELL A. GILMAN (name) SUMMIT ENVIRONMENTAL (firm)

Designation: TA-1

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:

DARRELL A. GILMAN - CMT MANAGER
(Type or print name)

Darrell A. Gilman OCTOBER 11, 2011
Signature Date

SEAL NOT REQUIRED FOR TESTING AGENCY

Licensed Professional Seal or Certification Number

Special Inspections – Exhibit B

Qualifications of Inspectors and Test Agency
List of Minimum Qualifications
Schedule of Structural Inspections

01000.5 Disclaimers and Qualifications

The program of Structural/Special Tests and Inspections does not relieve the Contractor or its Subcontractors of their responsibilities and obligations for quality control of the work, for any design work which is included in the scope of services, and for full compliance with the requirements of the Construction Documents. Furthermore, the detection of, or the failure to detect, deficiencies or defects in work during testing and inspection conducted pursuant to the Program does not relieve the Contractor or its subcontractors of their responsibility to correct all deficiencies or defects, whether detected or undetected, in all parts of work, and to otherwise comply with all requirements of the Construction Documents. No warrantee is expressed or implied by the issuance of this document. Additional disclaimers and/or qualifications may be included in the Owner-Special Inspection agreement.

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	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

Special Inspections – Exhibit B

02000 Soils and Foundations

Project: University of New England – Goddard Hall Renovation
Date Prepared: 10/8/2010

Structural Schedule of Special Inspections

SOILS & FOUNDATION CONSTRUCTION

VERIFICATION AND INSPECTION IBC Section 1704.7, 1704.8, 1704.9	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Verify existing soil conditions, fill placement and load bearing requirements						
a. Prior to placement of prepared fill, determine that the site has been prepared in accordance with the approved soils report.	Y	P	IBC 1704.7.1	SI-2	PE/GE, EIT or ETT	3/11
b. During placement and compaction of fill material, verify material being used and maximum lift thickness comply with the approved soils report.	Y	P	IBC 1704.7.2	SI-2	PE/GE, EIT or ETT	3/11
c. Test in-place dry density of compacted fill complies with the approved soils report.	Y	p	IBC 1704.7.2	TA-1	PE/GE, EIT or ETT	7/11
2. Pile foundations:						
a. Observe and record procedures for static load testing of piles.	N	C	IBC 1704.8		PE/GE, EIT or ETT	
b. Observe and record procedures for dynamic load testing of piles.	N	C			PE/GE, EIT or ETT	
c. Record installation of each pile and results of load test. Include cutoff and tip elevations of each pile relative to permanent reference.	N	C			PE/GE, EIT or ETT	
d. Test welded splices of steel piles	N	C	AWS D1.1		AWS-CWI	
3. Pier foundations: Verify installation of pier foundations for buildings assigned to Seismic Design Category C, D, E or F.	N	C	IBC 1704.9		PE/GE, EIT or ETT	
a. Verify pier diameter and length	N	C			PE/GE, EIT or ETT	
b. Verify pier embedment (socket) into bedrock	N	P			PE/GE, EIT or ETT	
c. Verify suitability of end bearing strata	N	P			PE/GE, EIT or ETT	

SUMMIT
GEOENGINEERING SERVICES

March 18, 2011
Summit #11060

Al Thibeau
University of New England
11 Hills Beach Road
Biddeford, Maine 04005

Reference: Building Interior Subgrade Geotechnical Investigation
Goddard Hall, UNE, Portland, Maine

Dear Al;

I made a visit to the above site on March 17, 2011 to observe the existing soil on the inside of the building. I was accompanied during my subgrade inspection by Dave Barczak of Allied Cook Construction.

The interior slab was removed and the existing subgrade exposed. The soil inside the building was exposed to approximately 5 inches below the removed slab or elevation 89'- 4". The soil consisted primarily of medium to coarse sand with a little gravel and silt. The upper 4 to 6 inches of soil was very loose. The soil in the southeast corner of the building consisted of approximately 18 inches of fine sand mixed with coal ash, slag, and other coal by products, over a medium to coarse brown sand, presumed to be the native glacial outwash deposit The sand was in a loose to compact condition. No groundwater was observed inside the building area.

The following subgrade preparation recommendations apply to the footprint of the three interior column footings, the stairwell footing and two side shear wall footings, and the new floor slab.

The three interior column footings will be constructed at elevation 87 '– 7", or approximately 21 inches below the exposed soil surface. The soil at this elevation consists of the native sand in a loose condition. In order to provide a firm stable base for the footings, we recommend that they be constructed on 6 inches of compacted ¾ inch crushed stone placed directly on the proofrolled sand soil. Proofrolling should consist of a minimum of 5 passes using a vibratory plate compactor.

The stairwell and two side shear wall footings will be constructed at elevation 86'-3", or approximately 3 feet below the exposed soil surface. We anticipate that the soil at this depth will consist of the native outwash sand deposit. We recommend that the subgrade soil beneath these footings be proofrolled. The footings can be constructed directly on the proofrolled native sand.

The new 4 inch thick slab will be constructed at elevation 89'-9". The bottom of the slab will be approximately 1 inch above the exposed soil, which is very loose at the surface. We recommend that the exposed loose sand be removed down to elevation 88'-5" and be replaced with 12 inches of Compacted Granular Fill (CGF), as specified in the geotechnical report. The existing subgrade soil should be proofrolled prior to placing the CGF. We recommend that the coal ash and slag fill in the southeast corner of the building be removed down to the native sand, anticipated to be at approximately elevation 87'-6", and be replaced with CGF, placed directly on the proofrolled sand soil.

We appreciate assisting you with this project. If there are any questions please do not hesitate to contact me.

Sincerely yours,
Summit Geoengineering Services, Inc.

William M. Peterlein, P.E.
President & Principal Engineer

SUMMIT ENVIRONMENTAL CONSULTANTS, INC.
434 Cony Road, Augusta, Maine 04330
Tel: (207) 621.8334 Fax: (207) 626.9094

SUMMIT GEOENGINEERING FIELD DENSITY RESULTS SUMMARY

PROJECT NO: _____

PROJECT NAME: _____

CLIENT: _____

Proctor Information:

Test Number	Date	Location:	Lift Elevation	Moisture Content %	In-place Density DD PCF	Maximum Density PCF	Percent Compaction	Required Compaction	Remarks
1	7/21/2011	Adjacent to Eastern Stairwell	FG	2.8	124.5	131	95.0	95	Pass
2	7/21/2011	10' in front of Eastern Stairwell	FG	3.8	127.3	131	97.2	95	Pass
3	7/21/2011	10' in front of Western Stairwell	FG	4	125.8	131	96.0	95	Pass
4	7/21/2011	Adjacent to Western Stairwell	FG	3.5	125.3	131	95.6	95	Pass
5	7/21/2011	Basement Center	FG	3.6	126.7	131	96.7	95	Pass

Remarks: _____

Summit
Environmental Consultants, Inc

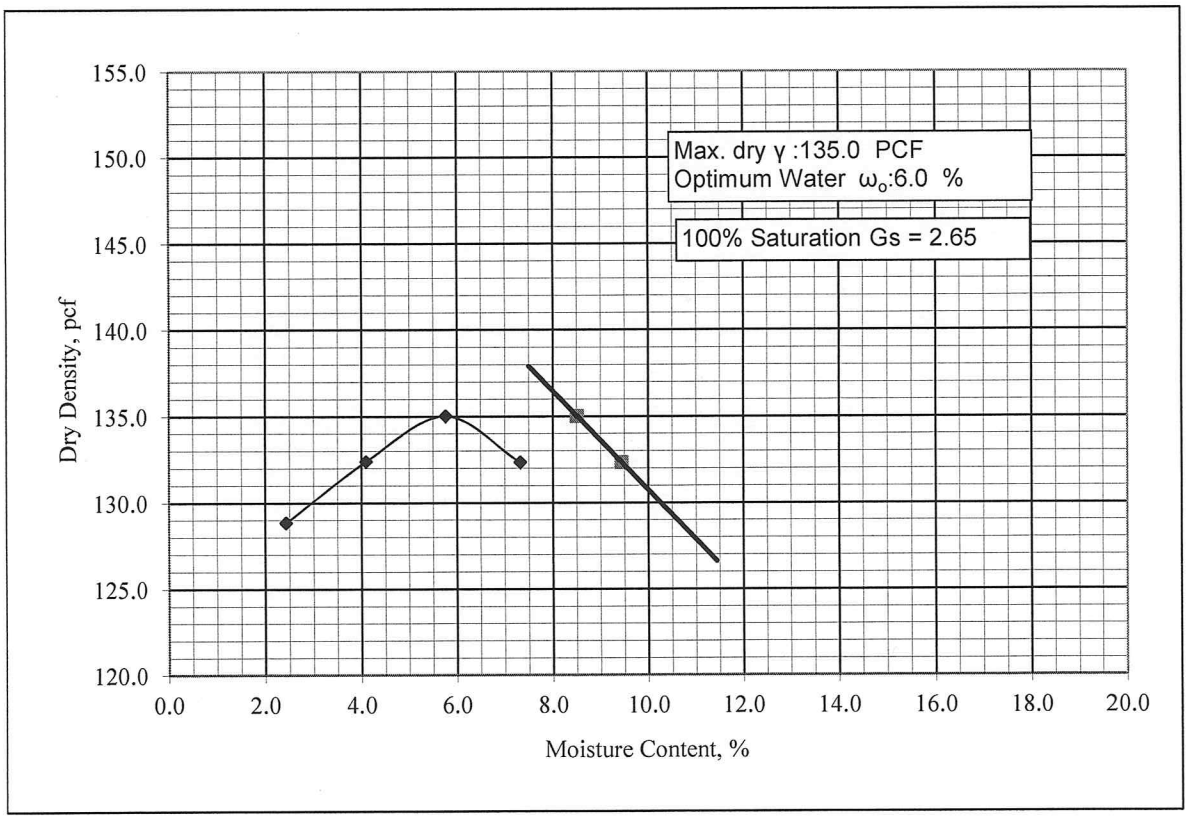
MOISTURE DENSITY TEST - ASTM D1557

PROJECT NAME:	UNE Goddard Hall, Portland	PROJECT #:	14497
CLIENT:	Leavitt Earthworks Co, Inc.	SAMPLE #:	S1
SOIL DESCRIPTION:	Structural Fill	DATE:	3/31/2011
INTENDED USE:	Aggregate Subbase	SOURCE:	Boundry Road Pit
		TECH.:	D. Gilman

DATA

Method:	C
Max. Particle Size (in):	3/4
Oversize Correction (%):	21

Moisture Content %	Dry Density, pcf
2.4	128.8
4.1	132.4
5.8	135.0
7.3	132.3



Remarks:

434 Cony Road, Augusta, Maine 04330
Phone:(207) 621-8334 Fax:(207) 626-9094

Reviewed: Darrell Gilman, CMT Manager
Date: 4/6/11

SUMMIT ENVIRONMENTAL CONSULTANTS, INC.
434 Cony Road, Augusta, ME 04330
PH: (207) 621-8334 FX (207) 626-9094

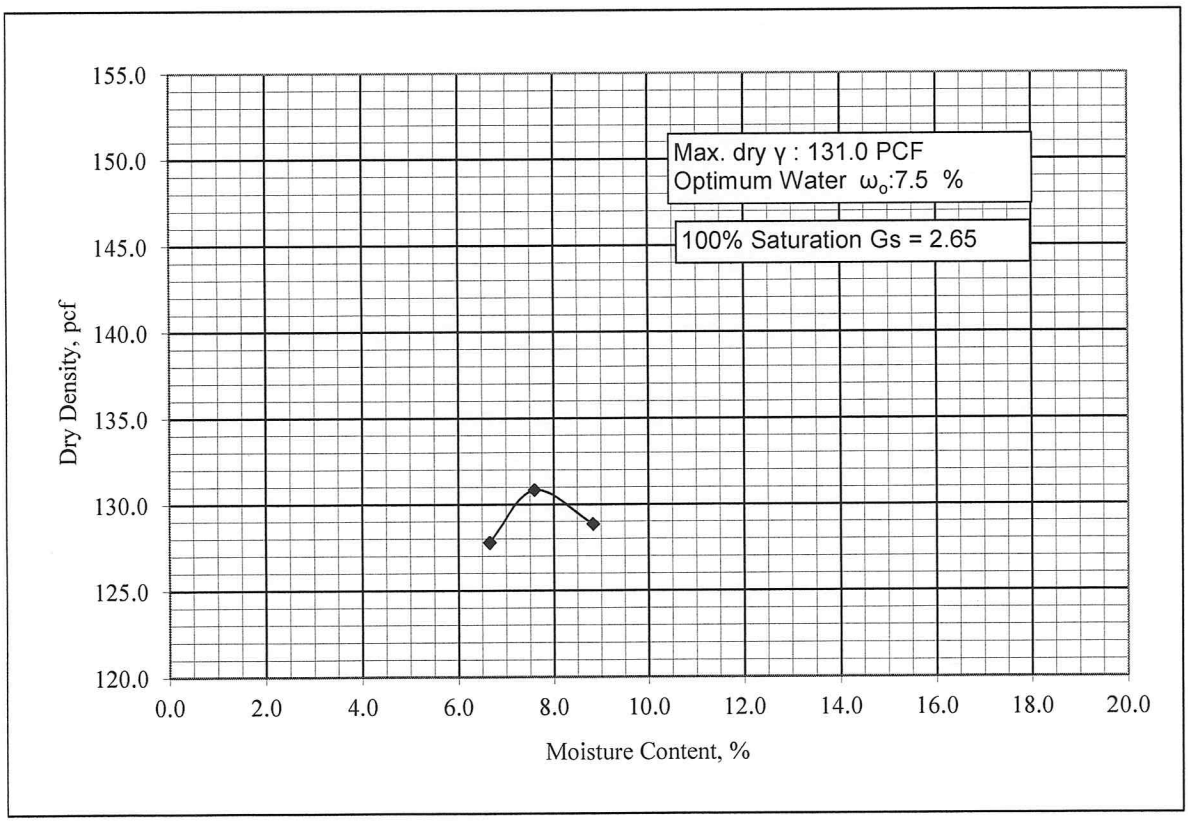
MOISTURE DENSITY TEST - ASTM D1557

PROJECT NAME:	UNE Goddard Hall	PROJECT #:	14497
CLIENT:	University of New England	SAMPLE #:	S2
SOIL DESCRIPTION:	Aggregate Subbase	DATE:	7/22/2011
INTENDED USE:	Subbase	SOURCE:	On Site
		TECH.:	M. Hardison

DATA

Method:	C
Max. Particle Size (in):	3/4
Oversize Correction (%):	14

Moisture Content %	Dry Density, pcf
6.7	127.8
7.6	130.8
8.8	128.9



Remarks:

Reviewed: Darrell Gilman, CMT Manager
Date: 7/22/11

Special Inspections – Exhibit B

03300 Cast in Place Concrete

Project: University of New England – Goddard Hall Renovation
Date Prepared: 10/8/2010

Structural Schedule of Special Inspections
CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION IBC Section 1704.4	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Inspection of reinforcing steel, including prestressing tendons, and placement	Y	P	ACI 318: 3.5, 7.1-7.7	SI-1	PE/SE or EIT	4/11 - 7/11
2. Inspection of reinforcing steel welding in accordance with Table 1704.3, Item 5B	N		Welding of Reinf Not Allowed		AWS-CWI	
3. Inspect bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased	N	C	IBC 1912.5		PE/SE or EIT	
4. Verifying use of required design mix	Y	P	ACI 318: Ch 4, 5.2-5.4	SI-1	PE/SE or EIT	4/11 - 7/11
5. At time fresh concrete is sampled to fabricate specimens for strength test, perform slump and air content test and temperature	Y	C	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	TA-1	ACI-CFTT or ACI-STT	4/11 - 8/11
6. Inspection of concrete and shotcrete placement for proper application techniques	Y	C	ACI 318: 5.9, 5.10	SI-1	PE/SE or EIT	4/11-7/11
7. Inspection for maintenance of specified curing temperature and techniques	Y	P	ACI 318: 5.11-5.13	SI-1	PE/SE or EIT	4/11 - 7/11
8. Inspection of Prestressed Concrete						
a. Application of prestressing force.	N	C	ACI 318: 18.20		PE/SE or EIT	
b. Grouting of bonded prestressing tendons in seismic force resisting system	N	C	ACI 318: 18.18.4		PE/SE or EIT	
9. Erection of precast concrete members	N	P	ACI 318: Ch 16		PE/SE or EIT	
10. Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms beans and structural slabs	N	P	ACI 318: 6.2		ACI-STT	

BECKER
STRUCTURAL ENGINEERS

Project:	UNE Goddard Hall
Location:	Portland, Maine
Becker Job No:	2518

OBSERVATION REPORT
Cast in Place Concrete

Date:	4-4-11
Time:	3:30 PM
Temp:	45 F
Weather:	Rain

Observation Location: Interior Footings - C2, D2, E2

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Reinforcement Size	☒	☐	☐	☐	
Quantity	☐	☐	☒	☐	1 bar to be installed at E2 - to be installed prior to placemnt
Condition	☒	☐	☐	☐	
Placement	☒	☐	☐	☐	
Embed/Anchors	☐	☐	☒	☐	AB Templates in place - not yet finalized
Lap Splices	☐	☐	☐	☒	
Hot Weather	☐	☐	☐	☒	
Cold Weather	☐	☐	☐	☒	
Bond Beams	☐	☐	☐	☒	
Additional Items	☐	☐	☐	☐	
Additional Items	☐	☐	☐	☐	

Notes:

Signed: Dan S. Burne, P.E.

BECKER
STRUCTURAL ENGINEERS

Project:	UNE Goddard Hall
Location:	Portland, Maine
Becker Job No:	2518

OBSERVATION REPORT
Cast in Place Concrete

Date:	5-17-11
Time:	3:00 PM
Temp:	50 F
Weather:	Rain

Observation Location: Interior Footings - CF2

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Reinforcement Size	☒	☐	☐	☐	
Quantity	☒	☐	☐	☐	
Condition	☒	☐	☐	☐	
Placement	☒	☐	☐	☐	
Embed/Anchors	☐	☐	☒	☐	See Below
Lap Splices	☒	☐	☐	☐	
Hot Weather	☐	☐	☐	☒	
Cold Weather	☐	☐	☐	☒	
Bond Beams	☐	☐	☐	☒	
Additional Items	☐	☐	☐	☐	
Additional Items	☐	☐	☐	☐	

Notes:
AB templates not yet installed, Masonry dowels not yet complete - gc to provide photos prior to placement.

Signed: Dan S. Burne, P.E.

BECKER
STRUCTURAL ENGINEERS

Project:	UNE Goddard Hall
Location:	Portland, Maine
Becker Job No:	2518

OBSERVATION REPORT
Cast in Place Concrete

Date:	5-23-11
Time:	12:00 PM
Temp:	50 F
Weather:	Rain

Observation Location: Shotcrete SW dogbone footings - 3 line

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Reinforcement Size	☒	☐	☒	☐	
Quantity	☒	☐	☐	☐	
Condition	☒	☐	☐	☐	
Placement	☒	☐	☐	☐	
Embed/Anchors	☐	☐	☒	☐	See Below
Lap Splices	☐	☐	☐	☒	
Hot Weather	☐	☐	☐	☒	
Cold Weather	☐	☐	☐	☒	
Bond Beams	☐	☐	☐	☒	
Additional Items	☐	☐	☐	☐	
Additional Items	☐	☐	☐	☐	

Notes:
Horizontal dowels for shearwall not hooked per 1/S8. Dowels were being changed out to hooked bars prior to inspector leaving site. Granite over D line footing requires additional chipping prior to shearwall placement.

Discussed CMU placment at A line. Granite protrudes into CMU space at base. Discussed offsetting base course to landing, grouting solid behind, and offsetting upper course in original position - all to be verified with architectural.

Signed: Dan S. Burne, P.E.

BECKER
STRUCTURAL ENGINEERS

Project:	UNE Goddard Hall
Location:	Portland, Maine
Becker Job No:	2518

OBSERVATION REPORT
Cast in Place Concrete

Date:	6-1-11
Time:	1:00 PM
Temp:	65 F
Weather:	Sunny

Observation Location: Shotcrete Reinforcement 3 line

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Reinforcement Size	☒	☐	☐	☐	
Quantity	☒	☐	☐	☐	
Condition	☒	☐	☐	☐	
Placement	☒	☐	☐	☐	
Embed/Anchors	☒	☐	☐	☐	
Lap Splices	☒	☐	☐	☐	
Hot Weather	☐	☐	☐	☒	
Cold Weather	☐	☐	☐	☒	
Bond Beams	☐	☐	☐	☒	
Additional Items	☐	☐	☐	☐	
Additional Items	☐	☐	☐	☐	

Notes:
Observed existing foundation construction may interfere with installation of stair A shaft. Recommended further investigation and layout be done to quantify issue.

Signed: Dan S. Burne, P.E.

BECKER
STRUCTURAL ENGINEERS

Project:	UNE Goddard Hall
Location:	Portland, Maine
Becker Job No:	2518

OBSERVATION REPORT
Cast in Place Concrete

Date:	6-14-11
Time:	12:00 PM
Temp:	65 F
Weather:	Rainy

Observation Location: Elevator shaft footing and shearwall footing CF1

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Reinforcement Size	☒	☐	☐	☐	
Quantity	☒	☐	☐	☐	
Condition	☒	☐	☐	☐	
Placement	☒	☐	☐	☐	
Embed/Anchors	☒	☐	☐	☐	
Lap Splices	☒	☐	☐	☐	
Hot Weather	☐	☐	☐	☒	
Cold Weather	☐	☐	☐	☒	
Bond Beams	☐	☐	☐	☒	
Additional Items	☐	☐	☐	☐	
Additional Items	☐	☐	☐	☐	

Notes:
Received detailed photos of reinforcement. No deficiencies noted.

Signed: Dan S. Burne, P.E.

BECKER
STRUCTURAL ENGINEERS

03300

Project:	UNE Goddard Hall
Location:	Portland, Maine
Becker Job No:	2518

OBSERVATION REPORT
Cast in Place Concrete

Date:	6-15-11
Time:	1:00 PM
Temp:	75 F
Weather:	Sunny

Observation Location: Elevator shaft / masonry shearwall MSW1 foundation wall including pier F.3-1.9

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Reinforcement Size	☒	☐	☐	☐	
Quantity	☒	☐	☒	☐	See Below
Condition	☒	☐	☐	☐	
Placement	☒	☐	☐	☐	
Embed/Anchors	☒	☐	☒	☐	
Lap Splices	☒	☐	☐	☐	
Hot Weather	☐	☐	☐	☒	
Cold Weather	☐	☐	☐	☒	
Bond Beams	☐	☐	☐	☒	
Additional Items	☐	☐	☐	☐	
Additional Items	☐	☐	☐	☐	

Notes:
Vertical bars at back of elevator shaft wall (G line) not per SKS 2. GC to add (4) #4 horizontal prior to placement. Additional #3 ties required at top of pier.

Signed: Dan S. Burne, P.E.

BECKER
STRUCTURAL ENGINEERS

Project:	UNE Goddard Hall
Location:	Portland, Maine
Becker Job No:	2518

OBSERVATION REPORT
Cast in Place Concrete

Date:	6-22-11
Time:	1:00 PM
Temp:	70 F
Weather:	Cloudy

Observation Location: Shotcret shearwall SSW2 footing and wall reinforcement

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Reinforcement Size	☒	☐	☐	☐	
Quantity	☒	☐	☒	☐	See Below
Condition	☒	☐	☐	☐	
Placement	☒	☐	☒	☐	See Below
Embed/Anchors	☒	☐	☒	☐	
Lap Splices	☒	☐	☐	☐	
Hot Weather	☐	☐	☐	☒	
Cold Weather	☐	☐	☐	☒	
Bond Beams	☐	☐	☐	☒	
Additional Items	☐	☐	☐	☐	
Additional Items	☐	☐	☐	☐	

Notes:
(1) additional tie required at footing, base of shearwall still in process. Photos of completed base to be provided prior to placement

Signed: Dan S. Burne, P.E.

BECKER
STRUCTURAL ENGINEERS

Project:	UNE Goddard Hall
Location:	Portland, Maine
Becker Job No:	2518

OBSERVATION REPORT
Cast in Place Concrete

Date:	7-21-11
Time:	1:30 PM
Temp:	70 F
Weather:	Cloudy

Observation Location: Basement slab on grade prep

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Reinforcement Size	☐	☐	☐	☒	
Quantity	☐	☐	☐	☒	
Condition	☐	☐	☐	☒	
Placement	☐	☐	☐	☒	
Embed/Anchors	☐	☐	☐	☒	
Lap Splices	☐	☐	☐	☒	
Hot Weather	☐	☐	☐	☒	
Cold Weather	☐	☐	☐	☒	
Bond Beams	☐	☐	☐	☒	
Additional Items	☐	☐	☐	☐	
Additional Items	☐	☐	☐	☐	

Notes:
Viewed prepared sub base and discussed slab placement. No discrepancies observed.

Signed: Dan S. Burne, P.E.

BECKER
STRUCTURAL ENGINEERS

Project:	UNE Goddard Hall
Location:	Portland, Maine
Becker Job No:	2518

OBSERVATION REPORT
Cast in Place Concrete

Date:	7-29-11
Time:	9:30 AM
Temp:	70 F
Weather:	Cloudy

Observation Location: History Room Exterior Slab frost walls

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Reinforcement Size	☒	☐	☒	☐	Verticals installed, no horiz at time of visit
Quantity	☒	☐	☒	☐	
Condition	☒	☐	☒	☐	
Placement	☒	☐	☒	☐	
Embed/Anchors	☐	☐	☒	☐	
Lap Splices	☐	☐	☒	☐	
Hot Weather	☐	☐	☐	☒	
Cold Weather	☐	☐	☐	☒	
Bond Beams	☐	☐	☐	☒	
Additional Items	☐	☐	☐	☐	
Additional Items	☐	☐	☐	☐	

Notes:
Reinforcement not complete at time of visit. Discussed remainder. GC to provide photos of completed reinforcement.

Signed: Dan S. Burne, P.E.

Summit Environmental Consultants, Inc.
434 Cony Road, Augusta, Maine 04330
Phone: (207) 621-8334 Fax: (207) 626-9094

Project Name: UNE Goddard Hall - Portland, Maine
Client: University of New England
Supplier: Auburn Concrete

Project Number: 14497
Mix Designation: 3/4" Aggregate
Design Strength: 3000psi

Cylinder Set Number	Date Cast	Slump (inches)	Air Content (%)	Concrete Temp. ^{0}F	7 Day Result (psi) AVG.	14 Day Result (psi)	28 Day Result (psi)	28 Day Result (psi)	28 Day AVG. (psi)	Range	Design Strength (PSI)	3 Test 28 Day Moving Ave.	28 Day Running Average	LOCATION OF PLACEMENT
C1	15-Feb	6	2	58	3020		4010	3960	3985	50	3,000		3985	History Room Floor Topping - First Floor Interior Slab
C2	6-Apr	5	6.9	72	2490		4350	4000	4175	350	3,000		4080	Interior Piers Line 2 & C, D, E
C3	18-May	7 3/4	7.2	62	3140		5040	4980	5010	60	3,000	4390	4390	Stairwell Footing Line B East End
C4	23-May	5	6.5	65	3450		5180	5130	5155	50	3,000	4780	4581	Northern Interior / Exterior Dogbone Footing
C5	14-Jun	4 1/2	5.1	68	3910		5840	5610	5725	230	3,000	5297	4810	Stairwell A Footing
C7	22-Jun	7	6.7	68	3270		4890	4660	4775	230	3,000	5218	4804	Footings E1, D1, Under Existin Foundation.
C8	5-Jul	7	3.5	77	3050		3980	3880	3930	100	3,000	4810	4679	First Floor Elevator Deck Slab
C9	7-Jul	7	2.3	76	3060		3750	3530	3640	220	3,000	4115	4549	Second Floor Elevated Deck Slab
C10	13-Jul	7 1/4	2.5	78	3160		4110	3810	3960	300	3,000	3843	4484	Third Floor Elevated Deck Slab
C11	25-Jul	7	2	81	2880		3740	3660	3700	80	3,000	3767	4406	Basement Floor Slab on Grade
C12	27-Jul	4 3/4	5.6	84	3130		4220	3910	4065	310	3,000	3908	4375	Exterior Porch Footing
C13	1-Aug	5	6	85	3010		4340	4210	4275	130	3,000	4013	4366	History Room Exterior Porch Firewall

FOR ACCEPTABLE CONCRETE, ACI STATES THAT THE AVERAGE OF ALL SETS OF THREE CONSECUTIVE STRENGTH TESTS EQUAL OR EXCEED THE SPECIFIED STRENGTH, AND THAT NO INDIVIDUAL STRENGTH TEST (AVERAGE OF TWO CYLINDERS) FALLS BELOW THE SPECIFIED STRENGTH BY MORE THAN 500 PSI.

Remarks: *Denotes slump after addition of superplasticizer.

Summit
Environmental Consultants, Inc

CONCRETE COMPRESSIVE STRENGTH TEST RESULTS - ASTM C39

Project No: 14497
Project: UNE Goddard Hall - Portland, Maine
Client: University of New England
11 Hills Beach Road
Biddeford, Maine 04005

Field Test Data

Set No.: C1
Placement Date: 15-Feb-11
Lab Rec'd Date: 16-Feb-11
Location: History Room Floor Topping - First Floor Interior Slab

Technician: N. Davis
Supplier: Auburn Concrete
Mix Designation: 3/4" Aggregate
Design Strength: 3000psi

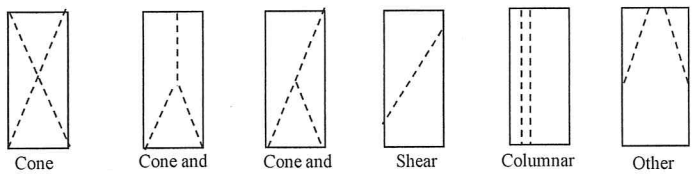
Slump (initial)		in.
Slump (placed)	6	in.
Air Content	2.0	%
Conc Temp.	58.0	°F
Air Temp.	20.0	°F
Volume (yds)	3.5	of 3.5

Admixture: Glenium 7500 (Mid-Range Water Reducer), Fibermesh, 1%-Pozzutec 20+

Laboratory Test Data

Sample No.	Test Date	Age	Type	Unit Wt.	Area (in^2)	Load (K)	Strength (psi)
C1a	22-Feb-11	7	3	147.4	28.27	85.4	3020
C1b	15-Mar-11	28	2	148.0	28.27	112.1	3960
C1c	15-Mar-11	28	3	147.1	28.27	113.4	4010
C1d							

Average 28 Day (psi): 3985



Remarks:

434 Cony Road, Augusta, Maine 04330
Phone: (207) 621-8334 Fax: (207) 626-9094

Reviewed: Darrell Gilman, CMT Manager
Date:3-15-11

Summit
Environmental Consultants, Inc

CONCRETE COMPRESSIVE STRENGTH TEST RESULTS - ASTM C39

Project No: 14497
Project: UNE Goddard Hall - Portland, Maine
Client: University of New England
11 Hills Beach Road
Biddeford, Maine 04005

Field Test Data

Set No.: C2
Placement Date: 6-Apr-11
Lab Rec'd Date: 7-Apr-11
Location: Interior Piers Line 2 & C, D, E

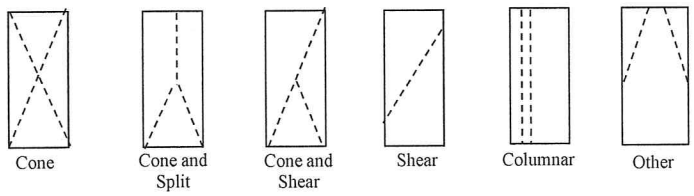
Technician: M. Walsh
Supplier: Auburn Concrete
Mix Designation: 3/4" Aggregate
Design Strength: 3000psi

Slump (initial)		in.
Slump (placed)	5	in.
Air Content	6.9	%
Conc Temp.	72.0	°F
Air Temp.	42.0	°F
Volume (yds)	3.0	of 5.5
Admixture:	Mid-Range Water Reducer	

Laboratory Test Data

Sample No.	Test Date	Age	Type	Unit Wt.	Area (in^2)	Load (K)	Strength (psi)
C2a	13-Apr-11	7	3	137.4	28.24	70.4	2490
C2b	4-May-11	28	2	137.5	28.13	112.4	4000
C2c	4-May-11	28	2	138.6	28.09	122.3	4350
C2d							

Average 28 Day (psi): 4175



Remarks: _____

434 Cony Road, Augusta, Maine 04330
Phone: (207) 621-8334 Fax: (207) 626-9094

Reviewed: Darrell Gilman, CMT Manager
Date:5-5-11

Summit
Environmental Consultants, Inc

CONCRETE COMPRESSIVE STRENGTH TEST RESULTS - ASTM C39

Project No: 14497
Project: UNE Goddard Hall - Portland, Maine
Client: University of New England
11 Hills Beach Road
Biddeford, Maine 04005

Field Test Data

Set No.: C3
Placement Date: 18-May-11
Lab Rec'd Date: 19-May-11
Location: Stairwell Footing Line B East End

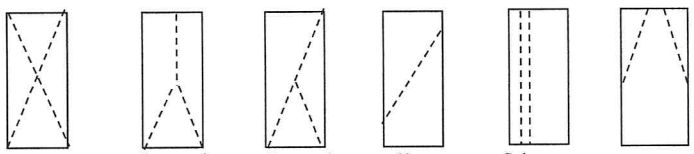
Technician: M. Hardison
Supplier: F.R. Carroll
Mix Designation: 3/4" Aggregate
Design Strength: 3000psi

Slump (initial)		in.	
Slump (placed)	7 3/4	in.	
Air Content	7.2	%	
Conc Temp.	62.0	°F	
Air Temp.	55.0	°F	
Volume (yds)	9.5	of	28.0
Admixture:	Superplasticizer		

Laboratory Test Data

Sample No.	Test Date	Age	Type	Unit Wt.	Area (in^2)	Load (K)	Strength (psi)
C3a	25-May-11	7	2	140.3	28.27	88.8	3140
C3b	15-Jun-11	28	4	139.6	28.27	142.4	5040
C3c	15-Jun-11	28	4	140.8	28.27	140.7	4980
C3d							
C3e							

Average 28 Day (psi): 5010



Remarks:

434 Cony Road, Augusta, Maine 04330
Phone: (207) 621-8334 Fax: (207) 626-9094

Reviewed: Darrell Gilman, CMT Manager
Date:6-15-11

Summit
Environmental Consultants, Inc

CONCRETE COMPRESSIVE STRENGTH TEST RESULTS - ASTM C39

Project No: 14497
Project: UNE Goddard Hall - Portland, Maine
Client: University of New England
11 Hills Beach Road
Biddeford, Maine 04005

Field Test Data

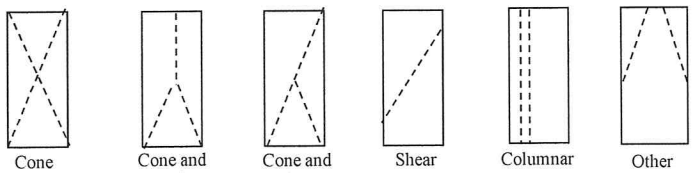
Set No.: C4
Placement Date: 23-May-11
Lab Rec'd Date: 24-May-11
Location: Northern Interior / Exterior
Dogbone Footings
Technician: M. Hardison
Supplier: F.R. Carroll
Mix Designation: 3/4" Aggregate
Design Strength: 3000psi

Slump (initial)	7	in.	
Slump (placed)	5	in.	
Air Content	6.5	%	
Conc Temp.	65.0	°F	
Air Temp.	63.0	°F	
Volume (yds)	6.5	of	12.5
Admixture:	Superplasticizer		

Laboratory Test Data

Sample No.	Test Date	Age	Type	Unit Wt.	Area (in^2)	Load (K)	Strength (psi)
C4a	30-May-11	7	4	142.0	28.27	97.6	3450
C4b	20-Jun-11	28	2	142.4	28.27	146.4	5180
C4c	20-Jun-11	28	1	141.9	28.27	144.9	5130
C4d	18-Jul-11	56	4	142.7	28.27	145.8	5160
C4e							

Average 28 Day (psi): 5155



Remarks:

434 Cony Road, Augusta, Maine 04330
Phone: (207) 621-8334 Fax: (207) 626-9094

Reviewed: Darrell Gilman, CMT Manager
Date:6-20-11

Summit
Environmental Consultants, Inc

CONCRETE COMPRESSIVE STRENGTH TEST RESULTS - ASTM C39

Project No: 14497
Project: UNE Goddard Hall - Portland, Maine
Client: University of New England
11 Hills Beach Road
Biddeford, Maine 04005

Field Test Data

Set No.: C5
Placement Date: 14-Jun-11
Lab Rec'd Date: 15-Jun-11
Location: Stairwell A Footing

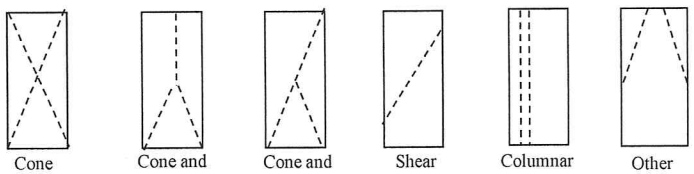
Technician: M. Hardison
Supplier: F.R. Carroll
Mix Designation: 3/4" Aggregate
Design Strength: 3000psi

Slump (initial)		in.	
Slump (placed)	4 1/2	in.	
Air Content	5.1	%	
Conc Temp.	68.0	°F	
Air Temp.	68.0	°F	
Volume (yds)	8.0	of	32.0
Admixture:	Superplasticizer		

Laboratory Test Data

Sample No.	Test Date	Age	Type	Unit Wt.	Area (in^2)	Load (K)	Strength (psi)
C5a	21-Jun-11	7	4	142.0	28.27	110.7	3910
C5b	12-Jul-11	28	2	142.8	28.27	165.0	5840
C5c	12-Jul-11	28	3	142.1	28.27	158.8	5610
C5d	9-Aug-11	56	4	143.0	28.27	168.0	5940
C5e							

Average 28 Day (psi): 5725



Remarks: * A 5,000psi design was used

434 Cony Road, Augusta, Maine 04330
Phone: (207) 621-8334 Fax: (207) 626-9094

Reviewed: Darrell Gilman, CMT Manager
Date:8-10-11

Summit
Environmental Consultants, Inc

CONCRETE COMPRESSIVE STRENGTH TEST RESULTS - ASTM C39

Project No: 14497
Project: UNE Goddard Hall - Portland, Maine
Client: University of New England
11 Hills Beach Road
Biddeford, Maine 04005

Field Test Data

Set No.: C6
Placement Date: 15-Jun-11
Lab Rec'd Date: 16-Jun-11
Location: Stairwell A Interior Wall

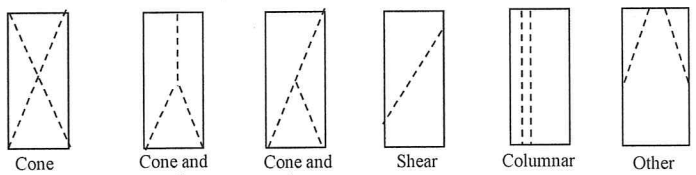
Technician: MH
Supplier: F.R. Carroll
Mix Designation: 3/4" Aggregate
Design Strength: 5000psi

Slump (initial)		in.
Slump (placed)	5	in.
Air Content	3.0	%
Conc Temp.	79.0	°F
Air Temp.	70.0	°F
Volume (yds)	5.0	of 9.0
Admixture:	Polyheed 997, Pozzutec 20	

Laboratory Test Data

Sample No.	Test Date	Age	Type	Unit Wt.	Area (in^2)	Load (K)	Strength (psi)
C6a	16-Jun-11	1	4	145.4	28.27	50.9	1800
C6b	16-Jun-11	1	4	145.0	28.37	71.4	2520
C6c							
C6d	22-Jun-11	7	5	145.5	28.27	134.0	4740
C6e	13-Jul-11	28	6	145.4	28.27	156.8	5550
C6f	13-Jul-11	28	6	145.3	28.13	157.3	5590

Average 28 Day (psi): 5570



Remarks: Aj 5000psi Design Strength Was Used

434 Cony Road, Augusta, Maine 04330
Phone: (207) 621-8334 Fax: (207) 626-9094

Reviewed: Darrell Gilman, CMT Manager
Date:7-13-11

Summit
Environmental Consultants, Inc

CONCRETE COMPRESSIVE STRENGTH TEST RESULTS - ASTM C39

Project No: 14497
Project: UNE Goddard Hall - Portland, Maine
Client: University of New England
11 Hills Beach Road
Biddeford, Maine 04005

Field Test Data

Set No.: C7
Placement Date: 22-Jun-11
Lab Rec'd Date: 23-Jun-11
Location: Footings at E1 & D1 Under Existing Foundation

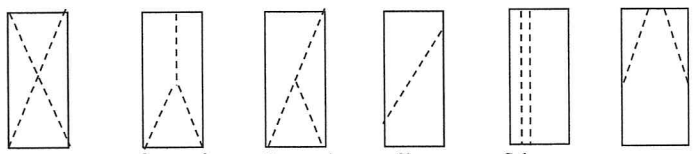
Technician: J. Rouillard
Supplier: F.R. Carrol
Mix Designation: 3/4" Aggregate
Design Strength: 3000psi

Slump (initial)		in.	
Slump (placed)	7	in.	
Air Content	6.7	%	
Conc Temp.	68.0	°F	
Air Temp.	80.0	°F	
Volume (yds)	6.0	of	12.0
Admixture:	Superplasticizer		

Laboratory Test Data

Sample No.	Test Date	Age	Type	Unit Wt.	Area (in^2)	Load (K)	Strength (psi)
C7a	29-Jun-11	7	2	143.2	28.27	92.4	3270
C7b	20-Jul-11	28	4	143.0	28.27	138.4	4890
C7c	20-Jul-11	28	4	143.9	28.27	131.9	4660
C7d							

Average 28 Day (psi): 4775



Remarks:

434 Cony Road, Augusta, Maine 04330
Phone: (207) 621-8334 Fax: (207) 626-9094

Reviewed: Darrell Gilman, CMT Manager
Date:7-20-11

Summit
Environmental Consultants, Inc

CONCRETE COMPRESSIVE STRENGTH TEST RESULTS - ASTM C39

Project No: 14497
Project: UNE Goddard Hall - Portland, Maine
Client: University of New England
11 Hills Beach Road
Biddeford, Maine 04005

Field Test Data

Set No.: C8
Placement Date: 5-Jul-11
Lab Rec'd Date: 6-Jul-11
Location: First Floor Elevator Deck Slab

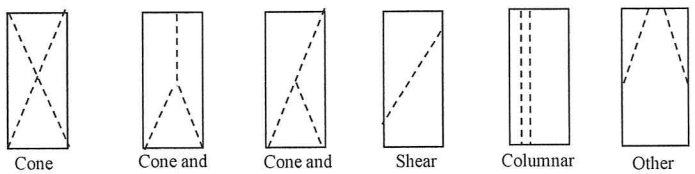
Technician: M. Hardison
Supplier: F.R. Carroll
Mix Designation: 3/4" Aggregate
Design Strength: 3000psi

Slump (initial)		in.	
Slump (placed)	7	in.	
Air Content	3.5	%	
Conc Temp.	77.0	°F	
Air Temp.	77.0	°F	
Volume (yds)	10.0	of	37.0
Admixture:	Superplasticizer		

Laboratory Test Data

Sample No.	Test Date	Age	Type	Unit Wt.	Area (in^2)	Load (K)	Strength (psi)
C8a	12-Jul-11	7	2	143.8	28.27	81.6	2890
C8b	12-Jul-11	7	4	144.2	28.27	86.3	3050
C8c	2-Aug-11	28	2	145.6	28.27	109.7	3880
C8d	2-Aug-11	28	2	144.9	28.27	112.7	3980
C8e							

Average 28 Day (psi): 3930



Remarks:

434 Cony Road, Augusta, Maine 04330
Phone: (207) 621-8334 Fax: (207) 626-9094

Reviewed: Darrell Gilman, CMT Manager
Date:8-3-11

Summit
Environmental Consultants, Inc

CONCRETE COMPRESSIVE STRENGTH TEST RESULTS - ASTM C39

Project No: 14497
Project: UNE Goddard Hall - Portland, Maine
Client: University of New England
11 Hills Beach Road
Biddeford, Maine 04005

Field Test Data

Set No.: C9
Placement Date: 7-Jul-11
Lab Rec'd Date: 8-Jul-11
Location: Second Floor Elevated Deck Slab

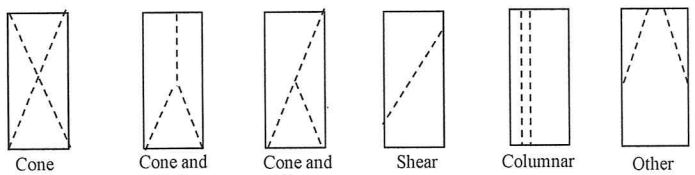
Technician: M. Hardison
Supplier: F.R. Carroll
Mix Designation: 3/4" Aggregate
Design Strength: 3000psi

Slump (initial)		in.
Slump (placed)	7	in.
Air Content	2.3	%
Conc Temp.	76.0	°F
Air Temp.	72.0	°F
Volume (yds)	9.0	of 35.0
Admixture:	High Range Water Reducer	

Laboratory Test Data

Sample No.	Test Date	Age	Type	Unit Wt.	Area (in^2)	Load (K)	Strength (psi)
C9a	14-Jul-11	7	1	60.8	28.44	87.0	3060
C9b	14-Jul-11	7	1	61.3	28.21	75.7	2690
C9c	4-Aug-11	28	2	146.4	28.27	106.2	3750
C9d	4-Aug-11	28	4	146.2	28.27	99.7	3530
C9e							

Average 28 Day (psi): 3640



Remarks:

434 Cony Road, Augusta, Maine 04330
Phone: (207) 621-8334 Fax: (207) 626-9094

Reviewed: Darrell Gilman, CMT Manager
Date:8-8-11

Summit
Environmental Consultants, Inc

CONCRETE COMPRESSIVE STRENGTH TEST RESULTS - ASTM C39

Project No: 14497
Project: UNE Goddard Hall - Portland, Maine
Client: University of New England
11 Hills Beach Road
Biddeford, Maine 04005

Field Test Data

Set No.: C10
Placement Date: 13-Jul-11
Lab Rec'd Date: 14-Jul-11
Location: Third Floor Elevated Deck Slab

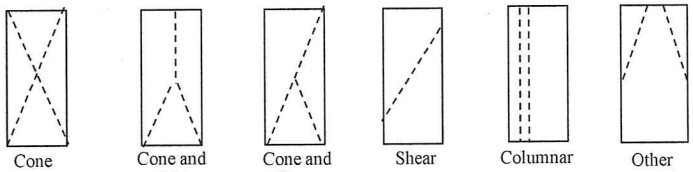
Technician: M. Hardison
Supplier: F.R. Carroll
Mix Designation: 3/4" Aggregate
Design Strength: 3000psi

Slump (initial)		in.
Slump (placed)	7 1/4	in.
Air Content	2.5	%
Conc Temp.	78.0	°F
Air Temp.	75.0	°F
Volume (yds)	10.0	of 35.0
Admixture:	High-Range Water Reducer	

Laboratory Test Data

Sample No.	Test Date	Age	Type	Unit Wt.	Area (in^2)	Load (K)	Strength (psi)
C10a	20-Jul-11	7	2	147.7	28.27	88.8	3140
C10b	20-Jul-11	7	4	146.4	28.27	89.4	3160
C10c	10-Aug-11	28	3	145.9	28.27	116.2	4110
C10d	10-Aug-11	28	3	146.9	28.27	107.8	3810
C10e							

Average 28 Day (psi): 3960



Remarks: _____

434 Cony Road, Augusta, Maine 04330
Phone: (207) 621-8334 Fax: (207) 626-9094

Reviewed: Darrell Gilman, CMT Manager
Date:8-11-11

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CONCRETE COMPRESSIVE STRENGTH TEST RESULTS - ASTM C39

Project No: 14497
Project: UNE Goddard Hall - Portland, Maine
Client: University of New England
11 Hills Beach Road
Biddeford, Maine 04005

Field Test Data

Set No.: C11
Placement Date: 25-Jul-11
Lab Rec'd Date: 26-Jul-11
Location: Basement Floor Slab on Grade

Technician: M. Hardison
Supplier: F.R. Carroll
Mix Designation: 3/4" Aggregate
Design Strength: 3000psi

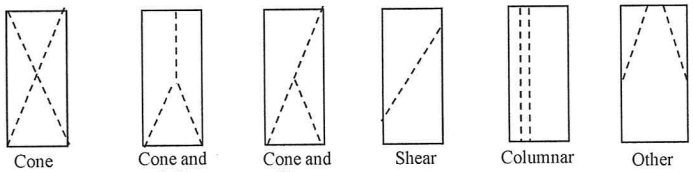
Slump (initial)		in.
Slump (placed)	7	in.
Air Content	2.0	%
Conc Temp.	81.0	°F
Air Temp.	72.0	°F
Volume (yds)	10.0	of 40.0

Admixture: Glenium 7500 (Mid-Range Water Reducer), Fiber Reinforcing

Laboratory Test Data

Sample No.	Test Date	Age	Type	Unit Wt.	Area (in^2)	Load (K)	Strength (psi)
C11a	1-Aug-11	7	5	146.5	28.27	81.4	2880
C11b	22-Aug-11	28	6	147.0	28.27	103.5	3660
C11c	22-Aug-11	28	3	147.2	28.27	105.9	3740
C11d							

Average 28 Day (psi): 3700



Remarks: _____

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Reviewed: Darrell Gilman, CMT Manager
Date:8-22-11

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CONCRETE COMPRESSIVE STRENGTH TEST RESULTS - ASTM C39

Project No: 14497
Project: UNE Goddard Hall - Portland, Maine
Client: University of New England
11 Hills Beach Road
Biddeford, Maine 04005

Field Test Data

Set No.: C12
Placement Date: 27-Jul-11
Lab Rec'd Date: 28-Jul-11
Location: Exterior Porch Footing

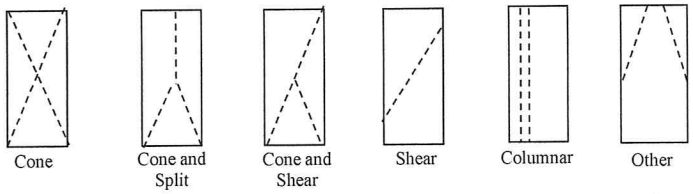
Technician: M. Hardison
Supplier: F.R. Carroll
Mix Designation: 3/4" Aggregate
Design Strength: 3000psi

Slump (initial)		in.
Slump (placed)	7 3/4	in.
Air Content	5.6	%
Conc Temp.	84.0	°F
Air Temp.	80.0	°F
Volume (yds)	2.5	of 2.5
Admixture:		

Laboratory Test Data

Sample No.	Test Date	Age	Type	Unit Wt.	Area (in^2)	Load (K)	Strength (psi)
C12a	3-Aug-11	7	4	143.9	28.27	88.5	3130
C12b	3-Aug-11	7	3	143.4	28.27	88.6	3130
C12c	24-Aug-11	28	4	143.8	28.27	119.2	4220
C12d	24-Aug-11	28	4	143.5	28.27	110.6	3910
C12e							

Average 28 Day (psi): 4065



Remarks: _____

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Reviewed: Darrell Gilman, CMT Manager
Date:8-25-11

Summit
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CONCRETE COMPRESSIVE STRENGTH TEST RESULTS - ASTM C39

Project No: 14497
Project: UNE Goddard Hall - Portland, Maine
Client: University of New England
11 Hills Beach Road
Biddeford, Maine 04005

Field Test Data

Set No.: C13
Placement Date: 1-Aug-11
Lab Rec'd Date: 3-Aug-11
Location: History Room Exterior Porch Frostwall

Technician: M. Gilman
Supplier: F.R. Carroll
Mix Designation: 3/4" Aggregate
Design Strength: 3000psi

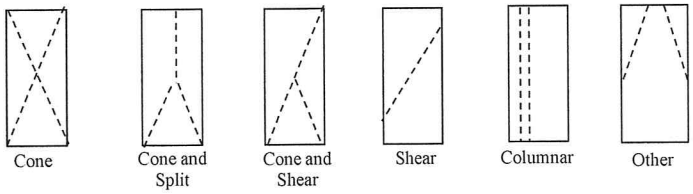
Slump (initial)	5 1/2	in.
Slump (placed)	5	in.
Air Content	6.0	%
Conc Temp.	85.0	°F
Air Temp.	80.0	°F
Volume (yds)	3.0	of 3.0

Admixture: Glenium 7500 (Mid-Range Water Reducer), MicroAir

Laboratory Test Data

Sample No.	Test Date	Age	Type	Unit Wt.	Area (in^2)	Load (K)	Strength (psi)
C13a	8-Aug-11	7	3	143.2	28.27	85.2	3010
C13b	29-Aug-11	28	2	143.8	28.27	122.6	4340
C13c	29-Aug-11	28	2	144.0	28.27	119.1	4210
C13d							

Average 28 Day (psi): 4275



Remarks: _____

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Reviewed: Darrell Gilman, CMT Manager
Date:8-30-11

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SHOTCRETE COMPRESSIVE STRENGTH TEST RESULTS - C1140

Project No: 14497
Project: UNE Goddard Hall - Portland, Maine
Client: University of New England
11 Hills Beach Road
Biddeford, Maine 04005

Field Test Data

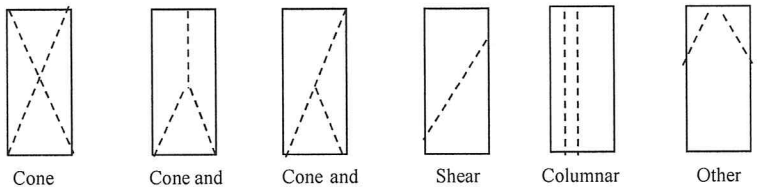
Set No.: SC1
Placement Date: 3-Jun-11
Lab Rec'd Date: 6-Jun-11
Location: North Building Side Goddard Hall
Technician: M. Hardison
Supplier: Auburn Concrete
Mix Designation: Shotcrete
Design Strength: 3000psi

Slump (inches)
Grout Temp. (^{0}F)
Air Temp. (^{0}F)

Laboratory Test Data

Sample No.	Test Date	Age	Type	Wt. (lb.)	Unit Wt.	Area (in^2)	Load (K)	Strength (psi)
SC1a	10-Jun-11	7	6	2.38	139.2	9.58	60.1	6270
SC1b	10-Jun-11	7	2	2.38	114.2	9.20	58.0	6300
SC1c	10-Jun-11	7	2	2.22	140.0	8.96	51.7	5760
SC1d	1-Jul-11	28	2	2.18	140.5	8.75	71.4	8170
SC1e	1-Jul-11	28	2	2.62	146.7	9.75	59.3	6080
SC1f	1-Jul-11	28	2	2.52	142.2	9.59	72.2	7530

Average 28 Day (psi): 7260



Remarks: _____

Review: Darrell Gilman, CMT Manager
Date: 7-6-11

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SHOTCRETE COMPRESSIVE STRENGTH TEST RESULTS - C1140

Project No: 14497
Project: UNE Goddard Hall - Portland, Maine
Client: University of New England
11 Hills Beach Road
Biddeford, Maine 04005

Field Test Data

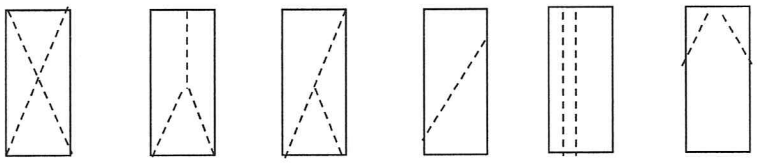
Set No.: SC2
Placement Date: 3-Jun-11
Lab Rec'd Date: 6-Jun-11
Location: North Side Goddard Hall Shotcrete
Technician: M. Hardison
Supplier: Auburn Concrete
Mix Designation: Shotcrete
Design Strength: 3000psi

Slump (inches)
Grout Temp. (^{0}F)
Air Temp. (^{0}F)

Laboratory Test Data

Sample No.	Test Date	Age	Type	Wt. (lb.)	Unit Wt.	Area (in^2)	Load (K)	Strength (psi)
SC2a	10-Jun-11	7	6	2.26	105.8	13.17	36.4	2760
SC2b	10-Jun-11	7	6	2.38	139.2	10.23	44.1	4310
SC2c	10-Jun-11	7	6	2.18	134.9	10.21	41.3	4040
SC2d	1-Jul-11	28	6	2.66	137.6	10.66	59.5	5580
SC2e	1-Jul-11	28	5	2.42	138.0	9.93	61.5	6200
SC2f	1-Jul-11	28	5	2.80	139.9	10.81	83.3	7710

Average 28 Day (psi): 6500



Remarks: _____

Review: Darrell Gilman, CMT Manager
Date:7-6-11

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SHOTCRETE COMPRESSIVE STRENGTH TEST RESULTS - C1140

Project No: 14497
Project: UNE Goddard Hall - Portland, Maine
Client: University of New England
11 Hills Beach Road
Biddeford, Maine 04005

Field Test Data

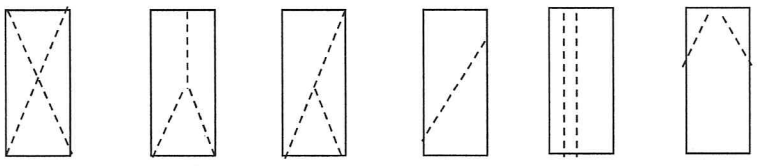
Set No.: SC3
Placement Date: 23-Jun-11
Lab Rec'd Date: 27-Jun-11
Location: Lower Level First Floor South
Technician:
Supplier: Auburn Concrete
Mix Designation: Shotcrete
Design Strength: 3000psi

Slump (inches)
Grout Temp. (^{0}F)
Air Temp. (^{0}F)

Laboratory Test Data

Sample No.	Test Date	Age	Type	Wt. (lb.)	Unit Wt.	Area (in^2)	Load (K)	Strength (psi)
SC3a	30-Jun-11	7	5	2.40	152.9	9.01	63.6	7060
SC3b	30-Jun-11	7	5	2.22	142.7	8.96	59.2	6600
SC3c	21-Jul-11	28	5	2.41	151.3	9.17	68.1	7430
SC3d	21-Jul-11	28	5	2.14	138.6	8.88	56.6	6370

Average 28 Day (psi): 6900



Remarks: _____

Review: Darrell Gilman, CMT Manager
Date: 7-21-11

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SHOTCRETE COMPRESSIVE STRENGTH TEST RESULTS - C1140

Project No: 14497
Project: UNE Goddard Hall - Portland, Maine
Client: University of New England
11 Hills Beach Road
Biddeford, Maine 04005

Field Test Data

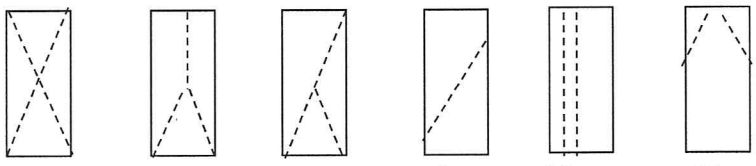
Set No.: SC4
Placement Date: 24-Jun-11
Lab Rec'd Date: 27-Jun-11
Location: Second and Third Floor South End Walls
Technician:
Supplier: Auburn Concrete
Mix Designation: Shotcrete
Design Strength: 3000psi

Slump (inches)
Grout Temp. (^{0}F)
Air Temp. (^{0}F)

Laboratory Test Data

Sample No.	Test Date	Age	Type	Wt. (lb.)	Unit Wt.	Area (in^2)	Load (K)	Strength (psi)
SC4a	1-Jul-11	7	5	2.12	136.3	8.94	50.4	5630
SC4b	1-Jul-11	7	5	2.10	134.5	9.01	39.7	4400
SC4c	22-Jul-11	28	5	2.04	131.2	9.17	60.5	6610
SC4d	22-Jul-11	28	5	2.08	134.9	9.06	62.1	6860

Average 28 Day (psi): 6735



Remarks: _____

Review: Darrell Gilman, CMT Manager
Date: 7-22-11

SUMMIT ENVIRONMENTAL CONSULTANTS, INC.
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TABLE OF CONTENTS

PROJECT NO: 14497
PROJECT NAME: University of New England - Goddard Hall
CLIENT: Allied/Cook Construction

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Summit
Environmental Consultants, Inc

DAILY FIELD REPORT

Date: 8/3/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Cylinder Pick Up

Work Activities: Retrieved one set of concrete test cylinders cast on 8/1/11. Returned them to the laboratory for controlled storage and compressive strength testing.

Test Results:

Remarks:

Portal to Portal		**Expenses**		**Signed:**	Mathew Hardison
Leave:	10:00	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	11:00	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	1	Other:			Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 8/4/11

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DAILY FIELD REPORT

Date: 8/1/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Concrete Testing Services

Work Activities: Performed concrete testing on the 3 c.y. pour for the History room exterior porch frost wall. All concrete was 3000psi, 3/4" stone mix. Concrete was supplied by F.R. Carroll and placed via tailgate by a crew from Newman Concrete.
One set of 4 concrete test specimens was cast and placed into on-site storage to be picked up at a later date for controlled storage and compressive strength testing.

Test Results:
Slump: 5"
Air Content: 6.0%
Concrete Temperature: 85 deg F
Air Temp: 80 deg F

Remarks:

Portal to Portal		**Expenses**		**Signed:**	Matthew Gilman
Leave:	11:00	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	14:30	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	3.5	Other:			Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 8/4/11

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DAILY FIELD REPORT

Date: 7/28/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Cylinder Pick Up

Work Activities: Retrieved one set of concrete test cylinders cast on 7/27/11. Returned them to the laboratory for controlled storage and compressive strength testing.

Test Results:

Remarks:

Portal to Portal		**Expenses**		**Signed:**	Mathew Hardison
Leave:	12:00	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	1:00	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	1	Other:			Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 7/29/11

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DAILY FIELD REPORT

Date: 7/27/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Concrete Testing Services

Work Activities: Performed concrete testing on the 2.5 c.y. pour for the exterior porch footing. All concrete was 3000psi, 3/4" stone mix. The concrete was supplied and delivered by F. R. Carroll and was placed into formwork via pump truck. A crew from Newman Concrete placed the concrete.
One set of 5 cylinders was cast and placed into on-site storage to be picked up at a later date for controlled storage and compressive strength testing.

Test Results:
Slump: 4 3/4"
Air Content: 5.6%
Concrete Temperature: 84 deg F
Air Temp: 80 deg F

Remarks:

Portal to Portal		**Expenses**		**Signed:**	Mathew Hardison
Leave:	1:00	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	3:30	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	2.5	Other:			Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 7/28/11

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DAILY FIELD REPORT

Date: 7/26/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Cylinder Pick Up

Work Activities: Retrieved one set of concrete test cylinders cast on 7/25/11. Returned them to the laboratory for controlled storage and compressive strength testing.

Test Results:

Remarks:

Portal to Portal		**Expenses**		**Signed:**	Matthew Pellerin
Leave:	1:15pm	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	2:15pm	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	1	Other:	Tolls: 2.75		Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 7/28/11

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DAILY FIELD REPORT

Date: 7/25/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Concrete Testing Services

Work Activities: Performed concrete testing on the 40 c.y. pour for the basement slab on grade. All concrete was 3000psi, 3/4" stone mix containing Glenium 7500 and Fiber Reinforcing Composite. The concrete was supplied and delivered by F. R. Carroll and was placed via pump truck. A crew from Quality Concrete placed the concrete. One set of 4 cylinders was cast and placed into on-site storage to be picked up at a later date for controlled storage and compressive strength testing.

Test Results:
Slump: 7"
Air Content: 1.9% to 2.2%
Concrete Temperature: 78 deg F to 81 deg F
Air Temp: 72 deg F
W/C Ratio: .48

Remarks:

Portal to Portal		**Expenses**		**Signed:**	Mathew Hardison
Leave:	6:00	Mileage:	6	**cc:**	Al Thibeault - UNE
Return:	11:00	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	5	Other:			Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date:

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DAILY FIELD REPORT

Date: 7/21/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Density Testing/Soil Sample Retrieval

Work Activities: Performed in-place compaction testing for the aggregate subbase below the basement floor slab. The soil was placed in 12" lifts by a crew from Leavitt Earthworks. All density tests passed the 95% minimum compaction requirement.

Test Results:
Soil:
Density: 124.5 to 127.3 PCF
Percent Compaction: 95.0% to 97.2%

Remarks: The compaction results were compared to the proctor value obtained from the sample retrieved on-site the same day.

Portal to Portal		**Expenses**		**Signed:**	Mathew Hardison
Leave:	3:00	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	5:45	Density Gauge:	XX		Dan Burns - Becker Structural
TOTAL:	2.75	Other:			Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 7/26/11

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x

DAILY FIELD REPORT

Date: 7/14/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Cylinder Pick Up

Work Activities: Retrieved one set of five cylinders cast on 7/13/11. Returned them to the laboratory for controlled storage and compressive strength testing.

Test Results:

Remarks: Dave Barczak noted that the cure box was bumped or moved overnight.

Portal to Portal		**Expenses**		**Signed:**	Matthew Pellerin
Leave:	8:00am	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	9:30am	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	1.5	Other:	2.75		Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 7/15/11

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DAILY FIELD REPORT

Date: 7/13/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Concrete Testing Services

Work Activities: Performed concrete testing on the 35 c.y. pour for the third floor elevated deck slab. All concrete was 3000psi, 3/4" stone mix containing High Range Water Reducer. The concrete was supplied and delivered by F. R. Carroll and was placed via pump truck. A crew from Quality Concrete placed the concrete.
One set of 5 cylinders was cast and placed into on-site storage to be picked up at a later date for controlled storage and compressive strength testing.

Test Results:
Slump: 6 1/2" to 7 1/4"
Air Content: 2.5% to 2.9%
Concrete Temperature: 77 deg F to 80 deg F
Air Temp: 75 deg F

Remarks: Reduced Tolls due to proximity of another site

Portal to Portal		**Expenses**		**Signed:**	Mathew Hardison
Leave:	6:00	Mileage:	6	**cc:**	Al Thibeault - UNE
Return:	11:00	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	5	Other:			Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 7/14/11

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DAILY FIELD REPORT

Date: 7/8/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Shotcrete Panel Pickup

Work Activities: Retrieved one set of concrete test cylinders cast on 7/1/11 and brought them back for controlled storage and laboroatory testing.

Test Results:

Remarks:

Portal to Portal		**Expenses**		**Signed:**	Justin Rouillard
Leave:	10:00	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	11:00	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	1	Other:	tolls 1.00		Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 6/28/11

SUMMIT ENVIRONMENTAL CONSULTANTS, INC.
434 Cony Road, Augusta, Maine 04330
Phone: (207) 621-8334 Fax: 626-9094

DAILY FIELD REPORT

Date: 7/7/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Concrete Testing Services

Work Activities: Performed concrete testing on the 35 c.y. pour for the second floor elevated deck slab. All concrete was 3000psi, 3/4" stone mix containing superplasticizer. The concrete was supplied and delivered by F. R. Carroll and was placed via pump truck. A crew from Quality Concrete placed the concrete.
One set of 5 cylinders was cast and placed into on-site storage to be picked up at a later date for controlled storage and compressive strength testing.

Test Results:
Slump: 6 1/2" to 7 1/2"
Air Content: 2.3% to 3.1%
Concrete Temperature: 76 deg F to 80 deg F
Air Temp: 72 deg F

Remarks: Reduced Tolls due to proximity of another site

Portal to Portal		**Expenses**		**Signed:**	Mathew Hardison
Leave:	6:00	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	11:30	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	5.5	Other:	Tolls 3.75		Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 7/8/11

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DAILY FIELD REPORT

Date: 7/6/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Shotcrete Panel Pickup

Work Activities: Retrieved one set of concrete test cylinders cast on 7/1/11 and brought them back for controlled storage and laboroatory testing.

Test Results:

Remarks:

Portal to Portal		**Expenses**		**Signed:**	Justin Rouillard
Leave:	10:00	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	11:00	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	1	Other:	tolls 1.00		Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 6/28/11

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DAILY FIELD REPORT

Date: 7/5/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Concrete Testing Services

Work Activities: Performed concrete testing on the 37 c.y. pour for the first floor elevated deck slab. All concrete was 3000psi, 3/4" stone mix containing superplasticizer. The concrete was supplied and delivered by F. R. Carroll and was placed via pump truck. A crew from Quality Concrete placed the concrete.
One set of 5 cylinders was cast and placed into on-site storage to be picked up at a later date for controlled storage and compressive strength testing.

Test Results:
Slump: 6 1/4" to 7"
Air Content: 2.4% to 3.5%
Concrete Temperature: 76 deg F to 81 deg F
Air Temp: 70 deg F

Remarks: Reduced Tolls due to proximity of another site

Portal to Portal		**Expenses**		**Signed:**	Mathew Hardison
Leave:	6:00	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	11:45	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	5.75	Other:	Tolls 2.00		Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 7/7/11

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DAILY FIELD REPORT

Date: 6/27/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Shotcrete Stripping/Cutting

Work Activities: Stripped two shotcrete panels that were retrieved the same morning. Using a wet saw and tile saw cut usable section of panels (4 1/2" from two sides unusable) into 3" x 3" x 3" cubes, four from each panel. They were weighed, measured and capped for 7 day and 28 day strength breaks.

Test Results:

Remarks:

Portal to Portal		**Expenses**		**Signed:**	Matthew Pellerin
Leave:	11:30am	Mileage:		**cc:**	Al Thibeault - UNE
Return:	4:00pm	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	4.5	Other:			Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 7/5/11

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DAILY FIELD REPORT

Date: 6/27/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Shotcrete Panel Pickup

Work Activities: Retrieved two Shotcrete panels to return to the laboratory for controlled storage and compressive strength testing.

Test Results:

Remarks:

Portal to Portal		**Expenses**		**Signed:**	Matthew Pellerin
Leave:	8:00am	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	10:00am	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	2	Other:			Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 6/28/11

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DAILY FIELD REPORT

Date: 6/23/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Cylinder Pick Up

Work Activities: Retrieved one set of four test cylinders cast on 6/22/11. Returned them to laboratory for controlled storage and compressive strength testing.

Test Results:

Remarks: Reduced tolls due to proximity of another site

Portal to Portal		**Expenses**		**Signed:**	Mathew Hardison
Leave:	8:30	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	9:30	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	1	Other:	Tolls 1.00		Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 6/24/11

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DAILY FIELD REPORT

Date: 6/22/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Concrete Testing Services/Cylinder Pickup

Work Activities: Performed concrete testing on the 12 c.y. for the support footings at E1 and D1. All concrete was 3000psi, 3/4" stone mix containing Super Plastisizer. The concrete was supplied and delivered by F. R. Carroll and was placed directly from truck chute. A crew from Newman Concrete placed the concrete.
One set of 4 cylinders was cast and placed into on-site storage.

Test Results:
Slump: 7"
Air Content: 6.7%
Concrete Temperature: 68deg F
Air Temp: 80 deg F

Remarks:

Portal to Portal		**Expenses**		**Signed:**	Justin Rouillard
Leave:	1:00	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	4:00	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	3	Other:			Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager

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Date: 6/17/11

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DAILY FIELD REPORT

Date: 6/16/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Cylinder Pick Up

Work Activities: Retrieved one set of eight test cylinders (3 field cures). Returned them to laboratory for controlled storage and compressive strength testing.

Test Results:

Remarks:

Portal to Portal		**Expenses**		**Signed:**	Matthew Pellerin
Leave:	7:00am	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	8:00am	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	1	Other:	2.75		Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date:

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DAILY FIELD REPORT

Date: 6/15/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Concrete Testing Services/Cylinder Pickup

Work Activities:

Performed concrete testing on the 9 c.y. pour for the western interior stairwell walls on line B. All concrete was 5000psi, 3/4" stone mix containing Polyheed 997 and Pozzutec 20. The concrete was supplied and delivered by F. R. Carroll and was placed into forms via pump truck. A crew from Newman Concrete placed the concrete.
One set of 5 cylinders was cast and placed into on-site storage, as well as an additional 3 field cures, to be picked up at a later date for controlled storage and compressive strength testing.

Also, retrieved one set of five cylinders cast on 6/14/11 to be returned to the laboratory for controlled storage and compressive strength testing.

Test Results:

Slump: 5" to 5 3/4"
Air Content: 3.0%
Concrete Temperature: 78 to 79 deg F
Air Temp: 68 deg F

Remarks: Reduced mileage/tolls due to proximity of another site.

Portal to Portal		**Expenses**		**Signed:**	Mathew Hardison
Leave:	3:30	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	7:30	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	4	Other:	Tolls 2.75		Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager

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Date: 6/17/11

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DAILY FIELD REPORT

Date: 6/14/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Concrete Testing Services

Work Activities: Performed concrete testing on the 32 c.y. pour for the western interior stairwell footings on line B. All concrete was 3000psi, 3/4" stone mix containing superplasticizer. The concrete was supplied and delivered by F. R. Carroll and was placed into earthwork via pump truck. A crew from Newman Concrete placed the concrete.
One set of 5 cylinders was cast and placed into on-site storage to be picked up at a later date for controlled storage and compressive strength testing.

Test Results:
Slump: 4 1/2" to 5 3/4"
Air Content: 4.5% to 5.1%
Concrete Temperature: 68 to 71 deg F
Air Temp: 68 deg F

Remarks:

Portal to Portal		**Expenses**		**Signed:**	Mathew Hardison
Leave:	1:00	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	5:30	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	4.5	Other:	Tolls 4.50		Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 6/17/11

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DAILY FIELD REPORT

Date: 6/6/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Shotcrete Stripping/Cutting

Work Activities: Stripped the two Shotcrete panels retrieved that same morning. With a tile saw, cut each usable section of the panel (4 1/2" in from each side) into 9 3" x 3" x 3" cubes to be weighed, measured, and capped for 7 and 28 day breaks.

All travel time was included in the other Field Report for 6/6/11

Test Results:

Remarks:

Portal to Portal		**Expenses**		**Signed:**	Mathew Hardison
Leave:	1:45	Mileage:	X	**cc:**	Al Thibeault - UNE
Return:	5:45	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	4	Other:			Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date:

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DAILY FIELD REPORT

Date: 6/6/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Shotcrete Panel Pickup

Work Activities: Retrieval two Shotcrete Panels to return the laboratory for controlled storage and compressive strength testing

Test Results:

Remarks: Reduced Mileage/Tolls due to proximity of another site

Portal to Portal		**Expenses**		**Signed:**	Mathew Hardison
Leave:	9:00	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	10:30	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	1.5	Other:	Tolls: 1.75		Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 6/6/11

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DAILY FIELD REPORT

Date: 5/26/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Cylinder Retrieval

Work Activities: Retrieved one set of four grout samples and one set of three mortar cubes cast on 5/25/11 to bring back to the lab for controlled storage and strength testing.

Test Results:

Remarks:

Portal to Portal		**Expenses**		**Signed:**	Mathew Hardison
Leave:	11:30	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	2:30	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	3	Other:	Tolls: 2.00		Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 5/27/11

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DAILY FIELD REPORT

Date: 5/25/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Mortar/Grout Testing

Work Activities: Cast one set of four grout cubes and one set of mortar blocks for the CMU blocks of the the east interior stairwell footing. Both sets were placed into on-site storage to be picked up at a later time and returned to the lab.

Test Results:
Grout:
Slump: 10"
Temperature: 77 deg F
Air Temp: 68 deg F

Remarks: Reduced Tolls due to proximity of another site

Portal to Portal		**Expenses**		**Signed:**	Mathew Hardison
Leave:	7:00	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	9:30	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	2.5	Other:	Tolls 1.00		Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 5/26/11

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DAILY FIELD REPORT

Date: 5/24/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Cylinder Retrieval

Work Activities: Retrieved one set of four concrete test specimens cast on 5/23/11 for controlled storage and compressive strength testing.

Test Results:

Remarks: Reduced Mileage/Tolls due to proximity of another site

Portal to Portal		**Expenses**		**Signed:**	Mathew Hardison
Leave:	12:00	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	1:00	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	1	Other:	Tolls: 1.00		Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 5/26/11

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DAILY FIELD REPORT

Date: 5/23/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Concrete Testing Services

Work Activities: Performed concrete testing on the 12.5 c.y. pour for the northern interior/exterior dogbone footings. All concrete was 3000psi, 3/4" stone mix containing superplasticizer. The concrete was supplied and delivered by F. R. Carroll and was placed directly into earthwork from the truck chute. A crew from Newman Concrete placed the concrete.
One set of 5 cylinders was cast and placed into on-site storage to be picked up at a later date for controlled storage and compressive strength testing.

Test Results:
Slump: 5.0" - 7.0"
Air Content: 6.5%
Concrete Temperature: 63 - 65 deg F
Air Temp: 63 deg F

Remarks: Reduced Tolls due to proximity of another site.

Portal to Portal		**Expenses**		**Signed:**	Mathew Hardison
Leave:	1:45	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	5:45	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	4	Other:	Tolls 2.75		Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 5/24/11

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DAILY FIELD REPORT

Date: 5/19/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Cylinder Retrieval

Work Activities: Retrieved one set of four concrete test specimens cast on 5/18/11 for controlled storage and compressive strength testing.

Test Results:

Remarks: Reduced Mileage/Tolls due to proximity of another site

Portal to Portal		**Expenses**		**Signed:**	Mathew Hardison
Leave:	8:00	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	8:30	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	0.5	Other:			Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 5/20/11

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DAILY FIELD REPORT

Date: 5/18/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Concrete Testing Services

Work Activities: Performed concrete testing on the 28 c.y. pour for the east interior stairwell footing on line B. All concrete was 3000psi, 3/4" stone mix containing superplasticizer. The concrete was supplied and delivered by F. R. Carroll and was placed directly into forms from the truck chute. A crew from Newman Concrete placed the concrete.
One set of 5 cylinders was cast and placed into on-site storage to be picked up at a later date for controlled storage and compressive strength testing.

Test Results:
Slump: 7.0" - 7 3/4"
Air Content: 7.2%
Concrete Temperature: 61 - 63 deg F
Air Temp: 60 deg F

Remarks: Pour was scheduled for 12:00pm, truck arrived at 1:00pm.

Portal to Portal		**Expenses**		**Signed:**	Mathew Hardison
Leave:	10:45	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	3:45	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	5	Other:	Tolls 3.50		Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date:

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DAILY FIELD REPORT

Date: 4/7/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Cylinder Retrieval.

Work Activities: Retrieved one set (# 2) of four concrete test specimens cast on 4/6/11 for controlled storage and compressive strength testing.

Test Results:

Remarks:

Portal to Portal		**Expenses**		**Signed:**	Frank Clark
Leave:	11:30am	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	12:45pm	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	1.25	Other:			Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 4/8/11

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DAILY FIELD REPORT

Date: 4/6/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Concrete Testing Services

Work Activities: Completed concrete testing for three interior piers at Line 2 and Lines C, D and E. All concrete was a 3000 psi, 3/4" aggregate mixture containing mid-range water reducer supplied by F.R. Carroll, Inc. Placement performed by a three person crew from Newman Concrete. Concrete sample met the specified air content and slump requirements. One set of four concrete test specimens (set 14497-C2) was cast for controlled storage and compressive strength testing.

Test Results:
Volume: 5.5 CY
Slump: 5" (Maximum 8" inches with mid-range water reducer)
Air%: 6.9% (6% +/- 1.5% required)
Concrete Temp: 72 deg.F
Air Temp: 42 deg.F

Remarks:

Portal to Portal		**Expenses**		**Signed:**	Michael Walsh
Leave:	9:15am	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	11:45am	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	2.5 hrs	Other:			Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 4/11/11

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DAILY FIELD REPORT

Date: 2/16/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Concrete Test Cylinder Retrieval.

Work Activities: Retrieved one set of four concrete test specimens cast on 2/15/11 for controlled storage and compressive strength testing.

Test Results:

Remarks:

Portal to Portal		**Expenses**		**Signed:**	Neil Davis
Leave:	8:45am	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	9:30am	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	0.75	Other:			Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 2/22/11

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DAILY FIELD REPORT

Date: 2/15/11

Project: University of New England Goddard Hall - Portland Campus

Project #: 14497

Site Contacts: David Barczak - Allied/Cook Construction

Purpose of Visit: Concrete Testing Services

Work Activities: Performed concrete testing for the first floor interior slab history room floor topping. All concrete was a 3000 psi, 3/4" aggregate mixture containing Glenium 7500 (Mid Range Water Reducer), Fibermesh, and 1% Pozzutec 20+ (Concrete Accelerator.) One set of four concrete test specimens was cast for controlled storage and compressive strength testing.

Test Results:
Volume: 3.5 CY
Slump: 6"
Air%: 2.0%
Concrete Temp: 58 deg.F
Air Temp: 20 deg.F

Remarks:

Portal to Portal		**Expenses**		**Signed:**	Neil Davis
Leave:	7:45am	Mileage:	5	**cc:**	Al Thibeault - UNE
Return:	9:30am	Density Gauge:			Dan Burns - Becker Structural
TOTAL:	1.75	Other:			Matt Cook - Allied/Cook

Reviewed: Darrell A. Gilman, CMT Manager
Date: 2/22/11

F. R. Carroll, Inc.
P. O. Box 9
Limerick, Me. 04048

793-2742
793-8753

March 4, 2011

Newman Concrete Services
728 Main St.
Richmond, Me. 04357

Attn: Andrew Lathe

Re: Concrete Mix Designs for University of New England.

3000 psi Concrete - Foundations and footings

3/4" Stone	**1700 Lbs.**
Sand	**1375 Lbs.**
Cement	**310 Lbs.**
Slag	**207 Lbs.**
Water	**33.4 Gal.**
Glenium	**3.0 Oz.(4.0 Oz. midrange, 5.0 Oz. Super)**
Microair	**2.0 Oz.**
Water Cement Ratio	**.54**
Slump	**4in. Max. (6" midrange, 8" Super)**
Air Content	**4.5-7.5%**

The above weights are based on the use of Ciment Quebec Type II, Newcem Slag, F. R. Carroll's aggregates, Master Builders midrange water reducer Glenium Master Builders air entraining agent Microair.

The quantities for the aggregates are given in the oven dried state (no free or absorbed moisture). The oven dried quantities are the basic quantities which will be adjusted for moisture, slump, and yield.

If you have any questions, please feel free to give me a call.

Sincerely,

Michael P Carroll

Michael P. Carroll
V. P. Concrete Division

F. R. Carroll, Inc.
P. O. Box 9
Limerick, Me. 04048

793-2742
793-8753

March 4, 2011

Newman Concrete Services
728 Main St.
Richmond, Me. 04357

Attn: Andrew Lathe

Re: Concrete Mix Designs for University of New England.

3000 psi Concrete - Foundations and footings

3/4" Stone	**1700 Lbs.**
Sand	**1375 Lbs.**
Cement	**310 Lbs.**
Slag	**207 Lbs.**
Water	**33.4 Gal.**
Glenium	**3.0 Oz.(4.0 Oz. midrange, 5.0 Oz. Super)**
Microair	**2.0 Oz.**
Water Cement Ratio	**.54**
Slump	**4in. Max. (6" midrange, 8" Super)**
Air Content	**4.5-7.5%**

The above weights are based on the use of Ciment Quebec Type II, Newcem Slag, F. R. Carroll's aggregates, Master Builders midrange water reducer Glenium Master Builders air entraining agent Microair.

The quantities for the aggregates are given in the oven dried state (no free or absorbed moisture). The oven dried quantities are the basic quantities which will be adjusted for moisture, slump, and yield.

If you have any questions, please feel free to give me a call.

Sincerely,

Michael P. Carroll

Michael P. Carroll
V. P. Concrete Division

F. R. Carroll, Inc.
P. O. Box 9
Limerick, Me. 04048

793-2742
793-8753

March 4, 2011

Newman Concrete Services
728 Main St.
Richmond, Me. 04357

Attn: Andrew Lathe

Re: Concrete Mix Designs for University of New England.

4500 psi Concrete - Ext slabs

3/4" Stone	**1700 Lbs.**
Sand	**1275 Lbs.**
Cement	**367 Lbs.**
Slag	**244 Lbs.**
Water	**32.9 Gal.**
Glenium	**3.0 Oz.(4.0 Oz. midrange, 5.0 Oz. Super)**
Microair	**2.0 Oz.**
Water Cement Ratio	**.45**
Slump	**4in. Max. (6" midrange, 8" Super)**
Air Content	**4.5-7.5%**

The above weights are based on the use of Ciment Quebec Type II, Newcem Slag, F. R. Carroll's aggregates, Master Builders midrange water reducer Glenium Master Builders air entraining agent Microair.

The quantities for the aggregates are given in the oven dried state (no free or absorbed moisture). The oven dried quantities are the basic quantities which will be adjusted for moisture, slump, and yield.

If you have any questions, please feel free to give me a call.

Sincerely,

Michael P Carroll

Michael P. Carroll
V. P. Concrete Division

AUBURN CONCRETE

LOCATIONS:
AUBURN - 82 Goldthwaite Road
WESTBROOK - 93 Scott Drive
WEST BATH - 50 Arthur Reno Sr Road
AUGUSTA - 2 Hard Rock Road

Main Office: P.O. Box 1747 • Auburn, Maine 04210
Phone: (207) 777-7100 • Fax: (207) 777-7171

KNOWLES INDUSTRIAL

UNE - GODDARD HALL RENOVATION
STEVENS AVE. - PORTLAND, MAINE

1 : 3½ GUNITE

Mix Design Submittal

5/17/2011

		Gunite		
		Weight-SSD (lbs)	Volume (Cu.Ft.)	Sources
CEMENT	ASTM C150 T1/II	800	4.07	DRAGON PRODUCTS COMPANY
RHEOMAC SF100	ASTM C1240	25	0.18	BASF/MASTER BUILDERS
FINE AGG	ASTM C33 (SSD)	2570	15.78	PORTLAND SAND & GRAVEL
TOTAL AIR CONTENT		3.0 +/- 1.5%	0.81	
W/C RATIO		N/A		
SLUMP (inches)		N/A		
OPTIONAL:				
MICROMESH - ASTM C1116, Type III		1.0 #/cyd		O'DEA CONCRETE PRODUCTS

Special Inspections – Exhibit B

04200 Masonry

Project: University of New England – Goddard Hall Renovation
Date Prepared: 10/8/2010

Structural Schedule of Special Inspections
MASONRY CONSTRUCTION – LEVEL 1 (NON-ESSENTIAL FACILITY)

VERIFICATION AND INSPECTION IBC Section 1704.5	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. As masonry construction begins, the following shall be verified to ensure compliance:						
a. Proportions of site-prepared mortar.	Y	P	ACI530.1, 2.6A	TA-1	PE/SE or EIT	6/11
b. Construction of mortar joints.	Y	P	ACI530.1, 3.3B	TA-1	PE/SE or EIT	6/11
c. Location of reinforcement and connectors.	Y	P	ACI530.1, 3.4, 3.6A	SI-1	PE/SE or EIT	6/11
d. Prestressing technique.	N	P	ACI530.1, 3.6B		PE/SE or EIT	
e. Grade and size of prestressing tendons and anchorages.	N	P	ACI530.1, 2.4B, 2.4H		PE/SE or EIT	
2. The inspection program shall verify:						
a. Size and location of structural elements.	Y	P	ACI530.1, 3.3G	SI-1	PE/SE or EIT	6/11
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	Y	P	ACI530, 1.2.2(e), 2.1.4, 3.1.6	SI-1	PE/SE or EIT	6/11
c. Specified size, grade and type of reinforcement.	Y	P	ACI530, 1.12, ACI530.1, 2.4, 3.4	SI-1	PE/SE or EIT	6/11
d. Welding of reinforcing bars.	N	C	AC530, 2.1.10.6.2, 3.2..4 (b)		AWS-CWI	
e. Protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).	Y	P	IBC 2104.3, 2104.4; ACI530.1, 1.8C, 1.8D	SI-1	PE/SE or EIT	6/11
f. Application and measurement of prestressing force.	N	P	ACI530.1, 3.6B		PE/SE or EIT	
3. Prior to grouting, the following shall be verified to ensure compliance:						
a. Grout space is clean.	Y	P	ACI530.1, 3.2D	TA-1	PE/SE or EIT	6/11
b. Placement of reinforcement and connectors and prestressing tendons and anchorages.	Y	P	ACI530, 1.12, ACI530.1, 3.4	SI-1	PE/SE or EIT	6/11
c. Proportions of site-prepared grout and prestressing grout for bonded tendons.	Y	P	ACI530.1, 2.6B	TA-1	PE/SE or EIT	6/11
d. Construction of mortar joints.	Y	P	ACI530.1, 3.3B	TA-1	PE/SE or EIT	6/11
4. Grout placement shall be verified to ensure compliance with code and construction document provisions.	Y	C	ACI530.1, 3.5	TA-1	PE/SE or EIT	6/11
a. Grouting of prestressing bonded tendons.	N	C	ACI530.1, 3.6C		PE/SE or EIT	
5. Preparation of any required grout specimens, mortar specimens and/or prisms shall be observed.	Y	C	IBC 2105.2.2, 2105.3; ACI530.1, 1.4	TA-1	PE/SE or EIT	6/11
6. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.	Y	P	ACI530.1, 1.5	SI-1	PE/SE or EIT	6/11

BECKER
STRUCTURAL ENGINEERS

04230

OBSERVATION REPORT
CMU

Date:	6-1-11
Time:	1:00 PM
Temp:	65F
Weather:	Sunny

Project:	UNE Goddard Hall Renovation
Location:	Portland, ME
Becker Job No:	2518

Observation Location: Stair B - approx 4' below second floor

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Reinforcement Size	☒	☐	☐	☐	
Quantity	☒	☐	☐	☐	
Condition	☒	☐	☐	☐	
Placement	☒	☐	☐	☐	
Embed/Anchors	☒	☐	☐	☐	
Lap Splices	☒	☐	☐	☐	
Hot Weather	☐	☐	☐	☒	
Cold Weather	☐	☐	☐	☒	
CMU Size	☒	☐	☐	☐	
Layout/Fit-up/Plumbness	☒	☐	☐	☐	
Mortar/Grouting Procedure	☒	☐	☐	☐	
Lift Height	☒	☐	☐	☐	
Clean Outs	☐	☐	☐	☒	
Bond Beams	☒	☐	☐	☐	
Additional Items	☐	☐	☐	☒	

Notes:

Signed: Dan S. Burne, P.E.

BECKER
STRUCTURAL ENGINEERS

04230

OBSERVATION REPORT
CMU

Date:	6-7-11
Time:	8:30 AM
Temp:	60F
Weather:	Sunny

Project:	UNE Goddard Hall Renovation
Location:	Portland, ME
Becker Job No:	2518

Observation Location: Stair B - approx 4' below third floor

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Reinforcement Size	☒	☐	☐	☐	
Quantity	☒	☐	☐	☐	
Condition	☒	☐	☐	☐	
Placement	☒	☐	☐	☐	
Embed/Anchors	☒	☐	☐	☐	
Lap Splices	☒	☐	☐	☐	
Hot Weather	☐	☐	☐	☒	
Cold Weather	☐	☐	☐	☒	
CMU Size	☒	☐	☐	☐	
Layout/Fit-up/Plumbness	☒	☐	☐	☐	
Mortar/Grouting Procedure	☒	☐	☐	☐	
Lift Height	☒	☐	☐	☐	
Clean Outs	☐	☐	☐	☒	
Bond Beams	☒	☐	☐	☐	
Additional Items	☐	☐	☐	☒	

Notes:

Signed: Dan S. Burne, P.E.

BECKER
STRUCTURAL ENGINEERS

04230

OBSERVATION REPORT
CMU

Date:	6-22-11
Time:	1:00 PM
Temp:	70F
Weather:	Cloudy

Project:	UNE Goddard Hall Renovation
Location:	Portland, ME
Becker Job No:	2518

Observation Location: Stair A / Elevator - approx 3' below first floor

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Reinforcement Size	☒	☐	☐	☐	
Quantity	☒	☐	☐	☐	
Condition	☒	☐	☐	☐	
Placement	☒	☐	☐	☐	
Embed/Anchors	☒	☐	☐	☐	
Lap Splices	☒	☐	☐	☐	
Hot Weather	☐	☐	☐	☒	
Cold Weather	☐	☐	☐	☒	
CMU Size	☒	☐	☐	☐	
Layout/Fit-up/Plumbness	☒	☐	☐	☐	
Mortar/Grouting Procedure	☒	☐	☐	☐	
Lift Height	☒	☐	☐	☐	
Clean Outs	☐	☐	☐	☒	
Bond Beams	☒	☐	☐	☐	
Additional Items	☐	☐	☐	☒	

Notes:

Signed: Dan S. Burne, P.E.

Summit
Environmental Consultants, Inc.

MORTAR COMPRESSIVE STRENGTH TEST RESULTS

Project No: 14497
Project: UNE Goddard Hall
Client: University of New England
11 Hills Beach Road
Biddeford, Maine 04005

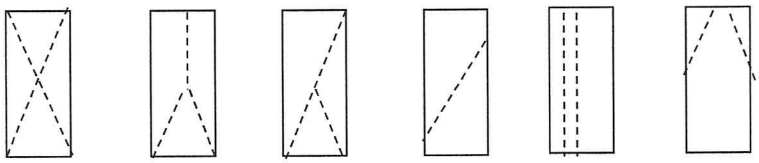
Field Test Data

Set No.: M1
Placement Date: 25-May-11
Lab Rec'd Date: 26-May-11
Location: East Interior Stairwell Footing
Techician: M. Hardison
Supplier:
Mix Designation: Type "S"
Design Strength: 1800psi

Laboratory Test Data

Sample No.	Test Date	Age	Type	Wt. (lb.)	Unit Wt.	Area (in^2)	Load (K)	Strength (psi)
M1a	1-Jun-11	7	KB	0.58	124.6	4.02	7.9	1950
M1b	22-Jun-11	28	TD	0.58	120.8	4.06	9.6	2350
M1c	22-Jun-11	28	TD	0.58	121.5	4.06	9.0	2200

Average 28 Day (psi): 2275



Remarks: _____

434 Cony Road, Augusta, Maine 04330
Phone: (207) 621.8334 Fax: (207) 626.9094

Reviewed: Darrell Gilman, CMT Manager
Date:6-23-11

Summit
Environmental Consultants, Inc

GROUT COMPRESSIVE STRENGTH TEST RESULTS - ASTM C1019

Project No: 14497
Project: UNE Goddard Hall - Portland, Maine
Client: Universtiy of New England
11 Hills Beach Road
Biddeford, Maine 04005

Field Test Data

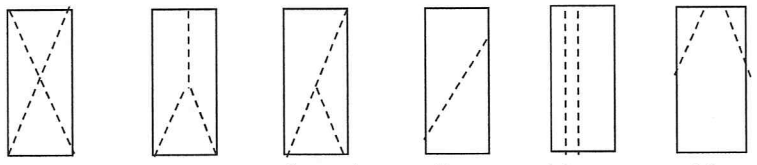
Set No.: G1
Placement Date: 25-May-11
Lab Rec'd Date: 26-May-11
Location: East Interior Stairwell Footing
Technician: M. Hardison
Supplier: Quickcrete
Mix Designation: CMU Block Grout
Design Strength: 2500psi

Slump (inches) 10
Grout Temp. (^{0}F) 77.0
Air Temp. (^{0}F) 67.0

Laboratory Test Data

Sample No.	Test Date	Age	Type	Wt. (lb.)	Unit Wt.	Area (in^2)	Load (K)	Strength (psi)
G1a	1-Jun-11	7	1	4.48	131.7	10.15	28.5	2800
G1b	22-Jun-11	28	1	4.36	130.7	10.15	41.9	4130
G1c	22-Jun-11	28	3	4.50	130.1	10.31	37.7	3660
G1d								

Average 28 Day (psi): 3895



Remarks: _____

434 Cony Road, Augusta, Maine 04330
Phone: (207) 621.8334 Fax: (207) 626.9094

Reviewed: Darrell Gilman, CMT Manager
Date:6-23-11

Special Inspections – Exhibit B

05120 Structural Steel

Project: University of New England – Goddard Hall Renovation
Date Prepared: 10/8/2010

Structural Schedule of Special Inspections - STEEL CONSTRUCTION

VERIFICATION AND INSPECTION IBC Section 1704.3	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Material verification of high-strength bolts, nuts and washers:						
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	Y	S	Applicable ASTM material specifications; AISC 335, Section A3.4; AISC LRFD, Section A3.3	SI-1	PE/SE or EIT	10/11
b. Manufacturer's certificate of compliance required.	Y	S		SI-1	PE/SE or EIT	
2. Inspection of high-strength bolting						
a. Bearing-type connections.	Y	P	AISC LRFD Section M2.5 IBC Sect 1704.3.3	TA-1	AWS/AISC-SSI	6/11 - 7/11
b. Slip-critical connections.	N	C or P (method dependent)			AWS/AISC-SSI	
3. Material verification of structural steel (IBC Sect 1708.4):						
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	Y	S	ASTM A 6 or ASTM A 568 IBC Sect 1708.4	SI-1	PE/SE or EIT	10/11
b. Manufacturers' certified mill test reports.	Y	S	ASTM A 6 or ASTM A 568 IBC Sect 1708.4	SI-1	PE/SE or EIT	10/11
4. Material verification of weld filler materials:						
a. Identification markings to conform to AWS specification in the approved construction documents.	Y	S	AISC, ASD, Section A3.6; AISC LRFD, Section A3.5	SI-1	PE/SE or EIT	10/11
b. Manufacturer's certificate of compliance required.	Y	S		SI-1	PE/SE or EIT	10/11
5. Submit current AWS D1.1 welder certificate for all field welders who will be welding on this project.	Y	S	AWS D1.1	SI-1	PE/SE or EIT	9/11
6. Inspection of welding (IBC 1704.3.1): a. Structural steel:						
1) Complete and partial penetration groove welds.	N	C	AWS D1.1		AWS-CWI	
2) Multipass fillet welds.	N	C			AWS-CWI	
3) Single-pass fillet welds> 5/16"	N	C			AWS-CWI	
4) Single-pass fillet welds< 5/16"	Y	P		TA-1	AWS-CWI	6/11 - 7/11
5) Floor and deck welds.	Y	P	AWS D1.3	TA-1	AWS-CWI	6/11 - 7/11
b. Reinforcing steel (IBC Sect 1903.5.2):						
1) Verification of weldability of reinforcing steel other than ASTM A706.	N	C				
2) Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special reinforced concrete shear walls and shear reinforcement.	N	C	AWS D1.4 ACI 318: 3.5.2		AWS-CWI	
3) Shear reinforcement.	N	C			AWS-CWI	
4) Other reinforcing steel.	N	P			AWS-CWI	
7. Inspection of steel frame joint details for compliance (IBC Sect 1704.3.2) with approved construction documents:						
a. Details such as bracing and stiffening.	N	P			PE/SE or EIT	
b. Member locations.	N	P			PE/SE or EIT	
c. Application of joint details at each connection.	N	P			PE/SE or EIT	

Project: University of New England – Goddard Hall Renovation
Date Prepared: 10/8/2010

Structural Schedule of Special Inspection Services

FABRICATION AND IMPLEMENTATION PROCEDURES – STRUCTURAL STEEL

VERIFICATION AND INSPECTION IBC Section 1704.2	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Fabrications Procedures: Review of fabricator's written procedural and quality control manuals and periodic auditing of fabrication practices by an approved special inspection agency. At the completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents. -OR- 2. AISC Certification	Y	S	Fabricator shall submit one of the two qualifications	SI-1	PE/SE or EIT	9/11
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	SI-1	PE/SE or EIT	9/11

BECKER
STRUCTURAL ENGINEERS

05120

OBSERVATION REPORT
Structural Steel

Date:	4-22-11
Time:	10:00 AM
Temp:	65 F
Weather:	Sunny

Project:	UNE Goddard Hall
Location:	Portland, Maine
Becker Job No:	2518

Observation Location:
Center Portion Steel (C line-E line) Erected, Deck installation in process

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Bolt Condition	☒	☐	☐	☐	Verification to be perfomred by testing agency
Weld Condition	☒	☐	☐	☐	Verification to be perfomred by testing agency
Anchor Bolts, Nuts, & Washers	☒	☐	☐	☐	
Grout/Leveling Plates	☒	☐	☐	☐	
Fit Up/Plumbness	☒	☐	☐	☐	
Metal Deck Welds	☐	☐	☒	☐	Verification to be perfomred by testing agency
Pour Stops	☐	☐	☒	☐	
Bracing	☐	☐	☐	☒	
Additional Items	☐	☐	☐	☐	
Additional Items	☐	☐	☐	☐	

Notes:
Follow-up visit to be performed after deck installation. Unable to access roof support steel.

Signed: Dan S. Burne, P.E.

BECKER
STRUCTURAL ENGINEERS

05120

OBSERVATION REPORT
Structural Steel

Date:	5-10-11
Time:	12:30 PM
Temp:	60 F
Weather:	Rainy

Project:	UNE Goddard Hall
Location:	Portland, Maine
Becker Job No:	2518

Observation Location:
Center portion steel (C line-E line) complete, demo at east side in process

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Bolt Condition	☒	☐	☐	☐	Verification to be perfomred by testing agency
Weld Condition	☒	☐	☐	☐	Verification to be perfomred by testing agency
Anchor Bolts, Nuts, & Washers	☒	☐	☐	☐	
Grout/Leveling Plates	☒	☐	☐	☐	
Fit Up/Plumbness	☒	☐	☐	☐	
Metal Deck Welds	☒	☐	☐	☐	Verification to be perfomred by testing agency
Pour Stops	☐	☐	☒	☐	
Bracing	☐	☐	☐	☒	
Additional Items	☐	☐	☐	☐	
Additional Items	☐	☐	☐	☐	

Notes:

Signed: Dan S. Burne, P.E.

BECKER
STRUCTURAL ENGINEERS

05120

OBSERVATION REPORT
Structural Steel

Date:	6-1-11
Time:	1:00 PM
Temp:	65 F
Weather:	Sunny

Project:	UNE Goddard Hall
Location:	Portland, Maine
Becker Job No:	2518

Observation Location:
East portion steel (A line-C line) complete

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Bolt Condition	☒	☐	☐	☐	Verification to be perfomred by testing agency
Weld Condition	☒	☐	☐	☐	Verification to be perfomred by testing agency
Anchor Bolts, Nuts, & Washers	☒	☐	☐	☐	
Grout/Leveling Plates	☒	☐	☐	☐	
Fit Up/Plumbness	☒	☐	☐	☐	
Metal Deck Welds	☒	☐	☒	☐	Verification to be perfomred by testing agency
Pour Stops	☐	☐	☒	☐	
Bracing	☐	☐	☐	☒	
Additional Items	☐	☐	☐	☐	
Additional Items	☐	☐	☐	☐	

Notes:

Signed: Dan S. Burne, P.E.

BECKER
STRUCTURAL ENGINEERS

05120

OBSERVATION REPORT
Structural Steel

Date:	6-22-11
Time:	1:00 PM
Temp:	70 F
Weather:	Cloudy

Project:	UNE Goddard Hall
Location:	Portland, Maine
Becker Job No:	2518

Observation Location:
West portion steel (E line-G line) complete

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Bolt Condition	☒	☐	☐	☐	Verification to be perfomred by testing agency
Weld Condition	☒	☐	☐	☐	Verification to be perfomred by testing agency
Anchor Bolts, Nuts, & Washers	☒	☐	☐	☐	
Grout/Leveling Plates	☒	☐	☐	☐	
Fit Up/Plumbness	☒	☐	☐	☐	
Metal Deck Welds	☒	☐	☒	☐	Verification to be perfomred by testing agency
Pour Stops	☐	☐	☒	☐	
Bracing	☐	☐	☐	☒	
Additional Items	☐	☐	☐	☐	
Additional Items	☐	☐	☐	☐	

Notes:

Signed: Dan S. Burne, P.E.

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:	Summit Geotech Engineering	PAGE 1	OF 1
ADDRESS:	Augusta, Maine		
ATTENTION:	Darrel Gilman		
COPIES:	File		
PROJECT:	U.N.E Goddard Hall Renovations - Portland Campus		
OWNER:	Same		
CONTRACTOR:	Allied Cook Construction		

JOB No.:	REPORT No.:	P. O. NUMBER:	DATES INSPECTED:
14497	QAL-11-1245		June 16, 2011

REMARKS

>>>>>> Site visit to perform visual inspections of structural steel field connections per contract documents and AWS D1.1 requirements.

> Phase(1) Grid Line locations Number 1 and 3(A & B) floor beams to embedments on all levels. Site visit on June 16, 2011 revealed the following: First level floor beam to embedments inspected and found to be acceptable. Second level Line 1 and 3(A) no weld on the side of the beam closest to Stevens Ave. Third level line 3(A) lack of fusion; area is marked out on the floor beam. Roof level line 1(B) worm hole porosity found; area is marked out on the floor beam. All other floor beam embedment areas Inspected on line 1 and 3(A & B) are completed and found acceptable.

//Last 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	LEVEL	DATE M	D	Y
INSPECTOR R. Lemay CWI # 10060101	ASNT	II	06	16	11
SUPERVISOR					

(FORM Q703 REV 0)

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:	Summmit Geotech Engineering	PAGE 1 OF 1	
ADDRESS:	Augusta , Me.		
ATTENTION:	Darrel Gilman		
COPIES:	file		
PROJECT:	U.N.E. Goddard Hall - Portland Campus		
OWNER:	same		
CONTRACTOR:	Allied / Cook Construction		
JOB No.: 14497	REPORT No.: QAL-11-1452	P. O. NUMBER:	DATES INSPECTED: 07-11-11

REMARKS

>>>>>> Site visit to perform re-inspection of previously failed shear stud at level (3).

> Re-inspection of (11) failed studs complete and acceptable . Additional studs placed at elevator grid line also complete.

Completed items comply with site drawings and AWS D1.1 requirements for visual acceptance .

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	LEVEL	DATE M D Y
INSPECTOR	M. Drew CWI # 99050211	ASNT	II	07 | 14 | 11
SUPERVISOR				

(FORM Q703 REV 0)

Quality Assurance Labs Inc.
NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES
80 PLEASANT AVENUE • SOUTH PORTLAND, MAINE 04106 • TEL. (207) 799-0811 • FAX (207) 799-7251

INSPECTION REPORT

CUSTOMER: LMC LIGHT IRON, INC.			PAGE 1 OF 1
ADDRESS: 151 E. RANGE RD., P.O. BOX 571, LIMERICK, ME 04048			
ATTENTION: STEVE HAMILTON			
COPIES: FILE			
PROJECT: U.N.E. GODDARD HALL - PORTLAND CAMPUS			
OWNER: SAME			
CONTRACTOR: LMC LIGHT IRON, INC.			
JOB No.: 2050	REPORT No.: OAL-11-0815	P.O. NUMBER:	DATES INSPECTED: 04 - 19 - 11

REMARKS

>>>>>> FAB-SHOP VISIT TO PERFORM VISUAL INSPECTIONS OF STRUCTURAL STEEL SHOP WELDS PER CONTRACT DOCUMENTS AND AWS D1.1 REQUIREMENTS.

> REF. SHOP DRAWINGS #1 THRU #6 FOR PHASE (2) STEEL BEAM SHEAR TABS AND BEAM STIFFENERS:

A) VISUAL INSPECTIONS OF ABOVE LISTED ITEMS COMPLY WITH DRAWING DETAILS AND AWS D1.1 FOR VISUAL ACCEPTANCE.

END ITEMS ///

MICHAEL W. DREW
CWI 99050211
QCI EXP. 06/01/11

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

ADDITIONAL INFORMATION - SEE ATTACHED: ☐ SKETCHES ☐ SUPPLEMENTARY SHEET(S) ☐ NDT REPORTS ☐ OTHER

SIGNATURES	CERTIFICATION		DATE M D Y
INSPECTOR: M. Drew CWI # 99050211 [signature]	ASNT	II	04 | 20 | 11
SUPERVISOR:			

FORM 1203 REV 0

LMC Light Iron, Inc.

151 E. Range Road P.O. Box 521 Limerick, Maine 04048

Telephone (207) 793-9957 Fax: (207) 793-3919

October 3, 2011

Allied Cook Construction Co.
P.O. Box 1396
Portland, Maine 04104

Re: UNE Goddard Hall
Portland, Maine

Gentlemen:

Even though LMC Light Iron, Inc. does not participate in the AISC Program, we do incorporate and follow their guidelines for detailing and fabrication, along with our welders being A.W.S. certified per D1.1-2000.

All of our material suppliers provide us with the documents that assure full compliance with the specifications for each job.

Our detailing software is based completely on the AISC Manual of Steel Construction written for Auto-Cadd, which generates all of our shop drawings.

Shop drawings used on the shop floor also serve as record keeping for each project. Typically a drawing will note the following information:

- Date and initials of the person who did the material layout.
- Date and sign-off from Q.C. indicating layout has been checked.
- Date and initials of fabricator showing component is complete.

If welding is required on a fabrication, the weld size and a visual inspection are also done prior to painting and shipping.

Before shipping a separate shop list is written up using the shop drawings for reference. This allows final review of notes on fabrication prior to shipping. This second ship list is also used to do a piece count during loading.

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

Sincerely,

Stephen D. Hamilton
President

SDH/dh

WELDER, WELDING OPERATOR OR TACK WELDER QUALIFICATION TEST RECORD

Type of Welder ESAB -250

Name Richard Manson Identification No. 6296

Welding Procedure Specification No. Table 3.1 Rev AWS D1.1 Date 3-3-08

Variables	Record Actual Values Used in Qualification	Qualification Range
Process/Type [Table 4.10, Item (2)]	FCAW	
Electrode (single or multiple) [Table 4.9, Item (9)]	SINGLE	SAME
Current/Polarity	DCEN	
Position [Table 4.10, Item (5)]	1F	1F
Weld Progression [Table 4.10, Item (7)]	FLAT	FLAT
Backing (YES or NO) [Table 4.10, Item (8)]	NO	N/A
Material/Spec. [Table 4.10, Item (1)]	A36 to A36	
Base Metal		
Thickness: (Plate)		
Groove	N/A	N/A
Fillet	.500	.125 - UNLIMITED
Thickness: (Pipe/tube)		
Groove	N/A	N/A
Fillet	N/A	N/A
Diameter: (Pipe)	N/A	N/A
Groove	N/A	N/A
Fillet	N/A	N/A
Filler Metal [Table 4.10, Item (3)]		
Spec. No.	A5.20	
Class	E71T-1M	
F-No.	F6	F6 AND LOWER
Gas/Flux Type [Table 4.10, Item (4)]	CO2	
Other		

VISUAL INSPECTION (4.8.1)

Acceptable YES or NO YES

Guided Bend Test Results (4.30.5)

Type	Result	Type	Result
N/A		N/A	

Fillet Test Results (4.30.2.3 and 4.30.4.1)

Appearance Acceptable Fillet Size 5/16"

Fracture Test Root Penetration Acceptable Macroetch Acceptable

(Describe the location, nature, and size of any crack or tearing of the specimen.)

AWS QC 1 MICHAEL W. DREW 99050211 CWI

Inspected by M. DREW Test Number 99050211

Organization MDT Date 3-3-08

RADIOGRAPHIC TEST RESULTS (4.30.3.1)

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

Interpreted by _____ Test Number _____

Organization _____ Date _____

We, the undersigned, certify that the statements in this record are correct and that the test welds were prepared, welded, and tested in accordance with the requirements of section 4 of ANSI/AWS D1.1, (_____) Structural Welding Code—Steel.
(year)

Manufacturer or Contractor LMC Light Iron Authorized By Steve Hamilton - President

Date 3-3-08

Form E-4

WELDER, WELDING OPERATOR OR TACK WELDER QUALIFICATION TEST RECORD

Type of Welder [illegible]
Name [illegible] Identification No. [illegible]
Welding Procedure Specification No. Table 3.1 Rev. [illegible] Date [illegible]

Variables	Data (s) Qualified	Qualification Range
Process/Type (Table 4.10, Item (2))	[illegible]	[illegible]
Electrode (single or multiple) (Table 4.9, Item (5))	[illegible]	[illegible]
Current / Polarity		
Position (Table 4.10, Item (3))	[illegible]	[illegible]
Weld Progression (Table 4.10, Item (7))	[illegible]	[illegible]
Backing (YES or NO) (Table 4.10, Item (8))	[illegible]	[illegible]
Material/Spec. (Table 4.10, Item (1))	[illegible]	[illegible]
Base Metal		
Thickness: (Plate)		
Groove	[illegible]	[illegible]
Fillet	[illegible]	[illegible]
Thickness: (Pipe/Tube)		
Groove	[illegible]	[illegible]
Fillet	[illegible]	[illegible]
Diameter (Pipe)		
Groove	[illegible]	[illegible]
Fillet	[illegible]	[illegible]
Filler Metal (Table 4.10, Item (2))		
Spec. No.	[illegible]	
Class		
F-No.	[illegible]	[illegible]
Gas/Flux Type (Table 4.10, Item (4))		
Other		

VISUAL INSPECTION (4.30.4)
Acceptable – YES or NO [illegible]

Guided Bend Test Results (4.30.5)

Type	Result	Type	Result
[illegible]	[illegible]	[illegible]	[illegible]

Fillet Test Results (4.30.2.3 and 4.30.4.3)

Appearance [illegible] Fillet Size [illegible]
Macro Test [illegible] Undercutting [illegible]
Describe the location, nature, and size of any crack or tearing of the specimen:

Inspected by [illegible] Test Number [illegible]

RADIOGRAPHIC TEST RESULTS (4.30.3.1)

Film Identification Number	Results	Remarks	Film Identification Number	Results	Remarks
[illegible]	[illegible]		[illegible]	[illegible]	

Interpreted by [illegible]
Organization [illegible] Test number [illegible]
Date [illegible]

We, the undersigned, certify that the statements in this record are correct and that the test welds were prepared, welded and tested in accordance with the requirements of Section [illegible] of ANSI/AWS D1.1 [illegible] (year) Structural Welding Code – Steel.

For Contractor or Testing Agency [illegible] Authorized By [illegible]
Date [illegible]

WELDER, WELDING OPERATOR, OR TACK WELDER QUALIFICATION TEST RECORD

Name of Welder: JODY NADEAU
Name: LMC Light Iron, Inc. Identification no.: 007-70-5910
Welding Procedure Specification No.: 1 Rev.: N/A Date: 2/03/05

Variables	Record Actual Values Used in Qualifications	Qualification Range
Process/Type [Table 4.10, Item (1)]	FCAW	
Electrode (single or multiple) [Table 4.10, Item (3)]	045 E71T-1	ALL
Current/Polarity	210 Amps DC+	
Position [Table 4.10, Item (3)]	1G	1G
Weld Progression [Table 4.10, Item (5)]	N/A	N/A
Backing YES or NO [Table 4.10, Item (7)]	YES	YES
Material/Spec.	Group 1 to Group 1	
Base Metal		
Thickness (Plate)		
Groove	3/8"	1/8-3/4
Fillet	N/A	F & H Unlimited
Thickness (Pipe/Tube)		
Groove	N/A	1/8-3/4
Fillet	N/A	F & H Unlimited
Diameter (Pipe)		
Groove	N/A	OVER 24" DIA.
Fillet	N/A	OVER 24" DIA.
Filler Metal [Table 4.11, Item (3)]		
Spec. No.	A5.20	
Class	E71T-1	
F-No. [Table 4.10, Item (4)]	F6	F6
Gas/Flux Type [Table 4.10, Item (8)]	75% Argon/25% CO2	
Other	N/A	N/A

VISUAL INSPECTION (4.8.1)
Acceptable YES or NO YES

Guided Bend Test Results (4.30.3)

Type	Result	Type	Result
1G FACE BEND	ACCEPTABLE	1G ROOT BEND	ACCEPTABLE

Fillet Test Reports (4.30.2.3 and 4.30.4.1)

Appearance	N/A	Fillet Size	N/A
Fracture Test Root Penetration	N/A	Macroetch	N/A

(Describe the location, nature and size of any crack or tearing of the specimen.)

Inspected by: Stephen D. Hamilton Test Number: N/A
Organization: LMC Light Iron, Inc. Date: 2/03/05

RADIOGRAPHIC TEST RESULTS (4.30.5.1)

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

Interpreted by: N/A Test Number: N/A
Organization: N/A Date: N/A

We, the undersigned, certify that the statements in this record are correct and that the test welds were prepared, welded, and tested in accordance with the requirements of Section 4 of AWS D1.1 (2002) Structural Welding Code — Steel.

Manufacturer or Contractor: LMC Light Iron, Inc. Authorized by: [signature]
Date: 2-3-05

WELDER, WELDING OPERATOR OR TACK WELDER QUALIFICATION TEST RECORD

Type of Welder _____ Identification No. _____

Name _____ Date _____

Welding Procedure Specification No. _____ Rev. _____ Date _____

Variables	Record Actual Values Used in Qualification	Qualification Range
Process/Type (Table 4.10, Item (2))		
Electrode (single or multiple) (Table 4.9, Item (9))		
Current/Polarity		
Position (Table 4.10, Item (3))		
Weld Progression (Table 4.10, Item (7))		
Backing (Table 4.10, Item (5))		
Backing Material (Table 4.10, Item (6))		
Base Material		
Thickness (Plate)		
Groove		
Fillet		
Thickness (Pipe)		
Groove		
Fillet		
Diameter (Pipe)		
Groove		
Fillet		
Filler Metal (Table 4.10, Item (8))		
Spec. No.		
Class		
F-No.		
Gas/Flux Type (Table 4.10, Item (4))		
Other		

Visual INSPECTION (4.9.1)

Acceptable YES or NO _____

Bend Test Results (4.30.5)

Type	Result	Type	Result

Fillet Test Results (4.30.2.5 and 4.30.4.1)

Appearance _____ Fillet Size _____

Fracture Test Results _____ Macroetch _____

(Describe the location, nature, and size of any crack or tearing of the specimen.)

Inspected by _____ Test Number _____

Examination _____ Date _____

Other GRAPHIC TEST RESULTS (4.30.3.4)

Plate Identification Number	Results	Remarks	Plate Identification Number	Results	Remarks

Supervised by _____ Test Number _____

Organization _____ Date _____

We, the undersigned, certify that the statements in this record are correct and that the test welds were prepared, welded and tested in accordance with the requirements of section 4 of ANSI/AWS D1.1 _____ Structural Welding Code—Steel.

(year)

Manufacturer or Contractor _____ Authorized by _____

Date _____

BECKER
STRUCTURAL ENGINEERS

MILL CERTIFICATIONS

PROJECT UNE GODDARD HALL RENOVATION

STRUCTURAL STEEL	☒RECEIVED	DATE: 10-27-11	☐NOT RECEIVED
BOLTS	☒RECEIVED	DATE: 10-27-11	☐NOT RECEIVED
WELD FILLER	☒RECEIVED	DATE: 10-27-11	☐NOT RECEIVED

ITEMS ABOVE MARKED "RECEIVED" HAVE NOT BEEN INCLUDED IN THIS REPORT DUE TO THE LARGE VOLUME. HARD COPIES ARE AVAILABLE UPON REQUEST.

SPECIAL INSPECTOR: DSB DATE: 10-27-11

Special Inspections – Exhibit C

Quality Assurance for Seismic Resistance Seismic Checklist
Quality Assurance for Seismic Resistance Wind Checklist
Schedule of Inspections

Quality Assurance Plan – Seismic and Wind

QUALITY ASSURANCE FOR SEISMIC RESISTANCE CHECK LIST [IBC 1705]

Seismic Design Category B

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

Structural:

☐ The seismic-force-resisting systems
- ☐ Steel Braced Frames and associated connections/anchorage
- ☐ Steel Moment Frames and associated connections
- ☐ Shear walls: ☐ CMU ☐ Wood ☐ Concrete ☐ Diaphragms: ☐ Floor ☐ Roof
- ☐ Other:

QUALITY ASSURANCE FOR WIND RESISTANCE CHECK LIST [IBC 1706]

Wind Exposure Category B

REQUIRED	NOT REQUIRED	NOT APPLICABLE	QUALITY ASSURANCE PLAN REQUIREMENTS (A Quality Assurance Plan is required where indicated below)
☐	☒	☐	In wind exposure Categories A and B, where the 3-second-gust basic wind speed is 120 miles per hour (mph) (52.8 *m/sec)* or greater.
☐	☐	☒	In wind exposure Categories C and D, where the 3-second-gust basic wind speed is 110 mph (49 *m/sec)* or greater.

Prepared by:

Daniel S. Burne, P.E. – Becker Structural 10-8-10

Signature Date

Building Code Official's Acceptance:

Signature Date

Project: University of New England – Goddard Hall Renovation
Date Prepared: 10/8/2010

Structural Schedule of Special Inspections
SEISMIC RESISTANCE - STRUCTURAL

VERIFICATION AND INSPECTION IBC Section 1707	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Special inspections for seismic resistance. Special inspection as specified in this section is required for the following:			**Seismic Design Category: B**			
a. The seismic-force-resisting systems in structures assigned to Seismic Design Category C, D, E or F	N	P	IBC 1707.1		PE/SE or EIT	
2. Structural steel: Continuous special inspection for structural welding in accordance with AISC 341.	N	P	IBC 1702.2		AWS-CWI	
3. Structural wood:						
a. Continuous special inspection during field gluing operations of elements of the seismic-force-resisting system.	N	C	IBC 1702.3		PE/SE or EIT	
b. Periodic special inspections for nailing, bolting, anchoring and other fastening of components within the seismic-force-resisting system, including drag struts, braces and hold-downs	N	P	IBC 1702.3		PE/SE or EIT	
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, including struts, braces, and hold-downs	N	N				
4. 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	N	IBC 1707.8			

Special Inspections – Exhibit D

Fabricator's Statement of Responsibility

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: ***University of New England - Goddard Hall Renovation, Portland, Maine***

Fabricator's Name: ***LMC Light Iron, Inc.***

Address: ***151 Range E. Road, Limerick, Maine 04048***

Certificate or Approval Agency: ***AWS***

Certificate Number: ***D1.1***

Date of Last Audit or Approval: ***See Attached***

Description of structural members and assemblies that have been fabricated:

All structural steel indicated on contract documents.

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

Stan Hamlet — Signature

10-7-11 — Date

PRESIDENT — Title

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

End of Special Inspections Report