ENGINEERING DEPARTMENT

ADDENDUM TO THE CONTRACT

for the

Mendenhall Valley Public Library
Contract No. E14-051

ADDENDUM NO.: **TEN**

CURRENT DEADLINE FOR BIDS:
April 9, 2014

PREVIOUS ADDENDA: **NINE**

ISSUED BY:

City and Borough of Juneau
ENGINEERING DEPARTMENT
155 South Seward Street
Juneau, Alaska 99801

DATE ADDENDUM ISSUED: **April 8, 2014**

The following items of the contract are modified as herein indicated. All other items remain the same. This addendum has been issued and is posted online. Please refer to the CBJ Engineering Contracts Division webpage at: http://www.juneau.org/engineering_ftp/contracts/Contracts.php

PROJECT MANUAL:

Item No. 1 SECTION 013515 – LEED REQUIREMENTS:

Delete specification section in its entirety and ***replace*** with attached section.

By: _____
Greg Smith,
Contract Administrator

Total number of pages contained within this Addendum: 11

SECTION 013515 - LEED REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. This section includes general requirements and procedures for compliance with certain U.S. Green Building Council (USGBC) LEED® prerequisites and credits needed for the Project to obtain LEED Gold certification.

1. Other LEED prerequisites and credits needed to obtain LEED certification are dependent on material selections and may not be specifically identified as LEED requirements. Compliance with requirements needed to obtain LEED prerequisites and credits may be used as one criterion to evaluate substitution requests.
2. Additional LEED prerequisites and credits needed to obtain the indicated LEED certification are dependent on the Architect's design and other aspects of the Project that are not part of the Work of this contract.
3. The Contractor will implement practices and procedures to meet the Project's targeted LEED certified rating. Assure that all project team members are aware of LEED certification goals and comply with documentation requirements.
4. The Contractor and Subcontractors are required to furnish documentation to meet LEED requirements. Not providing the necessary documentation may lead to a request for re-submittal. Periodic meetings should be conducted with project team and subcontractors to ensure all understand the documentation requirements, and that the appropriate documentation is being collected.

1.2 RELATED SECTIONS

A. It should be assumed that all section may include requirements intended to achieve LEED credits.

B. Related sections include the following:

1. Section 017340 – Indoor Air Quality
2. Divisions 2 through 48 Section for LEED Requirements specific to the Work of each of these Sections. These requirements may or may not include reference to LEED.
3. Section 019113 - Commissioning

1.3 DEFINITIONS

A. LEED-NC 2009: Leadership in Energy and Environmental Design – Green Building Rating System for New Construction and Major Renovations version 2009. LEED is a national rating system for green buildings created by the US Green Building Council and administered by the Green Building Certification Institute. All references to LEED throughout the Construction Documents shall mean LEED-NC.

B. Regional Materials: Materials that are harvested (extracted or recovered), processed and manufactured within a radius of 500 miles from the Project location.

C. Composite Wood and Agri-fiber Board: Manufactured materials made from wood or agricultural fibers manufactured with bonding agents. Composite wood materials include particle board, medium density fiberboard (MDF), plywood, strawboard, wheatboard, panel substrates and door cores.

1.4 SUBMITTALS

A. General: Submit additional LEED related submittals included in other Sections of the Specifications.

B. LEED submittals are in addition to other submittals. If submitted item is identical to that submitted to comply with other requirements, submit duplicate copies as a separate submittal to verify compliance with indicated LEED requirements.

C. Project Construction Materials Cost Data: Provide the necessary material cost data required to complete the LEED-Online calculators, including the total Project materials cost and itemized costs of specific materials being tracked for LEED Materials and Resources credits. The total project construction materials cost includes all materials contained in CSI MasterFormat™ 2004 Edition Divisions 03 through 10, 31 and 32. All material costs exclude labor and equipment the total materials cost is exclusive of Specialties, Conveying Systems and Mechanical and Electrical components.

D. LEED Action Plans: Within 30 days of Notice to Proceed submit the following action plans:

1. Credit EQc3.1 – Construction IAQ Management Plan: Construction indoor air quality management plan complying with Division 1 Section “Construction IAQ Management.”

E. LEED Progress Reports: Concurrent with each Application for Payment, submit reports summarizing progress in construction and purchasing activities related to the following credits:

1. Credit EQc3.1 – Construction IAQ Management Plan: Construction indoor air quality management reports complying with Division 1 Section “Construction IAQ Management.”
2. Credit MRc5 – Regional Materials: Summary of manufacturer’s information and material costs collected for all regional materials that have been purchased or installed.
3. Credit EQc4 – Low-Emitting Materials: Summary of product data collected for all adhesives, sealants, paints, coatings, carpeting, composite wood materials and laminating adhesives used to fabricate composite wood assemblies that are installed inside of the building’s moisture barrier.

F. LEED Documentation Submittals: For each Section of the Specification, submit the following for each applicable LEED Credit.

1. Credit SSc4.2 – Alternative Transportation, Bicycle Storage and Changing Rooms: Cut sheets of installed bicycle securing apparatus.
2. Credit SSc7.2 – Heat Island Effect, Roof: Cut sheets and product data for roofing materials indicating reflectance and emittance, or solar reflectance index. Reflectance must be measured according to ASTM E903-96, ASTM E1918-97, or ASTM C1549-04. Emittance must be measured according to ASTM E408-71 or ASTM C1371-04. SRI must be calculated according to ASTM E1980-01).

3. Credit SSc8 – Light Pollution Reduction: Cut sheets for all exterior light fixtures indicating lamp lumen data and shielding and cut-off information.
4. Credit WEc2 – Innovative Wastewater Technologies: Cut sheets for toilets and urinals indicating flush volumes (gallons/flush).
5. Credit WEc3 – Water Use Reduction: Cut sheets for all faucets, showers, toilets and urinals indicating flow rates (gallons/minute) and flush volumes (gallons/flush).
6. Prerequisite EAp3 – Fundamental Refrigerant Management: Cut sheets for HVAC&R equipment indicating refrigerant type.
7. Credit MRc5 – Regional Materials:

    a. Cut sheet, product literature or letter from manufacturer indicating the location of harvest, processing and manufacturer.
    b. Material cost.

8. Credit EQc3.1 – Construction IAQ Management Plan, During Construction:

    a. Comply with Division 1 Section "Construction IAQ Management."
    b. Cut sheets indicating MERV values for filtration media used during construction.
    c. Photographs highlighting the IAQ Management Plan practices, labeled to identify the highlighted approach. At least 18 photographs – six photographs taken on three different occasions during construction."

9. Credit EQc3.2 – Construction IAQ Management Plan, After Construction:

    a. Narrative outlining the building flush-out procedures, including start and finish dates and mechanical system settings. If possible, providing trend log from DDC system for flush-out period.
    b. If IAQ testing is performed in place of building flush-out, provide specifications and documentation demonstrating conformance with IAQ testing procedures per credit requirements.

10. Credit EQc4.1 – Low-Emitting Materials, Adhesives and Sealants:

    a. Product data and Material Safety Data Sheets (MSDS) for all adhesives and sealants used inside the building's moisture barrier indicating the Volatile Organic Compound (VOC) content of each product and verifying that each product meets the LEED requirements (Refer to "Low Emitting Materials" paragraph in Part 2). Indicate VOC content in grams/liter (g/l).
    b. List of all installed adhesives and sealants including manufacturer, quantity used in gallons and VOC content. Indicate VOC content in g/L calculated according to 40 CFR 59, Subpart D and meets South Coast Air Quality Management (SCAQM) Rule #1168.

11. Credit EQc4.2 – Low-Emitting Materials, Paints and Coatings:

    a. Product data and Material Safety Data Sheets (MSDS) for all paints and coatings used inside the building's moisture barrier indicating the VOC content of each product and verifying that each product meets the LEED requirements

(Refer to "Low Emitting Materials" paragraph in Part 2). Indicate VOC content in grams/liter (g/l).

b. List of all installed paints including manufacturer, quantity used in gallons and VOC content. Indicate VOC content in g/L calculated according to 40 CFR 59, Subpart D and meets SCAQMD RULE #1168.

12. Credit EQc4.3 – Low-Emitting Materials, Flooring Systems:

a. Cut sheets or letter from manufacturer clearly indicating that all carpet products meet the CRI Green Label Plus Test Program requirements.
b. Cut sheets or letter from manufacturer clearly indicating that all carpet cushion products meet the CRI Green Label Test Program requirements.
c. Product data and Material Safety Data Sheets (MSDS) for all carpet adhesives indicating the Volatile Organic Compound (VOC) content of each product and verifying that each product meets the LEED requirements (Refer to "Low Emitting Materials" paragraph in Part 2 for EQc4.1). Indicate VOC content in grams/liter (g/l).
d. Cut sheets or letter from manufacturer clearly indicating that all hard surface flooring is certified compliant with the FloorScore standard or equivelant.
e. Product data and Material Safety Data Sheets (MSDS) for all sealers, stains and finishes applied on-site to concrete, wood, bamboo and cork flooring indicating the Volatile Organic Compound (VOC) content of each product and verifying that each product meets the LEED requirements (Refer to "Low Emitting Materials" paragraph in Part 2 for EQc4.2). Indicate VOC content in grams/liter (g/l).
f. Product data and Material Safety Data Sheets (MSDS) for all tile setting adhesives and grouts indicating the Volatile Organic Compound (VOC) content of each product and verifying that each product meets the LEED requirements (Refer to "Low Emitting Materials" paragraph in Part 2 for EQc4.1). Indicate VOC content in grams/liter (g/l).

13. Credit EQc4.4 – Low-Emitting Materials, Composite Wood:

a. Cut sheets clearly indicating the bonding agents used for each composite wood and agri-fiber product and assembly, as well as all laminating adhesives used on and off-site, demonstrating that no added urea-formaldehyde resins are used in these products."

PART 2 - PRODUCTS

2.1. SUMMARY OF REFERENCED STANDARDS

A. Credit SSc7.1 – Heat Island Effect, Non-roof

1. Solar Reflectance Index (SRI) must be of at least 29

B. Credit SSc7.2 – Heat Island Effect, Roof

1. Solar Reflectance Index (SRI) must meet the following:

Roof Type	Slope	SRI
Low-Sloped Roof	< 2:12	78
Steep-Sloped Roof	> 2:12	29

C. Credit WEc2 – Water Efficient Landscaping: No Potable Water Use

1. Temporary irrigation system must be removed within one year or after plants are established, whichever is first.

D. Credit WEc3 – Water Use Reduction

1. Plumbing fixtures must not exceed the following rates:
   a. Pressure assist water closet (=< 1.28 gpf),
   b. Low-flow urinal (=< 0.125 gpf),
   c. Low-flow shower (=< 1.0 gpm),
   d. Aerators on lavs (=< 0.5 gpm),
   e. Aerators on kitchen sinks (=< 1.5 gpm).

E. Prerequisite EAp3 – Fundamental Refrigerant Management

1. HVAC system refrigerant must not contain CFCs

F. Credit EAc4 – Enhanced Refrigerant Management:

1. HVAC system refrigerant must minimize or eliminate the emission of compounds that contribute to ozone depletion and global warming.

G. Credit MRc5 – Regional Materials:

1. This product must be sourced by a manufacturer or supplier that harvests, extracts, processes and manufactures the product within 500 miles of the project site.

H. EQ Credit 4.1: Adhesives and Sealants

1. Adhesives and sealants used on the interior of the building during construction shall comply with the VOC limits of the South Coast Rule #1168 by the South Coast Air Quality Management District, dated July 1, 2005 and rule amendment date of January 7, 2005 (*www.aqmd.gov/rules/reg/reg11/r1168.pdf*).

   VOC limits in grams per liter for adhesives and sealants used on interior of building are as follows:

	VOC Limit (g/L)
Welding and Installation	
Indoor Carpet Adhesives	50
Carpet Pad Adhesives	50
Wood Flooring Adhesive	100
Rubber Floor Adhesives	60

Subfloor Adhesives	50
Ceramic Tile Adhesives	65
VCT and Asphalt Tile Adhesives	50
Dry Wall and Panel Adhesives	50
Cove Base Adhesives	50
Multipurpose Construction Adhesives	70
Structural Glazing Adhesives	100
PVC Welding	510
CPVC Welding	490
ABS Welding	325
Plastic Cement Welding	250
Adhesive Primer for Plastic	550
Contact Adhesive	80
Special Purpose Contact Adhesive	250
Structural Wood Member Adhesive	140
Sheet Applied Rubber Lining Operations	850
Top & Trim Adhesive	250
Substrates	
Metal to metal	30
Plastic foams	50
Porous material except wood	50
Wood	30
Fiberglass	80
Sealants	
Architectural	250
Nonmembrane roof	300
Roadway	250
Single-ply roof membrane	450
Other	250
Sealant Primers	
Architectural- Nonporous	250
Architectural- Porous	775
Other	750

2. Aerosol adhesives used on the interior of the building shall comply with the VOC limits of Green Seal Standard for Commercial Adhesives GS-36 requirements in effect on October 19, 2000.

   VOC limits in percent by weight for aerosol adhesives used on interior of building are as follows:

Aerosol Adhesives	
General purpose spray mist	65% VOCs by weight
General purpose web spray	55% VOCs by weight
Special purpose aerosol adhesive	70% VOCs by weight

3. Limits on VOCs in grams per liter for carpet adhesives shall comply with the VOC limits shown below:

	VOC Limit (g/L)
Adhesives	
Total VOCs	50

I. EQ Credit 4.2: Paints and Coatings

1. Paints applied on the interior of the building shall comply with Green Seal Product Specific Environmental Requirements (www.greenseal.org/standard/paints.htm). The Green Seal standard is intended for paints and anti-corrosive paints. Both interior and exterior paints are addressed by the standard, but only limits for interior paints apply to a LEED project. Architectural paints coating and primers applied to interior walls as well as Anti-corrosive paints applied to interior ferrous metal shall not exceed the VOC limits set forth in Green Seal Standard GS-11. Limits on VOCs in grams per liter for paints and anti-corrosive paints are as follows:

Interior Coatings	VOC Limit (g/L)
Non-flat paints and primers	150
Flat paints and primers	50
Anti-Corrosive (Green Seal GS-03)	250

2. Clear wood finishes, floor coatings, stain, sealers and shellacs applied to interior elements during construction shall comply with the VOC limits set forth in South coast Air Quality Management District (SCAQMD) Rule 1113, Architectural Coatings, dated January, 2004.

	VOC Limit (g/L)
Bond breakers	350
Clear Wood Finish	350
Varnish	350
Sanding	350
Sealers - Lacquer	550
Clear brushing lacquer	680
Concrete-curing compounds	350
Dry-fog coatings	400
Fire-proofing exterior coatings	350
Fire-retardant coatings	
Clear	650
Pigmented	350
Flats	100
Floor coatings	100
Graphic arts (sign) coatings	500
Industrial maintenance (im) coatings	250
High temperature im coating	420
Zinc-rich im primers	340
Japans/faux finishing coatings	350
Magnesite cement coatings	450

Mastic coatings	300
Metallic Pigmented coatings	500
Multicolor coatings	250
Nonflat coatings	150
Pigmented lacquer	550
Pretreated wash primers	420
Primers, sealers, undercoaters	200
Quick-dry enamels	250
Quick-dry primers, sealers, undercoats	200
Recycled coatings	250
Rust: preventive coatings	400
Shellac	
Clear	730
Pigmented	550
Specialty primers	350
Stains	250
Interior	250
Traffic Coatings	150
Swimming pool coatings	
Repair	650
Other	340
Waterproofing sealers	250
Waterproofing concrete / masonry sealers	400
Wood preservatives	350
Other	350

J. EQ Credit 4.3: Flooring Systems

1. Carpets installed within the building during construction shall meet the testing and product requirements of the Carpet and Rug Institute Green Label Plus program.
2. Carpet cushion installed within the building during construction shall meet thee requirements of the Carpet and Rug Institute Green Label program.
3. Carpet adhesives shall meet the requirements of EQ credit 4.1: VOC limit of 50 g/l.
4. Hard surface flooring installed within the building must be certified as compliant with the FloorScore standard by an independent third-party. Flooring products covered by FloorScore include vinyl, linoleum, laminate flooring, wood flooring, rubber flooring and wall base.
5. Finishes, such as sealers and stains, applied to concrete, wood, bamboo and cork flooring shall comply with the VOC limits set forth in South coast Air Quality Management District (SCAQMD) Rule 1113, Architectural Coatings, dated January, 2004.
6. Tile setting adhesives and grout shall comply with the VOC limits set forth in South coast Air Quality Management District (SCAQMD) Rule 1168, effective date of July 1, 2005 and rule amendment date of January 7, 2005.

K. EQ Credit 4.4: Composite Wood and Agrifiber Products

1. Composite wood and agri-fiber products installed inside the exterior moisture barrier shall contain no added urea-formaldehyde resins.
2. Laminating adhesives used to fabricate on-site and shop-applied composite wood and agrifiber assemblies shall contain no added urea-formaldehyde resins.

L. Credit EQc5 – Indoor Chemical and Pollutant Source Control:

1. Provide MERV 13 or greater air filtration media on all supply air.

PART 3 - EXECUTION

3.1 SITE DISTURBANCE

A. Credit SSc5.2 - Site Disturbance: Limit site disturbance including earthwork and clearing of vegetation to 40 feet beyond the building perimeter, 10 feet beyond surface walkways, patios, surface parking and utilities less than 12 inches in diameter; 15 feet beyond primary roadway curbs and main utility branch trenches; and 25 feet beyond constructed areas with permeable surfaces.

3.2 CONSTRUCTION INDOOR AIR QUALITY MANAGEMENT

A. Credit EQ3.1:

1. Comply with the recommended Control measures of the SMACNA IAQ Guidelines for Occupied Buildings under Construction, 1996, Chapter 3.
2. Protect stored on-site or installed absorptive materials from moisture damage.
3. If permanently installed air handlers are used during construction, filtration media with a MERV of 8 shall be used at each return air grille.
4. Replace all filtration media immediately prior to occupancy.

B. Credit EQ 3.2: After construction ends, prior to occupancy and with all interior finishes installed, perform a building flush-out by supplying a total air volume of 14,000 cu.ft. of outdoor air per sq.ft. of floor area while maintaining an internal temperature of at least 60 degrees F and relative humidity no higher than 60%.

C. Credit EQc3.1 and 3.2: Comply with Division 1 Section “Construction Indoor Air Quality.”

3.3 USGBC LEED DOCUMENTATION

A. Contractor shall upload all required supporting documentation and complete USGBC LEED online certification forms for the following credits:

1. Sustainable Site, Prerequisite 1 – Construction Activity Pollution Prevention.
2. Materials and Resources, Credit 5 – Regional Materials
3. Indoor Environmental Quality, Credit 3.1 – Construction IAQ Plan, During Construction
4. Indoor Environmental Quality, Credit 3.2 – Construction IAQ Plan, Before Occupancy
5. Indoor Environmental Quality, Credit 4.1 – Low-Emitting Materials, Adhesives and Sealants.

6. Indoor Environmental Quality, Credit 4.2 – Low-Emitting Materials, Paints and Coatings.
7. Indoor Environmental Quality, Credit 4.3 – Low-Emitting Materials, Flooring Systems.
8. Indoor Environmental Quality, Credit 4.4 – Low-Emitting Materials, Composite Wood and Agrifiber Products.

END OF SECTION