



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

PAT MCCRORY  
GOVERNOR

ANTHONY J. TATA  
SECRETARY

February 14, 2014

**Addendum No. 2**

RE: Contract ID C203357

WBS # 41188.3.FS1

F. A. # IMS-085-1(106)3

**Gaston County (I-4928)**

I-85 NBL Weigh Station From SR-1302 (Crowders Mountain Road)

To SR-1307 (Edgewood Road)

**February 18, 2014 Letting**

To Whom It May Concern:

Reference is made to the proposal furnished to you on this project.

The following revisions have been made to the proposal:

On Page No. 110 the 3<sup>rd</sup> and 5<sup>th</sup> paragraphs of "Section 12.33 Reinforced Static Scale Decks" have been revised. Please void Page No. 110 in your proposal and staple the revised Page No. 110 thereto.

New Page No. 387-A has been added to clarify the building utility services for water and sewer. Please staple New Page No. 387-A after existing Page No. 387 in your proposal.

Page Nos. 463 and 464 under Section 08800.2.02 Glass Types have been revised to change the glass type required. Please void Page Nos. 463 and 464 in your proposal and staple the revised Page Nos. 463 and 464 thereto.

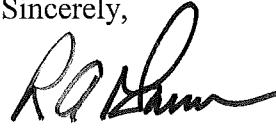
New Page No. 566-A has been added to include "approved equals" for "Fans" and "Duct-less Split System". Please staple New Page No. 566-A after existing Page No. 566 in your proposal.

**MAILING ADDRESS:**  
NC DEPARTMENT OF TRANSPORTATION  
CONTRACT STANDARDS AND DEVELOPMENT UNIT  
1591 MAIL SERVICE CENTER  
RALEIGH NC 27699-1591

TELEPHONE: 919-707-6900  
FAX: 919-250-4119  
**WEBSITE:** [www.ncdot.gov](http://www.ncdot.gov)

**LOCATION:**  
CENTURY CENTER COMPLEX  
ENTRANCE B-2  
1020 BIRCH RIDGE DRIVE  
RALEIGH NC 27610

Sincerely,



R. A. Garris, PE  
Contract Officer

RAG/jag  
Attachments

cc: Mr. Ron Hancock, PE  
Mr. Reuben Chandler, PE (Acting)  
Ms. D. M. Barbour, PE  
Mr. Rodger Rochelle, PE  
Mr. R.E. Davenport, PE  
Project File (2)

Mr. Ray Arnold, PE  
Ms. Natalie Roskam, PE  
Mr. Chris Haire, PE  
Mr. Ronnie Higgins  
Ms. Marsha Sample  
Ms. Lori Strickland

Engineer have been completed. The slab surface within 6 inches of the slab edge and 2 inches of scale frames and slab end shall not be grooved. The areas between the scale frames shall not be grooved.

### 12.32 WIM Slab Working Drawings

When sufficient information on the proposed weigh-in-motion system is provided the Engineer and approval is given for a system, the Engineer will prepare revised details of the contract plans, if necessary, to accommodate installation of the frames. Revisions shall include necessary changes in dimensions, reinforcing steel and concrete blockouts of contract plans. No adjustment will be made in the contract price for any bid item due to revisions necessary to accommodate the frames, but the entire cost of same shall be absorbed in the lump sum paid for furnishing and installing the system. The Contractor shall provide in advance of the scheduled installation time for the weigh-in-motion system, all complete drawings, specifications and necessary data for the preparation of revised contract plans and no claim for delays will be permitted due to his failure to provide complete detailed drawings specifications and necessary data promptly.

### 12.33 Reinforced Concrete Static Scale Decks

Scale decks shall be constructed in accordance with details shown in the plans, these special provisions and approved scale manufacturers drawings.

All structural steel including the check rods, holders, and stands shall be painted in accordance with Section 442 of the Standard Specifications, except payment will be considered incidental to the overall contract bid items.

The load cell holder/stands and all exposed metal surfaces in the pit (girders, stay in place forms, etc.) shall undergo either hot dipped galvanizing or covering in a corrosion resistant epoxy paint. Galvanizing or painting of all exposed metal surface shall be done in accordance with Section 442 of the Standard Specifications.

Anchor bolts, nuts and washers shall be hot dipped galvanized

Each deck shall be supported by a weighbridge and shall be installed in a common pit with each deck separated as shown in the plans. The decks shall be 12' x 54', 12' x 14' and 12' x 12' each with an 8" reinforced steel concrete deck enclosed in steel channels for protection of the deck edges.

The 12' x 14' and 12' x 12' deck and weighbridge units shall have a 30 ton minimum gross capacity with two sections and shall be rated for 100% end loading. The 12' x 54' deck and weighbridge shall have a 75 ton gross capacity with three sections rated not less than 37.5 tons each. Each deck and weighbridge shall have a longitudinal and lateral check system at each corner to prevent horizontal motion detrimental to the weighing operation.

New 2-14-14



**BURKE DESIGN GROUP, PA**  
**CONSULTING ENGINEERS**

**387-A**

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(919) 771-1916 ▪ (919) 779--0826 fax  
3305-109 Durham Dr. ▪ Raleigh, NC 27603

Date: 02/12/14  
Project: I-4928: I-85 NBL Weigh Station  
Gaston County NC  
RE: Addendum # 2  
Building Utilities



- 1) The contractor shall provide a separate 4" PVC sewer line from the Scale Building and Inspection Building to an existing manhole on site. See plumbing plans for locations of sewer lines leaving the building. The manhole is due west from the building locations. The elevation of the top of the man-hole is 730.07'. The manhole is located approximately 400 feet from the Scale Building and 480 feet from the Inspection Building. The lines shall be installed for gravity flow to the manhole. Provide clean-outs every 100 feet. Provide traffic rated cast-iron covers in all paved areas. Provide cast-iron covers with pre-cast concrete covers in all grassy areas.
- 2) The water supply to both buildings shall be from a new well. The contractor shall provide an allowance, as listed below, for the well, well pump, fiberglass pre-fabricated well house, etc. as required for a complete operating system. The system shall be capable of supplying 50 gpm. The minimum well pump size shall be 5 hp, 208 volt, 3 phase. The contractor shall provide water supply piping from the well location to both the buildings. See plumbing plans for water service sizes. Provide power to the well pump location from the Scale Building's main distribution panel. Provide a new breaker and wire to the well location. The wire shall be sized to maintain a maximum of 3% voltage drop. Provide an additional 120 volt, 20 amp circuit to the well house for heat tracing.

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SECTION 08800 - GLAZING

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**PART 1 - GENERAL**

**1.01 SUMMARY**

- A. Section Includes:
  - 1. Insulating glass units.
  - 2. Non-insulating glass units.
  - 2. Glazing accessories.
- B. Types of work in this section include work for:
  - 1. Single pane glass in interior aluminum windows.
  - 2. Single pane glass in interior doors.
  - 3. Insulating glass units in exterior aluminum windows.
  - 4. Insulating glass units in exterior doors.

**1.02 PERFORMANCE REQUIREMENTS**

- A. Exterior Glazing: Provide glazing assemblies which will withstand normal conditions without failure, loss of weathertightness, or deterioration.
- B. Deterioration includes:
  - 1. For insulating glass:
    - a. Moisture or dirt between panes.
    - b. Development of condensation between panes.
    - c. Damage to internal coating, if any.
    - d. Development of other visible indication of seal failure.

**1.03 SUBMITTALS**

- A. Product Data.
- B. Insulating Unit Warranty.

**1.04 WARRANTY**

- A. Warranty on Insulating Glass: Fabricator's standard warranty for 5 years.

**PART 2 - PRODUCTS**

**2.01 MANUFACTURERS**

- A. Manufacturers:
  - 1. Products of the following manufacturers or approved equal, provided they comply with requirements of the contract documents, will be among those considered acceptable:
    - a. Guardian Industries Corporation: [www.guardian.com](http://www.guardian.com)
    - b. Oldcastle Building Envelope: [www.oldcastlebe.com](http://www.oldcastlebe.com)
    - c. Pittsburgh Paint and Glass:
    - d. Viracon, Inc.: [www.viracon.com](http://www.viracon.com)

**2.02 GLASS TYPES**

- A. Glass Types - General: Provide glass types fabricated of the glass products indicated.
  - 1. Exterior glass thickness: 6 mm (1/4 inch nominal), unless otherwise indicated.
  - 2. Where safety glazing is required by governing authorities, provide certified safety glazing.
- B. Glass Type 1: Insulating units at sliding and fixed windows.
  - 1. Total thickness: 1 inch insulating, nominal
  - 2. Exterior: Basis of Design: PPG or approved equal: OUTDOOR LITE: 1/4" Starphire®; AIRSPACE: thickness as indicated - Air; INDOOR LITE: 1/4" Solarban® 70XL (3) on Starphire®
    - a. Two-ply.
    - b. Thickness of plies: 1/4" (6 mm).
    - c. Color: Outer and inner plies: Clear.
    - d. Shading Coefficient: 0.27
    - e. Solar Heat Gain Coefficient: 0.24.
    - f. visible light transmission=47%.
    - g. Winter U-value: 0.29 or better.
    - h. Summer U-value: 0.27 or better.

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- C. Glass Type 2: Insulating units at exterior doors.
  - 1. Total thickness: 1 1/16 inch insulated, nominal
  - 2. Exterior: Basis of Design: PPG or approved equal: OUTDOOR LITE: 1/4" Starphire®; AIRSPACE: thickness as indicated - Air; INDOOR LITE: 1/4" Solarban® 70XL (3) on Starphire®
    - a. Two-ply.
    - b. Thickness of plies: 1/4" (6 mm).
    - c. Color: Outer and inner plies: Clear.
    - d. Shading Coefficient: 0.30
    - e. Solar Heat Gain Coefficient: 0.26.
    - f. visible light transmission=47%.
    - g. Winter U-value: 0.46 or better.
    - h. Summer U-value: 0.46 or better.
- D. Glass Type 3: 1/4" Fully Tempered glass units.
- E. Glass Type 4: 1/4" Clear Float Glass.

**2.03 BASIC GLASS PRODUCTS**

- A. Sealed Insulating Units: Factory-assembled multiple panes separated by and sealed to spacers forming air-tight, dehydrated air space(s).
  - 1. ASTM E 774, Class B.
  - 2. Spacer seals: Manufacturer's standard.
- B. Fully tempered float Glass: Quality q3, unless otherwise indicated.
  - 1. ASTM C 1048, Kind FT, Condition A, Type 1, Class 1. Minimized distortion.
- C. Clear Float Glass: Quality q3, unless otherwise indicated.
  - 1. ASTM C 1036, Type 1, Class 1 (Clear).

**2.04 INSTALLATION MATERIALS**

- A. Installation Materials - General: Select products which have appropriate performance characteristics as recommended by glass and glazing materials manufacturers and which are compatible with all materials with which they will come into contact.
- B. Heel and Toe Bead Sealant: Non-curing, non-skinning, minimum 75 percent solids, butyl or polyisobutylene rubber, complying with 802.3, Type II ductile back bedding compound, as described in AAMA 800.

**PART 3 - EXECUTION****3.01 INSTALLATION - GENERAL**

- A. Comply with recommendations for installation contained in the FGMA "Glazing Manual" and "Sealant Manual" except when specifically not recommended or prohibited by the glass or glazing material manufacturer; comply with manufacturer's recommendations.
- B. Protect glazing from edge damage during handling and installation.
- C. Do not install glass that has edge damage or defects that reduce glass strength or performance or diminish appearance.

**3.02 GLAZING IN FRAMES**

- A. Use continuous heel or toe bead at all exterior glazing.
- B. Do not block weep holes.
- C. Structural Adhesive Glazing: Perform glazing in strict accordance with instructions of structural glazing adhesive manufacturer and additional requirements elsewhere in the contract documents.

**3.03 PROTECTION AND CLEANING**

- A. Protect glass from contact with contaminating substances resulting from construction operations including weld splatter.
- B. Wash glass on both faces not more than four (4) days prior to date scheduled for inspections that establish date of Substantial Completion. Wash glass as recommended by glass manufacturer.

**END OF SECTION 08800**



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**CONSULTING ENGINEERS**

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Date: 02/12/14

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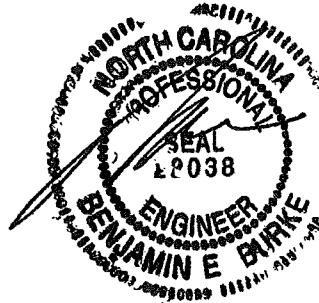
RE: Addendum #2  
Approved equals

Fans-

- a) Twin City Fans
- b) American Coolair Fans

Duct-less Split Systems-

- a) Panasonic
- b) Samsung



2/12/14