



ARCHITECTURE
ENGINEERING

February 03, 2012

Re: **TRI-COUNTY COUNCIL / SHORE TRANSIT BUS MAINTENANCE FACILITY
PHASE II**
Salisbury, Maryland
2009145.00

ADDENDUM FOUR

The contract documents for the above referenced project, dated January 5, 2012 are amended as follows:

CLARIFICATION

1. See attached Bidders Questions & Answers spreadsheet attached via this addendum
2. Note a public bid opening will be held at the Tri County Council for the Lower Eastern Shore-One Stop Job market, room 025, Administrative Division, 31901 Tri-County Way, Salisbury, MD 2:00 PM local time on Wednesday, February 8, 2012. Room 025 is located inside the One Stop Job Market left rear of the building.
3. Question #53 from Addendum #3 (Bidders questions & answers) was only partially answered- see also reply to question #37 (Addendum #4) for further info.

PROJECT MANUAL

1. TABLE OF CONTENTS
 - a. ADD SECTION 107114 Metal Sun Shades
2. SECTION 003000- BID FORM
 - a. REPLACE bid form in its entirety with attached
3. SECTION 008000 Supplementary general conditions

Paragraph 6.2.6 REPLACE the words "an arbitration" in line 3 of that sub-paragraph with "a" proceeding against the Owner .

Paragraph 8.3.1 REPLACE the word "mediation" on line 4 and replaced with the word "litigation"

Paragraph 12.2.1.2 REPLACE the first "Owner" in line 5 with "Contractor".

Paragraph 15.2.6 DELETE this paragraph in it's entirety

Paragraph 16.3 REPLACE The amount of liquidated damages amount per day .0015%, (which would be .000015 x contract total) with .15% (which would be .0015 x contract total).

4. SECTION 074113 Metal Roof Panels
 - a. ADD the following to subparagraph 2.5-F-1-c "Products"
 - i. 4) SNO-BARRICADE by SNO GEM, INC. 4800 Metalmaster way, McHenry, ILL 60050
 - b. ADD the following to subparagraph 2.1-E-2 "Underlayment Sheets"
 - i. c. IMETCO,2070 Steel Drive, Tucker, GA - Aqua Block 60 High Temp Underlayment



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- c. REPLACE the following line in subparagraph 2.4-A-6
 - i. "Panel height 2.0 inches" to read "Panel height 2.37 inches"
 - d. REPLACE the following line in subparagraph 2.4-A-4
 - i. "Joint Type: Single folded" to read "Joint Type: T-seam"
 - e. REPLACE the following line in subparagraph 2.4-A-3
 - i. "Fixed Clips are not permitted for use" to read "2-piece clips are not permitted for use"
5. SECTION 074213 Metal Wall Panels
 - a. ADD the following to subparagraph 2.1A-1 "Steel Wall Panels"
 - i. h. IMETCO Latitude Wall Panel LW16A-4
6. SECTION 087111 Door Hardware

ADD the following to paragraph 3.7 "Schedule of finish Hardware."

Door 3/126 to be added to hardware set 04
Door 4/126 to be added to hardware set 04
Door 1/123A to be added to hardware set 07
Door 1/113 to be added to hardware set 09
7. SECTION 083613 Overhead Sectional Doors
 - a. ADD to paragraph 2.3 Steel Insulated Doors (OH)
 - i. G. Finish Phosphate treatment followed by baked-on polyester powder coat, color as selected by Architect from manufacturer's standard color range, minimum 32 colors; minimum 2.5 mils (0.065 mm) cured film thickness; ASTM D-3363 pencil hardness: H or better.
8. SECTION 084113 Aluminum Entrances and Storefronts
 - a. REPLACE sub paragraph 2.6-C with the following " Clear Anodic Finish: AAMA 611, AA-M12C22A31, Class II, 0.010 mm or thicker."
9. SECTION 088000 Glazing
 - a. REPLACE spec section in it's entirety with attached
10. SECTION 095113 Acoustical panel and specialty ceilings

ADD paragraph 2.5 METAL SUSPENSION SYSTEM FOR ACOUSTICAL PANEL CEILING

A. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:

1. Armstrong World Industries, Inc.; Prelude 15/16" exposed tee system.

B. Wide-Face, Capped, Double-Web, Steel Suspension System: Main and cross runners roll formed from cold-rolled steel sheet, prepainted, electrolytically zinc coated, or hot-dip galvanized according to ASTM A 653/A 653M, not less than G30 coating designation, with prefinished 15/16-inch- wide metal caps on flanges.



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1. Structural Classification: Intermediate-duty system.
2. End Condition of Cross Runners: Override (stepped) type.
3. Face Design: Flat, flush.
4. Cap Material: Steel cold-rolled sheet.
5. Cap Finish: Painted white.

11. SECTION 105113(2) Metal evidence lockers
 - a. REPLACE spec section in it's entirety with attached
12. SECTION 107114 Metal Sun Shades
 - a. ADD spec section in it's entirety with attached

DRAWINGS

1. SHEET – A101 – FLOOR PLAN (BMG)
 - a. REVISE door frame of door 1/120 (Break Room) as shown in sketch MTA-SK-5 dated 1/31/12 issued via this addendum
 - b. ADD – fire rated wall type 2E to GWB walls around storage room 112 (plan north & west)
2. SHEET – A304 – WALL SECTIONS (BMG)
 - a. DELETE note “Fire rated HM metal window” from detail 1/A304
3. SHEET – A501 – WALL TYPES AND DETAILS (BMG)
 - a. REVISE wall type 2D to read “2C except GWB to 10’6” above finished floor”
4. SHEET – A601 – DOOR & FRAME TYPES, WINDOW ELEVATIONS, SCHEDULES (BMG)
 - a. ADD door frame HM-2 as shown in sketch MTA-SK-5 dated 1/31/12 issued via this addendum
 - b. REVISE door 1/120 as shown in sketch MTA-SK-5 dated 1/31/12 issued via this addendum.
 - c. ADD the following to the finish schedule for room 123A Sprinkler Closet: Floor Finish: CONC-SEAL, Base Mat.: NB, Walls (north east, south , west) mat: CMU/fin:EPT, Ceiling: mat-GWB/fin: EPT.
5. SHEET A701-INTERIOR ELEVATIONS (BMG)
 - a. ADD casework schedule to detail 12/A701 as noted in sketch MTA-SK-6 issued via this addendum

Attachments: Section 003000, Bid Form
Section 088000, Glazing
Section 105113 (2), Metal evidence Lockers
Section 107114, Metal Sun Shades
Bidders Questions & Answers through 2/1/12
BMG, Sketch MTA-SK-4 dated 1/27/12
BMG, Sketch MTA-SK-5 dated 1/31/12



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BMG, Sketch MTA-SK-6 dated 2/3/12

END OF ADDENDUM NO. FOUR

200914500_Addendum4-bus-main.doc

BID FORM

TO: Riggins Johnson, Transit Director,
Tri County Council for the Lower Eastern Shore of Maryland
Administrative Division
31901 Tri County Way
Snow Hill, Maryland 21804

RE: **Tri County Council – Bus Maintenance Facility - Shore Transit**
31901 Tri County Way
Salisbury, Maryland 21804

The undersigned BIDDER proposes and agrees, if this Bid is accepted, to enter into an Agreement with OWNER on the form included in the Contract Documents to complete all Work as specified or indicated in the Contract Documents for the Contract Price and within the Contract Time indicated in this Bid and in accordance with the Contract Documents.

BIDDER has examined the site and locality where the Work is to be performed, the legal requirements (federal, state and local laws, ordinances, rules and regulations) and the conditions affecting cost, progress or performance of the Work and has made such independent investigations as BIDDER seems necessary.

I/We agree to achieve total project substantial completion of the work within _____ calendar days (not to exceed 365 days) of the notice to proceed date. A construction schedule documenting this will be required to be submitted in accordance with Section 013200 Construction Progress Documentation.

Receipt of the following addenda to the drawings and specifications is hereby acknowledged:

Addendum No. _____ Dated _____ Addendum No. _____ Dated _____

Addendum No. _____ Dated _____ Addendum No. _____ Dated _____

BASE BID: Stipulated Lump Sum:

The sum of _____ Dollars, (\$ _____)

BIDDER hereby agrees to furnish all labor, materials, equipment and services required for the project.

LIST OF SUBCONTRACTORS:

Bidders must complete Section 004150 - Subcontractor Listing for this project at time of bid. Upon award of the Contract, the General Contractor must supply a completed AIA G705-2001, List of Subcontractors.

UNIT PRICES:

- Unit Price No. 1 – Excavation and removal of unsuitable material from site with furnishing and placing select backfill including compaction and all other incidental work. Measurement and payment will be made for quantities actually excavated, removed, furnished and placed. Unsuitable soil will be defined by the testing agency as specified in Section 312000 Earth Moving. Allow 3,000 CY of removal of unsuitable materials and replacement with select within base bid.

_____ Dollars per cubic yard (\$ _____ /cy)

2. Unit Price No. 2 – Construct Heavy Duty Rigid Concrete Pavement per the paving section shown on the contract documents. Price includes furnishing and placing required materials including compaction, grading, finishing and all other incidental work. Measurement and payment will be made for quantities actually furnished and placed per square yard.
 _____ Dollars per square yard (\$ _____ /sy)

3. Unit Price No. 3 – Construct 6” Curb and Gutter per the construction details on the contract documents. Price includes furnishing and placing required materials including stakeout, grading, finishing and all other incidental work. Measurement and payment will be made for quantities actually furnished and placed per lineal foot.
 _____ Dollars per lineal foot (\$ _____ /lf)

4. Unit Price No. 4 – Construct 3’ wide Concrete Vee Gutter per the construction details on the contract documents. Price includes furnishing and placing required materials including stakeout, grading, finishing and all other incidental work. Measurement and payment will be made for quantities actually furnished and placed per lineal foot.
 _____ Dollars per lineal foot (\$ _____ /lf)

5. Unit Price No. 5 – Mill existing asphalt paving to a depth of 1.5” and overlay with 2” of hot-mix asphalt paving. Paving mix shall be Superpave PG 76-22, 12.5 mm, level 2, 65 gyrations. Allowable RAP content = 15-20%. Price includes disposal of wasted materials, furnishing and placing required materials including stakeout, grading, finishing and all other incidental work. Measurement and payment will be made for quantities actually furnished and placed per square yard.
 _____ Dollars per square yard (\$ _____ /sy)

ALTERNATE NO. 1: Provide Metal Halide Exterior Lighting in lieu of LED Fixtures specified.

1. Provide and install metal halide lighting system and controls as noted on Drawing E-302 Site Lighting Fixture Schedule instead of LED fixtures and controls specified as base bid in same schedule.

ADD _____ Dollars, (\$ _____)

ALTERNATE NO. 2: Emergency Generator

1. Provide an emergency generator as defined by the contract documents as Add/Alt#2.

ADD _____ Dollars, (\$ _____)

ALTERNATE NO. 3: Delete Gas-fired Infrared Heaters from Base Bid Contract Documents

1. Provide No gas fired infrared heaters, gas piping to infrared heaters, or electrical connections are required. Gas piping will be capped and circuit breakers will become spares.

DELETE _____ Dollars, (\$ _____)

ALTERNATE NO. 4: Wash Bay Addition

1. Provide Additional Building area at Wash Bay 126 as defined by the contract documents as Add/Alt#4.

ADD _____ Dollars, (\$ _____)

ALTERNATE NO. 5: Fuel Depot

- 1. Provide fuel tanks, fuel dispensers, canopy, fuel monitoring system and all equipment and permits necessary to have a functioning fuel depot permitted by the State of Maryland to provide fuel to the Shore Transit fleet in accordance with the contract documents as Add Alternate #5.

ADD _____ Dollars, (\$ _____)

ALTERNATE NO. 6: Asphalt Paving of Rear Bus Lot.

- 1. Provide heavy duty asphalt surface paving for the gravel bus parking lot on the west end of the site. Construct the parking lot to the design grades shown in the base bid with the Heavy Duty Asphalt paving section shown on the contract documents as identified as Add Alternate No. 6

ADD _____ Dollars, (\$ _____)

ALTERNATE NO. 7: Prefabricated Metal Walkway Cover at Existing Multipurpose Center

- 1. Provide prefabricated metal walkway cover, foundation and associated lighting, flashing and underground drainage at existing multipurpose center building as defined by the contract documents as Add/Alt#7.

ADD _____ Dollars, (\$ _____)

ALTERNATE NO. 8: Flexible Asphalt Paving in lieu of Concrete Rigid Paving

- 1. Provide bituminous pavement in roadway and parking lot as indicated on Sheet C-603 in lieu of concrete pavement. Pavement will consist of both heavy duty sections and light duty sections in quantities indicated on Sheet C-603. Alternate includes transitions (Tie-in Details) as shown on sheet C-603.

ADD _____ Dollars, (\$ _____)

ALTERNATE NO. 9: Enlarge Fire Water Main

- 1. Provide 8” C900 PVC Fire Water Main in lieu of 4” main as shown on sheet C-305.

ADD _____ Dollars, (\$ _____)

ALTERNATE NO. 10: Epoxy floor at service bays

- 1. Provide Stonhard, Inc.; Stonclad GS with Stonkote GS4 or approved equivalent at service bay floors in lieu of sealed concrete floor finish as noted on finish schedule on sheet A601.

ADD _____ Dollars, (\$ _____)

ALTERNATE NO. 11: Double Wall Oil/Water Separator

1. Provide a double wall oil/water separator tank in lieu of a single wall tank (Sheet reference C-304). Highland Tank model number 05000HGDWHTCG or approved equal. Price shall reflect the difference in cost from the single wall to the double wall tank.

ADD _____ Dollars, (\$ _____)

ALTERNATE NO. 12: Alternate No. 12: Face Brick at Bus Maintenance Building

1. Provide Face Brick as noted in spec. section. 012300-3.1-L

ADD _____ Dollars, (\$ _____)

ALLOWANCE NO. 1: Lump-Sum Allowance: Include the sum of \$10,000.00 for the irrigation system. Owner has negotiated a purchase contract with JND Landscaping, Inc., 10770 Kemp Nursery Road, Princess Anne, MD 21853, for purchasing, receiving, handling, storage and installation of material and equipment for completion of the irrigation system (started under prior construction efforts) in the Contract Sum. Owner will assign this irrigation contract to the Contractor. Allowance is not eligible for DBE credit.

ALLOWANCE NO. 2: Lump-Sum Allowance: Include the sum of \$50,000 for furnishing and installing all materials necessary for completion of a 1,800 sq ft pole building

1. This allowance includes material cost, receiving, handling, and installation, and Contractor overhead and profit.

In submitting this bid we agree:

1. This offer is binding and cannot be withdrawn until ninety (90) days from date of Bid.
2. To accept the provisions of Instructions to Bidders.
3. To enter into and execute a contract, if awarded on the basis of this Bid, and to furnish performance and payment bonds in accordance with the Instructions to Bidders and Supplementary Conditions.
4. To accomplish the Work in accordance with the Contract Documents.
5. Owner will award based on review of lowest responsive and responsible bidder based on alternates, submitted proposed substantial completion date and bidders qualification.
6. All subcontractors or suppliers furnishing over \$100,000 in combined labor and material are bondable.
7. Add/Alternate pricing to be held for (90) days from date of Bid.

Owner will review base bids from responsive bidders, submitted proposed substantial completion dates and bidders' qualifications. Owner will make the award based on his best interests.

We have attached the required bid security to this bid.

(1) Signature when Bidder is an individual:

Respectfully submitted,

Date

Firm Name

Owner

(2) Signature when Bidder is a partnership:

Date

Firm Name

Signature of Partner

Signature of Partner

Signature of Partner

(3) Signature when Bidder is a Corporation:

Date

Firm Name

By _____

Corporate Seal

Title

NON-COLLUSION STATEMENT

The Bidder hereby attests that he has not conspired with any other party in an attempt to bid a fixed or set price.

Signed: _____

Title: _____

WITNESS:

SUBSCRIBED AND SWORN to, and before me, a Notary Public,

of the State of _____

County of/City of _____

Signed: _____

Title: _____ Notary Public _____

This _____ day of _____, 2012

Maryland Contractor's License # _____

Federal EI # _____

THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

BUY AMERICA CERTIFICATION

Contractor is to complete one of the sections below and submit with their bid.

Certificate of Compliance with 49 U.S.C. 5323(j)(1)

The bidder or offeror hereby certifies that it will meet the requirements of 49 U.S.C. 5323(j)(1) and the applicable regulations in 49 C.F.R. Part 661.5.

Date _____

Signature _____

Company Name _____

Title _____

or

Certificate of Non-Compliance with 49 U.S.C. 5323(j)(1)

The bidder or offeror hereby certifies that it cannot comply with the requirements of 49 U.S.C. 5323(j)(1) and 49 C.F.R. 661.5, but it may qualify for an exception pursuant to 49 U.S.C. 5323(j)(2)(A), 5323(j)(2)(B), or 5323(j)(2)(D), and 49 C.F.R. 661.7.

Date _____

Signature _____

Company Name _____

Title _____

CERTIFICATION REGARDING LOBBYING

APPENDIX A, 49 CFR PART 20

Certification for Contracts, Grants, Loans, and Cooperative Agreements
(To be submitted with each bid or offer exceeding \$100,000)

The undersigned certifies, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for making lobbying contacts to an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form--LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions [as amended by "Government wide Guidance for New Restrictions on Lobbying," 61 Fed. Reg. 1413 (1/19/96). Note: Language in paragraph (2) herein has been modified in accordance with Section 10 of the Lobbying Disclosure Act of 1995 (P.L. 104-65, to be codified at 2 U.S.C. 1601, *et seq.*)]

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

[Note: Pursuant to 31 U.S.C. § 1352(c)(1)-(2)(A), any person who makes a prohibited expenditure or fails to file or amend a required certification or disclosure form shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such expenditure or failure.]

The Contractor, _____, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. A 3801, *et seq.*, apply to this certification and disclosure, if any.

_____ Signature of Contractor's Authorized Official

_____ Name and Title of Contractor's Authorized Official

_____ Date

SIMILAR PROJECT EXPERIENCE

Provide a minimum of three similar projects. Each project listing should include the following information: Project name, Owner, Architect, Contract Amount, Date of Completion, and percentage of work completed by your forces.

END OF BID FORM

SECTION 088000 - GLAZING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes glazing for the following products and applications, including those specified in other Sections where glazing requirements are specified by reference to this Section:

1. Windows.
2. Doors.
3. Storefront framing, entrances & clerestory windows.
4. Interior borrowed lites.
5. Interior transaction window

- B. Related Sections:

1. Division 8 Section "Aluminum-Framed Entrances and Storefronts" for aluminum framed entrances.
2. Division 8 Section "Hollow Metal Doors and Frames" for interior hollow metal frames for vision lites.

1.3 DEFINITIONS

- A. Glass Manufacturers: Firms that produce primary glass, fabricated glass, or both, as defined in referenced glazing publications.
- B. Glass Thicknesses: Indicated by thickness designations in millimeters according to ASTM C 1036.
- C. Interspace: Space between lites of an insulating-glass unit.

1.4 PERFORMANCE REQUIREMENTS

- A. General: Installed glazing systems shall withstand normal thermal movement and wind and impact loads (where applicable) without failure, including loss or glass breakage attributable to the following: defective manufacture, fabrication, or installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; or other defects in construction.
- B. Glass Design: Glass thicknesses are not indicated on Drawings. Confirm glass thicknesses by analyzing Project loads and in service conditions. Provide glass lites for the various size openings in the thicknesses and strengths to meet or exceed the following criteria:

1. Design Wind Pressures: Determine design wind pressures applicable to Project according to ASCE/SEI 7, based on heights above grade indicated on Drawings.
 - a. Basic Wind Speed: 110 mph.
 - b. Importance Factor: II
 - c. Exposure Category: C.
 2. Vertical Glazing: For glass surfaces sloped 15 degrees or less from vertical, design glass to resist design wind pressure based on glass type factors for short-duration load.
 3. Maximum Lateral Deflection: For glass supported on all four edges, limit center-of-glass deflection at design wind pressure to not more than 1/50 times the short-side length or 1 inch, whichever is less.
 4. Differential Shading: Design glass to resist thermal stresses induced by differential shading within individual glass lites.
 5. Glass Thicknesses: Select minimum glass thicknesses to comply with ASTM E 1300, according to the following requirements:
 - a. Minimum Glass Thickness for Interior Lites: Not less than 6.0 mm.
- C. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes acting on glass framing members and glazing components.
1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

1.5 SUBMITTALS

- A. Product Data: For each glass product and glazing material indicated.
- B. Samples for verification purposes of 12 inch square samples of each type of glass indicated except for clear monolithic glass products, and 12 inch long samples of each color required (except black) for each type of sealant or gasket exposed to view. Install sealant or gasket sample between two strips of material representative in color of the adjoining framing system.
- C. Product certificates signed by glazing materials manufacturers certifying that their products comply with specified requirements.
- D. Compatibility and adhesion test reports from sealant manufacturer indicating that glazing materials were tested for compatibility and adhesion with glazing sealants. Include sealant manufacturer's interpretation of test results relative to sealant performance and recommendations for primers and substrate preparation needed for adhesion.
- E. Compatibility test report from manufacturer of insulating glass edge sealant indicating that glass edge sealants were tested for compatibility with other glazing materials including sealants, glazing tape, gaskets, setting blocks, and edge blocks.
- F. Product test reports for each type of glazing sealant and gasket indicated, evidencing compliance with requirements specified.
- G. Maintenance data for glass and other glazing materials to include in Operating and Maintenance Manual specified in Division 1.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified installer who employs glass installers for this Project who are certified under the National Glass Association's Certified Glass Installer Program.
- B. Source Limitations for Glazing Accessories: Obtain from single source from single manufacturer for each product and installation method.
- C. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below, unless more stringent requirements are indicated. Refer to these publications for glazing terms not otherwise defined in this Section or in referenced standards.
 - 1. GANA Publications: GANA's "Laminated Glazing Reference Manual" and GANA's "Glazing Manual."
 - 2. IGMA Publication for Insulating Glass: SIGMA TM-3000, "North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial and Residential Use."
- D. Safety Glazing Labeling: Where safety glazing labeling is indicated, permanently mark glazing with certification label of the SGCC or another certification agency acceptable to authorities having jurisdiction. Label shall indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.
- E. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of IGCC.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Protect glazing materials according to manufacturer's written instructions. Prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.

1.8 PROJECT CONDITIONS

- A. Environmental Limitations: Do not proceed with glazing when ambient and substrate temperature conditions are outside limits permitted by glazing material manufacturers and when glazing channel substrates are wet from rain, frost, condensation, or other causes.

1.9 WARRANTY

- A. General: Warranties specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and will be in addition to and run concurrent with other warranties made by the Contractor under requirements of the Contract Documents.
 - 1. Warranty Period: Manufacturer's standard but not less than 5 years after date of Substantial Completion.
- B. Manufacturer's Warranty on Laminated Glass: Submit written warranty signed by insulating glass manufacturer agreeing to furnish replacements for those laminated glass units that deteriorate as defined in the "Definitions" article, f.o.b. point of manufacture, freight allowed Project site, within specified warranty period indicated below. Warranty covers only

deterioration due to normal conditions of use and not to handling, installing, and cleaning practices contrary to glass manufacturer's published instructions.

1. Warranty Period: Manufacturer's standard but not less than 5 years after date of Substantial Completion.

PART 2 - PRODUCTS

2.1 GLASS PRODUCTS, GENERAL

- A. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass lites in thicknesses as needed to comply with requirements indicated.
 1. Minimum Glass Thickness for Exterior Lites: Not less than 6.0 mm.
 2. Thickness of Tinted Glass: Provide same thickness for each tint color indicated throughout Project.
- B. Strength: Where float glass is indicated, provide annealed float glass, Kind HS heat-treated float glass, or Kind FT heat-treated float glass as needed to comply with "Performance Requirements" Article. Where heat-strengthened glass is indicated, provide Kind HS heat-treated float glass or Kind FT heat-treated float glass as needed to comply with "Performance Requirements" Article. Where fully tempered glass is indicated, provide Kind FT heat-treated float glass.
- C. Thermal and Optical Performance Properties: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated below:
 1. For monolithic-glass lites, properties are based on units with lites 6.0 mm thick.
 2. For laminated-glass lites, properties are based on products of construction indicated.
 3. For insulating-glass units, properties are based on units of thickness indicated for overall unit and for each lite.
 4. U-Factors: Center-of-glazing values, according to NFRC 100 and based on LBL's WINDOW 5.2 computer program, expressed as Btu/sq. ft. x h x deg F.
 5. Solar Heat-Gain Coefficient and Visible Transmittance: Center-of-glazing values, according to NFRC 200 and based on LBL's WINDOW 5.2 computer program.
 6. Visible Reflectance: Center-of-glazing values, according to NFRC 300.

2.2 PRIMARY FLOAT GLASS PRODUCTS

- A. Float Glass: ASTM C 1036, Type I (transparent glass, flat), Class as indicated below, and Quality q3 (glazing select).
 1. Class 1 (clear) unless otherwise indicated, all interior windows and interior sheet of insulated exterior windows.
 2. Class 2 (tinted, heat-absorbing, and light-reducing) at exterior surface sheets.
- B. Performance Characteristics:
 1. Primary Tinted Float Glass Class 2: 1/4" thickness

- a. Tint: Equivalent to PPG Azuria.
- b. Visible Light Transmittance: 67%
- c. Shading Coefficient: .58
- d. Outdoor Visible Reflectance: 7%
- e. U-Value Winter: 1.09
- f. U-Value Summer: 1.12

- C. Refer to requirements for sealed insulating glass units for performance characteristics of assembled units composed of tinted glass, coated or uncoated, relative to visible light transmittance, U-values, shading coefficient, and visible reflectance.

2.3 HEAT-TREATED FLOAT GLASS

- A. Uncoated, Tinted, Heat-Treated Float Glass: ASTM C 1048, Condition C (uncoated glass), Type I (transparent glass, flat), Class 2 (tinted heat-absorbing and light-reducing), Quality q3 (glazing select), with tint color and performance characteristics for 6.0-mm-thick (0.23-inch-thick) glass matching those indicated for annealed primary tinted float glass; kind as indicated below:
 - 1. Kind FT (fully tempered) where indicated.
- B. Available Manufacturers: Subject to compliance with requirements, manufacturers offering heat-treated glass products that may be incorporated in the Work include, but are not limited to, the following companies.
 - 1. Advanced Glass Systems Corp.
 - 2. Guardian Industries Corp.
 - 3. PPG Industries, Inc.
 - 4. LOF, Libbey-Owens-Ford Co.
 - 5. Viracon, Inc.

2.4 INSULATING GLASS PRODUCTS

- A. Sealed Insulating Glass Units: Preassembled units consisting of organically sealed lites of glass separated by dehydrated air spaces complying with ASTM E 774 and with other requirements indicated, including those in Insulating Glass Product Data Sheet at the end of this Section.
 - 1. For properties of individual glass lites making up units, refer to requirements specified elsewhere in this Section applicable to types, classes, kinds, and conditions of glass products comprising lites of insulating glass units.
 - 2. Provide heat-treated, coated float glass of kind indicated or, if not otherwise indicated, Kind HS (heat strengthened) where recommended by manufacturer to comply with system performance requirements specified and Kind FT (fully tempered) where safety glass is designated or required.
 - 3. Performance characteristics designated for coated insulating glass are nominal values based on manufacturer's published test data for units with lites 6.0 mm (0.23 inch) thick and nominal 1/2-inch dehydrated space between lites, unless otherwise indicated.
 - 4. U-values are expressed as Btu/hour x sq.ft. x deg F.
- B. Construction Characteristics:

1. Air Space Width: Nominal ½ inch measured perpendicularly from surfaces of glass lites at unit's edge.
2. Gas Filling: Fill air space with argon.
3. Sealing System: Dual seal, primary and secondary sealants: manufacturer's standard sealants.
4. Spacer Specifications: Manufacturer's standard.
5. Desiccant: Either molecular sieve or silica gel or blend of both.
6. Corner Construction: Manufacturer's standard corner construction.
7. Color of Spacer: Color as selected by Architect from manufacturer's standard colors.

C. Glass Specifications:

1. Insulating glazing on this project shall be Low 'E' coated, tinted outdoor lite, with argon filled cavity. Insulating glazing product shall be equal to PPG Solarban 60 Azuria.
2. Thickness of Each Lite: 6.0 mm (0.23 inch).
3. Low E coated Indoor Lite: Class 1 (clear) float glass with coating on #3 surface.
4. Outdoor Lite: Class 2 (tinted, heat-absorbing and light-reducing) float glass with tint color: PPG Azuria or equivalent.
5. Performance of Insulated Glass: (performance values published are manufacturer's recommended values for insulated glass.)
 - a. Visible light transmission: 54%
 - b. Shading coefficient: 0.36
 - c. U-value: .29 winter, .28 summer.

2.5 LAMINATED-GLASS UNITS

A. Heat-Treated Laminated-Glass Units:

1. Outer Lite: Class 1 clear or translucent float glass. (Note: see drawings for locations of clear and translucent glazing.)
 - a. Kind FT (fully tempered).
 - b. Thickness: 3.0 mm.
2. Inner Lite: Class 1 (clear) float glass.
 - a. Kind FT (fully tempered).
 - b. Thickness: 3.0 mm.
3. Plastic Interlayer:
 - a. Thickness: 0.060 inch, but not less than that required to comply as a Type II safety glass material.
 - b. Interlayer Color: Clear.

2.6 SLIDING TRANSACTION DOORS (applies to frame 2-sheet A601):

A.

1. Tempered glass; unframed; with extruded-aluminum top and bottom track; supported on nylon or ball-bearing rollers; with plastic top guide and rubber bumpers. Equip each door with ground finger pull and adjustable cylinder lock with two keys. Thickness not less than 6mm

2.7 GLAZING GASKETS

A. Dense Compression Gaskets: Molded or extruded gaskets of profile and hardness required to maintain watertight seal, made from one of the following:

1. Neoprene complying with ASTM C 864.
2. EPDM complying with ASTM C 864.
3. Silicone complying with ASTM C 1115.
4. Thermoplastic polyolefin rubber complying with ASTM C 1115.

2.8 MISCELLANEOUS GLAZING MATERIALS

- A. General: Provide products of material, size, and shape complying with referenced glazing standard, requirements of manufacturers of glass and other glazing materials for application indicated, and with a proven record of compatibility with surfaces contacted in installation.
- B. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.
- C. Setting Blocks: Elastomeric material with a Shore, Type A durometer hardness of 85, plus or minus 5.
- D. Spacers: Elastomeric blocks or continuous extrusions of hardness required by glass manufacturer to maintain glass lites in place for installation indicated.
- E. Edge Blocks: Elastomeric material of hardness needed to limit glass lateral movement (side walking).

2.9 FABRICATION OF GLAZING UNITS

- A. Fabricate glazing units in sizes required to fit openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine glass framing, with glazier present, for compliance with the following:

1. Manufacturing and installation tolerances, including those for size, squareness, offsets at corners.
2. Presence and functioning of weep system.
3. Minimum required face or edge clearances.
4. Effective sealing between joints of glass-framing members.

B. Do not proceed with glazing until unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Clean glazing channels and other framing members receiving glass immediately before glazing. Remove coatings that are not firmly bonded to substrates.

3.3 GLAZING, GENERAL

A. Comply with combined recommendations of manufacturers of glass, sealants, gaskets, and other glazing materials, except where more stringent requirements are indicated, including those in referenced glazing publications.

B. Glazing channel dimensions as indicated on shop drawings provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances. Adjust as required by Project conditions during installation.

C. Protect glass from edge damage during handling and installation as follows:

1. Stack individual lites on edge and lean them against sturdy uprights at a slope of 5° to 7° from vertical.
2. Cushion the bottom edges with soft, firm pads free of dirt, grit, glass chips or other foreign material.
3. Avoid rotating or “cartwheeling” insulating glass units over their corners. Instead, use a turning device such as a rolling block if units must be rotated.
4. Schedule glass deliveries to coincide with glazing schedules.
5. Unpack the glass from cases according to printed instructions. Never move partially unpacked cases or “end-pick” lites.
6. Check glass surfaces and edges for damage before glazing. Do not install glass with large edge chips. never slide one lite over another.
7. Prevent contact of the glass with markings - typically flags, festoons or tape to identify openings to be glazed; never mark the glass with an “X” or other identity symbol.
8. Protect the glass with screens of plywood or plastic wherever there is welding, cutting, sandblasting, fireproofing, or other potentially damaging work in progress.
9. Begin glazing in concrete openings only after any surface treatments such as sandblasting, grouting and waterproofing have been completed.
10. Insist that workers handling glass wear gloves, safety shoes, hard hats and glazing gauntlets.

3.4 GASKET GLAZING (DRY)

A. Fabricate compression gaskets in lengths recommended by gasket manufacturer to fit openings exactly, with stretch allowance during installation.

- B. Secure compression gaskets in place with joints located at corners to compress gaskets producing a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
- C. Install gaskets so they protrude past face of glazing stops.

3.5 PROTECTION AND CLEANING

- A. Protect exterior glass from breakage immediately after installation by attaching crossed streamers to framing held away from glass. Do not apply markers to glass surface. Remove nonpermanent labels, and clean surfaces.
- B. Protect glass from contact with contaminating substances resulting from construction operations including weld splatter. If, despite such protection, contaminating substances do come into contact with glass, remove them immediately as recommended by glass manufacturer.
- C. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for build-up of dirt, scum, alkali deposits, or stains, and remove as recommended by glass manufacturer.
- D. Remove and replace glass that is broken, chipped, cracked, abraded, or damaged in any way, including natural causes, accidents and vandalism, during construction period.
- E. Wash glass on both faces in each area of Project prior to date scheduled for inspections that establish date of Substantial Completion. Wash glass as recommended by glass manufacturer.

END OF SECTION 088000

SECTION 105113 (2) – METAL EVIDENCE LOCKERS (STANDARD, PASS-THRU)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - Standard Pass-thru Evidence Lockers
- B. Related Work, Not Furnished:
 - Finish floor covering materials and installation.
- C. Related Sections:
 - [Sections in Division 9 – Finishes, relating to finish floor and base materials.]

1.3 REFERENCES

- A. American National Standards Institute (ANSI) Standards:
 - Applicable standards for fasteners used for assembly.
- B. American Society for Testing and Materials (ASTM) Standards:
 - Applicable standards for steel sheet materials used for fabrication.
 - Applicable standards for the testing of electrostatically applied Powder Coat Paint
- C. American Institute Of Steel Construction (AISC) Standards:
 - Applicable standards for steel materials used for fabrication.

1.4 DESCRIPTION

- A. General: Metal Evidence Lockers – To be provided at Fare Drop 122, Fare Collector Office 119, Fare drop collect 199A
- B. Finishes:
 - Fabricated Metal Components and Assemblies: All components to be painted with an electrostatically applied Powder Coat paint that can meet or exceed test requirements set out by ASTM standard D3451-06 Standard Guide for Testing Coating Powders and Powder Coatings.
- C. Sizes:

Nominal heights of 82 inches as noted on drawings.

Nominal widths of 36 inches as noted on drawings.

Nominal depths of 24 inches as noted on drawings.

1.5 PERFORMANCE REQUIREMENTS

A. Design Requirements:

Limit overall width to [0.032] inches [0.793MM] greater or less than the nominal specified width.

B. Seismic Performance: Provide Metal Evidence lockers capable of withstanding the effects of earthquake movement when required by applicable building codes.

1.6 SUBMITTALS

A. Product Data: Submit manufacturer's product literature and installation instructions for each type of evidence lockers required. Include data substantiating that products to be furnished comply with requirements of the contract documents.

B. Shop Drawings: Show fabrication, assembly, and installation details including descriptions of procedures and diagrams. Show complete extent of evidence lockers installation layout including quantities, locations and types of accessory units required. Include notations and descriptions of all installation items and components.

Show installation details at non-standard conditions, if any.

Provide layout, dimensions, and identification of each unit corresponding to sequence of installation procedures.

Provide installation schedule and procedures to ensure proper installation.

C. Samples: Provide minimum 3 inch (76MM) square example of each color and texture on actual substrate for each component to remain exposed after installation.

D. Selection Samples: For initial selection of colors and textures, submit manufacturer's color charts consisting of actual product pieces, showing full range of colors and textures available.

E. Warranty: Submit draft copy of proposed warranty for review by the [Architect] [Architect/Engineer] [Engineer] [Designer].

F. Maintenance Data: provide written documentation of the manufacturer's statement claiming the maintenance free nature of the product.

G. [Reference List: Provide a list of recently installed evidence lockers to be visited by owner, architect, and contractor. Intent of list is to aid in verifying the suitability of manufacturer's products and comparison with materials and product specified in this section.]

1.7 QUALITY ASSURANCE

A. Manufacturer Qualifications: Engage an experienced manufacturer who is ISO 9001 certified for the design, production, installation and service of evidence lockers. Furnish certification attesting ISO 9001 quality system registration.

- B. Installer Qualifications: Engage an experienced installer who is a manufacturer's authorized representative for the specified products for installing evidence lockers.

Minimum Qualifications: 1-year experience installing evidence lockers of comparable size and complexity to specified project requirements.

1.8 DELIVERY, STORAGE AND HANDLING

- A. Follow manufacturer's instructions and recommendations for delivery, storage and handling requirements.

1.9 PROJECT CONDITIONS

- A. Field Measurements: Verify quantities of evidence lockers before fabrication. Indicate verified measurements on Shop Drawings. Coordinate fabrication and delivery to ensure no delay in progress of the Work.
- B. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with fabricating evidence lockers units without field measurements. Coordinate construction to ensure actual dimensions correspond to established dimensions.

1.10 [SEQUENCING AND SCHEDULING]

- A. Sequence evidence lockers units [with other work] to minimize possibility of damage and soiling during remainder of construction period.
- B. Schedule installation of specified evidence lockers after finishing operations; including painting have been completed.
- C. Provide components which must be built in at a time which causes no delays general progress of the Work.
- D. Pre-installation Conference: Schedule and conduct conference on project site to review methods and procedures for installing evidence lockers including, but not limited to the following:

Recommended attendees include:
 - 1. Owner's Representative.
 - 2. Prime Contractor or representative.
 - 3. The [Architect] [Architect/Engineer] [Engineer/Architect] [Engineer] [Designer].
 - 4. Manufacturer's representative.
 - 5. Subcontractors or installers whose work may affect, or be affected by the work of this section.

1.11 WARRANTY

- A. Provide a written warranty executed by Contractor, Installer and Manufacturer, agreeing to repair or replace units which fail in materials or workmanship within the established warranty period. This warranty shall be in addition to and not a limitation of other rights the Owner may have under the General Conditions provisions of the Contract Documents.

- B. Limited Lifetime Warranty: Subject to the terms in the written warranty, warrant the original purchaser exclusively that the locker frames manufactured by it will be free from defects in materials and workmanship for the lifetime of the locker. Warrant the original purchaser exclusively that all moving parts manufactured by it will be free from defects in materials and workmanship for 5 years. Warrant the original purchaser exclusively that all electrical components manufactured by it will be free from defects in materials and workmanship for 4 years.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design: DSM Evidence Lockers manufactured by Spacesaver Corporation, 1450 Janesville Avenue, Fort Atkinson, Wisconsin 53538-2798. Telephone 866-276-0445. or approved equivalent.

2.2 BASIC MATERIALS

- A. General: Provide materials and quality of workmanship, which meets or exceeds established industry standards for products specified. Use furniture grade sheet metal and fasteners for component fabrication unless indicated otherwise. Material thicknesses/gauges are manufacturer's option unless indicated otherwise.

2.3 LOCKER TYPES

- A. Pass-thru evidence lockers

2.4 MANUFACTURED COMPONENTS, STANDARD EVIDENCE LOCKERS

- A. Welded Frame:
 1. The welded frame is structural and shall consist of top, bottom, back and sides constructed of a minimum of 18 gage (1.21MM) steel. All frame components shall be joined using resistance welding. Riveting or bolting of structural members will not be permitted.
 2. Horizontal and vertical outer front flanges will be a minimum of 1.5 inches (38MM). Horizontal and vertical flanges will overlap with a minimum of 2 resistance welds per corner.
 3. Center vertical lock housing is structural and will run the full height and depth of the locker. All locks will be completely enclosed by a full height removable panel. Pass-thru rear release mechanisms will be completely enclosed by the lock housing and accessible only when the rear door is open. Provide engagement points for the anti-pry tabs that are on all front doors.
 4. Exposed lock mechanisms that can snag evidence and be obstructed by stored articles will not be permitted.
- B. Welded Bases:
 1. Each welded base shall be permanently affixed to each locker using modern Inert Gas Metal Arc Welding techniques for lateral unit stability. The base shall be a minimum of 14

gage (1.98MM) steel 4 inches (101MM) high with a 1.5 inch (38MM) return on the bottom for support.

2. Provide four 0.375 inch (9.5MM) mounting holes and four 0.375 inch (9.5MM) nuts welded in place for the mounting of floor levelers. Provide four appliance levelers per locker.
3. Provide removable access panels for access to mounting holes and leveling points.

C. Shelves:

1. Shall be a single-piece formed from a minimum of 18-gage (1.21MM) cold rolled steel with a double 90-degree bend on the rear of the shelf and a double 90-degree bend on the front of the shelf. Shelf sides shall be turned up 90-degrees for ease of cleaning and to prevent debris from becoming caught between the shelf and the sidewall.
2. All shelves shall be welded into place. Rivets, screws, bolts or other loose fasteners will not be permitted for the fastening of shelves to the locker frame.

D. Locks:

1. Patent Pending. Lock shall be push button locking with a stainless steel push button and alignment bezel. Locks shall be a one-piece removable design. Locks will secure the door with the single push of a button with no other action required by the user.
2. Pass-thru locks will be reset from the rear of the locker when the rear door is in the open position only.
3. Provide documentation for cycle testing where locks are tested successfully to a minimum 40,000 cycles without failure.
4. Locks shall be pre-lubricated with no maintenance required for the lifetime of the unit (estimated at 20 years).

E. One Piece Welded Doors:

1. Shall be formed from two pieces of minimum 18-gauge (1.2MM) cold rolled steel box formed and welded together using modern GMAW techniques. The one piece door with inner and outer door skins shall have a combined steel thickness of no less than 0.096 inches (2.4MM) thick.
2. Each door shall have a nickel plated, flush mounted door handle installed with fasteners visible only in the unlocked position.
3. Provide neoprene silencers on each door.
4. Provide anti-pry tabs that engage with the Center Vertical Lock Housing when the door is locked.
5. Doors shall have no moving parts except the door and the hinge.
6. Provide stainless steel spring loaded hinges that are welded to prevent pin removal. Spring loaded hinges shall be capable of holding the door closed and flush with the door frame. Doors that hang ajar are a safety concern and will not be tolerated.

F. Rear Doors (Pass-thru lockers)

1. Shall be formed from two pieces of minimum 18-gauge (1.2MM) cold rolled steel box formed and welded together using modern Inert Gas Metal Arc Welding techniques. The one piece door with inner and outer door skins shall have a combined steel thickness of no less than 0.096 inches (2.4MM) thick.

2. Each locker module shall have one rear door each and allow evidence to be removed from all compartments at once.
3. Each rear door shall have multi-point engagement with a built-in L handle lock. Access to all lock mechanisms shall be hidden behind cover plates that are secured with tamperproof fasteners.

G. ACCESSORIES:

1. Front door lock out system: Provide manufacturer's standard.

2.5 FABRICATION

- A. General: Coordinate fabrication and delivery to ensure no delay in progress of the Work.

2.6 FINISHES

- A. Colors: Selected from manufacturer's standard available colors as selected by Architect.
- B. Paint Finish: Provide factory applied electrostatic powder coat paint. Meet or exceed specifications of the American Society for Testing and Materials (ASTM) standards.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine evidence lockers scheduled to receive accessories [with Installer present] for compliance with requirements for installation tolerances and other conditions affecting performance of specified accessory items.
- B. Proceed with accessory installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. General: Follow manufacturer's written instructions for installation of each type of accessory item specified.

3.3 FIELD QUALITY CONTROL

- A. Verify accessory unit alignment and plumb after installation. Correct if required following manufacturer's instructions.
- B. Remove components that are chipped, scratched, or otherwise damaged and which do not match adjoining work. Replace with new matching units, installed as specified and in manner to eliminate evidence of replacement.

3.4 ADJUSTING

- A. Adjust all accessories to provide smoothly operating, visually acceptable installation.

3.5 CLEANING

- A. Immediately upon completion of installation, clean components and surfaces. Remove surplus materials, rubbish and debris resulting from installation upon completion of work and leave areas of installation in neat, clean condition.

3.6 DEMONSTRATION/TRAINING

- A. Schedule and conduct demonstration of installed accessory items and features with Owner's personnel.
- B. Schedule and conduct maintenance training with Owner's maintenance personnel. Training session should include lecture and demonstration of all maintenance and repair procedures that end user personnel would normally perform.

3.7 PROTECTION

- A. Protect system against damage during remainder of construction period. Advise Owner of additional protection needed to ensure that system will be without damage or deterioration at time of substantial completion.

END OF SECTION

SECTION 107114 - METAL SUN SHADES

PART 1 - GENERAL**1.1 SUMMARY**

- A. Section includes: Modular, shop fabricated, metal sun shades to mount on exterior building walls
- B. Related sections:
 - 1. Section 04 20 00 - Unit Masonry Exterior wall surfaces to receive sun shades.
 - 2. Section 07 62 00 - Flashing & Sheet Metal
 - 3. Section 07 92 00 – Joint Sealants

1.2 REFERENCES

- A. American Society for Testing and Materials (ASTM) Publications:
 - 1. ASTM A36 - Structural Steel.
 - 2. ASTM A500 - Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes.
 - 3. ASTM A526 - Sheet Steel, G-90 Zinc-Coated (Galvanized) by the Hot-Dip Process.
 - 4. ASTM A792 - Steel Sheet, Aluminum-Zinc Alloy-Coated (Galvalume) by the Hot Dip Process.
 - 5. ASTM B209 - Aluminum and Aluminum-Alloy Sheet and Plate.
 - 6. ASTM B221 - Aluminum-Alloy Extruded Bar, Rod, Wire, Shape, and Tube.
 - 7. ASTM B117 - Standard Practice for Operating Salt Spray (Fog) Apparatus.
 - 8. ASTM D822 - Tests on Paint and Related Coatings Using Filtered Open-Flame Carbon-Arc Exposure Apparatus.
 - 9. ASTM D3363 - Test Method for Film Hardness by Pencil Test.

1.3 SUBMITTALS

- A. Provide in accordance with Section 01 33 00 - Submittal Procedures:
 - 1. Product data for sun shade components and finish.

2. Shop drawings showing layout, dimensions, spacing of components, and anchorage and installation details.
3. Calculations for support system.
4. Sample: 10 by 10 inches [254 by 254 mm] minimum size sample of sun shade panel illustrating design, fabrication workmanship, and selected color coating.
5. Copy of warranty specified in Paragraph 1.5 for review by Architect.

1.4 QUALITY ASSURANCE

- A. Design structural support framing components for sun shades under direct supervision of professional structural engineer.
- B. Installer qualifications: Approved by manufacturer for installation sun of shade system.

1.5 WARRANTY

- A. Provide in accordance with Section 01 77 00 - Closeout Procedures:
 1. 20 years warranty for factory finish against cracking, peeling, and blistering under normal use.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Peachtree Protective Covers, Inc.,
1477 Rosedale Drive, Hiram, GA 30141
770/439-2120, fax 770/439-2122
800/341-3325,
ppc@peachtreecovers.com , www.peachtreecovers.com
- B. Ametco® Manufacturing Corporation, 4326 Hamann Parkway, P.O. Box 1210,
Willoughby, Ohio 44096; 800-362-1360.
- C. Mapes Architectural Products (402) 466-1985

2.2 MATERIALS

- A. Steel bar stock: ASTM A36.
- B. Steel tubing: ASTM A500, Grade B.
- C. Steel sheet: ASTM A526 galvanized or ASTM A792 Galvalume.

- D. Extruded aluminum: ASTM B221, Alloy 6063, Temper T-6.
- E. Sheet aluminum: ASTM B209 6063, Temper T-6.

2.3 SUN SHADE SYSTEM

- A. Type: Aluminum sun shades consisting of modular framed panels with louver and solid sheet (as indicated on drawings) infill and outriggers for mounting on exterior wall surfaces; Sun Shades by approved manufactures listed in section 2.1.
- B. Sun shade panel: Modular panel with perimeter frame.
 - 1. Panel size: As indicated on Drawings and approved shop drawings.
 - 2. Panel infill-area 1 (solid canopy) see drawing 1/A102 for location: Solid Canopy.
 - 3. Panel infill-area 2 (sunshade) see drawing 1/A102 for location: Inclined, flanged louvers welded to cross bars.
 - a. Direct visual screening: between 80-100 percent.
 - b. Main bars: spacing as indicated on drawings and approved shop drawings
- C. Support system: Provide outriggers or other means for support of sun shade panel fabricated from same material as panel. System shall be designed to resist applicable dead, live, wind, and seismic loads.
 - 1. Type: Straight projecting outriggers.
 - 2. Construction: Welded fabrication consisting of attachment plate, double support angles, and tapered plate extension as detailed and dimensioned on Drawings and approved shop drawings.
 - 3. Size: As required to provide sufficient structural support of panels.
- D. Fasteners: Stainless steel bolts, studs, and other types of size and spacing as recommended by manufacturer for specific condition and detailed on approved shop drawings.

2.4 FACTORY FINISH

- A. Sun shade panels, outriggers, and other components shall receive electrostatically applied colored polyester powder coating heat cured to chemically bond finish to metal substrate.
 - 1. Minimum hardness measured in accordance with ASTM D3363: 2H.
 - 2. Direct impact resistance tested in accordance with ASTM D2794: Withstand

160 inch-pounds.

3. Salt spray resistance tested in accordance with ASTM B117: No undercutting, rusting, or blistering after 500 hours in 5 percent salt spray at 95 degrees F and 95 percent relative humidity and after 1000 hours less than [3/16 inch] [5 mm] undercutting.
4. Weatherability tested in accordance with ASTM D822: No film failure and 88 percent gloss retention after 1 year exposure in South Florida with test panels tilted at 45 degrees.

B. Color: Selected by Architect from manufacturer's standard range.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Prior to fabrication, field verify required dimensions.
- B. Coordinate sun shade installation with provision of exterior wall system to ensure proper structural support is provided, attachment of sun shades is compatible with substrate, and weathertightness of exterior envelop is maintained.

3.2 INSTALLATION

- A. Install sun shades in accordance with manufacturer's installation instructions and approved shop drawings.
- B. Insulate dissimilar metals to prevent electrolysis with bituminous paint or non-absorptive gasket to prevent contact.
- C. Allow for thermal expansion and contraction of metal components.
- D. Install shade panels plumb, level, free from distortion, and aligned with building elements and adjacent shade panels.
- E. Do not installed bent, bowed, or otherwise damaged panels. Remove damaged components from site and replace.
- F. Attach shade panels to outriggers with appropriate fasteners for secure, permanent installation.
- G. After installation, touch-up damaged finish with paint supplied by manufacturer and matching original coating.

END OF SECTION

BECKER MORGAN GROUP
TCC-SHORE TRANSIT – BUS MAINTENANCE FACILITY - PHASE II
BIDDERS' QUESTIONS & ANSWERS THROUGH 2/02/12

Q #	ANSWER BY - SKETCH	QUESTION / COMMENT	ANSWER	SPEC. DIV.
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New Questions		Addendum #4-February 3,2012		
1	BMG	I could not find the specific suspension grid system to be used on the SECTION 095113 - ACOUSTICAL PANEL AND SPECIALTY CEILINGS SPEC file that was on the website. Also, neither the reflected ceiling plan nor the finish schedule specify which of the two referenced 2' x 4' tiles you would like in each room. Could you please provide me with this information?	Add paragraph 2.5-A & 2.5 B to spec section 095113 as noted in the project manual section of addendum #4. All rooms designated as ACT on the finish schedule to be type ACT-1 as noted in spec section 095113-2.1-A	09
2	BMG	Could you please clarify what is required for the Stone Mulch? Specs only cover Hardwood mulch. Also where is this material to be installed? Plan only refers to hatched area.	Provide ½”-1” decorative river rock for the stone mulch specified in the Bio Retention area on sheet L-101. The bottom of the bioretention area shall be ¼” – ½” chip stone mulch per the detail on sheet C-303. All other mulch shall be hardwood.	n/a
3	BMG	Where will aluminum edging be required? Only around the shaded areas indicating mulch on the plan or individual trees as well? Will it be required to separate plant types in the bioretention? Or to separate mulch and stone? Or stone and turf?	Edging shall be used wherever it is necessary to separate turf from mulch. Mulch is either hardwood or stone. It is not required to separate plant types in the bioretention.	n/a
4	BMG	Drawing C903-Verify top rail of tension wire,please confirm	Continuous top rail, bottom tension wire.	n/a
5	BMG	Drawing C-903- Verify whether center rail brace rails is @ terminal post only or continuous	Continuous.	n/a
6	BMG	Drawing C-304-Note FS-22- galvanized or vinyl. please confirm	Galvanized as noted.	n/a
7	MTA	The bid documents indicate Bid Bond % requirements of both 5 % & 10 % . Please clarify the applicable Bid Bond %.	Bid bond to be 10% as noted in spec section 001200-7	00
8	BMG	Missing Specification Section 087400 Access Control	Spec section regarding security systems and access control are not part of this contract unless specifically noted on the contract drawings and/or project manual. A separate RFP for this work will be issued by TCC in +/- 30-45 days. Please check the following website for RFP notification http://www.tcclesmd.org/NewFacility/RFPs/S	08

BECKER MORGAN GROUP
TCC-SHORE TRANSIT – BUS MAINTENANCE FACILITY - PHASE II
BIDDERS’ QUESTIONS & ANSWERS THROUGH 2/02/12

Q #	ANSWER BY - SKETCH	QUESTION / COMMENT	ANSWER	SPEC. DIV.
			horeTransitMaintenanceFacilityProject.aspx	
9	BMG	Hollow Metal Section 081113 is missing information for the exterior doors and frames.		
10	BMG	Please have the architect clarify the glazing requirement for the aluminum storefront door/sidelight frame AL-1 and storefront window 3,4,5, & 6. The specs call out tinted and medium frosted glass. The drawings don't show which frames get what type of glass and the color of tint that is needed for the tinted glass.	See revised spec section 088000 attached via this addendum. Frame types (clerestory windows) 5&6 sheet A601 to be aluminum storefront.	08
11	BMG	Aluminum storefront...In section 084113 “Aluminum Entrances and Storefronts”, in sub section 2.6 “Finishes” Line “C” of the specifications, the architect call out the finish for the aluminum frames and door to be a “Three-coat Fluor polymer” paint, but the Door Schedule on A601 call out the finish to be a “Anodized” finish. The specs called out the overhead doors to have a clear anodized finish and the door schedule called out these doors to have anodized finish as well. Please have the architect to clarify aluminum storefront finish.	Should be “anodized” finish not “three coat flour polymer”. See revision to spec section 084113-2.6-C issued via addendum #4.	08
12	BMG	Spec 095113 calls for three different types of tile, ACT 1 – Armstrong 1810 2' x 2' tile, ACT 2 – Armstrong 1811 2' x 4' , and ACT 3 – Armstrong 608 2' x 4' Ceramguard tile. The Reflected Ceiling plan shows only 2' x 4' tile. The finish schedule only says ACT. Where does each type of tile go?	See response to question # 1 above	
13	A&S	Drawing notes 1, 2, and 3 on drawing M200 require motor operated dampers but the damper shown does not match the legend for a motor operated damper. Should these be motor operated type dampers	Yes. Dampers associated with drawings 1,2, and 3 on drawing M200 shall be motor operated dampers.	n/a
14	MC	Drawing S402, Details 1 through 6.	Drawing S402 does not have 6 details on the	n/a

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BIDDERS' QUESTIONS & ANSWERS THROUGH 2/02/12

Q #	ANSWER BY - SKETCH	QUESTION / COMMENT	ANSWER	SPEC. DIV.
		Please clarify what material the gutter and trim is attaching to. These details also show what appears to be (2) angles. Please clarify dimension and material	sheet. Assuming you mean sheet S401. The continuous angles and trim as shown in the details on S401 are non-structural. These elements may be light gauge members which support the metal stud infill and gutter. The sizes shall be specified by a light gauge manufacturer.	
15	BMG	Drawing C903 shows the length of line posts and terminal posts both being installed 42” below grad. Is this correct or can line posts be 36” beneath grade?	All posts to be installed at 42” depth	n/a
16	BMG	What is the concrete PSI required for the fencing posts? The specification states 3000 psi but drawing C903 indicates 2500 PSI. Please clarify.	2500 psi is acceptable	n/a
17	BMG	Specification page 323113-5 section 2.6B states that gate hinges are to be 360 degrees. Should this be 180 degrees? Please Clarify	Yes, section 2.6B should indicate 180 degrees.	n/a
18	BMG	Hardware schedule does not note these door numbers. 113/1,123A/1, 126/3, 126/4. Please advise.	See addendum #4 – project manual- spec section 087111. Provide Hardware sets as noted: Door 113/1- Hardware set 09 Door 123A/1- Hardware set 07 Door 126/3- Hardware set 04 Door 126/4- Hardware set 04	08
19	BMG	Break Room #120, Dwg. 12/A701—Are cabinets plastic laminate? Is the counter top Solid Surface or Plastic Laminate?	Provide plastic laminate cabinets with solid surface countertops	n/a
20	BMG	Detail 12/A701 – Please provide basis of design and/or finishes	Basis of design per spec section 064023-2.1. Cabinets to be plastic laminate. Countertop to be solid surface. See also sketch MTA-SK-6 for further clarification.	06
21	A&S	Drawing P101 indicates that a backflow preventor shall be installed on the sprinkler riser. Since there is a backflow preventor on the tank fill line we don not believe that the additional backflow preventor on the sprinkler riser is necessary. Please advise.	Backflow preventor is not required.	n/a
22	BMG	Sections 083323 & 0083613 please clarify-	a. All coiling and overhead doors (types OH-1,OH-2, CD-1,CD-2) require electric motor	08

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BIDDERS’ QUESTIONS & ANSWERS THROUGH 2/02/12

Q #	ANSWER BY - SKETCH	QUESTION / COMMENT	ANSWER	SPEC. DIV.
		<p>a- Please specifically clarify those door opening requiring Electric Motor Operators.</p> <p>b- Please confirm , in addition to the Aluminum Full-View Overhead Doors Type OH-1, are the balance of all OH-2 , CD-1 & CD-2 door units factory finished thereby requiring no Field Painting?</p>	<p>operators with the exception of 1/106 & 2/119. See also notes on Electrical drawings.</p> <p>b. OH-2 doors to be factory finished as noted in revision to spec section 083613 issued via this addendum. CD-1 & CD-2 doors to be either factory finished or field painted as noted in spec section 083323-2.8-N (CD-1 door) and spec section 083323-2.9-I.</p>	
08 23	BMG	<p>Section 088000 – various glass products are noted in Part 2 Products but there does not appear to be a glazing schedule indicating the specific glass/glazing requirements for the Exterior Storefront Systems/ Clerestory Windows/ Aluminum Door Entrance 118 plus the borrowed lites?</p>	<p>See revised spec section 088000 issued via this addendum</p>	08
24	BMG	<p>Section 105300 Prefabricated Walkway Cover Systems would appear to be the performance specification for Add Alternate 7 including the work noted in S100. Are we to assume that specification Section to be applicable to the two (2) “ Solid Canopy” section as noted in Canopy Plan 2/A103?</p>	<p>No- see spec section 107114-Metal Sun Shades (which is included in this addendum) is applicable to the canopy details shown on 2-5/A103.</p>	10
25	BMG	<p>a. Sunshade Canopy , detail 4 and 2/A103- in consideration of item 24 above are we to assume that Section 105300 is the guiding performance section for these “ louvered sunshades” -?</p> <p>b. Please note that para. 2.4 component makes no mention of louvered assemblies- please clarify the proper performance specification for that work.</p>	<p>a. no, see spec section 107114</p> <p>b. included in spec section 107114</p>	10

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Q #	ANSWER BY - SKETCH	QUESTION / COMMENT	ANSWER	SPEC. DIV.
26	BMG	Sheet A501 wall types calls for metal stud partitions to underside of structural deck yet 4 on A301 shows only the storage 112 partition to full height and the remaining partitions to 10’6” height. Please clarify which is correct?	Detail 4/A301 is correct-non rated gwb partitions to 10’-6” as shown. GWB Partitions around storage 112 to be type 2E-fire rated- 1 hour UL 465	n/a
27	A&S	There is existing site lighting from Phase 1, my question is are we to match to the existing lighting. They are asking for LED lighting in the fixture schedule, but the lighting in Phase1 are 400 watt metal halides or high pressure sodium .	Phase 1 fixtures installed were metal halide fixtures matching exactly what was specified under Alternate #1 column of site lighting fixture schedule. However, bidding contractor shall provide base bid price for LED fixtures as specified and deduct pricing for Alternate #1 to provide metal halide as specified. No “or equal.”	n/a
28	A&S	Lighting Fixture Schedule indicates “or equal”. Are we required to match existing site lighting? If so please provide information.	No “or equal.” Contractor to match what is specified. Lamp type will be determined by whether base bid or Alternate #1 is selected.	n/a
29	MC	Are the turn down slab foundations supposed to go down to top of spread footing regardless of depth?	The turn down slabs can terminate at an elevation above the top of spread footings but must extend a minimum of 2’-6” below grade.	n/a
30	BMG	Revision to Drawing A601 is referenced as being issued in Q/C # 34 but that revised drawing was not included in the Addendum nor referenced in “Attachments” page 4 of 4	Attachment is referring to the revised description to window type 2/A601 which was included in the narrative section of addendum #3 -under Drawings: 6. Sheet A601 item c. (page 4)	n/a
31	BMG	Bid Form – anticipating the Addendum 4 – the Addendum receipt portion on 003000-1 will need to be modified for that Addendum 4 receipt.	Correct see revised bid form attached via this addendum.	00
32	BMG	Section 105113 Metal Evidence Lockers (added per Addendum 3) – are we to assume to delete the existing Section 105113 Metal Lockers and replace in total with Section 105113 Metal Evidence Lockers – there was no comment about deleting and replacing – this is to avoid any ambiguity. Additionally, a welded base is noted – does this eliminate the detailed concrete base requirement on 11/A502? Please also specifically	There are two types of lockers in the project. Section 105113 Metal lockers applies to women’s shower 117A & men’s shower 116A. (details 4 &7/A701). The spec section added via addendum #3 “Metal evidence lockers” section 105113 (2) refers to fare drop 122 , fare drop office 119 & fare drop collect 119A (details 9-11/A701) Provide concrete base as shown on detail 11/A502. Locker dimensions as shown on 10/A701 – 24” deep x 36” wide x 82” tall (each), 2 modules with (16 lockers each) 32 lockers	10

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Q #	ANSWER BY - SKETCH	QUESTION / COMMENT	ANSWER	SPEC. DIV.
		<p>confirm the locker dimensions – paragraphs 1.4 C & 2.5 A & B all reference “ available sizes ?”</p> <p>Accessories are noted as (Optional) in para 2.4G ? Are these in-fact Optional or to be provided? Small & Large Refrigerators in para 2.5 these are assumed to be provided as part of that locker system?</p>	<p>total, with push button front locking mechanisms, full size rear doors on each module with front door lockout system per manufacturer standards, no refrigerators are required, see revised spec section 105113 (2) “ Metal evidence lockers” issued via this addendum.</p>	
33	BMG	<p>CONC-SEAL .Please further clarify that in the Base Bid the applicable specification to be provided is Section 03300-7 para. 2.9A – wherever CONC-SEAL is referenced on the Finish Schedule.Note: subsequent to deletion only upon acceptance of Add Alternate at the locations noted in that Alternate.</p>	<p>Correct base bid for areas marked on finish schedule is CONC-SEAL as referenced in spec section 03300-7 para 2.9A. If alternate #10 is accepted EPX-2 would replace CONC-SEAL in the service bay areas as noted in the question below</p>	03 09
34	BMG	<p>Resinous Flooring . Section 096724 Resinous Flooring was added by Addendum 3, but, the existing Section 096723 Resinous Flooring , including subsequent approved substitution via Addendum 2, did not appear to be deleted. What is the status of Section 096723 as relates to Section 096724?</p> <p>a- Is Section 096723 Resinous Flooring (including approved substitution via Addendum 2) still valid and to be provided as limited to the Toilet Room (EPX on finish schedule)?</p> <p>b- Is Section 096724 Resinous Flooring to only be provided upon acceptance of Add Alternate 10 for Bays 101, 102, 103 , 104 but not 105? Additionally , Drawing clarification 6 on page 3 of 4 Would indicate as EPX2 but Section 096724 (in actuality Section 096700 as attached?) references Resinous Flooring System # 1 (RES-1) not EXP2 upon review of</p>	<p>Both sections apply for different areas of the building as noted below</p> <ul style="list-style-type: none"> a. Correct- EPX (spec section 096723) to be provided at men’s wash room 116, men’s shower 116A, women’s wash room 117, women’s shower 117A. b. Correct EPX-2 (spec section 096724) to be provided at Bays 101, 102, 103, 104 & 105 as add/alternate #10 c. Correct 	09

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Q #	ANSWER BY - SKETCH	QUESTION / COMMENT	ANSWER	SPEC. DIV.
		<p>page 096700-3 para. 2.1A</p> <p>c- In essence it would appear that there are two (2) distinct Resinous Flooring Sections – one issued for Toilet Rooms and one issued for the Industrial Bay Floors – is this correct?</p>		
35	BMG	<p>Will alternate #10 on addendum #3 Epoxy floor in service bays. Will this also require the epoxy cove base?</p>	Cove base is not required in alternate #10	09
36	BMG	<p>Drawing A304 in office 114, there is a fire rated HM Frame. Is the glass to be fire-rated? If so, what is the basis of design?</p>	<p>Frame and glazing is not fire rated as this is not a rated wall. Note on 1/A304 is deleted via this addendum.</p>	n/a
37	BMG	<p>Please confirm that clerestory windows are to be 451T center glazed, aluminum storefront as shown on 1/A304. This contradicts with the front glazing detail shown on A303.</p>	<p>Section 1/A304 corresponds with Section 1/S402. The clerestory window is in front of the steel beam (exterior side) as shown on architectural section 1/A304. Front glazing similar to detail 2/A303 would be preferred but center glazing is acceptable. Contractors option.</p>	n/a
38	BMG	<p>On A103 what is the basis of design and finish for hanger rod mounted solid canopies with integral sunshade canopies?</p>	<p>See spec section 107114-Metal sun shades added via this addendum</p>	10
39	BMG	<p>Please clarify glazing requirements for the project. Please provide locations and glass make-ups for each type of glazing required.</p>	<p>See revised spec section 088000 attached via this addendum. Frame types (clerestory windows) 5&6 sheet A601 to be aluminum storefront.</p>	08
40	BMG	<p>Section 2.3-B in the glazing specifications calls for medium frosted glass. Please provide specification and location if applicable.</p>	<p>See revised spec section 088000 attached via this addendum. No frosted glass is included in the project.</p>	08
41	BMG	<p>Drawing A601, Window # 2 in room 113 appears to be a sliding window. Please provide basis of design and finish.</p>	<p>See response to question #34 from bidders questions & answers list addendum #3 for window finish. Basis of design is included in paragraph 2.6 of revised spec section 088000 issued via this addendum.</p>	n/a
42	BMG	<p>Please clarify where insulated panels are required to be installed per specification section 0884113, Paragraph D.</p>	<p>No insulated panels are included in the work.</p>	08

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Q #	ANSWER BY - SKETCH	QUESTION / COMMENT	ANSWER	SPEC. DIV.
43	BMG	Exposed Concrete (Floors) w/Hardener Sealer. The finish legend on A601 references “SPEC REF 03 36 00” with respect to the CONC-SEAL under Finish Floors. Absent any Spec Section 03 36 00 In the project manual , we assume that the proper specification may be that in Section 03300-7 para. 2.9A (Surface Treatments) as relates to interior concrete floor slabs exposed? Please clarify.	Correct	03
44	BMG	Window Sills – Is window type #1 to have a solid surface window sill per 1/A304 or no sill as shown on S1/A601?	Provide a solid surface sill per detail 1/A304. Note: Solid surface sills are also required at exterior aluminum storefront (window type 3 & 4/a601) at break room 120 per detail 2/A303.	n/a
45	BMG	Specification Section 064023 Section 2.7, Part B – Are concealed Blum Hinges with 170-degree opening acceptable?	Yes providing they comply with BNMA A 156.9 and are Stainless Steel.	06
46	BMG	Specification Section 079200 requires a Mock-Up, however the other sections that would be included in this work do not call for a mock-up. Is one required?	No mock up is required providing that shop drawings and color samples are provided that satisfy owner and architect.	07
47	BMG	Rooms #119/#122—Is any part of the “empty fare box pickup slots” per 9, 10/A701 a custom millwork item? Counter top? Solid surface or P.Lam? Fare Drop/Fare Drop Collections @ Room #119A/#122 metal pre manufactured item?	Yes, yes, solid surface, yes.	10
48	MTA TCC	Tax Exemption. There appears to be ambiguity as relates to this project being Taxable or Tax Exempt. A close read of Addendum 1 would indicate that the Tri- County has a Tax Account # 30200002 - the key being that the 1 st two numbers (30) by definition the “ Contractor May Not Use an Exemption Certificate from an organization if the 1 st two numbers	Project is not tax exempt. Contractors may not use the account # for purchasing of materials or other costs related to the work. In addition general contractors may not include state tax as a line item in any applications for payment or PCO’s that are to be processed by the owner (Tri-County Council- Shore Transit) due to the organizations tax exempt status. It is up to the GC and his/her subcontractors to reflect all applicable taxes	00

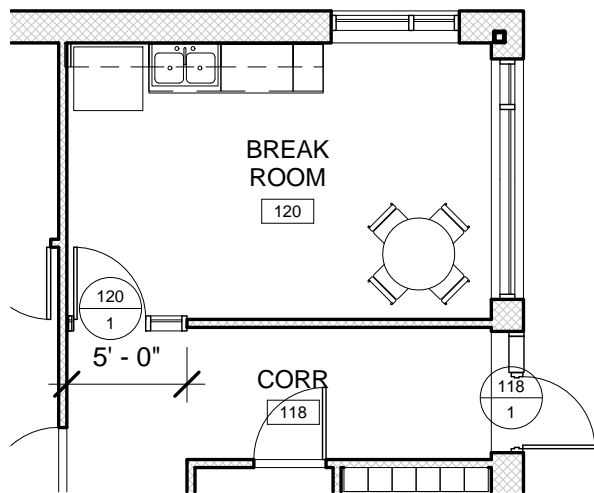
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BIDDERS' QUESTIONS & ANSWERS THROUGH 2/02/12

Q #	ANSWER BY – SKETCH	QUESTION / COMMENT	ANSWER	SPEC. DIV.
		<p>begin with 30.</p> <p>Please specifically re- clarify this project – it does not appear that a contractor may use a tax exempt status for this bid.</p>	<p>they will incur during the project in their lump sum bid, alternates and schedule of values. NOTE: this reply supersedes reply to question #13 issued in addendum #2.</p>	
49	MTA TCC	<p>a.If a general contractor uses a subcontractor who, in turn, uses a subcontractor who is a DBE, will this be considered third tier DBE participation?</p> <p>b. will the above be allowed to achieve the DBE participation goal for the project?</p>	<p>a. Yes b. Yes.</p>	00
50	A&S	<p>On pg. 48 (sheet E102) of 49 on addendum 3 there is a spec for Future Photovoltaic and wind energy systems. Is this a installation that is included in build or is there just a panel being installed for future expansion?</p>	<p>There is a 100A circuit breaker in the panel for future connection of solar/wind renewable energy as TCC might want the option to install some form of renewable energy in the future. The wind/solar design is not part of this project and bid package.</p>	n/a
51	BMG	<p>Is LSP Performance Resins SeamTek Type 3 Epoxy flooring an acceptable equivalent at service bay floor finish as described in add/alt #10 ?</p>	<p>No, LSP Performance Resins SeamTek Type 3 Epoxy flooring is not an acceptable alternate.</p>	09
52	BMG	<p>Is Sno-Barricade by SNO GEM an acceptable manufacturer per spec section 074113-2.5-F-1-c</p>	<p>Yes, providing it meets all finish requirements as listed in spec section 074113. See also revision to spec section 074113 added via this addendum.</p>	07

REVISED DOOR SCHEDULE

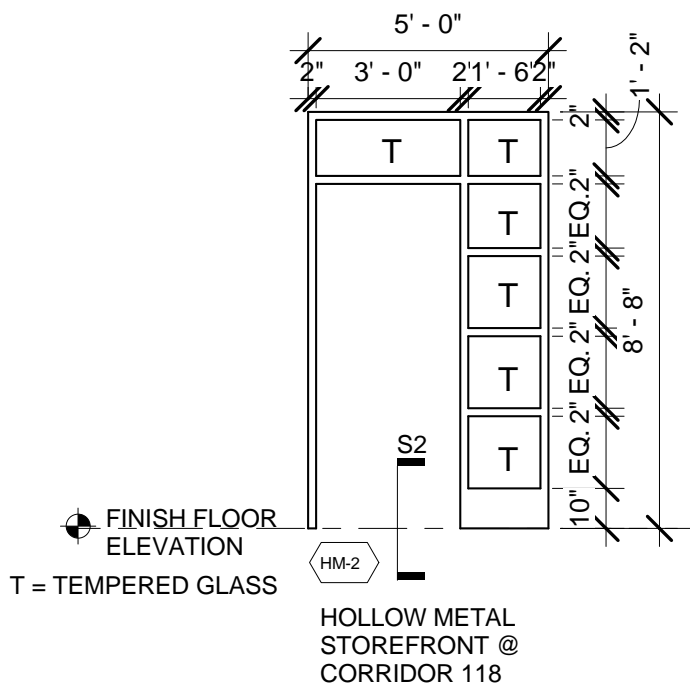
SPACE	#	DOOR							FRAME			FIRE RATING	ACCE SS CON TROL
		SIZE			MAT	TYPE	FIN	GLASS	MAT	TYPE	FIN		
		WID TH	HEI GHT	THI CK									
118	1	3' - 0"	7' - 2"	1 3/4"	ALUM	D	ANOD	TEMP	ALUM	AL-1	ANOD	-	X
119	1	3' - 0"	7' - 2"	1 3/4"	SCWD	A	PT	-	HM	HM-1	PT	-	X
119	2	5' - 8"	3' - 8"	1 3/4"	STL	CD-2	PT	-	-	-	-	-	-
119A	1	3' - 0"	7' - 0"	2"	SCWD	A	PT	-	HM	HM-1	PT	-	-
120	1	3' - 0"	7' - 2"	1 3/4"	SCWD	B	PT	TEMP	HM	HM-2	PT	-	-
121	1	3' - 0"	7' - 2"	1 3/4"	SCWD	A	PT	-	HM	HM-1	PT	-	-
122	1	3' - 0"	7' - 2"	1 3/4"	HM	A	PT	-	HM	HM-1	PT	-	X
123	1	12' - 0"	8' - 0"	2"	STL	OH-2	PT	-	-	-	-	-	-
123	2	3' - 0"	7' - 2"	1 3/4"	HM	A	PT	-	HM	HM-1	PT	-	X

DOOR SCHEDULE



PARTIAL FLOOR PLAN

SCALE: 1/8" = 1' 0"



DOOR ELEVATION

SCALE: 1/4" = 1' 0"



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TCC/SHORE TRANSIT BUS MAINTENANCE
FACILITY - PHASE II

31855 TRI-COUNTY WAY
SALISBURY, MD 21804

HOLLOW METAL STOREFRONT
FRAME AT DOOR 120/1

PROJECT NO.: 2009145.00

DATE: 01/31/12

SCALE: As indicated

DRAWN BY: DNH

MTA-
SK-5

