



MARYLAND TRANSIT ADMINISTRATION

MARYLAND DEPARTMENT OF TRANSPORTATION

Martin O'Malley, Governor • Anthony G. Brown, Lt. Governor
Darrell B. Mobley, Acting Secretary • Ralign T. Wells, Administrator

TO: All Planholders

FROM: Maryland Transit Administration

SUBJECT: **ADDENDUM NO. 4**
Contract No.: T-0705-0140
Kirk Bus Division Modernization Project – Phase 1 (Maintenance Building)

DATE: May 2, 2013

Enclosed and effective this date is Addendum No. 4 to the subject Contract. This change does delay the Bid Opening Date of May 7, 2013 to **May 10, 2013 at 2pm, E.S.T.**, 6 St. Paul Street, Baltimore, MD 21202, Conference Room #731.

A conformed copy of the revised specification sections is attached. A list of the changes made to this contract is attached to this Addendum.

The Bidder shall acknowledge receipt of this Addendum by completing and returning this form with the bid package.

All other terms and conditions remain unchanged.

Sincerely,



Rick Owens, Contracts Manager
Procurement Division

Acknowledgement of receipt of ADDENDUM #4 to Solicitation #T-0705-0140

Vendor Name: _____

Authorized Representative's Signature

Date

ADDENDUM NO.: 4
DATE: 05/02/13
CONTRACT NO.: T-0705-0140

The following additions, deletions, and modifications are hereby made a part of the Contract Documents of Kirk Bus Division Modernization Project – Phase 1 (Maintenance Building), Contract No.: T-0705-0140.

Item No.	Page	Modification
VOLUME I. CONTRACT SPECIFICATIONS		
1	POBC	Revised - Attachment for Procurement Officer's Bid Checklist (POBC) to be consistent with changes made in Addendums 2 and 3.
2	Special Provisions Section 14450, page SP-1303	Removed - "Section 2.01 G.6, Cable Reel and Eyelet/Anchoring Point" for each Portable Lift which was inserted in Addendum No. 2.

All other conditions of this IFB remain the same. Also attached are the responses to contractors' questions.

COLOR/KEY CODE

If answer is no, potentially reject on responsiveness or possibly responsibility. However certain mistakes may be subject to the provisions of GP 2.14 (mistake that may be corrected via confirmation of bid) or GP 2.15 (minor variation that may be corrected or waived).

If answer is yes, responsibility issue may be cured in certain instances. Otherwise the bidder may be rejected as not responsible.

Procurement Officer's Bid Check List**Date:****Bidder's Name:**

Bid Content	Yes/No/NA
BID FORM (BF), Notice to Contractors (NTC), and GP-2.06 General Compliance	
Did the bidder submit its bid upon the blank form(s) furnished by the Administration? (GP-206(a))	
Are all unit prices and extended prices present and recorded in dollars and cents to include the total amount of the bid (sum of items 001 thru 157)? Is line 158 Insurance Premium (Contingency) present and recorded in dollars and cents? (GP-206(a))	
Is the bid form filled out legibly in ink or typed? (GP-206(b))	
Is the bid form signed by an authorized individual with authority to bind the bidder? (GP-206(b))	
Did the bidder indicate it was not on the GSA list of Parties Excluded from Procurement and the State of MD list of Debarred Contractors? (BF, para 6 and NTC, para 15) Note: Requires a web search to verify.	
Did the bidder show it will perform on site with its own forces 35% or more of the work under the contract? (BF, para 7 and NTC, para 18)	
Did the bidder represent that it is or is not controlled by a parent company and if yes provided the name of the parent company? (BF, para 8)	
Did the bidder, if a foreign corporation, either provide a copy of its SDAT registration or certify that it would register? (BF, paras 10b and c) Note: Requires web search of SDAT web site to verify.	
BID BOND or INDIVIDUAL SURETY BID BOND (BF, para 12a and NTC, para 9)	
Is the Administration's Bid Bond Form (or Individual Surety Bid Bond) present? If an Individual Surety Bid Bond, are both the Affidavit of Individual Surety (Atch A) and the Surety Affidavit (Atch B) present in the bid?	
Is the Bond unaltered, completed and signed by the corporation and Surety?	
Is the Bid Bond or the Individual Surety Bid Bond equal to 5% of the total bid price?	
Is the Bid Bond Surety authorized to do business in Maryland and approved by the Comptroller of Maryland to be a surety? Or if an Individual Surety Bid Bond, is the Documentation of Pledged Securities attached and the requirements specified therein met?	
Did the bidder submit another form of security satisfactory to the unit awarding the contract? Sections 13-207, 13-216, 17-104 of the State Finance and Procurement Article, Annotated Code of Maryland potentially apply.	
CONTRACTOR QUESTIONNAIRE (BF, para 12b)	
Is the questionnaire completed, signed by an authorized individual and notarized?	
Are there any responsibility issues revealed in the questionnaire? The Procurement Officer will look for any indication the bidder does not have the capacity for perform the contract or lacks the integrity and reliability to assure good faith performance and the project engineer will review to determine if the bidder's experience and capacity meet MTA requirements. (COMAR 21.06.01.01 and SGP-2.06.)	
BID/PROPOSAL AFFIDAVIT (BF, para 12c)	
Is the affidavit completed, dated and signed by an authorized individual with all blank spaces filled in?	
Are there disclosures in the affidavit, and if so, do the disclosures result in responsibility issues?	
BUY AMERICA CERTIFICATE (BF, para 12d and NTC, para 19)	
Is the Steel, Iron Or Manufactured Products Certificate Of Compliance With 49 U.S.C. 5323 (j)(l) completed and signed or does the bidder qualify for an exemption?	
APPENDIX, 49 CFR PART 20—CERTIFICATION REGARDING LOBBYING (BF, para 12e)	
Is the Lobbying Certification completed and signed?	
DBE REQUIREMENTS (BF, para 12f and g, NTC, para 12, and DBE Forms A & B Instructions)	
Did the bidder submit with their bid a fully executed copy of the Certified DBE Utilization and Fair Solicitation Affidavit (MDOT DBE FORM A)?	
Is the DBE FORM A completed and signed by an authorized person?	

Procurement Officer's Bid Check List

Date:	
Bidder's Name:	
Bid Content	Yes/No/NA
In Form A, did the bidder check in block 1 that the 30% goal will be met? (NTC, para 12C) Or	
Did the bidder check in block 1 that a waiver would be necessary?	
Did the bidder submit a fully executed copy of the DBE Participation Schedule (MDOT DBE FORM B), Part 2 and Part 3?	
Does the sum of all DBE percentages in Part 2 equal the DBE goal on FORM A? Are the DBE credited supplies 60% or less of the entire contract goal? (NTC, para 12D)	
Are all DBEs identified on Form B MDOT certified? (ALL DBE FIRMS MUST BE CERTIFIED BY THE MARYLAND DEPARTMENT OF TRANSPORTATION. NO OTHER CERTIFICATIONS WILL BE ACCEPTED.)	
DBE Forms C, D and Waiver are not required to be submitted with bid.	
INVESTMENTS IN IRAN (BF, para 12h and NTC, para 20)	
Is the Certification completed, dated and signed?	
LOCATION OF PERFORMANCE OF SERVICES DISCLOSURE (BF, para 12i and NTC, para 21)	
Is the Disclosure completed, dated and signed?	
MERCURY AFFIDAVIT (BF, para 12j and NTC, para 21)	
Is the Affidavit completed, dated and signed?	
CONFLICT OF INTEREST AFFIDAVIT (BF, para 12k and NTC para 24)	
Is the Affidavit completed, dated and signed?	
Are there any conflicts of interest reported?	
HIRING PLAN (BF, para 12l and NTC, para 25)	
Is the Hiring Plan (Form NTW-1), completed, dated and signed?	
ADDENDA (BF, para 12m and NTC, para 7)	
Bidders are required to acknowledge all addenda with their bid package. Is a signed copy of the Cover Letter for each Addendum issued by MTA included with the bid package?	
INSURANCE REQUIREMENTS (BF, para 12n and NTC, para 17)	
Is the Insurance Cost Worksheet included with the bid?	
Are the coverages at least equal to the requirements in Exhibit B?	
Is the Insurance Cost Worksheet completed and signed by an authorized person?	
CONFIDENTIAL, PROPRIETARY INFORMATION OR TRADE SECRETS (GP 2.06d and GP 2.13b)	
Bidders shall identify those portions of their bids which they deem to be confidential, proprietary information or trade secrets, if applicable. Did the Bidder have any confidential, proprietary information or trade secrets identified?	
If applicable, did the Bidder provide any justification of why such materials should not be disclosed by the State under the Maryland Public Information Act, Section 10-611 et seq. of the State Government Article of the Annotated Code of Maryland?	
GP 2.17(b) Reasons for rejection of a bid may include but are not limited to:	GP-2.19 BID EVALUATION AND AWARD
(1) The bid is not responsive i.e., it does not conform in all material respects to the solicitation.	(a) General. The Contract is to be awarded to the responsible and responsive bidder whose bid meets the requirements and evaluation criteria set forth in the Invitation for Bids, and is either the lowest bid price or lowest evaluated bid price.
(2) Unreasonable price;	(b) Determination of Lowest Bidder. Bids shall be evaluated to determine which bidder offers the lowest cost to the State in accordance with the evaluation criteria set forth in the Invitation for Bids. Except as otherwise provided under GP-2.14 Mistakes in Bids:
(3) The bidder submitting the bid is determined to be nonresponsive. A determination of nonresponsibility may be made for, but is not limited to, any of the following reasons:	(1) The unit price will govern in the event of a discrepancy between the unit price bid and the extended price (product of unit price multiplied by the quantity).
(a) Bidder debarred or ineligible and period of debarment or ineligibility not expired.	(2) The sum of the extended prices will govern in the event of a discrepancy between the total lump sum bid and the extended prices.
(b) The unit prices contained in a bid are unbalanced.	(3) The written words will govern in the event of a discrepancy between the prices written in words and the prices written in figures.
(c) Evidence of collusion among bidders.	(4) If a unit price has been omitted, the unit price will be determined by dividing the extended price by the quantity.
(d) Inadequate quantity and/or quality of experience, plant, equipment, financing, manpower or other resources required to perform the Contract.	The Administration reserves the right to make the award by item, or groups of items, or total bid if it is in the best interest of the State to do so unless the bidder specifies in his bid that a particular or progressive award is not acceptable.

Procurement Officer's Bid Check List

Date:

Bidder's Name:

Bid Content	Yes/No/NA
(e) Bidder's workload which, in the judgement of the Administration, might hinder or prevent the prompt completion of the subject work if awarded.	(c) Award. Upon determination of the lowest bidder, review of the bid for responsiveness and satisfaction the bidder is responsible, the Contract may be awarded to that bidder. A Contract may be awarded to a bidder offering a higher quality item than that designated in the Invitation for Bids if that bidder is also the lowest responsive and responsible bidder.
(f) Default by the bidder on other Contracts.	SGP-2.06 COMPETENCY OF BIDDERS
(g) Failure to pay or satisfactorily settle all reasonable and just bills due for labor and material on prior or current Contracts.	Bidders shall furnish, with their bid, answers to questions contained in the Contractor's Questionnaire. Bids Submitted by Bidders with inadequate experience or capacity may be rejected by the Administration.
(h) The same person has an interest in more than one bid on a Contract exclusive of being named by another bidder as a subcontractor.	
(i) Failure to perform satisfactorily on other Contracts awarded, and the conditions leading to unsatisfactory performance remain unresolved.	
(j) Any other reason affecting the bidder's ability to perform, or record of business integrity.	
(k) Bidder not otherwise qualified and eligible to receive an award under applicable laws and regulations.	
(4) The bidder or offeror fails to supply information to the procurement officer promptly, after notification from the procurement officer that such information is required in connection with a determination to be made pursuant to this GP-2.17	

SECTION 14450
VEHICLE LIFTS
PART 1 GENERAL

1.01 DESCRIPTION:

- A. Section Includes:
1. This Section specifies furnishing, installing and testing portable lifts. Provide necessary labor, services, and incidental required for complete equipment installations.
 2. In-ground lift shall be capable of lifting all of the vehicles in the Owner's fleet including cars, trucks, vans, and buses with a maximum dimensions of 730 inches long by 102 inches wide and up to 66,790 pounds.
- B. Related Documents:
1. Drawings, MTA General Provisions for Construction Contracts, Supplementary General Provisions and Division 1 specification sections apply to the work of this section.
- C. Related Sections:
1. Section 01780 –Close Out.
 2. Section 01600 – Products.
 3. Section 11005 – Basic Equipment Materials and Methods.
 4. Division 15 - Mechanical.
 5. Division 16 - Electrical.

1.02 QUALITY ASSURANCE/QUALITY CONTROL:

- A. The manufacturer shall guarantee the lifts' compliance with all applicable provisions set forth by ALI ALCTV "Standard for Automotive Lifts – Safety Requirements for Construction, Testing and Validation".
- B. The manufacturer shall certify that the vehicle lift installer has satisfactory past experience in the installation of equipment of the type specified herein. Manufacturer's certification shall include the following items:
1. A letter certifying that the proposed vehicle lift installer has

submitted satisfactory evidence that the installing firm has had successful past experience in the installation of similar equipment in the past 2 years.

2. Provide a list of a minimum of three locations where similar equipment installed by the proposed vehicle lift installer is in service, including the duration of service.
3. Provide the name of a person contacted by the manufacturer at each installation location referred to above, who is familiar with the operation and maintenance of the vehicle lift equipment. Include a brief synopsis of conversation regarding lift operation and maintenance.

C. Construction Conditions and Coordination:

1. Before submitting bid, review the Contract Documents and become thoroughly familiar with the conditions affecting the work. No additional compensation will be granted due to extra work made necessary by his failure to investigate such conditions.
2. Prior to initiating work specified in this Section examine all work prepared by other trades to receive the work of this Section and report any defect affecting installation to the Engineer for correction. Commencement of work will be construed as complete acceptance of preparatory work by other trades.
3. Plan installation of new work and connections to any existing work if applicable to insure minimum interference with other Work of the Contract.
4. The Work shall be carried out in accordance with actual field requirements and shall not depend on the extent of details shown on plans.
5. Verify the critical building dimensions associated with the equipment prior to final fabrication and installation of the equipment.
6. Coordinate the fabrication and installation of the equipment with the other Work of the Contract and schedule so that there will be no delay in the proper installation and completion of any part or part of each respective work task wherein it may be interrelated with that of this Contract so that generally all construction work can proceed in its natural sequence without unnecessary delay.
7. Examine all Contract Drawings relating to this Project, and verify

all governing conditions at the site and become fully informed as to the extent and character of the work required and its relation to other work in this Project. No consideration will be granted for any alleged misunderstanding of the materials to be furnished for work to be done.

D. References:

1. Automotive Lift Institute [ALI].
 - a. ALI ALCTV, Standard for Automotive Lifts - Safety Requirements for Construction, Testing and Validation.
2. National Electrical Manufacturers Association (NEMA).
3. Underwriter Laboratories, Inc. (UL).
4. National Electrical Code (NEC).
5. Institute for Electrical and Electronics Engineers, Inc. (IEEE).
6. American National Standards Institute (ANSI).
7. American Bearing Manufacturers Association (ABMA).

1.03 SUBMITTALS:

- A. Submit shop drawings, catalog cuts and all manufacturer's data covering all equipment covered in this section. If submitting catalog cuts, assure that the models specified or submitted are highlighted or underlined. No generic information will be accepted. Submit the following for review and approval:
1. Shop drawings.
 2. Product data.
 3. Installation Instructions.
 4. Operations and maintenance manuals.
- B. Shop Drawings: Shop drawings shall consist of the following as applicable:
1. Layout drawings showing equipment layout, elevations, conduit runs, utility layout and hook-ups, and all required dimensions.
 2. Detail drawings.

3. Foundation and structural support drawings including anchor bolt plan and elevation.
 4. Utility connection plan.
 5. Electrical control diagram.
 6. Electrical equipment layout, with all motors, limit switches, solenoid valves, disconnects, control panels, etc. located and labeled.
 7. Piping systems including pipe routing, sizing, valving, etc. fully noted and scheduled.
- C. Product Data: Manufacturer's literature including catalog cuts, pamphlets, descriptive literature, equipment specifications, performance and test data, and brochures which adequately describe the piece of equipment or product. Provide sufficient product and preventive maintenance information to properly address each equipment item and all major components installed to the maximum extent possible during the equipment submittal and approval phase of the project.
- D. Installation Instructions: Manufacturer's recommended installation instructions and manufacturer's installation drawings.
- E. Operations and Maintenance Data:
1. In accordance with Section 01780 and 11005.

1.04 TRAINING PROGRAM:

- A. In accordance with Section 01780 and 11005.

1.05 GENERAL DESIGN AND FABRICATION REQUIREMENTS:

- A. Equipment shall be designed, fabricated, installed and adjusted to secure the best commercially available results with respect to smooth, quiet, convenient and efficient operation, durability, economy of maintenance and operation, and the highest standards of safety.
- B. It is not the intent of these Specifications to detail the design and fabrication of the various parts of the equipment, but is expected that the type, material, design, workmanship and fabrication of each part shall be fully adequate for the service required, durable, properly coordinated with all other parts, in accordance with the best commercial standards and of the highest commercial efficiency. The components of electric circuits shall be of ample and proper size, design and material to avoid injurious

heating and arcing, and all other objectionable effects which may reduce the efficiency of operation and economy of maintenance and upkeep below the best commercially available results. Minimum requirements are given herein for the certain parts of equipment. Equivalent requirements approved by the Engineer shall apply to such parts as are of special design, construction or material and to which the specified requirements are not directly applicable. These minimum requirements as a whole shall also be considered as establishing proportionate general minimum standards for all parts of the equipment.

- C. The Engineer may permit variations from the requirements of these Specifications to permit the use of the manufacturer' standard equipment, provided that in his opinion such standard equipment is in every way adequate for the intended use and meets the full intent of these Specifications. All proposed variations shall be called to the attention of the Engineer in writing and shall be made only if approved in writing.
- D. Certain design limitations and tests are herein specified as a partial check on the adequacy of design, fabrication, and materials. These requirements do not cover all features necessary to insure satisfactory and approved operation of the equipment. Conformity with these requirements shall, in no way, supersede the general requirements as to satisfactory and efficient operation of the equipment.

1.06 SHOP PAINTING:

- A. Equipment shall be given one shop prime coat of approved rust-inhibitive paint containing at least 50 percent rust-inhibitive pigments and manufacturer's standard finish coat system. Shop drawings shall indicate brand and type of paints.

1.07 ELECTRICAL REQUIREMENTS:

- A. Power supply for equipment shall be 480 volts, 3-phase, 60 hertz unless otherwise specified.
- B. Provide transformers for equipment as required to step down the specified supply voltage to provide lower voltage for controls and accessories and to provide voltage compatible with equipment as required.
- C. Wiring shall be provided for complete installation of all equipment and accessories and shall be adequate for proper operation of equipment. Provide a disconnect switch for each equipment item requiring electric power; disconnect switch shall meet requirements of the respective equipment item manufacturer. Permanently label each disconnect switch to identify corresponding equipment item; labeling method shall be subject to

approval of the Engineer. Power wiring to line side of disconnect switch will be provided through work outside this contract. Contractor/supplier shall make connection to secondary side of disconnect switch and provide all wiring and conduit from this point, including wiring to controllers and starters. Provide 480 volt equipment with electric fusible disconnecting means, sized and fused as required for each equipment item. All disconnect switches shall be fused with 100,000 amp limiter fuses. Provide 120 volt equipment with electric thermal overload disconnect means sized as required for each equipment item. Wire and cable for light, power and signal circuits shall conform to those specified in the NEC. In no case shall maximum current carried exceed that specified by National Electrical Code for type of conductor used. Provide conduit where required; all wiring and conduit shall be in accordance with the requirements of NEC. Wiring and conduit for power shall be provided to all equipment from power connection sources within the building. See building drawings for power connection sources provided.

D. Motors:

1. Motors shall be high efficiency motors each bearing the UL label and constructed to standard of NEMA, IEEE, ANSI, and ABMA.
2. Motors shall be suitable for operation on the electrical service indicated.
3. There shall be no open motors provided. Motors shall be totally enclosed or drip-proof.
4. Provide motors with epoxy encapsulated insulation for severe usage in a corrosive atmosphere.
5. Motors rated one horsepower or greater shall have a full-load power factor of 85 percent or higher. Motors rated 25 horsepower and over shall be designed for reduced voltage starting. All motors shall be of the highest energy efficiency design available for the application.
6. 60 hertz unless otherwise specified.

E. Provide transformers for equipment as required to step down the specified supply voltage to provide lower voltage for controls and accessories and to provide voltage compatible with equipment as required.

1. Electrical enclosures to be NEMA 12 for indoor units and NEMA 4 for outdoor units unless otherwise noted on the Contract Drawings.

2. Starters shall be complete with two sets of auxiliary contacts; one set normally open; one set normally closed.
 3. For motors 25 HP or greater, provide solid state type reduced voltage starters.
- F. Control devices necessary for proper operation shall be provided and shall be located to permit efficient operation of the equipment, and where possible shall be grouped in a factory-fabricated approved control panel.
- G. Switches, lights and control functions shall be identified with legend decals.

1.08 GASKETS AND FASTENERS:

- A. Provide new gaskets wherever gasketed mating equipment items or pipe connections have been dismantled. Gaskets shall be in accordance with manufacturer's recommendations.
- B. Replace all assembly bolts, studs, nuts and fasteners of any kind which are bent, flattened, corroded, or have their threads, heads or slots damaged.
- C. Furnish all bolts, studs, nuts and other fasteners for make-up of all connections to equipment and replace any of these items damaged in storage, shipment or moving.

1.09 EQUIPMENT:

- A. Equipment, machinery and materials shall be as specified in this section.
- B. Equipment shall be factory-finished with manufacturer's standard primer and finish coats of paint.
- C. All piping, valves, fittings, conduits and wiring required for the equipment installation shall be in accordance with the applicable portions of the overall construction contract, except where specified by the Equipment Specification.

1.10 HOLES, OPENINGS AND INSERTS:

- A. Provide holes and openings in floors, walls, ceilings and roofs as required.
- B. Core drill holes in existing concrete and masonry work using dustless method. Install concrete inserts and flashings as required. Grout in holes in walls, floor and roof slabs after installation of equipment, and leave them in a completely neat and sealed condition.
- C. Repair holes in non-masonry surfaces to match existing materials. Seal

with appropriate matching materials.

- D. Paint or coat repaired match existing adjacent surfaces.

1.11 SETTING AND ALIGNING EQUIPMENT:

- A. Equipment shall be set and aligned in accordance with manufacturer's recommendations, approved shop drawings and applicable standards of trade practice.
- B. Equipment shall be set true and level. Demonstrate adequate leveling of installed equipment.
- C. Re-tighten bolted connections after installation.

1.12 CLEANING AND PROTECTION

- A. Clean fabricated assemblies and equipment items thoroughly before and after operating and testing.
- B. Protect equipment from damage, deterioration, paint or coating spills or spots, corrosion, or harm from any source.

1.13 CONCRETE FOUNDATIONS:

- A. Provide concrete foundations for equipment as indicated on the Contract Drawings or as specified herein.
- B. Concrete and reinforcement shall conform to manufacturer's suggested installation or all required governing codes.
- C. Provide anchor bolts as required for equipment to be mounted.
- D. Provide grouting as necessary to stabilize equipment bases to concrete foundations.

1.14 MOTORS AND DRIVES:

- A. Motors and drives shall be checked carefully for correct rotation and alignment before placing equipment into operation.
- B. Couplings shall be disconnected and realigned before placing into service or testing.
- C. Belt drives shall be adjusted and worn belts replaced in sets. Speed adjustment shall be subject to approval of the Engineer.

1.15 INSPECTION:

- A. Work will be inspected by the Engineer periodically during the course of construction.
- B. Provide for inspections by all other trades having jurisdiction over the work performed during the progress of the work.
- C. At time of final inspection, furnish certificates of final approval by all those having jurisdiction as applicable.

1.16 FIELD PAINTING:

- A. Field painting equipment, including touch-up painting, if any, is included under this Section of Specifications. Normally, equipment shall be factory-finished as previously specified.
- B. Where factory finishes are provided on equipment and no additional field painting is specified, all marred or damaged surfaces shall be touched up or refinished so as to leave a smooth, uniform finish matching the factory finish.

1.17 PRODUCT DELIVERY, STORAGE, AND HANDLING:

- A. Deliver, store, and handle products without damaging them.
 - 1. Receive, unload, check, protect, and store equipment in facilities suitable to keep it clean, dry, and free from damage, vandalism, and pilferage.
 - 2. Pay demurrage charges and claims for damage resulting from unloading operations.
 - 3. Examine equipment for visible and concealed damage. Report any damage to carrier, supplier, and the Engineer as soon as possible.
- B. Protect equipment from loss, deterioration, and damage until work is complete.
 - 1. Protect installed equipment prior to start-up and Final Acceptance.
 - 2. Protect exposed finished surfaces with removable coating or film, cover openings to exclude dirt and fouling materials, and protect unfinished surfaces against rust, corrosion, and other damage.
 - 3. Protect equipment from paint or coating spills and spots.

1.18 WARRANTY:

- A. Manufacturer shall warrant all equipment including parts and labor for a period of two (2) years from date of acceptance.
- B. Contractor shall provide written documentation from the manufacturer that warranty service will be available at the delivery location(s) by a dealership franchised by the manufacturer. Service shall be provided within 24 hours after notification from the Owner.
- C. Parts shall be available from a dealership franchised by the manufacturer. The dealership shall normally stock all consumables and parts that could reasonably be expected to fail during normal use of the lift.

PART 2 PRODUCTS**2.01 PORTABLE BUS LIFTS (SET OF 4 OR 6):**

- A. Equipment Item Number:
 - 1. MB-2 Portable Bus Lifts 4 Post: 36 Plug In Units required.
 - 2. CW-3 Portable Bus Lifts 6 Post: 12 Plug In Units required.
- B. Acceptable manufacturers:
 - 1. Products of the following manufacturer are the standard of quality for the portable bus lifts:
 - a. Steril-Koni USA, Inc.
200 Log Canoe Circle
Stevensville, MD 21666
Telephone: (800) 336-6637 or (410) 643-9001
Email: request info (lifts@steril-koni.com)
 - 2. Products of equal quality and utility of other approved manufacturers will be accepted.
- C. Requests for substitutions
 - 1. Will be considered in accordance with provisions of Section 01600.
 - 2. Requests for changes on products, materials, equipment and

methods of construction required by the contract documents by the Contractor after the award shall be considered requests for "substitutions", and shall follow the procedures outlined within the bid documents for Substitutions.

3. Any substitution of specified lift requiring modifications of foundation system detailed will be the responsibility of the Contractor.
4. The Contractor shall provide for any and all engineering and redesign of foundation system as a result of substitution.
5. Under no circumstances will extra payment be permitted as a result of additional work to accommodate any equipment substitution.

D. General Description

1. The lift system shall consist of four (4) or six (6) portable wheel engaging type lift stations with tire contact adapters, and operating controls.
2. Lift shall be capable of handling all vehicles in Owner's fleet.
3. The base frame of the lifting column shall be of a rectangular design with mitered rear corners to permit a narrow turning radius. The contact pattern to the foundation under the column shall be triangular in design to ensure uniform contact with the lifting foundation.

E. Lifting Capacity:

1. Each column shall have a nominal rated capacity of 18,000 lbs. per jack.
2. Lifting and Column Height:
 - a. The achieved lifting height of the column shall be no less than 69 inches when measured from the foundation on which the column rests to the bottom of the lifting fork.
 - b. Column height shall not be greater than 102 inches when fully collapsed and 143.5 inches when the carriage has achieved maximum height.
3. Tire Size:
 - a. Wheel contact forks shall freely accept tires with rim

diameters between R 17 and R 22.5 without modification. Optional reduction sleeves shall be available to narrow the contact forks to allow the lifting of tires with smaller rim diameters. With the installation of one reduction sleeve the operator shall have the ability to lift vehicles with rim diameters between R15 and R17.

4. Pallet Jack Mechanism:
 - a. The pallet jack mechanism shall have a gas shock incorporated into its design which will dampen the impact of floor deviations experienced while the column is relocated as well as to prevent damage to the pallet jack mechanism from overloading.
 - b. The gas shock will ensure that the column settles to the lifting foundation if the operator neglects to release the pallet jack before rising.
 - c. Pallet jack mechanisms that do not incorporate a gas shock to protect the operator and column shall be unacceptable.
5. Wheels:
 - a. The column shall be fitted with fixed front roller wheels fabricated from oil impregnated nylon so as to be non-destructive to the foundation on which the column rests. Columns that utilize steel roller wheels shall not be acceptable.
 - b. Floor pressure at the front roller wheel location shall be no greater than 7000 psi.
6. Controls:
 - a. The various functions of the mobile lifting system shall be initiated from the control panels on the columns.
 - b. Each control box (primary and secondary) shall at a minimum:
 - i. An "up" button.
 - ii. A "down" button.
 - iii. PCB-printed circuit board.

- iv. Motor relays.
 - v. Transformer for all voltages with 24 VDC output for the control circuit.
 - vi. Reserve fuses.
 - vii. Connectors for communication cables with hinged sealing caps fitted with gaskets.
 - viii. Lock to prevent unauthorized entry into box.
 - ix. A "select" button to initial start up and column selection.
 - x. LEDs to illustrate single, all or pair operation as well as fault condition.
 - xi. A "lock release" button.
 - xii. A "slow (turtle)" initiate button for slowed lowering.
- c. Each control panel designated as the primary shall contain the following as a minimum:
- i. Input power supply cable.
 - ii. Main power switch.
- d. The control panel of each column shall be fitted with a button that displays a turtle. The function of the turtle button shall be so that the operator can initialize the system to lower at a reduced speed to aid in the placement of support stands and the installation of under vehicle components.
- e. Each column shall be fitted with an individual analog height measuring device. This height measuring device shall ensure that the height of each column in the set remains synchronized at the height initiated by the operator. The height measuring device shall also allow, through single operation, that the operator can raise any column to its individual maximum height.
- f. The electrical connection of the communication cables of the lifting system shall be a closed loop. The control system

shall immediately disconnect the high voltage that is transmitted through the communication cables at the instant that the communication loop is opened.

- g. Interconnecting communication cables shall be of a heavy-duty type with a minimum diameter of 0.75 inch. The construction of the cable shall incorporate an outer oil resistant jacket covering a layer of interlocking steel braids over another layer of insulation, all of which encase the individually insulated conductors. The cable shall be design to withstand being drive over occasionally with pneumatic tires. Any communication cable that will not withstand pneumatic tire traffic without suffering damage is not unacceptable.
 - h. Control panel shall be rated IP 65. . Control panels that do not meet IP 65 standards are unacceptable.
7. Drive Mechanism:
- a. The drive system shall be hydraulic and shall permit lifting without any pulsation, jerks, or unsteady lifting. Lifting shall be smooth. The hydraulic power unit shall be an electrically-powered pump, flow control valves, and a fluid reservoir.
 - b. Lifting carriage shall ride on durable oil filled nylon guide rollers. Guide rollers shall require no lubrication and no maintenance. Guide rollers made of hard steel or any other steel type shall not be accepted. Also carriages that operate with a sliding blocks system shall be unacceptable.
 - c. Each hydraulic cylinder shall be equipped with a hose burst check valve to prevent decent in the event of a major fluid leak.
8. Safety Devices:
- a. An independent and fail-safe mechanical locking system shall be present on each column. This safety device shall be totally independent from the lifting drive system. Systems that utilize non-load bearing "safety nuts" shall not be acceptable since they are integrated with the lifting drive itself.
 - b. Increments on lifting carriage locking profile shall not be greater than 1.375 inches and the first locking position shall

engage after no more than five inches of lifting. Columns with locks that engage above five inches are not acceptable.

F. Power Requirements

1. Motor - 440 volt, 3-phase, 60 hertz. (Wired for 480 volts.)
2. Operating Amps: 4 posts @ 208 volts: 15 amps
3. Control Voltage - 110 volts
4. Provide NEMA L16-30P plugs.

G. Accessories

1. Furnish 2 complete sets of power/control cables, to serve as spare cables.
2. Provide optional reduction sleeves to narrow the contact forks to allow the lifting of tires with smaller rim diameters. With the installation of one reduction sleeve the operator shall have the ability to lift vehicles with rim diameters between R15 and R17. With the installation of two reduction sleeves, the operator shall have the ability to lift vehicles with rim diameters as small as R12.
3. Provide retractable wheel design to ensure no loaded wheel contact with concrete with the columns are loaded.
4. Mobile Support Stand: The support stand shall have a capacity of 15,000 pounds with a cradle support pad. The stand shall be adjustable from 52 inches to 78 inches, in increments of three inches (3 inches). Further, the stand shall be designed and engineered to sustain three-time its rated load carrying capacity and finished in OSHA safety green. Two (2) wheels and a handle shall be provided for easy maneuvering of stand(s). Quantity: Six (6) each.
5. Screw Fine Adjustment (Model SP-75): For Model AB-6-20 Mobile Support Stand. Shall be made of a quarter inch (1/4) steel plating with a machined turret-head allowing the mounting pad to make direct contact with the vehicle frame. One each stand.

H. Portable Bus Lifts shall be Mobile Lifting Columns Model ST 1082 with Accessories as manufactured by Stertil-Koni USA, Inc.

PART 3 EXECUTION**3.01 EXAMINATION:**

- A. Verify existing conditions before starting work.
- B. Verification of Conditions: Verify that field measurements, surfaces, substrates and conditions are as required, and ready to receive Work.
- C. Test soil to determine corrosive characteristics. Take necessary measures to protect in-ground equipment with a cathodic protection system if needed.

3.02 INSTALLATION:

- A. Install lift in strict accordance with the approved shop drawings and manufacturer's installation instructions.
- B. Electrical Interface:
 - 1. Electric services for equipment are specified as work of Division 16 – Electrical, and are terminated near the piece of equipment in a shut-off means. As part of the work of this Contract, extend these services to the equipment and make the associated connections as recommended by the equipment manufacturer.
- C. Proceed with start-up, testing and instructions.
- D. The following utilities will be provided as work of other sections:
 - 1. 480 VAC / 208 VAC, 3 phase, 60 Hz.
 - 2. Compressed Air, 100 psig maximum, 2 CFM maximum oil-free, with filter and regulator.
 - 3. Contractor shall be responsible for any other utilities required.
- E. Contractor shall be responsible for coordinating with the manufacturer regarding the scheduling, delivery and preparations necessary to install the specified equipment.
- F. Contractor shall coordinate with the manufacturer to ensure floor slabs and recesses are adequate to mount and support equipment.

3.03 FIELD QUALITY CONTROL:

- A. Provide the services of a qualified manufacturer's representative to perform the following:

1. Supervise preparatory work performed by other trades.
2. Supervise installation.
3. Prior to substantial completion of the facility, supervise testing, by the Contractor in the presence of the Owner to ensure proper operation of the equipment.

3.04 TRAINING:

- A. The contractor shall provide training in accordance with the requirements of Division 1 and Section 11005 and this section.
- B. Operations and Maintenance Manuals shall be approved and accepted prior to the training and will be provided as required for reference materials during class presentations.

PART 4 : MEASUREMENT AND PAYMENT**4.01 PORTABLE BUS LIFTS (SET OF 4 OR 6):**

- A. Portable Bus Lifts (MB-2 and CW-3) will not be measured for payment.
- B. Portable Bus Lifts (MB-2 and CW-3) will not be paid directly, but will be included in the lump sum bid prices for the Maintenance Building.

END OF SECTION



**PROJECT: T-0705-0140 - Kirk Bus Division Modernization Project - Phase 1
(Maintenance Building)**

INVITATION FOR BID - QUESTIONS / RESPONSES

			Responses to Questions
No.	Spec. Page #, Section & Para #	Question	Response to Question
1		<p>According to specification section 02455 – Steel H-Section Piles, article 3.08 "Monitoring Threshold and Limiting Levels" part A.2 and A.3, the Contractor must include all costs for eliminating any vibration above the set thresholds in their unit price. The contractor must also have on site all materials and equipment to do so.</p> <p>On sheet S2002, section D.Foundation of the general notes, we are told to refer to Geotechnical Data prepared by E2CR Inc. for additional information. The geotechnical report suggests predrilling and grouting H-piles as a way to limit vibration. It also states that citizen complaints could be reason for needing to implement such measures.</p> <p>Including all costs for an undetermined procedure on an unknown number of piles needing said procedure in the unit price, especially given the large base bid quantity, could result in significant extra costs to the owner in the form of inflated unit prices even if corrective measures are not warranted during construction. Please consider treating corrective measures as extra work, establishing a contingent quantity, clarifying criteria for predrilling depths and pile installation procedure, or any combination of the three and include it in the bid.</p>	<p>The Contractor shall submit their bid based upon the information provided and details described in the Contract Documents.</p>
2	Page SP-43 (1300-20); SP 01300, Section 1.10 B.	<p>Specifications call for the 14x89 H-piles to have an allowable load of 55 tons. Notes on drawings state that "The axial allowable capacity for all piles is 115 tons". Please confirm the correct capacity of the H-piles.</p>	<p>The 115 tons noted on the drawings is the correct capacity of the H-piles vs. what is stated in the specifications.</p>



MARYLAND TRANSIT ADMINISTRATION

MARYLAND DEPARTMENT OF TRANSPORTATION

Martin O'Malley, Governor • Anthony G. Brown, Lt. Governor
Darrell B. Mobley, Acting Secretary • Ralign T. Wells, Administrator

TO: All Planholders
FROM: Maryland Transit Administration
SUBJECT: **ADDENDUM NO. 3**
Contract No.: T-0705-0140
Kirk Bus Division Modernization Project – Phase 1 (Maintenance Building)
DATE: April 26, 2013

Enclosed and effective this date is Addendum No. 3 to the subject Contract. This change does not delay the Bid Opening Date from **May 7, 2013 at 2pm, E.S.T.**

A conformed copy of the revised specification sections is attached. A list of the changes made to this contract is attached to this Addendum.

The Bidder shall acknowledge receipt of this Addendum by completing and returning this form with the bid package.

All other terms and conditions remain unchanged.

Sincerely,

Rick Owens, Contracts Manager
Procurement Division

Acknowledgement of receipt of ADDENDUM #3 to Solicitation #T-0705-0140

Vendor Name: _____

Authorized Representative's Signature

Date

ADDENDUM NO.: 3
DATE: 04/26/13
CONTRACT NO.: T-0705-0140

The following additions, deletions, and modifications are hereby made a part of the Contract Documents of Kirk Bus Division Modernization Project – Phase 1 (Maintenance Building), Contract No.: T-0705-0140.

Item No.	Page	Modification
I. CONTRACT SPECIFICATIONS		
1	Cover Page	Revised to include new language regarding DBE participation
2	TOC 1-12	Revised to include new attachment; Added Specification 02621 Non-Woven Geotextiles
3	NTC 1-8	Revised to include new language regarding new attachment
4	BF 1-3	Revised to include new attachment
5	CA 1-2	Revised to include new language
6	HP	New attachment for Hiring Plan
II. SPECIAL PROVISIONS		
1	Specification 01570, Section 1.15 and 4.06 added	Added Section 1.15 – Passive Ventilation System and Section 4.06 – Passive Ventilation System. As a follow-up to the Response to Contractor Question No. 9 in Addendum No. 2, these sections have been added, the aggregate for the system is covered in Specification 02720, the PVC pipe (sizes shown on the drawings) for the system is covered in Specification 02624. The Passive Ventilation System shall be included in the lump sum maintenance building bid item.
2	Specification 02621 added	Added Specification 02621. As a follow-up to the Response to Contractor Question No. 9 in Addendum No. 2, this specification has been added, the aggregate for the system is covered in Specification 02720, the PVC pipe (sizes shown on the drawings) for the system is covered in Specification 02624. The Passive Ventilation System shall be included in the lump sum maintenance building bid item.

All other conditions of this IFB remain the same.

Also attached are the answers to contractors' questions.



**PROJECT: T-0705-0140 - Kirk Bus Division Modernization Project - Phase 1
(Maintenance Building)**

INVITATION FOR BID - QUESTIONS / RESPONSES

		Responses to Questions	
No.	Spec. Page #, Section & Para #	Question	Response to Question
1		<p>a) it appears the 8 inch sanitary is connected to a 24" X 42" Sanitary Culvert, in Kirk Ave. Is this so?; And is this where the sanitary line is to be cut/plugged?</p> <p>b) it appears the 6 inch water is attached to a 16 inch Water Main in Kirk Ave. If so, will the 16 inch Main be required to be shut off to perform the cut/capping of the 6" water line?</p> <p>c) Most importantly, what are the Depths (profiles) of these main lines?</p>	<p>a) Yes. Yes Yes, the contractor is to coordinate with Baltimore City as per drawing C4102 (sht 18 of 407) for shutdown requirements</p> <p>b) c) The depth of the lines are shown on the profiles on drawings C4102 and C4103 (shts 18 and 19 of 407)</p>
2	<p>Page SP-43 (1300-20); SP 01300, Section 1.10 B.</p>	<p>I am a photographer and have a question regarding the format of the enlargements for the Kirk Bus project.</p> <p>Section 01300, Part 1.10.B specifies photo ID be provided in an "information box [measuring] 1.5x3.5 inches in the lower right hand corner"</p> <p>Please see the attached photo which is in the format I typically deliver to construction clients. The page size is 6x10, the image is approx. 6.3x9.5, and the data label is integral to the photo, added as text to the digital photo file, and is completely customizable. The advantages are (1) the image is not cropped; what you get is what the camera recorded, and (2) no part of the image is obscured by an overlay of text.</p> <p>An alternate form could print to the edges of the paper (top, left & right) giving an image size approx. 6.5x10 with a 1.5-inch border/ID box along the bottom.</p> <p>Would either of these formats be an acceptable alternate to the format described in the specifications?</p>	<p>For purposes of the bid, the contractor shall follow the requirements identified in the specification. If during construction, the contractor and the resident engineer decide to utilize a different format for the progress prints, that will be left up to the resident engineer.</p>

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION



BUS

Contract Specification Book

KIRK BUS DIVISION

**MODERNIZATION PROJECT –
PHASE 1 (MAINTENANCE
BUILDING)**

CONTRACT NO. T-0705-0140

VOLUMES I - IV

DATE: March 4, 2013

Disadvantaged Business Enterprises are encouraged to respond to this solicitation. Contractors are encouraged to contact the Disadvantaged Business Enterprises Financial Institutes.

**KIRK BUS DIVISION MODERNIZATION PROJECT – PHASE 1
(MAINTENANCE BUILDING)
CONTRACT NO. T-0705-0140
CONTRACT SPECIFICATIONS BOOK**

TABLE OF CONTENTS

<u>DESCRIPTION</u>	<u>PAGE NO.</u>
VOLUME I	
VENDOR COMMENTS.....	VC 1
NOTICE TO CONTRACTORS	NTC 1–8
BID FORM INCLUDING UNIT PRICE SCHEDULE	BF 1–26
BID BOND	BB 1–2
AFFIDAVIT OF INDIVIDUAL SURETY & APPENDIX.....	AIS 1–5
CONTRACTOR QUESTIONNAIRE	CQ 1–5
BID/PROPOSAL AFFIDAVIT	BPA 1–6
BUY AMERICA CERTIFICATE	BAC 1
CERTIFICATION REGARDING LOBBYING.....	CRL 1
DBE REQUIREMENTS	DBE 1–9
LIABILITY INSURANCE REQUIREMENTS.....	IR 1–28
SUBCONTRACTOR UTILIZATION INFORMATION FORM	SUI 1–2
PAYMENT BY ELECTRONIC FUNDS TRANSFER.....	EFT 1–3
CONTRACT AGREEMENT	C 1–2
CONTRACT AFFIDAVIT	CA 1–4
SURETY BOND ASSISTANCE PROGRAM	SBAP 1
PAYMENT BOND	PA 1–4
PERFORMANCE BOND	PE 1–3
BID PROTEST	BP 1
CERTIFICATION REGARDING INVESTMENT ACTIVITIES IN IRAN	IRAN 1-2
LOCATION OF THE PERFORMANCE OF SERVICES DISCLOSURE ...	LPSD 1
MERCURY AFFIDAVIT	MA 1
CONFLICT OF INTEREST AFFIDAVIT	COI 1

TABLE OF CONTENTS - Cont.

<u>DESCRIPTION</u>	<u>PAGE NO.</u>
HIRING PLAN	HP 1-7
PROCUREMENT OFFICER'S BID CHECK LIST	POBC 1-3
MTA PROJECT SAFETY PLAN	PSP 1-33
GENERAL PROVISIONS FOR CONSTRUCTION CONTRACTS (MARYLAND DOT)	GP 1-68
SUPPLEMENTAL GENERAL PROVISIONS FOR CONSTRUCTION CONTRACTS (MTA)	SGP 1- 62

**SPECIAL PROVISIONS
VOLUME II**

SPECIAL PROVISIONS

01110 SUMMARY OF WORK.....	SP 1-5
01130 CONSTRUCTION PROCEDURES	SP 6-15
01150 INTERFACE REQUIREMENTS	SP 16-20
01210 MISCELLANEOUS WORK ALLOWANCE	SP 21-23
01300 SUBMITTALS	SP 24-45
01310 COORDINATION AND MEETINGS	SP 46-49A
01360 SAFETY AND SECURITY CERTIFICATION.....	SP 50-53
01450 QUALITY ASSURANCE AND QUALITY CONTROL.....	SP 54-66
01500 TEMPORARY FACILITIES AND CONTROL	SP 67-74
01523 ENGINEER'S OFFICE TYPE 3.....	SP 75-84
01550 MAINTENANCE OF TRAFFIC.....	SP 85-89
01570 ENVIRONMENTAL PROTECTION	SP 90-109
01600 PRODUCTS	SP 110-111
01780 CLOSE OUT	SP 112-116
01800 COMMISSIONING.....	SP 117-152
01900 MAINTENANCE BUILDING	SP 153

TABLE OF CONTENTS - Cont.

<u>DESCRIPTION</u>	<u>PAGE NO.</u>
02220 SITE DEMOLITION	SP 154-157
02230 SITE CLEARING	SP 158-161
02315 EXCAVATION	SP 162-179
02317 EXCAVATION AND FILL	SP 180-186
02319 TAMPED FILL	SP 187-188
02320 FURNISHED SUBSOIL	SP 189-190
02330 EMBANKMENT AND SUBGRADE	SP 191-195
02350 RODENT EXTERMINATION.....	SP 196-197
02360 STONE PIERS	SP 198-201
02370 EROSION AND SEDIMENT CONTROL	SP 202-204
02372 SOIL STABILIZATION MATTING	SP 205-206
02455 STEEL H-SECTION PILES.....	SP 207-223
02510 WATER DISTRIBUTION	SP 224-226
02530 SANITARY SEWER	SP 227-235
02620 SUBDRAINAGE	SP 236-241
02621 NON-WOVEN GEOTEXTILE.....	SP 241A-241D
02624 PIPING	SP 242-243
02630 STORM DRAINAGE	SP 244-248
02650 SAND FILTER	SP 249-252
02720 AGGREGATE BASE COURSE	SP 253-255
02745 HOT MIX ASPHALT PAVEMENT	SP 256-260
02750 REINFORCED CONCRETE PAVEMENT	SP 261-263
02770 CURBS AND GUTTERS	SP 264-268

TABLE OF CONTENTS - Cont.

<u>DESCRIPTION</u>	<u>PAGE NO.</u>
02775 CONCRETE SIDEWALKS	SP 269-272
02820 ORNAMENTAL FENCE	SP 273-276
02890 SIGNS	SP 277-278
02920 TURF ESTABLISHMENT	SP 279-287
02930 TREES SHRUBS AND GROUND COVER	SP 288-306
02940 GREENSCREEN FENCE	SP 307-310
03050 PORTLAND CEMENT CONCRETE	SP 311-343
03210 REINFORCING STEEL	SP 344-351
03300 CAST-IN-PLACE CONCRETE	SP 352-381
03350 CONCRETE FINISHES	SP 382-387
04060 MASONRY MORTAR	SP 388-392
04070 MASONRY GROUT	SP 393-396
04080 MASONRY ANCHORAGE, REINFORCEMENT, AND ACCESSORIES	SP 397-402
04720 CAST STONE SPECIALITIES	SP 403-410
04810 CONCRETE UNIT MASONRY	SP 411-417
04811 CLAY BRICK UNIT MASONRY	SP 418-432
05120 STRUCTURAL STEEL	SP 433-455
05210 STEEL JOISTS	SP 456-466
05310 STEEL DECK	SP 467-482
05400 COLD-FORMED METAL FRAMING	SP 483-497
05500 METAL FABRICATIONS	SP 498-509
05511 METAL STAIRS, HANDRAILS AND GUARD RAILS	SP 510-525
06105 MISCELLANEOUS CARPENTRY	SP 526-536
06412 PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS	SP 537-543

TABLE OF CONTENTS - Cont.

<u>DESCRIPTION</u>	<u>PAGE NO.</u>
06420 WOOD PANELING.	SP 544-547
06615 SOLID SURFACE COUNTERTOPS.	SP 548-550
07110 BITUMINOUS DAMPPROOFING.	SP 551-554
07130 SHEET WATERPROOFING (MODIFIED BITUMINOUS).	SP 555-562
07161 CRYSTALLINE WATERPROOFING.	SP 563-570
07210 BOARD AND BATT INSULATION.	SP 571-580
07260 VAPOR RESISTIVE BARRIER.	SP 581-585
07411 METAL ROOF PANELS.	SP 586-601
07415 COMPOSITE WALL PANELS.	SP 602-613
07543 THERMOPLASTIC POLYOLEFIN (TPO) ROOFING.	SP 614-626
07620 SHEET METAL FLASHING AND TRIM.	SP 627-637
07720 ROOF ACCESSORIES.	SP 638-650
07811 SPRAY FIRE-RESISTIVE MATERIALS.	SP 651-662
07841 THROUGH-PENETRATION FIRESTOP SYSTEMS.	SP 663-673
07920 ARCHITECTURAL JOINT SEALANTS.	SP 674-685
08100 METAL DOORS AND FRAMES.	SP 686-694
08210 WOOD DOORS.	SP 695-704
08300 SPECIALTY DOORS.	SP 705-710
08331 OVERHEAD COILING DOORS.	SP 711-719
08332 COILING COUNTER DOORS.	SP 720-724
08360 HIGH-SPEED ROLLING DOORS.	SP 725-731
08411 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS.	SP 732-744
08710 DOOR HARDWARE.	SP 745-769
08800 GLAZING.	SP 770-782

TABLE OF CONTENTS - Cont.

<u>DESCRIPTION</u>	<u>PAGE NO.</u>
09111 NON-LOAD BEARING STEEL FRAMING	SP 783-792
09250 GYPSUM BOARD	SP 793-802
09310 CERAMIC TILE	SP 803-816
09402 RESINOUS MATRIX TERRAZZO FLOORING	SP 817-824
09512 ACOUSTICAL TILE CEILINGS	SP 825-832
09651 RESLIENT FLOOR TILE	SP 833-839
09653 RESILENT WALL BASE AND ACCESSORIES	SP 840-846
09681 CARPET TILE	SP 847-853
09911 EXTERIOR PAINTING	SP 854-861
09915 INTERIOR PAINTING	SP 862-874
09919 PAVEMENT MARKINGS PAINT	SP 875-878
09960 HIGH PERFORMANCE COATINGS	SP 879-885

VOLUME III

10147 VISUAL DISPLAY SYSTEMS	SP 886-889
10170 TOILET COMPARTMENTS	SP 890-895
10194 WELDING CURTAINS	SP 896-898
10210 WALL LOUVERS	SP 899-904
10434 PANEL SIGNAGE	SP 905-908
10505 METAL LOCKERS	SP 909-918
10523 FIRE EXTINGUISHERS	SP 919-921
10536 CANOPIES	SP 921A-921E
10605 WIRE MESH PARTITIONS	SP 922-929
10670 STORAGE EQUIPMENT	SP 930-954

TABLE OF CONTENTS - Cont.

<u>DESCRIPTION</u>	<u>PAGE NO.</u>
10801 TOILET AND BATH ACCESSORIES.....	SP 955-961
11005 BASIC EQUIPMENT MATERIAL AND METHODS.....	SP 962-981
11510 SHOP WORK STATIONS.....	SP 982-992
11520 SHOP EQUIPMENT.....	SP 993-1027
11535 CLEANING EQUIPMENT.....	SP 1028-1037
12491 HORIZONTAL LOUVER BLINDS.....	SP 1038-1040
13100 LIGHTNING PROTECTION.....	SP 1041-1045
13720 INTRUSION DETECTION.....	SP 1046-1066
13730 SECURITY ACCESS.....	SP 1067-1143
13760 VIDEO SURVEILLANCE.....	SP 1144-1162
13830 DOOR VIDEO INTERCOM SYSTEM.....	SP 1163-1173
13852 DIGITAL, ADDRESSABLE FIRE-ALARM SYSTEM.....	SP 1174-1198
13930 WET-PIPE FIRE-SUPPRESSION SPRINKLERS.....	SP 1199-1226
13967 CLEAN-AGENT FIRE-EXTINGUISHING SYSTEMS.....	SP 1227-1239
13974 FIRE-SUPPRESSION STANDPIPES.....	SP 1240-1262
14240 HYDRAULIC ELEVATORS.....	SP 1263-1282
14420 WHEELCHAIR LIFTS.....	SP 1283-1288
14450 VEHICLE LIFTS.....	SP 1289-1305
14513 FORKLIFTS.....	SP 1306-1310
14630 BRIDGE CRANE.....	SP 1311-1327
14635 FALL ARREST SYSTEM.....	SP 1328-1334
14920 MONORAIL CRANES.....	SP 1335-1342
15058 COMMON MOTOR REQUIREMENTS FOR HVAC AND PLUMBING EQUIPMENT.....	SP 1343-1345

TABLE OF CONTENTS - Cont.

<u>DESCRIPTION</u>	<u>PAGE NO.</u>
15062 HANGERS AND SUPPORTS FOR HVAC AND PLUMBING PIPING AND EQUIPMENT	SP 1346-1359
15072 VIBRATION AND SEISMIC CONTROLS FOR FIRE-SUPPRESSION PIPING AND EQUIPMENT.....	SP 1360-1367
15074 VIBRATION AND SEISMIC CONTROLS FOR HVAC AND PLUMBING PIPING AND EQUIPMENT.....	SP 1368-1382
15077 IDENTIFICATION FOR HVAC AND PLUMBING PIPING AND EQUIPMENT.....	SP 1383-1387
15086 DUCT INSULATION.....	SP 1388-1411
15087 HVAC AND PLUMBING EQUIPMENT INSULATION.....	SP 1412-1441
15088 HVAC AND PLUMBING PIPING INSULATION.....	SP 1442-1469
15091 SLEEVES AND SLEEVE SEALS FOR FIRE-SUPPRESSION PIPING.....	SP 1470-1475
15093 SLEEVES AND SLEEVE SEALS FOR HVAC AND PLUMBING PIPING	SP 1476-1481
15096 ESCUTCHEONS FOR FIRE-SUPPRESSION PIPING.....	SP 1482-1483
15098 ESCUTCHEONS FOR HVAC AND PLUMBING PIPING.....	SP 1484-1485
15110 PLUMBING VALVES.....	SP 1486-1500
15112 GENERAL-DUTY VALVES FOR HVAC PIPING	SP 1501-1525
15120 PLUMBING PIPING SPECIALITIES.....	SP 1526-1554
15124 EXPANSION FITTINGS AND LOOPS FOR HVAC AND PLUMBING PIPING.....	SP 1555-1561
15127 METERS AND GAGES FOR HVAC AND PLUMBING PIPING..	SP 1562-1572
15130 PUMPS FOR PLUMBING	SP 1573-1582
15140 DOMESTIC WATER PIPING.....	SP 1583-1595
15150 SANITARY WASTE AND VENT PIPING.....	SP 1596-1614
15160 STORM AND CONDENSATE DRAINAGE PIPING.....	SP 1615-1629

TABLE OF CONTENTS - Cont.

<u>DESCRIPTION</u>	<u>PAGE NO.</u>
15179 HYDRONIC PIPING SPECIALITIES.....	SP 1630-1638
15181 HYDRONIC PIPING.....	SP 1639-1661
15182 GROUND-LOOP HEAT-PUMP PIPING.....	SP 1662-1665
15183 REFRIGERANT PIPING.....	SP 1666-1680
15185 HYDRONIC PUMPS.....	SP 1681-1687
15189 HVAC WATER TREATMENT.....	SP 1688-1697
15192 FACILITY FUEL-OIL PIPING.....	SP 1698-1725
15193 ABOVEGROUND STORAGE TANKS.....	SP 1726-1737
15194 FUEL GAS PIPING.....	SP 1738-1751

VOLUME IV

15195 FLUID MANAGEMENT SYSTEM.....	SP 1752-1769
15198 FLUID HANDLING SYSTEMS.....	SP 1770-1785
15210 PROCESS AIR AND GAS PIPING.....	SP 1786-1801
15251 GENERAL SERVICE COMPRESSED-AIR EQUIPMENT.....	SP 1802-1812
15410 PLUMBING FIXTURES.....	SP 1813-1834
15480 DOMESTIC WATER HEATERS.....	SP 1835-1842
15512 CAST-IRON BOILERS.....	SP 1843-1853
15550 BREECHINGS, CHIMNEYS, AND STACKS.....	SP 1854-1858
15555 DRAFT CONTROL DEVICES.....	SP 1859-1861
15671 PACKAGED COMPRESSOR AND CONDENSER UNITS....	SP 1862-1869
15725 MODULAR INDOOR CENTRAL-STATION AIR- HANDLING UNITS.....	SP 1870-1885
15738 SPLIT-SYSTEM AIR-CONDITIONING UNITS.....	SP 1886-1895
15745 WATER-SOURCE HEAT PUMPS.....	SP 1896-1910

TABLE OF CONTENTS - Cont.

<u>DESCRIPTION</u>	<u>PAGE NO.</u>
15761 AIR COILS.	SP 1911-1915
15785 AIR-TO-AIR ENERGY RECOVERY EQUIPMENT.	SP 1916-1921
15791 CABINET UNIT HEATERS.	SP 1922-1929
15792 PROPELLER UNIT HEATERS.	SP 1930-1934
15815 METAL DUCTS.	SP 1935-1953
15820 DUCT ACCESSORIES.	SP 1954-1973
15838 FANS.	SP 1974-1988
15855 DIFFUSERS, REGISTERS, AND GRILLES.	SP 1989-1995
15900 HVAC INSTRUMENTATION AND CONTROLS.	SP 1996-2027
15950 TESTING ADJUSTING AND BALANCING.	SP 2028-2051
16055 OVERCURRENT PROTECTIVE DEVICE COORDINATION AND ARC FLASH STUDY.	SP 2052-2061
16060 GROUNDING AND BONDING.	SP 2062-2070
16073 HANGERS AND SUPPORT FOR ELECTRICAL SYSTEMS. ...	SP 2071-2077
16075 ELECTRICAL IDENTIFICATION.	SP 2078-2089
16091 SLEEVES AND SLEEVE SEALS FOR ELECTRICAL RACEWAYS AND CABLING.	SP 2090-2095
16120 CONDUCTORS AND CABLING.	SP 2096-2101
16130 RACEWAYS AND BOXES.	SP 2102-2115
16136 CABLE TRAYS FOR COMMUNICATIONS SYSTEMS.	SP 2116-2125
16140 WIRING DEVICES.	SP 2126-2137
16145 LIGHTNING CONTROL DEVICES.	SP 2138-2151
16211 ELECTRICITY METERING.	SP 2152-2155
16231 PACKAGED ENGINE GENERATORS.	SP 2156-2176

TABLE OF CONTENTS - Cont.

<u>DESCRIPTION</u>	<u>PAGE NO.</u>
16264 STATIC UNINTERRUPTIBLE POWER SUPPLY.....	SP 2177-2298
16269 VARIABLE FREQUENCY CONTROLLERS.....	SP 2199-2219
16289 SURGE PROTECTION FOR LOW-VOLTAGE ELECTRICAL POWER CIRCUITS	SP 2220-2225
16410 ENCLOSED SWITCHES AND CIRCUIT BREAKERS	SP 2226-2234
16415 TRANSFER SWITCHES.....	SP 2235-2247
16420 ENCLOSED CONTROLLERS.....	SP 2248-2261
16441 SWITCHBOARDS.....	SP 2262-2276
16442 PANELBOARDS.....	SP 2277-2290
16461 LOW-VOLTAGE TRANSFORMERS.....	SP 2291-2297
16491 FUSES.....	SP 2298-2301
16510 INTERIOR LIGHTING.....	SP 2302-2325
16520 EXTERIOR BUILDING LIGHTING.....	SP 2326-2336
16570 NETWORK LIGHTING CONTROLS.....	SP 2337-2349
16711 PATHWAYS FOR COMMUNICATIONS SYTEMS	SP 2350-2364
16712 PATHWAYS FOR ELECTRONIC SAFETY AND SECURITY .	SP 2365-2380
16714 COMMUNICATIONS EQUIPMENT ROOM FITTINGS	SP 2381-2388
16716 COMMUNICATIONS BACKBONE CABLING.....	SP 2389-2409
16717 COMMUNICATIONS HORIZONTAL CABLING.....	SP 2410-2428
16718 CONDUCTORS AND CABLES FOR ELECTRONIC SAFETY AND SECURITY	SP 2429-2446
16722 INTERCOMMUNICATIONS AND PROGRAM SYSTEMS.....	SP 2447-2461

TABLE OF CONTENTS - Cont.

DESCRIPTION

PAGE NO.

APPENDICES

APPENDIX A – LIST OF CONTRACT DRAWINGS

APPENDIX C – FEDERAL MINIMUM WAGE RATES

APPENDIX D – BUY AMERICA REQUIREMENTS

APPENDIX E – PERMITS/WAIVERS

APPENDIX F – CONTRACT DATA REQUIREMENT LIST (CDRL)

APPENDIX G – GEOTECHNICAL DATA

APPENDIX I – EXISTING DRAWINGS

**APPENDIX J – EXISTING REESE PRESS BUILDING – ENVIRONMENTAL
INFORMATION**

**STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION
NOTICE TO CONTRACTORS**

**KIRK BUS DIVISION MODERNIZATION
PROJECT – PHASE 1 (MAINTENANCE
BUILDING)**

CONTRACT NO.: T-0705-0140

DATE: March 4, 2013

1. DESCRIPTION OF WORK

- A. This Contract is for the construction of Phase 1 of the new Kirk Division Bus Facility to include the new Bus Maintenance Building. The work involves: Demolition of the existing Reese Press Building and site.

The MTA will abate lead based paint and asbestos from the Reese Press Building to OSHA and EPA requirements for abatement prior to demolition. Suspect asbestos containing material and lead based paint remaining areas are shown in Appendix J. Construction of the new Bus Maintenance Facility and associated employee parking area on the former Reese Press Site. The new Bus Maintenance Facility will consist of 6 articulated bus maintenance bays, 13 standard bus maintenance bays, 13 dead bus storage bays, two chassis wash bays, parts/tire/material storage area, shop area, and associated maintenance administration and support spaces. Exterior to the building the site will include parking, refuse and recycling dumpster enclosure, and site storage. Existing parking on the Reese Press Site will be relocated by the MTA prior to the issuance of Notice of Proceed.

- B. **Estimated value for this work is in the range of \$30,000,001- \$50,000,000.**

2. DEADLINE FOR QUESTIONS

Questions regarding the work should be directed in writing to Mr. Rick Owens at the Administration Offices or via email address rowens@mta.maryland.gov. Facsimile messages will not be accepted unless accompanied by telephone notification at (410) 767-3360. Our fax number is (410) 333-4810. Questions directed to this office must be received no later than March 18, 2013 at the close of the business day. Questions should be submitted on company letterhead. No interpretations other than written shall be binding on the Administration.

3. PRE-BID MEETING & SITE VISIT

A Pre-Bid meeting for the purpose of explaining the Project will be held on April 4, 2013 at 10:00 a.m., local time at the Administration Headquarters, 6 St. Paul Street, 7th Floor Conference Room(s) 731-732, Baltimore, Maryland 21202-

1614.

A Site Visit will be held on **April 4, 2013** immediately following the Pre-Bid Meeting.

It is strongly suggested that the person(s) responsible for the preparation of bid documents for bidders attend the Pre-Bid Meeting and the site visit. INSTRUCTIONS CRITICAL TO THE PREPARATION OF THE CONTRACT DOCUMENTS WILL BE PRESENTED AT THE PRE-BID MEETING.

4. BID DUE DATE & TIME

Sealed Bids addressed to the Maryland Transit Administration, Procurement Division, 6 St. Paul Street, Baltimore, Maryland 21202-1614, and marked "Bid for Contract No. T-0705-0140 KIRK BUS DIVISION MODERNIZATION PROJECT – PHASE 1 (MAINTENANCE BUILDING)", will be received at the above address until but not after 2:00 P.M. local time, **May 7, 2013**. At that time, the Bids will be publicly opened and read aloud at a location at the same address. Hand delivered bids should be deposited in the Bid Box located on the 7th Floor before the 2:00 P.M. deadline. Any bids received after the date and time specified shall not be considered.

5. ELECTRONIC VERSION OF BID DOCUMENTS

The bid documents will be available by electronic means. The Bidder acknowledges and accepts full responsibility to ensure that the Bidder has made no changes to the Administration's bid documents. In the event of a conflict between the versions of the bid documents in the bidder's possession and the version maintained by the Procurement Officer, the version maintained by the Procurement Officer shall govern.

6. AVAILABILITY OF DOCUMENTS

Specifications may be downloaded from the MTA web site located at www.mta.maryland.gov. Bidders will be required to register the first time specifications are downloaded and a login number will be assigned. This number should be used every time the bidder downloads the documents for this contract. Bidders must supply accurate information in order to receive notice of all subsequent addenda.

TO OBTAIN THE SPECIFICATIONS: Please visit MTA's website (www.mta.maryland.gov), follow the links for "Business" – "Procurement" – "Bids/Solicitations", and download the Specifications for this procurement.

TO OBTAIN THE DRAWINGS: e-mail Rick Owens at rowens@mta.maryland.gov requesting the contract drawings and supplying the following information: the contact person, company name, mailing address, phone

and e-mail address. The drawings (CD) will be mailed to you at no cost. You also have the option of picking up the CD containing the drawings at: 6 Saint Paul Street, 7th floor, Baltimore, MD 21202.

7. ADDENDA

Bidders are required to acknowledge all addenda with their bid package. Although the MTA endeavors to send out all addenda to this solicitation in a timely manner, it is the responsibility of the contractors to make sure they received all appropriate documents prior to the bid due date.

8. EMARYLAND MARKETPLACE REGULATIONS

Use of “e-Maryland Marketplace”

“e-Maryland Marketplace” is an electronic commerce system administered by the Maryland Department of General Services.

Registration is free and will provide a means for your business to receive e-mail notifications of upcoming contracting opportunities in specified areas of interest and expertise. This means that all such information is immediately available to subscribers to e-Maryland Marketplace. Because of the instant access afforded by e-Maryland Marketplace, it is recommended that all Bidders interested in doing business with Maryland State agencies subscribe to e-Maryland Marketplace. For more eMM registration information, visit the website: <http://ebidmarketplace.com>.

9. BID BOND

Each bid exceeding \$100,000 must be accompanied by a Bid Bond in the amount of five percent (5%) of the Bid Price. Bid, payment, and performance security may be in the form of: (1) a bond executed by a surety company authorized to do business in the State; (2) a bond executed by an individual surety that meets certain criteria; (3) another form of security required by State or federal law; or (4) another form of security satisfactory to the unit awarding the contract. Sections 13-207, 13-216, 17-104 of the State Finance and Procurement Article, Annotated Code of Maryland. The language herein supersedes Section 2.07 (Proposal Guarantee) in the General Provisions.

10. PAYMENT AND PERFORMANCE BONDS

Payment and Performance Bonds in the amount of the Contract Price will be required by the awardee. Upon receiving notification of contract award, the Contractor shall deliver the bond to the MTA no later than the time the Contractor executes the contract. Bid, payment, and performance security may be in the form of: (1) a bond executed by a surety company authorized to do business in the State; (2) a bond executed by an individual surety that meets certain criteria; (3) another form of security required by State or federal law; or (4) another form of

security satisfactory to the unit awarding the contract. Sections 13-207, 13-216, 17-104 of the State Finance and Procurement Article, Annotated Code of Maryland.

11. ELECTRONIC FUNDS TRANSFER

On every solicitation for a contract expected to exceed \$200,000, the bidder will be required to accept payments by electronic funds transfer (EFT) unless the State Comptroller's Office grants an exemption.

12. DISADVANTAGED BUSINESS ENTERPRISE PROGRAM

A. DISADVANTAGED BUSINESS ENTERPRISES ARE ENCOURAGED TO RESPOND TO THIS SOLICITATION NOTICE.

B. The Maryland Transit Administration hereby notifies all bidders that, in regard to any Contract entered into pursuant to this advertisement, Disadvantaged Business Enterprises will be afforded full opportunity to submit Bids in response to this Notice, and will not be subjected to discrimination on the basis of political or religious opinion or affiliation, race color, creed, sex, age or national origin in consideration for an award.

C. It is the goal of the Administration that Disadvantaged Business Enterprises participate in all Contracts. Each Contract will contain goals for Disadvantaged Business Enterprise participation on a contract-to-contract basis. A subcontracting goal of thirty percent (30%) has been established for this procurement. All bidders must submit with their bid a fully executed copy of the Certified DBE Utilization and Fair Solicitation Affidavit (MDOT DBE FORM A) and DBE Participation Schedule (MDOT DBE FORM B). If the bidder fails to submit these completed forms with the bid as required, the procurement officer shall deem the bid non-responsive or shall determine that the offer is not reasonably susceptible of being selected for award. ALL DBE FIRMS MUST BE CERTIFIED BY THE MARYLAND DEPARTMENT OF TRANSPORTATION. NO OTHER CERTIFICATIONS WILL BE ACCEPTED.

D. **A contractor may count toward its DBE goal 60 percent of its expenditures for materials and supplies required under the contract and obtained from a DBE regular dealer, and 100 percent of such expenditures to a DBE manufacturer. The DBE credited supplies may not exceed 60 percent of the entire contract goal.**

E. New versions of Sections 13-103, 13-104 and 14-303 of the State Finance and Procurement Article of the Maryland Code, relating to increased bid/proposal documentation of DBE commitments, are effective as of October 1, 2004. The Contract under this solicitation will be awarded in accordance with these new requirements. As a result, new bid submission

requirements, including certain revised DBE documents, are in effect for this solicitation. These new requirements are set forth elsewhere in this solicitation.

- F. As a result of the revisions to Sections 13-103, 13-104 and 14-303, certain existing portions of the Code of Maryland Regulations (COMAR) relating to post bid/proposal submission of DBE subcontractors are inconsistent with the revised statute. To the extent the provisions of COMAR relating to post bid identification of DBE subcontractors are inconsistent with the requirements of this solicitation, the requirements of this solicitation shall control the award of a Contract. Questions or concerns regarding the DBE requirements of this solicitation must be raised prior to the opening of bids or receipt of initial proposals
- G. Effective on October 1, 2009, Minority Business Enterprise (MBE) firms may elect to be dually certification as woman-owned businesses and as members of an ethnic or racial category. For purposes of achieving any gender or ethnic/racial MBE participation subgoals in a particular contract, an MBE firm that has dual certification may participate in the contract either as a woman-owned business or as a business owned by a member of a racial or ethnic minority group, **but not both**.

WARNING – PLEASE READ:

- ◆ **A firm must be listed in the MDOT MBE/DBE Directory with the gender category in order to be used to meet the gender subgoal.**
- ◆ **A firm must be listed in the MDOT MBE/DBE Directory with an ethnic/racial category in order to be used to meet the ethnic/racial subgoal.**
- ◆ **A firm must be listed in the MDOT MBE/DBE Directory with both the gender and ethnic/racial categories in order for a contractor to have the option of selecting which of those categories it will use for the firm on a State contract.**
- ◆ **Contractors should designate whether the MBE firm will be used as a woman-owned business or as a business owned by a member of a racial/ethnic group before calculating the percentage of MBE participation goals and subgoals they intend to meet.**

Maryland's MBE/DBE Directory will reflect the dual certification status beginning October 1, 2009. You can access the MBE/DBE Directory at <http://mbe.mdot.state.md.us>. Firms with dual certification will now be listed as follows:

Example:

ABC Corporation, Inc.
123 Corporate Circle
Hanover, MD 21076

Female/African American

13. AFFIRMATIVE ACTION REQUIREMENTS

Bidders on this Work will be required to comply with MTA Affirmative Action Requirements and all applicable Equal Employment Opportunity Laws and Regulations.

14. FEDERAL FUNDING

Any contract resulting from bids submitted is subject to a Financial Assistance Contract between the Administration and the U.S. Department of Transportation. Federal funds will be used to finance 80% of the cost of this contract.

15. SUSPENSION AND DEBARMENT CERTIFICATION

All bidders will be required to certify that they are not on the GSA List of Parties Excluded from Procurement and the List of Contractors Suspended or Debarred from Contracting with the State of Maryland. All bidders must also be in good standing with the State Assessment & Taxation Department.

16. CONTRACTOR'S QUESTIONNAIRE

All Bidders shall submit a fully executed copy the Contractor's Questionnaire Pre-Award Evaluation Data Form with the bid package.

17. INSURANCE REQUIREMENTS

The Administration has chosen to provide Workers' Compensation, General Liability, Excess Liability, Builders Risk, Pollution Liability and Railroad Protective coverage on behalf of Contractors and subcontractors working on this project. This approach to project insurance is commonly called a wrap-up or owner controlled insurance program (OCIP). Specific information regarding Liability Insurance Requirements is contained in the Contract Specifications.

Please note that an Insurance Cost Worksheet must be included with each bid package.

18. USE OF BIDDER'S OWN FORCES

The bidder with his own forces shall perform not less than thirty five percent (35%) of the work at the project site.

19. BUY AMERICA REQUIREMENTS

This contract is subject to Section 165, "Buy America", of the Surface Transportation Assistant Act of 1982, U.S. Public Law 197-424, and regulations

and/or guidance implementing this statutory provision issued by the Federal Transit Administration of the U.S. Department of Transportation. The contract is further subject to the Buy American Steel requirements of Chapter 02 of subtitle 11 of the Code of Maryland Regulations, Title 21, State Procurement Regulations.

20. CERTIFICATION REGARDING INVESTMENTS IN IRAN

All bidders will be required to certify that they are not on the list created by the Board of Public Works as a person engaging in investment activities in Iran as described in §17-702 of State Finance & Procurement; and is not engaging in investment activities in Iran as described in State Finance & Procurement Article, §17-702.

21. LOCATION OF THE PERFORMANCE OF SERVICES DISCLOSURE

All bidders will be required to disclose the location of the performance of services pursuant to Md. Ann. Code, State Finance and Procurement Article, § 12-111, and in conjunction with the bid submitted in response to this IFB.

22. CONFLICT MINERALS CLAUSE

Bidders are advised that Md. Ann. Code, State Finance and Procurement Article, § 14-413 provides as follows:

- (a) (1) In this section the following words have the meanings indicated.
- (2) (i) “Conflict mineral” means a mineral or mineral derivative determined under federal law to be financing human conflict.
- (ii) “Conflict mineral” includes columbite-tantalite (coltan), cassiterite, gold, wolframite, or derivatives of these minerals.
- (3) “Noncompliant person” means a person:
 - (i) that is required to disclose under federal law information relating to conflict minerals that originated in the Democratic Republic of the Congo or its neighboring countries; and
 - (ii) for which the disclosure is not filed, is considered under federal law to be an unreliable determination, or contains false information.
- (b) A unit may not knowingly procure supplies or services from a noncompliant person.

By submitting a response to this solicitation, the Bidder represents that it is in compliance with the disclosure requirements related to conflict minerals, as set forth in § 14-413 of the State Finance and Procurement Article.

23. MERCURY AFFIDAVIT

Bidders are required to complete the Mercury Affidavit in its entirety.

24. CONFLICT OF INTEREST AFFIDAVIT

Bidders are required to complete the Conflict of Interest Affidavit in its entirety.

25. HIRING PLAN

The Maryland Transit Administration (MTA) is committed to reducing barriers to employment in the construction industry. It is the goal of MTA to ensure a diverse workforce by increasing participation of workers residing in economically distressed areas and of disadvantaged workers in the construction of this project. In an effort to achieve this goal, MTA has established a target hiring goal of 15% of all work hours on this project being performed by Nationally Targeted Workers (NTW) who are defined as either; (a) individuals whose primary place of residence is within an economically distressed area in the United States, or (b) Disadvantaged Workers (see Definitions below). MTA is committed to working with contractors to achieve this goal. Bidders are required to submit, with their Bid packages, the attached Hiring Plan in its entirety.

26. DETERMINATION OF RESPONSIVENESS AND RESPONSIBILITY

The IFB contains bid requirements in a number of places throughout. The Procurement Officer will review bid submission material to be certain the submission is responsive and the bidder responsible per COMAR 21.06.01.01. To assist bidders in preparing their bid packages and help ensure no required materials are inadvertently omitted, a new attachment entitled "Procurement Officer's Bid Checklist" has been included in this IFB. It represents the questions and references which will be used to check all bids for responsiveness and responsibility.

27. CANCELLATION OR REJECTION OF BIDS

Notice to Contractors may be canceled in accordance with State Procurement Regulations.

The Administration reserves the right to reject any and all bids and/or waive technical defects if, in its judgment, the interests of the Administration so require.

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION
BID FORM
FOR
CONTRACT NO.: T-0705-0140

TO: MARYLAND TRANSIT ADMINISTRATION
ATTN: PROCUREMENT DIVISION
6 SAINT PAUL STREET, 7TH FLOOR
BALTIMORE, MD 21202-1614

BID OPENING DATE:
May 7, 2013
BID OPENING TIME:
2:00 PM

BID OF: _____
(Bidder's Name)

PROJECT DESCRIPTION:

This Contract is for the construction of Phase 1 of the new Kirk Division Bus Facility to include the new Bus Maintenance Building. The work involves: Demolition of the existing Reese Press Building and site.

1. This bid is hereby submitted to the Maryland Transit Administration (hereinafter sometimes called the "Administration") in response to NOTICE TO CONTRACTORS dated _____ .

2. The UNDERSIGNED has thoroughly examined, acknowledges receipt of, and is familiar with the Contract Documents as well as the various instructions, information, and requirements covering the same, all as mentioned herein and in said NOTICE TO CONTRACTORS.

3. In compliance with said NOTICE TO CONTRACTORS the UNDERSIGNED hereby proposes to furnish all labor, equipment, and materials and perform all work described and in strict accordance with the provisions of the Contract Documents for the consideration of the amounts, lump sum and unit prices listed in the attached Unit Price Schedule, and agrees that, upon Notice of Award, within one hundred eighty(180) calendar days after the date of opening of bids, unless mutually extended, he will within ten (10) calendar days after receipt of the prescribed forms, execute the Contract and furnish a performance bond and payment bond (if such bonds are required by the Contract Documents) on forms furnished by the Administration with good and sufficient surety or sureties.

4. The UNDERSIGNED agrees and understands that the time of completion is as specified in the Special Provisions, unless the completion dates are extended as provided for in the Contract Documents.

5. The UNDERSIGNED agrees to pay liquidated damages in the amount specified in the Special Provisions for each and every calendar day after the completion date that the work remains incomplete unless an extension is granted as provided for in the Contract Documents.

6. The UNDERSIGNED hereby certifies that the _____
(Bidder's Name) / ___ / is, / ___ / is not (CHECK ONE) included on the GSA

list of Parties Excluded from Procurement. **AND**

The UNDERSIGNED hereby certifies that the _____
(Bidder's Name) / ___ / is, / ___ / is not (CHECK ONE) included on the List of
Contractors Suspended or Debarred from Contracting with the State of Maryland.

7. The UNDERSIGNED, as the Contractor, will perform on the Site, with its own organization, _____ percent (___ %) of the total amount of work to be performed under this contract.

8. PARENT COMPANY

a. The UNDERSIGNED represents that it / ___ / is, / ___ / is not, (CHECK ONE) owned or controlled by a parent company. For this purpose a parent company is defined as one which either owns or controls the activities and basic business policies of the UNDERSIGNED. To own another company means the parent company must own at least a majority (more than 50 percent) of the voting rights in that company. To control another company such ownership is not required; if another company is able to formulate, determine or veto basic business policy decisions of the bidder, such other company is considered the parent of the bidder. This control may be exercised through the use of dominant minority voting rights, use of proxy voting, contractual arrangements, or otherwise.

b. If UNDERSIGNED is owned or controlled by a parent company, insert in the space below the name and main office address of the parent company

Name

Address

9. ARREARAGES

By submitting a response to this solicitation, the undersigned shall be deemed to represent that it is not in arrears in the payment of any obligations due and owing the State of Maryland, including the payment of taxes and employee benefits, and that it shall not become so arrears during the term of the contract if selected for contract award.

10. CERTIFICATION OF NON-MARYLAND CORPORATION (FOREIGN CORPORATION)

a. A corporation not incorporated in the State of Maryland is considered to be a foreign corporation and, therefore, is required to be registered with the Maryland State Department of Assessment and Taxation if awarded this contract.

b. Where a foreign corporation is currently registered with the Department of Assessments and Taxation, such a bidder shall submit with his bid a copy of the department's certification of his registration or qualification acknowledgment.

c. If a foreign corporation is not currently registered, such a bidder shall submit with his bid his certification that, if notified of his apparent award of the contract, he will register with the Maryland State Department of Assessments and Taxation and provide a copy of the department's certification of his registration or qualification acknowledgment along with the executed contract.

11. The Contractor shall, prior to the time of execution of the contract, obtain all applicable licenses and comply with all applicable laws and regulations in the Annotated Code of Maryland.

12. All bidders must submit with their bid the following documents fully executed.

- a. Bid Bond in the Amount of \$ _____
Or 5% of the bid price (if applicable).
or
Individual Surety Bid Bond in the Amount of
\$ _____ Or 5% of the bid price (if applicable) and a
executed Affidavit of Individual Surety (Attachment A) & Surety Affidavit
(Attachment B).
- b. Contractor's Questionnaire Pre-Award Evaluation Data
- c. Bid/Proposal Affidavit.
- d. Buy America Certificate.
- e. Certification Regarding Lobbying.
- f. MDOT DBE Form A, "Certified DBE Utilization and Fair Solicitation Affidavit".
- g. MDOT DBE Form B, "DBE Participation Schedule".
- h. Completed Investments in Iran Certification
- i. Completed Location of Performance of Services Disclosure
- j. Completed Mercury Affidavit
- k. Completed Conflict of Interest Affidavit
- l. **Completed Hiring Plan**
- m. Signed copy of the Cover Letter for each Addendum issued by MTA.
- n. Completed Insurance Cost Worksheet

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION
CONTRACT AGREEMENT

FOR

**KIRK BUS DIVISION MODERNIZATION PROJECT –
PHASE 1 (MAINTENANCE BUILDING)**

CONTRACTOR: _____ CONTRACT NO.: T-0705-0140

DATE: _____
(To Be Filled in by the Administration)

THIS CONTRACT, made and entered into as of the above date by and between the MARYLAND TRANSIT ADMINISTRATION (“MTA”), a modal agency of the Maryland Department Of Transportation acting for and on behalf of the State of Maryland, and _____, a _____ (hereinafter called “Contractor”)

In the event of any discrepancy or dispute, the following is the order of precedence: (1) The Contract, (2) Specifications, (3) Drawings, (4) Supplementary General Provisions, and (5) General Provisions.

The Contractor shall comply with the nondiscrimination provisions of 49 CFR Part 26, Section 26.13, and shall ensure that its subcontractors comply with these provisions of law. The Contractor and its Subcontractors shall not discriminate on the basis of race, color, national origin, or sex in the award and performance of this Contract. The Contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the performance of this Contract and in the performance of any subcontracts the Contractor enters into for the performance of this Contract.

Contractor covenants and agrees to perform all obligations of Contractor set forth in this Contract and in the documents listed below, which documents are incorporated herein by reference and which documents together with this Contract are hereinafter called "Contract Documents".

- * Exhibit A Contract Specification Book which includes the MDOT General Provisions, the MTA Supplementary General Provisions, and the Special Provisions
- * Exhibit B Contract Drawings
- * Exhibit C Addendum No. 0 to 0
- * Exhibit D Contract Affidavit

PERIOD OF PERFORMANCE: _____ Calendar Days from NTP

LIQUIDATED DAMAGES: \$ _____

COMPENSATION:

In consideration of the faithful performance of all of Contractor obligations hereunder, the Administration shall pay to Contractor the compensation specified in Exhibit "A" Bid Form.

Aggregate Contract Amount: \$ _____

ADDRESSES:

Contractor:

Administration:

Department of Transportation
Maryland Transit Administration
6 St. Paul Street
Baltimore, Maryland 21202-1614

IN WITNESS WHEREOF, the parties hereto have executed this Contract as of the date first above written.

WITNESS:

(Signature)

(Federal Tax ID Number)

(Printed Name)

(Title)

WITNESS:

MARYLAND TRANSIT ADMINISTRATION

(Printed Name)

(Title)

Approved as to Form and Legal Sufficiency:

APPROVED BY BOARD OF PUBLIC WORKS

Date: _____ Item No.: _____

Assistant Attorney General

HIRING PLAN

To be included with bid package

CONTRACT PROVISIONS REGARDING NATIONALLY TARGETED WORKERS

The Maryland Transit Administration (MTA) is committed to reducing barriers to employment in the construction industry. It is the goal of MTA to ensure a diverse workforce by increasing participation of workers residing in economically distressed areas and of disadvantaged workers in the construction of this project. In an effort to achieve this goal, MTA has established a target hiring goal of 15% of all work hours on this project being performed by Nationally Targeted Workers (NTW) who are defined as either; (a) individuals whose primary place of residence is within an economically distressed area in the United States, or (b) Disadvantaged Workers (see Definitions below). MTA is committed to working with contractors to achieve this goal.

DEFINITIONS

ECONOMICALLY DISTRESSED AREA means an area in accordance with the criteria set forth in section 301(a)(1) or (2) of the Public Works and Economic Development Act of 1965, as amended (PWEDA) (42 U.S.C. 3161). Section 301(a)(1) of PWEDA (42 U.S.C. 3161) provides that an area is economically distressed if it has a per capita income of 80 percent or less of the national average. Section 301(a)(2) (42 U.S.C. 3161) provides that an area is economically distressed if it has an unemployment rate that is, for the most recent 24-month period for which data are available, at least 1 percent greater than the national average unemployment rate. For the purpose of this Paragraph, Economically Distressed Area shall be measured at the County or large City level, regardless of the State in which the County or large City sits.

DISADVANTAGED WORKER means an individual who, prior to commencing work on the project faces one or more of the following barriers to employment: (1) being homeless, (2) being a custodial single parent, (3) receiving public assistance, (4) lacking a GED or high school diploma, (5) having a criminal record, (6) has been unemployed for at least 24 of the previous 36 months, (7) being a veteran of United States Armed Forces, (8) being a registered apprentice with less than 20% of the apprenticeship hours required to graduate to journey status, and/or (9) a person hired under a Hiring Agreement pursuant to with State Finance & Procurement Article, §13-224, Annotated Code of Maryland.

Contractors are expected to meet and/or exceed the targeted hiring goal for this project. It is MTA's further expectation that Nationally Targeted Workers participate in various career pathway job classifications such as apprenticeship and journeyman positions, foremen, lead workers, etc.

NATIONALLY TARGETED WORKER HIRING PLAN REQUIRED TO BE CONSIDERED RESPONSIVE

As part of its bid, the bidder must submit a Hiring Plan for achieving the hiring goal for Nationally Targeted Workers. The Hiring Plan shall be completed on Form MTA NTW-1. Failure to submit a Hiring Plan with the bid, or if the Hiring Plan does not include total NTW hours that meet or exceed the targeted hiring goal for this project, will render the bid non-responsive.

The Hiring Plan describes the bidder's approach to identifying its hiring/workforce needs, and how it will incorporate Nationally Targeted Workers into the Project workforce. The Hiring Plan shall identify the estimated number of work hours to be performed on the contract and allocated to the job categories which are most likely to be available to Nationally Targeted Workers over the course of the project. The allocation of hours to these categories is not binding on the bidder since the Hiring Plan is subject to Post-Award collaboration as noted below. Bidders may utilize their existing workers who qualify as Nationally Targeted Workers to fulfill all or a portion of the hiring goal. Hours estimated to be worked by subcontractors' Nationally Targeted Workers may also be counted towards meeting the hiring goal. . The Hiring Plan shall include hours for all contractors and subcontractors on a singular form NTW-1 and the total NTW hours shall meet or exceed the targeted hiring goal for this project.

HIRING PLAN SUBJECT TO POST-AWARD COLLABORATION

The Hiring Plan submitted by the bidder will be considered the Plan that the Contractor must implement upon Contract Award; however, after discussions with MTA, the successful bidder may request or be requested to submit an updated Hiring Plan prior to or after Notice to Proceed. The Hiring Plan is intended to be a living document and shall be updated or revised as reasonably deemed necessary by the Contractor or MTA during the course of the Project. All subsequent revisions to the Hiring Plan shall be submitted to the MTA for approval, which shall not be unreasonably withheld. All subsequent versions of the Hiring Plan shall include total NTW hours that meet or exceed the targeted hiring goal for this project unless otherwise approved by MTA. For subsequent versions of the Hiring Plan, and if requested by the Contractor, MTA may consider for approval additional economically distressed areas identified by a special need circumstance such as, but not limited to, the types identified in the "special need" provision in section 301(a)(3) of PWEDA (42 U.S.C. 3161) or as otherwise determined by MTA and/or FTA.

In an effort to assist the successful bidder, MTA has formed a Workforce Supportive Services Committee representing MTA, the Maryland Department of Labor Licensing and Regulation (DLLR), or their designee from the local Workforce Investment Board, and community-based workforce development organizations as applicable. This Committee will work with the successful bidder to access the Maryland Workforce Exchange and national resources (labor unions, non-profit job developers, etc.) to identify a pool of qualified candidates for this project. Upon request by the Contractor, DLLR and community-based workforce development organizations can also provide certain training or counseling to job candidates or link the Contractor with training programs for employment on this project, thereby creating pathways for people who have faced barriers to employment and for people who may currently have or need skills and qualifications.

The Workforce Supportive Services Committee will be charged with; (a) reviewing the Hiring Plan (b) meeting quarterly with the contractor to review progress towards the target hiring goal; and, (c) assisting the contractor by providing recommendations on specific means to increase the participation of nationally targeted workers. MTA will also provide guidance, assistance and compliance review in achieving this goal.

The Contractor is encouraged to investigate any potential tax credit programs that may also be applicable to the hiring of Nationally Targeted Workers such as through the Maryland Department of Business and Economic Development or other states or jurisdictions. This is not a contractual requirement nor will any tax credit programs be administered as part of this contract.

TRAINING/REGISTERED APPRENTICESHIP PROGRAMS

As noted above the Contractor or its subcontractors may satisfy some of the requirements of the hiring goal for this project by employing Nationally Targeted Workers who are enrolled apprentices in a registered apprenticeship program. Contractors providing additional off-site training hours to Nationally Targeted Workers to upgrade their skills may include those hours toward the hiring goal for this project.

REPORTING

The Contractor and all subcontractors supplying labor shall keep records regarding the utilization of Nationally Targeted Workers as provided on Compliance Report Forms MTA NTW-2 and MTA NTW-3. Every month the Contractor shall submit a separate Form NTW-3 for each individual contractor and subcontractor performing labor on the project that month, as well as a singular Form NTW-2 inclusive of all hours worked by all contractors and subcontractors that month. For each Quarterly meeting with the Workforce Supportive Services Committee, the Contractor shall submit a singular cumulative Form NTW-2 inclusive of all hours worked by all contractors and subcontractors throughout the life of the contract up to that date. At the end of the project a final cumulative close-out Form NTW-2 shall be submitted inclusive of all hours worked by all contractors and subcontractors throughout the life of the contract. These Reports will be used to track progress towards and contract compliance with the hiring goal.

The Contractor shall submit Compliance Report Forms in a timely basis by the 20th of each month for work performed the previous month or quarter. One percent of the total monthly Project progress payment due to the Contractor may be withheld until the Compliance Report Forms have been provided to the MTA. If the Contractor has multiple outstanding reports not yet submitted, MTA may unilaterally increase the percentage of payment to be withheld or make no payment until the Reports have been submitted. Final payment to the contractor may be withheld until the final close-out Form NTW-2 is submitted to MTA.

Form NTW-1
HIRING PLAN – USE OF NATIONALLY TARGETED WORKERS
(to be submitted with bid)

INSTRUCTIONS: Please complete this form in its entirety. **Failure to submit this form will deem a bid non-responsive.** MTA recognizes that the hours assigned to the job categories listed below are only an estimate by the bidder; however, a bidder is expected to make a good-faith estimate as to the number of hours to be worked in each category. This Hiring Plan may be updated or revised after Contract Award in consultation with and with the approval of MTA.

Legal Title/ Address of Contractor:	Contract #/Name:		Hiring Goal: 15%	
	Plan Type: <input type="checkbox"/> Initial Plan for Bid Purposes <input type="checkbox"/> Revised Plan per Collaboration			
Contractor's Point of Contact (Name/ Title /Address):				
Job Category	Estimated Number of Hours Required to Complete the Contract (A)	Estimated Number of Hours Which Are Estimated to be Filled By Nationally Targeted Workers (NTW) ¹		
		Estimated NTW hours within existing workforce (B)	Potential NTW hours, but not currently in existing workforce (C)	Total NTW Hours Estimated (D) = (B + C)
Professional/Supervisors				
Admin/Clerical				
Skilled Trades				
Unskilled Positions				
TOTAL				
TOTAL NTW HOURS MUST MEET OR EXCEED HIRING GOAL % ABOVE: {TOTAL (D)/TOTAL (A)} x 100% = %				
Does your firm have any existing relationships or partnerships with job training programs (public agencies, non-profit organizations, labor unions, etc.)? If so, please list:				

Signature

Date

Name (Printed)

Company Name

¹ This may include hours to be worked by a firm's existing employees provided that the employee qualifies as a Nationally Targeted Worker.

Form NTW-2

Compliance Report for Hiring of Nationally Targeted Workers – Project Summary

Legal Title/ Address of Contractor:	Contract #/Name	Hiring Goal: 15%
	Report Type: <input type="checkbox"/> Progress (Date(s) Covered: _____) <input type="checkbox"/> Close-Out	All Hours Worked on Contract <input type="checkbox"/> this report period <input type="checkbox"/> all reports to date
	Contractor's Point of Contact (Name/ Title /Address):	

Job Category ¹	Total # of Workers in this Field of Work on this Contract	Total # of Nationally Targeted Workers	Total # of Hours Worked on this Contract (A)	Hours Worked by Residents of Economically Distressed Areas (B)	Hours Worked by Disadvantaged Workers (C)	Total Hours Worked by Nationally Targeted Workers (D)=(B+C)
Professionals/Supervisors						
Admin/Clerical						
Trade: Carpenter						
Trade: Electrician						
Trade: Heavy Equip Op/CDL						
Trade: Plumber/Pipefitter						
Trade: Metal/Ironworker						
Trade: Bricklayer/Concrete						
Trade: Painter/Glazier						
Trade: HVAC						
Trade: Laborer						
Trade: Welder						
Trade: Roofer						
Trade: CAD Oper/Drafter						
Other:						
Other:						
Other:						
Off-Site Paid Training Hours						
TOTAL						

PROGRESS TOWARD HIRING GOAL: {TOTAL (D)/TOTAL (A)} x 100% = %

Contractor Notes (if any):

Signature

Date

For monthly progress reporting, count only hours worked during this reporting period, not the cumulative # of hours worked on all reports. Include cumulative hours (i.e., "all reports to date") for quarterly or final reporting only. Do not "double count" the hours worked. While an employee may qualify in more than one category, the contractor should only place their hours in one column.

Economically Distressed Counties

Maryland

Allegany County
Baltimore City
Dorchester County
Somerset County
Washington County
Wicomico County
Worcester County

Pennsylvania

Armstrong County
Bedford County
Cambria County
Cameron County
Carbon County
Clarion County
Clearfield County
Fayette County
Forest County
Fulton County
Huntingdon County
Luzerne County
Monroe County
Northumberland County
Philadelphia County
Pike County
Potter County
Schuylkill County
Somerset County
Wyoming County

Virginia

Bedford City
Brunswick County
Buchanan County
Covington City
Danville City
Dickenson County
Emporia City
Franklin City
Grayson County
Greensville County
Henry County
Lexington City
Martinsville City
Mecklenburg County
Northampton County
Page County
Petersburg City
Williamsburg City

This list of counties is based on the national unemployment rate (7.8%) as of January, 2013 as published by the U.S. Census Bureau; County level data is dated December, 2012

SECTION 01570**ENVIRONMENTAL PROTECTION****PART 1: GENERAL****1.01 DESCRIPTION:**

- A. Refer to General Provisions Section GP-7. This section specifies the requirements for environmental protection and stewardship that pertain to, but are not limited to the following environmental topics:
1. Waste Handling
 2. Stormwater Management
 3. Sanitary Sewer Discharge
 4. Air Quality Management, See SECTION 01500 Temporary Facilities and Control
 5. Construction Materials and Storage
 6. Spill Prevention and Management
 7. Special Hazardous Materials
 8. Equipment Decommissioning
 9. Contaminated Soils and Groundwater
 10. Underground Storage Tanks (UST)
 11. Natural Resources
 12. Wetland Rectification
 13. Historical, Archeological, and Cultural Resources
 14. Passive Ventilation System
- B. The Maryland Transit Administration (MTA) operates in accordance with guidance set forth in their Environmental Policy and an Environmental Management System (EMS) that meets the International Organization for Standardization's (ISO) standard for Environmental Management Systems (ISO 14001). The MTA's EMS prevents adverse environmental impacts by instituting a structured approach to environmental protection and

stewardship in daily operations, including those of MTA's contractors and suppliers.

- C. The following information is supplied to contractors and suppliers who perform work for the MTA and is intended to make them aware of the EMS and to ensure conformance to the MTA's Environmental Policy and applicable EMS procedures and instructions. Conformance with the Environmental Policy and all requirements noted in this document is expected of all those persons working for or on behalf of the MTA which includes contractors, subcontractors, suppliers and their employees at a job site.
- D. Failure to follow these requirements can result in penalties or work stoppage which will be determined and controlled by the MTA Construction Resident Engineer.
- E. Contact the MTA Environmental Manager through the Resident Engineer with any questions regarding the Environmental Policy and/or any other environmental related documents.

1.02 GENERAL REQUIREMENTS

- A. General Requirement - MTA contractors, subcontractors, suppliers and their employees will minimize environmental pollution and damage that may occur as the result of construction operations. The environmental resources within the project boundaries and those affected outside the limits of permanent work must be protected during the entire duration of this contract. Any delays resulting from failure to comply with environmental laws and regulations will be the Contractor's responsibility.
- B. Pollution Prevention - Contractors/suppliers are responsible for preventing pollution of the air, water and land, and for the proper disposition of waste generated by their activities. The following guidelines provide specific information to assist contractors/suppliers with this requirement, but these guidelines do not take the place of federal, state and local regulations. The contractor / supplier must comply with all federal, state, and local regulations.
- C. Environmental Regulation Compliance - In addition to preventing pollution, contractors/suppliers are responsible for their own compliance with all applicable federal, state and local environmental regulations pertaining to environmental protection.
- D. Excavation Control - Contractors / Suppliers will need to complete the Contractor Environmental Checklist (See section 1.03) to ensure no environmental risk is posed by excavation activities. Excavation may

require permits from the Maryland Department of the Environment (MDE).

- E. Community Awareness - Contractors / Suppliers will be sensitive to the effects of noise, odor, light, and traffic movement to the local community.
- F. Good Housekeeping - Contractors / Suppliers are responsible for keeping the site clean and orderly. Site cleanliness should be evaluated daily and all trash and debris should be properly disposed of by the close-of-business each day.
- G. Training – Contractors / Suppliers employees shall be trained on applicable federal, state, and local environmental regulations and standards. Contractors / Suppliers will provide copies of employee training certificates per the contract requirements or upon request from the MTA Environmental Manager or Site Resident Engineer. All documents will be submitted to the Resident Engineer for processing.
- H. Compliance by subcontractors with the provisions of this and various other sections of these specifications is the responsibility of the Contractor.
- I. Use of equipment from which factory-installed antipollution and noise control devices are removed or rendered ineffective, either intentionally or through lack of proper maintenance is prohibited.

1.03 SUBMITTALS

- A. Submit the following for approval with additional requirements as specified by each.
 - 1. Contractor Environmental Checklist – The contractor will submit the “Environmental Checklist” no more than 15 days after the issuance of the NTP. No field work will commence before the checklist has been completed and approved. The purpose of this form is to establish whether or not a particular activity poses a substantial environmental risk that needs specific additional controls. The MTA Environmental Manager will review this checklist and determine whether or not the proposed project activities pose a substantial environmental risk. If the expected environmental risk needs no further controls, the MTA Environmental Manager will approve the checklist noting that “no further action” is needed and the checklist will be returned to the MTA Resident Engineer no later than 14 days after receipt. If the MTA Environmental Manager determines that additional controls are needed, the “Contractor Environmental Activity Statement”

will be required. This form will be provided to the Contractor and will be returned to the Environmental Manager. The Environmental Manager will coordinate subsequent activity with the MTA Resident Engineer.

2. Contractor Environmental Activity Statement - This form is used when the MTA Environmental Manager determines that a contractor/supplier's activities pose a substantial risk of an adverse environmental impact such that additional controls are needed. Upon request, contractors are to submit a written statement outlining their activities and procedures for minimizing and managing the actual or potential environmental impacts of their operations using the Contractor Environmental Activity Statement form provided. The Activity Statement must address potential risks to the environment, contractors, employees and other personnel associated with MTA project activities and proposed measures for minimizing these risks. This form will only be required of the successful bidder and will be completed no more than 10 days after the "Environmental Checklist" has been submitted. Upon approval by the MTA Environmental Manager in coordination with the Resident Engineer, the contractor/supplier may commence work on the site.

1.04 WASTE HANDLING

- A. Proper Waste Handling is Contractor Responsibility - All waste disposal (i.e., construction debris, scrap metal, municipal solid waste, non-hazardous waste, hazardous waste, etc.) will be the responsibility of the contractor. Labeling, storage and disposal of all waste material must follow all applicable Federal and State regulations. Do not dump debris or rubbish of any kind into or allow to deposit into a waterway, onto adjacent banks, or onto roadways. All waste disposal routes will be approved by the EM through the Resident Engineer. Hazardous waste manifests will only be approved and signed by members of the MTA Environmental group.
- B. Pick up trash and place in containers. Trash containers will be emptied on a regular schedule. Conduct handling and disposal to prevent contamination of the site and other areas. Do not dispose of in wetlands or burn waste materials on the site. Upon project completion, site should be restored to a clean and neat appearance.
- C. Transport all waste off the site to an approved disposal site and dispose of it in a manner that complies with Federal, State, and local requirements. Approval of the disposal site is required by the Resident Engineer along with the MTA Environmental Manager depending on the waste type.

- D. Waste haulers must obtain a permit or license prior to transporting any material off the site. The Contractor shall provide and maintain containers and dumpsters or haul away material to be disposed of. The Contractor shall not use adjacent business's dumpsters.
- E. Hazardous Waste Notification - The contractor must notify the MTA Environmental Manager through the MTA Resident Engineer of all hazardous waste streams to be generated before a waste is generated and collected on site. The MTA Environmental Manager will approve the storage location of all generated hazardous waste, maximum quantities and the container type(s) used. The hazardous waste manifest will be approved by the MTA Environmental Manager. Site Hazardous Waste ID numbers will be coordinated with the MTA Environmental Manager. Hazardous waste manifests will be signed by the Environmental group of the OSQARM. Copies of hazardous waste manifests will be provided through the Resident Engineer to the Environmental Manager.
- F. Waste Container Labeling - Containers (such as drums) must be labeled with the contents of the drum (or other container) and the responsible contractor's name and contact information. NO UNLABELED CONTAINERS ARE PERMITTED ON SITE.
- G. Waste Documentation - Shipping information and paperwork (MSDS, Waste Profiles, Bills of Lading, Manifests and inventory) must be provided upon request to MTA.
- H. Waste from demolition or other work at MTA that is deemed recyclable must be properly managed and conveyed to an approved facility. Recycled material totals and manifest/weigh bills must be provided to the Environmental Manager through the Resident Engineer.

1.05 STORMWATER MANAGEMENT

- A. Erosion and Sedimentation Permit – Contractor must obtain a permit for any land disturbance activities that disturbs 5,000 square feet or more of land or results in 100 cubic yards or more of earth movement, if not included in the bid package.
- B. An Erosion and Sedimentation Control Plan and Storm Water Management Plan may also be required in the contract documents. Stormwater management on MTA sites must adhere to all pertinent Federal, State, and local regulations. The most stringent local requirement should be followed.
- C. Storm Water Control Measures Required – If not already included in the bid package, it is the contractor's responsibility to install storm water

control measures such as silt fences, straw bales, etc. to control the solids entering storm drains from erosion or other processes, if necessary. This requirement will also appear in the contract document as required and is not intended to be a duplication of effort.

- D. No Solids into Storm Drains - Solids must be prevented from entering storm drains. Roadways and outside areas must be kept clean. Compliance with the CLEAN WATER ACT is mandatory.
- E. No Co-Mingling of Process Materials - No process materials or any other sources of water pollutant shall be co-mingled with storm water.
- F. Cover Dirt Piles - All dirt piles must be covered to prevent solids from entering storm drains unless otherwise directed. Covering must conform to MDE requirements.
- G. Prevent Vehicle Fluids from Entering Storm Water - Vehicle maintenance shall not be performed near storm drains unless provisions have been made to contain any spills of vehicle fluids, including oil, gasoline and antifreeze.
- H. Inspections required by the stormwater permit must be completed and a copy forwarded through the Resident Engineer to the Environmental Manager.

1.05 SANITARY SEWER DISCHARGE

- A. No Discharge to Sanitary Sewers without Approval - Discharge of material other than sanitary sewage to ANY sanitary sewer system is prohibited without the prior consent of the MTA Environmental Manager. Handling of material discharge will be discussed and agreed in the Contractor Activity Statement prior to the NTP.

1.06 AIR QUALITY MANAGEMENT

- A. Dust Control - Contractors will provide adequate control of fugitive dust emissions during all operations and activities. Refer to Section 01500.
- B. Other Emissions - Contractors/Suppliers must comply with all Clean Air Act requirements for emissions from their activities. Other emissions such as purposeful venting of CFC-containing refrigerants are strictly prohibited.
- C. Noise – Contractor will provide adequate noise control and monitoring devices. Refer to Section 01500 of the contract document.

1.07 CONSTRUCTION MATERIALS AND STORAGE

- A. **MSDS Knowledge Requirement** - Contractors will not transport hazardous chemicals onto the project site without having prior approval of the associated Material Safety Data Sheets (MSDS), from the MTA Office of Safety, Quality Assurance and Risk Management. These materials may include, but are not limited to, sealers, adhesives, paints, coatings, fuels, oils, acids and caustics. All sizes of containers require review and approval before their use on site prior to NTP.
- B. **MSDS Availability Requirement** - The contractor will have available the Material Safety Data Sheets (MSDS) for all chemical products in use at all times that their employees are working with on site. MSDS's will be made available upon request.
- C. **MTA Consent Required for Material Storage** - There will be no storage of any materials and supplies on MTA property without the consent of the MTA Resident Engineer. Areas for material storage will be selected and safeguards put in place to prevent stormwater runoff contamination.
- D. **Secondary Containment Requirement** - Approved outside storage areas for chemical materials must be equipped with non-earthen secondary containment equal to 110% of the capacity of the largest container by the contractor.
- E. **Container Type and Labeling Requirement** - The contractor will ensure that all material containers owned or managed by the contractor are compatible with the material stored in the container and will be properly labeled in accordance with the OSHA HAZARD COMMUNICATION STANDARD and DOT standards (i.e., contents, primary hazard).
- F. **Keep Chemical Containers Closed** - The contractor will ensure that chemical containers are closed except when in use.
- G. **Spill Kit Requirement** - Contractors will maintain spill kits to contain and clean up small spills generated by their employees or from their materials. Spill kits will be kept on site and will be easily accessible during an emergency. Spill kits will be approved by the Resident Engineer.

1.08 SPILL PREVENTION AND MANAGEMENT

- A. **Prevention** - Contractors will provide adequate spill/release prevention (such as secondary containment) for all bulk materials. Conduct fueling and lubricating of equipment and motor vehicles onsite in a manner that prevents spills and evaporation. Dispose of lubricants in accordance with approved procedures meeting state, and local regulations. For oil and

hazardous material spills that violate state, and local regulations, notify immediately the Resident Engineer.

- B. Spill Response - THE CONTRACTOR WILL IMMEDIATELY REPORT ALL SPILLS OR RELEASES OF MATERIALS to the MTA Resident Engineer who will in turn notify the ENVIRONMENTAL MANAGER. Contractors will complete spill mitigation and document the clean up with field notes and photos, until the spill incident is deemed closed by the MTA Environmental Manager.

1.09 SPECIAL HAZARD MATERIALS

- A. Polychlorinated Biphenyls (PCB): (Immediately report any PCB chemical substance, mixture, equipment, container, sealant, coating or dust control agent, found stored within the project area to the Resident Engineer in writing and stop work in the area.)
1. Suspected PCB Notification - If a material is suspected to have PCB contamination, the MTA Environmental Manager is to be notified via the Resident Engineer. Contractors/suppliers must manage materials and waste that contains PCB in accordance with the Toxic Substances Control Act (TSCA). Do not use PCB chemical substance, mixture, equipment, container, sealant, coating, or dust control agent except in accordance with all provisions of the Maryland Department of Health and Mental Hygiene as interpreted by the rules and regulations of 40 CFR 761.
 2. MTA Environmental Manager Coordinates PCB Removal - All PCB removal conducted by the contractor/supplier shall be coordinated with the MTA Environmental Manager through the MTA Resident Engineer.
 3. Lighting Ballast Disposal - Any lighting ballast that does not state that it is a non-PCB containing ballast must be disposed of as recycled PCB containing ballast.
- B. Asbestos Containing Material (ACM)
1. Notification Requirement – Prior to initiating any field work, the contractor will evaluate all demolition and renovation work for the presence of ACM and ensure that this assessment is conducted by a Qualified Person (QP). A QP as defined in 29 CFR 1926.32(f), is a person capable of identifying existing asbestos hazards in the workplace and selecting the appropriate control strategy for asbestos exposure and has the authority to take prompt corrective measures to eliminate them. If the contractor identifies ACM during preliminary evaluation of work, they must inform the Resident Engineer who will contact the MTA Environmental

Manager. Sites that have had hazardous materials abated prior to demolition shall at a minimum meet the OSHA and EPA requirements for abatement prior to demolition. Asbestos (non-friable ACM) acceptable to remain during demolition shall not be saw cut, burned with a torch or otherwise abraded which would allow the release of fibers.

2. MTA Asbestos Management Procedure - All asbestos removal and disposal activities will be conducted in accordance with procedures approved by the MTA Environmental Manager. Approval for asbestos work will be prior to NTP for Ancillary Contract work and prior to initiating field work on Bid Contracts. In the event the Contractor, during the course of the work on the project, encounters the presence of asbestos or any ACM, PCBs or any other hazardous materials as recognized by the Maryland State Department of Health and Mental Hygiene, promptly notify the Resident Engineer, and BGE/CPSGI if located on their property. Do not perform any work pertinent to the asbestos or hazardous material prior to receipt of special instructions from the Administration through the Engineer. Any delay in the progress of the work as a result of encountering either asbestos or hazardous materials on the project will be mitigated by the Administration. Within 24 hours of this notification to the Administration through the Resident Engineer of the encountering asbestos or hazardous materials, the Contractor will meet with the Resident Engineer to re-plan and work around the affected area. The Administration will provide the special instructions without delay and with the approval of the MTA Environmental Manager, authorizing work to progress.
3. Compliance with Regulations - Contractors/suppliers engaged in activities that involve ACM shall comply with 29 CFR 1926.1101, 29 CFR 1910.1001 (and related Maryland regulations) as regulated by the Maryland Department of the Environment (MDE).

C. Lead

1. Lead Testing Requirement - Contractors are responsible for testing for the presence of lead based paints when working or welding on building or building structural steel. Testing will be done by an approved lab as directed by the MTA Environmental Manager. This testing will be conducted prior to work and coordinated through the MTA Resident Engineer. Test results and chain of custodies will be supplied to MTA.
2. MTA Lead Management Procedure - All lead removal and disposal activities will be conducted in accordance with procedures approved by the MTA Environmental Manager and the applicable

OSHA Lead Standard for the specific project activities. Sites that have had hazardous materials removed prior to demolition at a minimum shall meet OSHA and EPA requirements for abatement prior to demolition. Lead and lead paint coatings acceptable to remain during demolition shall not be saw cut, burned with a torch, cut by plasma arc or otherwise abraded or heated which would allow the release of particles or vapor. Demolition debris containing lead and being disposed of in a landfill must be analyzed using the Toxicity Characteristic Leaching Procedure (TCLP) method for proper disposal.

3. Compliance with Regulations - Contractors/suppliers engaged in activities that involve lead shall comply with 29 CFR 1910.25 (the general industry lead standard) and, for construction activities 29 CFR 1926.62 (in conformance with the requirements of the Maryland Occupation Safety and Health).

D. Refrigerants (CFCs)

1. Training Requirement - Contractors will provide copies of employee training certificates to the Resident Engineer for transmittal to the MTA Environmental Manager upon request.
2. No CFC Venting - Intentional venting of CFCs to the atmosphere is strictly prohibited. Records of recycling shall be maintained for removed CFC's and provided to MTA Environmental group through the Resident Engineer.

1.11 CONTAMINATED SOILS AND GROUNDWATER

- A. If the contractor encounters contaminated soils or groundwater during site excavations, the contractor must stop excavation and notify the Resident Engineer. The Resident Engineer will notify the Environmental Manager. The MTA will notify all pertinent regulatory agencies.
- B. No contaminated soil or groundwater will be removed from the site until the contractor has had the material sampled, analyzed, and characterized by an approved testing laboratory. The Environmental Manager, through the Resident Engineer, will provide the contractor with a list of approved laboratories. Following characterization, the contractor will submit the results to the Environmental Manager through the Resident Engineer. Based upon the test results, the Environmental Manager will determine a suitable and approved disposal facility for the material. It is the contractor's responsibility to arrange for transport of the contaminated soil to the facility and submission of waste manifests to the Environmental Manager through the Resident Engineer.
- C. The contractor will coordinate with the Resident Engineer and Environmental Manager to stockpile the material on site prior to disposal.

The stockpile will be prepared to mitigate contamination to groundwater, loss off-site, or to any storm drains.

- D. Contaminated material contains one or more contaminants from an unintentional or intentional spilling, leaking, pumping, pouring, emitting, emptying, or dumping of a hazardous substance, hazardous waste, pollutant, or naturally occurring contaminant at a concentration which fails to satisfy any applicable remediation standard.
- E. Soils are considered hazardous and thus contaminated when the following criteria are met and must be managed according to applicable regulations:
 - 1. Soils test positive for characteristics of a hazardous waste defined at Title 40 CFR Part 261 Subpart C 261.21-261.24.
 - 2. Soil contains a listed waste as per 40 CFR 261 Subpart D 261.31-261.33.
 - 3. Soil is a mixture of a solid waste (non-hazardous) and one or more hazardous wastes listed in 40 CFR 261 Subpart D 261.31-261.33.
 - 4. Soil and Groundwater that have constituents that exceed the Maryland Residential and /or Non-residential reuse standards are considered contaminated. These standards are provided in the latest edition of the Maryland Department of Environment's Cleanup Standards for Soil and Groundwater. These contaminated soils and groundwater will be disposed of with the coordination and approval of the MTA's Environmental Manager in cooperation with the Resident Engineer.

1.12 UNDERGROUND STORAGE TANKS

- A. If the contractor encounters an underground storage tank (UST) during site excavations, the contractor must stop excavation and notify the Resident Engineer. The Resident Engineer will notify the Environmental Manager. The MTA will notify all pertinent regulatory agencies.

1.13 NATURAL RESOURCES (AIR, WATER, AND LAND)

- A. General: It is intended that the natural resources within the project boundaries and outside the limits of permanent work performed be preserved in their existing condition or be restored to an equivalent of the existing condition, as approved by the Engineer upon completion of the work.
- B. Land Resources:
 - 1. Except in areas indicated to be cleared, do not remove, cut, deface, injure, or destroy trees, shrubs, and vegetation without special

- permission from the Engineer. Do not fasten or attach ropes, cables, or guys to any existing nearby trees for anchorage.
2. The use of herbicides is not permitted unless otherwise specified.
 3. If not already included in the bid documents, submit a plan for protecting existing trees and vegetation to remain and that could be injured, bruised, defaced, and otherwise damaged by construction operations.
 4. The contractor needs to adhere to State and Local tree/forest protection and mitigation measures, whichever is more stringent. At a minimum, the contractor must abide by the MD Reforestation Law and the Roadside Tree Law.
 5. Repair and restoration: All trees and other landscape features scarred or damaged by the Contractors equipment and operations shall be repaired and restored to their original condition. Submit for the Engineer approval the repair and restoration plan prior to its execution. The repair and restoration plan shall be prepared in accordance with all applicable policies and procedures of the MDE and ACOE.
 6. Construction facilities: The location of the Contractor's staging area, storage area and other construction buildings on public or privately owned property required temporarily in the performance of the Work, if not shown on the Contract Documents require approval of the Resident Engineer.
- B. Water Resources:
1. At all times, take measures to prevent oil or other hazardous substances from entering the ground, drainage areas, and local bodies of water.
 2. Protection of Existing Wetlands and Watercourses:
 - a. Plan, schedule, and undertake work in a manner that will ensure the protection and preservation of existing wetlands and watercourses.
 - b. No construction activities should occur on the banks or within the channels of these waterways or within wetlands or their buffers without specific permit coverage provided by the USACE and MDE. This includes activities such as clearing vegetation from stream banks, placing culverts or temporary creek crossings, channelizing or straightening streams, filling wetlands with soil, or placing dams or sediment barriers across streams.

- c. Install Orange Plastic Fence as specified in SECTION 01500 TEMPORARY FACILITIES AND CONTROLS to outside the perimeter of all wetlands in the work area.
 3. Remove temporary "permitted" culverts, fords or bridge structures, if used; upon completion of the project and repair the area in conformance with its original condition and as specified herein.
 4. Flood Plain- Management: Design and undertake work that may involve floodplains in full compliance with the National Flood Insurance Act of 1968, as amended (42 U.S.C. 4001 et seq.) and the Flood Disaster Protection Act of 1973 (P.L. 93-234, 87 Stat. 975). Executive Order 11988 (Floodplain Management) to be accommodated in all pertinent work through compliance with the DOT implementation plan as defined in FR 27148 (June 22, 1978).
 5. Maryland's Chesapeake Bay Critical Area Act: regulates activities conducted within 1,000 feet of tidal waters. The contractor is responsible for adhering to applicable State and Local regulations, whichever is more stringent, pertaining to development within the Chesapeake Bay Critical Area.
- C. Fish and Wildlife Resources
- a. The contractor shall not alter water flows or otherwise disturb native habitat near or adjacent to the project construction area.
 - b. The contractor shall follow all applicable Federal, State, and local regulations and requirements pertaining to fish and wildlife resource protection and any restrictions or provisions that are provided in the bid documents.
 - c. The contractor shall adhere to all "time-of-year" restrictions for in-stream work as defined in the project bid documents or per the pertinent Maryland regulations.

1.14 HISTORICAL, ARCHEOLOGICAL, AND CULTURAL RESOURCES

- A. Do not use in connection with this Contract, for storage, as a staging area, or as a preparation site, any cultural resource facility, building, site, or cleared area that is, as of the date of this Contract, on or eligible for listing on the National Register of Historic Places (16 U.S.C., paragraph 470a) or listed by the Maryland Historic Trust, without the prior approval of the Engineer.
- B. If the contractor identifies potential "Cultural Resources" during the project activities, they are to stop work and contact the Resident Engineer. Cultural resources may include districts, sites, buildings, structures, and objects significant in American history, architecture, archaeology, or culture

1.15 PASSIVE VENTILATION SYSTEM

- A. The project's intent is to ensure and demonstrate that the quality of indoor air does not pose an unacceptable risk to employees. With the Resident Engineer's approval, the contractor will implement supplemental abatement measures, including additional venting, to ensure that the quality of indoor air is acceptable.
- B. The Passive Ventilation System is to be constructed by the use of PVC piping and a wind driven turbine vent. This will abate VOCs that may seep into the occupied areas of the maintenance building from the subsurface.
- C. The Passive Ventilation System must be adequate to maintain airflow and prevent the buildup of vapors under the slab. The system shall consist of the following:
 - 1. At least one sump shall be installed that includes a minimum 3" PVC vacuum line.
 - 2. A standard sampling port shall be installed for each slab system.
 - 3. The design shall provide for at least one permanent sampling observation point in addition to the sump.
 - 4. At least one additional sampling point, per pipe penetration shall be included in the design.

1.16 TOXIC SUBSTANCES The following toxic substances have been identified on this project:

- A. Petroleum Contamination:
 - 1. Reese Press Property – 2301 Kirk Avenue
 - a. One underground storage tank (UST) with unresolved removal status is located on the Reese Press property.
 - b. Total petroleum hydrocarbons (TPH) for diesel range organics (DRO) and gasoline range organics (GRO) have been discovered in the soil and groundwater on the site and at high concentrations around the UST.

1.17 PRECONSTRUCTION SURVEY

- A. A Preconstruction Survey of adjacent properties will be performed by the MTA in advance of construction activities and will be available for Contractor review.

PART 2: PRODUCTS**NOT USED**

PART 3: EXECUTION

3.01 CONTRACTOR ENVIRONMENTAL CHECKLIST



MARYLAND TRANSIT ADMINISTRATION
ENVIRONMENTAL MANAGEMENT SYSTEM
CONTRACTOR ENVIRONMENTAL CHECKLIST

PROJECT TITLE:			
MTA PROJECT MAN./RE			
BID / RFP #:		P.O. #:	

To be completed by the Contractor Project Manager for the contracted work or service to be performed.

Will the contracted work or service include any of the following activities?

GENERAL CONTRACTOR ACTIVITIES

- Land Disturbance (Excavation, Grading, etc.)(Wetlands,Streams) Yes No
- Construction (Building / Road / Parking Lot, etc.) Yes No
- Demolition (Building / Facility, etc.)/Asbestos Yes No
- Paving (Impervious - e.g., asphalt, concrete, etc.) Yes No
- Heavy Equip Use (Excavator, Dozer, Fork Lift, etc.) Yes No
- Blasting, Rock Crushing Yes No
- Surface Preparation / Treatments (floors, roofs, walls) Yes No
- Painting / Paint Removal (Lead) Yes No
- Sandblasting / Hydroblasting Yes No
- Welding, Cutting, Soldering Yes No
- HVAC or CFC/PCB Yes No
- Bulk Fuel / Chemical Storage or Transfer Yes No
- Use of Chemicals (solvents, caustics, acids, oils, etc.) Yes No
- Purging/Repair of Distribution Lines (fuel, oil, solvents etc.) Yes No
- Use of Herbicides, Pesticides, or Insecticides Yes No
- Well Drilling Yes No
- Discharge to Storm Drains Yes No
- Discharge to Sanitary Sewer Yes No
- Solid Waste Generation / Disposal (soil, concrete, materials, etc.) Yes No
- Medical Waste Yes No
- Hazardous Waste Generation / Disposal Yes No Unsure

To be completed by the MTA Environmental Manager after a review of activities above.

This project has activities that will significantly impact the environment Yes No

This Contractor Environmental Checklist is approved, no further action is needed.

The Contractor Environmental Activity Statement (ED 9-4.4.6-9) needs to be completed by the contractor .
 The activity statement will be provided based on the checklist by the Environmental Manager to the contractor.

Environmental Manager Signature: _____ Date: _____

Submit Form To: Environmental Manager, 1515 Washington Boulevard, Baltimore, Md 21230

3.02 CONTRACTOR ENVIRONMENTAL ACTIVITY STATEMENT



ENVIRONMENTAL MANAGEMENT SYSTEM
CONTRACTOR / SUPPLIER
ENVIRONMENTAL ACTIVITY STATEMENT

The following information is to be filled out by the Contractor/Supplier (Please Print). Use additional pages if needed. The form shall be returned prior to the initiation of field activities to the MTA Environmental Manager at 1515 Washington Boulevard, Baltimore, Md 21230.

Contact Person: _____ Date: _____

Company Name: _____

Activities / Work Description:

Maryland Transit Administration (MTA) Site: _____

Briefly describe the activities or work to be undertaken by your company at the MTA site.

Training:

Your employees shall be trained per applicable federal, state, and local environmental regulations and standards. Training records shall be made available upon request. Describe the training that your employees receive.

Land Disturbance:

Will the activities or work you perform require the disturbance of land in an area greater than 5000 square feet? YES or NO

If YES, how will you comply with Erosion and Sedimentation Control requirements?

Air Emissions:

Will the activities or work you perform produce or cause the release of any air emissions? **YES or NO**

If YES, list the air emissions and the method for preventing impact to the environment.

Water Discharges:

Will the activities or work you perform produce or cause the release of any wastewater to storm drains, streams, ditches, the land surface or sanitary sewers? **YES or NO**

If YES, how will the wastewater be handled?

Materials and Supplies Usage / Storage:

What materials / supplies (fuel, oil, bulk chemicals, etc.) will you be handling or bringing on site to perform the contracted work? Describe how you will prevent spills and comply with proper management requirements (such as secondary containment). Has MTA approved the products for use? Describe your ability to react to spills if they occur.

Solid Waste Generation:

Will the activities or work you perform result in the generation of solid waste, medical waste and / or universal waste? Has laboratory analysis been performed? **YES or NO**

If YES, list the amounts and the types of wastes expected and the proposed disposal method.

Hazardous Waste Generation:

Will the activities or work you perform result in the generation of hazardous waste? **YES or NO**
Has laboratory analysis been performed?

If YES, list the amounts and the types of wastes expected and the proposed disposal method.

Waste Recycling:

Are any wastes generated to be recycled? **YES or NO**

If YES, list the recyclables, where and how they will be recycled.

Energy:

Will the activities or work consume energy? **YES or NO**
(Electricity, compressed air, natural gas, steam, etc.)

If YES, explain what type of energy will be consumed, and how you will minimize consumption.

LEED Construction:

Is this project subject to scoring under the Leadership in Energy and Environmental Design (LEED) criteria? **YES or NO**

If YES, what is the target level sought? _____

Other:

Are there any other ways in which your activities will affect or protect the environment? **YES or NO**

If YES, please describe below.

Information:

Company Name: _____

Contact: First Name: _____ Last Name: _____ Title: _____

Address: _____ City: _____ State: _____

Phone: _____ Fax: _____ Email: _____

Secondary Contact: _____ Sec. Phone: _____

Environmental Agreement

My company and subcontractors that I may bring to the site will abide by all environmental regulations and policies whenever on the property.

The MTA Environmental Manager will communicate applicable changes to the Environmental Management System to my company. Retraining of affected individuals will be conducted, as appropriate.

For questions or additional information contact the Environmental Management at (410) 454-7317.

Print Name: _____ Title: _____

Signature: _____ Date: _____

MTA Environmental Review

A review of the above-submitted document has been found to be:

COMPLETE - approved, no further action is needed.

INCOMPLETE - a response must be received by: _____

Environmental Manager Signature: _____ Date: _____

PROJECT TITLE:		BID/RFP#:		P.O.#:	
----------------	--	-----------	--	--------	--

PART 4: MEASUREMENT AND PAYMENT**4.01 WASTE HANDLING**

- A. The work required under this Section will not be measured for payment.
- B. All costs in connection herewith will not be paid for directly, but will be considered incidental to the item of work to which they pertain.

4.02 STORMWATER MANAGEMENT

- A. The work required under this Section will not be measured for payment, except as noted below.
- B. Any permitting required as a result of additional work will be measured for payment as well as any stormwater control measures needed to institute this work.

4.03 CONSTRUCTION MATERIALS AND STORAGE

- A. The work required under this Section will not be measured for payment.
- B. All costs in connection herewith will not be paid for directly, but will be considered incidental to the item of work to which they pertain.

4.04 SPILL PREVENTION AND MANAGEMENT

- A. The work required under this Section will not be measured for payment.
- B. All costs in connection herewith will not be paid for directly, but will be considered incidental to the item of work to which they pertain.

4.05 ENVIRONMENTAL ALLOWANCE

- A. The work required under this Section will be requested and approved by the Resident Engineer and measured for payment.
- B. Services and Equipment provided will be measured and paid for, as agreed upon in writing prior to acceptance, from the Environmental allowance.
- C. The payment for additional equipment or service shall include any and all costs associated with the additional equipment.

4.06 PASSIVE VENTILATION SYSTEM

- A. Passive Ventilation System will not be measured for payment.
- B. Passive Ventilation System will not be paid directly, but will be included in the lump sum bid price for maintenance building.

END OF SECTION

SECTION 2621**NON-WOVEN GEOTEXTILE****PART 1: GENERAL****1.01 DESCRIPTION:**

- A. This work covers the technical requirements for the Manufacturing and Installation of the nonwoven geotextile for the below slab ventilation system. All materials meet or exceed the requirements of this specification, and all work will be performed in accordance with the procedures provided in these project specifications.

1.02 REFERENCES

- A. American Society for Testing and Materials (ASTM)
1. ASTM D 5261, Standard Test Method for Measuring Mass per Unit Area of Geotextiles
 2. ASTM D 4632, Standard Test Method for Grab Breaking Load and Elongation of Geotextiles
 3. ASTM D 4533, Standard Test Method for Index Trapezoidal Tearing Strength of Geotextiles
 4. ASTM D 4833, Standard Test Method for Index Puncture Resistance of Geotextiles, Geomembranes and Related Products
 5. ASTM D 4491, Standard Test Method for Water Permeability of Geotextiles by Permittivity
 6. ASTM D 4751, Standard Test Method for Determining Apparent Opening Size of a Geotextile
 7. ASTM D 4354, Standard Practice for Sampling of Geosynthetics for Testing
 8. ASTM D 4759, Standard Practice for Determining the Specifications Conformance of Geosynthetics

1.03 SUBMITTALS

- A. Prior to material delivery to project site, the contractor shall provide the engineer with a written certification or manufacturers quality control data which displays that the geotextile meets or exceeds minimum average roll values (MARV) specified herein.
- B. The contractor shall submit, if required by the engineer, manufacturer's quality control manual for the geotextile to be delivered to the site.

PART 2: PRODUCTS**2.01 GEOTEXTILE**

- A. The nonwoven needlepunched geotextile specified herein shall be made from staple fiber.
- B. The geotextile shall be manufactured from prime quality virgin polymer.
- C. The geotextile shall be able to withstand direct exposure to ultraviolet radiation from Sun for up to 30 days without any noticeable effect on index or performance properties.
- D. Geotextile shall meet or exceed all material properties listed in Table 1.

Table 1: Geotextile Properties

Property	Test Method	Test Frequency	Value
Mass per Unit Area, oz/yd ²	ASTM D 5261	90,000 ft ²	8
Grab Tensile Strength, lb	ASTM D 4632	90,000 ft ²	220
Grab Elongation, %	ASTM D 4632	90,000 ft ²	50
Puncture Strength, lb	ASTM D 4833	90,000 ft ²	120
Trapezoidal Tear Strength, lb	ASTM D 4533	90,000 ft ²	90
Apparent Opening Size, Sieve No. (mm)	ASTM D 4751	540,000 ft ²	80 (0.180)
Permittivity, sec-1	ASTM D 4491	540,000 ft ²	1.3
Water Flow Rate, gpm/ft ²	ASTM D 4491	540,000 ft ²	95
UV Resistance % retained after 500 hours	ASTM D 4355	per formulation	70

2.02 MANUFACTURE

- A. All rolls of the geotextile shall be identified with permanent marking on the roll or packaging, with the manufacturers name, product identification, roll number and roll dimensions.

2.03 TRANSPORT

- A. Transportation of the geotextile shall be the responsibility of the contractor.
- B. During shipment, the geotextile shall be protected from ultraviolet light exposure, precipitation, mud, dirt, dust, puncture, or other damaging or deleterious conditions.
- C. Upon delivery at the job site, the contractor shall ensure that the geotextile rolls are handled and stored in accordance with the manufacturer's instructions as to prevent damage.

PART 3: EXECUTION**3.01 QUALITY ASSURANCE**

- A. The engineer shall examine the geotextile rolls upon delivery to the site and report any deviations from project specifications to the contractor.
- B. The engineer may decide to arrange conformance testing of the rolls delivered to the job site. For this purpose, the engineer shall take a sample three feet (along roll length) by roll width according to ASTM Practice D 4354. The sample shall be properly marked, wrapped and sent to an independent laboratory for conformance testing.
- C. The pass or fail of the conformance test results shall be determined according to ASTM Practice D 4759.

3.02 INSTALLATION

- A. The geotextile shall be handled in such a manner as to ensure that it is not damaged in any way. Should the contractor damage the geotextile to the extent that it is no longer usable as determined by these specifications or by the engineer, the contractor shall replace the geotextile at his own cost.
- B. The geotextile shall be installed to the lines and grades as shown on the contract drawings and as described herein.
- C. The geotextile shall be rolled down the slope in such a manner as to continuously keep the geotextile in tension by self weight. The geotextile shall be securely anchored in an anchor trench where applicable, or by other approved or specified methods.
- D. In the presence of wind, all geotextiles shall be weighted by sandbags or approved equivalent. Such anchors shall be installed during placement and shall remain in place until replaced with cover material.
- E. The contractor shall take necessary precautions to prevent damage to adjacent or underlying materials during placement of the geotextile. Should damage to such material occur due to the fault of the contractor, the latter shall repair the damaged materials at his own cost and to the satisfaction of the engineer.
- F. During placement of the geotextile, care shall be taken not to entrap soil, stones or excessive moisture that could hamper subsequent seaming of the geotextile as judged by the engineer.
- G. The geotextile shall not be exposed to precipitation prior to being installed and shall not be exposed to direct Sun light for more than 15 days after installation.

- H. The geotextile rolls shall be overlapped by a minimum of 6 inches.
- I. The contractor shall not use heavy equipment to traffic above the geotextile without approved protection.
- J. The geotextile shall be covered as soon as possible after installation and approval. Installed geotextile shall not be left exposed for more than 15 days.
- K. Material overlying the geotextile shall be carefully placed to avoid wrinkling or damage to the geotextile.

PART 4: MEASUREMENT AND PAYMENT

4.01 NON-WOVEN GEOTEXTILE

- A. Non-woven geotextile will not be measured for payment
- B. Non-woven geotextile will not be paid for directly, but will be considered incidental to the Maintenance Building.

END OF SECTION



MARYLAND TRANSIT ADMINISTRATION

MARYLAND DEPARTMENT OF TRANSPORTATION

Martin O'Malley, Governor • Anthony G. Brown, Lt. Governor
Darrell B. Mobley, Acting Secretary • Ralign T. Wells, Administrator

TO: All Planholders
FROM: Maryland Transit Administration
SUBJECT: **ADDENDUM NO. 2**
Contract No.: T-0705-0140
Kirk Bus Division Modernization Project – Phase 1 (Maintenance Building)
DATE: April 19, 2013

Enclosed and effective this date is Addendum No. 2 to the subject Contract. This change does not delay the Bid Opening Date.

Please be aware that the work to be done by Contractor's own forces has been revised from 50% to 35%.

All vendors who requested and received a CD of the original drawings will automatically have this CD mailed to them. For all vendors who have not received these drawings, please email the Procurement Officer at ROwens@mta.maryland.gov with your name, your company's name and a mailing address.

A conformed copy of the revised specification sections is attached. A list of the changes made to this contract is attached to this Addendum.

The Bidder shall acknowledge receipt of this Addendum by completing and returning this form with the bid package.

All other terms and conditions remain unchanged.

Sincerely,

Rick Owens, Contracts Manager
Procurement Division

Acknowledgement of receipt of ADDENDUM # 2 to Solicitation #T-0705-0140

Vendor Name: _____

Authorized Representative's Signature

Date

ADDENDUM NO.: 2
DATE: 04/18/13
CONTRACT NO.: T-0705-0140

Addendum No. 2 is being issued to make adjustments to the IFB as specified herein. The major changes and reasons for the changes are explained below. In case of inconsistency of this summary with the revised IFB language in this Addendum, the revised IFB language controls.

The following additions, deletions, and modifications are hereby made a part of the Contract Documents of Kirk Bus Division Modernization Project – Phase 1 (Maintenance Building), Contract No.: T-0705-0140.

Item No.	Page	Modification
I. CONTRACT SPECIFICATIONS		
1	TOC 1-12	Revised to include new attachments; Modified Page number of Specification Section 01310, Added Specification Section 10536 “Canopies”, Included Permit received from MDE for the project
2	NTC 1-8	Revised to include new language regarding new attachments, Estimated value of project revised to state “\$30,000,001-\$50,000,000”, Minimum work contractor to perform revised from 50% to 35%
3	BF 1-25	Revised to include new attachments and revision to basis of award; Modified Bid Item 28 quantity to 4 EA, Modified Bid Item 30 quantity to 7 EA, Added Bid Item 31 “Reinforced Concrete 84” Dia. Manhole, 1EA, Modified Bid Item 36 description to 9.5” Concrete Pavement Mix. No. 7
4	IRAN 1-2	New attachment for Investments in Iran Certification
5	LPSD 1	New attachment for Location of Performance of Services Disclosure
6	MA 1	New attachment for Mercury Affidavit
7	COI 1	New attachment for Conflict of Interest Affidavit
8	POBC	New attachment for Procurement Officer’s Bid Checklist
II. SPECIAL PROVISIONS		
1	Section 01310 page 2	Added Section 1.04 for Coordination Drawings

2	Section 02750, page 3	Modified Pay item to 9.5" Concrete Pavement Mix No. 7
3	Section 08710, pages 11 - 25	Delete room number includes with Hardware Sets 1 to 39.
4	Section 10536, Section added	Added Specification Section 10536
5	Section 14450, page 15	Added section 2.01 G. 6. "Cable Reel and Eyelet/Anchoring Point" for each Portable Lift.
6	Section 15512, page 3	Revised section 2.01 B "Basis Of Design Product:" Deleted "3. Weil-Mclain, A United Dominion Company." Added a new "3. Approved Equal"

III. APPENDICES

1	Appendix A	Revised Appendix A to reflect the revised/current list of contract drawings
2	Appendix C	Replaced in its entirety, Added Federal Wage Rates for "Building"
3	Appendix E	Included the MDE approval/permit dated 4/12/2013 for the project's stormwater management and sediment and erosion control.

II. CONTRACT DRAWINGS

1	GI-02	Added four sheets
2	C3103	Reinforced concrete pavement changed to 9.5" thickness. 12' wide crosswalk across Kirk Ave. added using 12" white pavement marking paint. In-street pedestrian crossing sign added. Fence moved to 5' behind parking lot curb along Garrett Ave.
3	C3104	Location of gas meter and new gas line changed. Downspout DS3 pipe size changed to 12" PVC
4	C3502	Concrete pavement detail – changed to 9.5" thickness.
5	C4502	Downspout DS3 pipe size changed to 12" PVC.
6	C4503	Aggregate in Sand Filter changed from No. 7 Stone to No. 9 Stone.
7	C4504	As-Built Table for Flow Splitter FS3: Inflow opening size changed to 12". Pretreatment area shown as LxW.
8	C5001	Initial Phase Sequence of Construction step 2 modified to include installation of Super Silt Fence and associated sidewalk removal as required.
9	C5101	SFOP changed to SSF in southwest corner of the site at elevations below 113.0. Three AGIPs changed to CIPs on Kirk Ave. and Curtain Ave. in this area. AGIP added

		to the catch basin in the existing stairwell at the front of the building.
10	C5102	SFOP changed to SSF in the southwest corner of the site at elevations below 113.0. Three AGIPs changed to CIPs on Kirk Ave. and Curtain Ave. in this area.
11	C5501	Standard detail for Super Silt Fence added.
12	A2101	Room M104 – revised floor drain locations. Multiple locations- changed column protection detail, removed concrete curb
13	A2103	Room M113 – revise door configuration, change door and hardware types. Multiple locations- changed column protection detail, removed concrete curb
14	A2104	Multiple locations- changed column protection detail, removed concrete curb
15	A2105	Multiple locations- changed column protection detail, removed concrete curb
16	A2106	Multiple locations- changed column protection detail, removed concrete curb
17	A2136	Canopy added at column line 8 between B and A.6
18	A2404	Changed column protection detail, removed concrete curb
19	A2504	Revised elevation/section
20	A2505	Revised elevation/section
21	A2506	Room M104 – revised floor drain locations.
22	A2507	Detail D - ENLARGED CANOPY PLAN added
23	S2001	Revised loading schedule. Revised frame slab concrete strength.
24	S2002	Added typical shear connection design load.
25	S2100	Revised frame slab concrete strength. Note 25 added.
25	S2101	Revised number of piles and pile caps. Revised location of pile caps from grid.
27	S2102	Revised number of piles and pile caps. Pile cap elevation called out.
28	S2103	Revised number of piles and pile caps. Revised location of pile caps from grid.
29	S2104	Revised number of piles and pile caps.
30	S2105	Revised number of piles and pile caps.
31	S2106	Revised number of piles and pile caps.
32	S2107	Added wall footing, revised key plan and pile batter
33	S2108	Revised key plan and notes
34	S2109	Revised key plan and notes
35	S2110	Revised key plan and notes
36	S2111	Revised key plan and notes
37	S2112	Revised key plan, notes and pile batter

38	S2121	PC-1 added in fuel tank annex. Stair layout revised to match with architectural drawing.
39	S2122	Shear connection design loads added in notes.
40	S2130	Shear connection design loads added in notes.
41	S2131	Perimeter steel beam size revised.
42	S2132	Perimeter steel beam size revised.
43	S2133	Perimeter steel beam size revised.
44	S2134	Perimeter steel beam size revised.
45	S2135	Perimeter steel beam size revised.
46	S2136	Perimeter steel beam size revised.
47	S2140	Shear connection design load added in notes.
48	S2141	Revised steel member forces.
49	S2142	Revised steel member forces.
50	S2150	Shear connection design load added in notes.
51	S2151	Revised steel member forces.
52	S2152	Revised steel member forces.
53	S2153	Revised steel member forces.
54	S2200	Revised and added base plate sizes. Welding called out in column splice. Revised column sizes.
55	S2201	Revised and added base plate sizes.
56	S2202	Revised and added base plate sizes. Added base plate details.
57	S2203	Revised brace frame member design forces. Added shear connection design loads.
58	S2204	Revised brace frame member design forces.
59	S2215	Added wall elevation, section and revised top of footing elevation
60	S2216	Revised top of footing elevation
61	S2217	Revised top of footing elevation
62	S2400	Revised slab concrete strength and reinforcement. Revised number of piles and pile caps.
63	S2401	Revised slab thickness, concrete strength and reinforcement. Added concrete pads in fuel tank annex. Added PC-1 at the corner of stair. Added grade beam GB-23. Added grade beam schedule and section.
64	S2402	Revised steel member sizes and member design forces. Shear connection design load added in notes.
65	S2500	Revised pile cap thickness and reinforcement. Deleted PC-6A. Revised layout of PC-5.
66	S2501	Revised PC-21 pile cap thickness and reinforcement. Added bollard support details.
67	S2502	Added 6" concrete pad to detail 8/S2502.
68	S2504	Added base plate thickness and welding in details 1 & 2.
69	S2505	Revised grade beam schedule (beam size and reinforcement). Footnotes added to grade beam schedule.

		Revised grade beam sections F & G
70	S2506	Revised grade beam sections A to D.
71	S2508	Revised grade beam elevations and reinforcement. Added sections.
72	S2509	No. 57 crushed stone shown in foundation wall section. Added wall construction joint detail.
73	S2510	Added this new sheet. Drafted sections & elevations related to grade beam, stair and slab drops with reinforcing call out.
74	S2511	Added this new sheet. Drafted sections and elevations related to grade beams, stair and slab drops with reinforcing call out.
75	S2520	Revised wall sections
76	S2521	Revised wall sections
77	S2522	Revised wall sections
78	S2532	Shear connection design load added in notes.
79	S2535	Added exterior wall section C.
80	S2537	Added exterior wall section C.
81	S2539	Added details related to hanger at fuel tank annex.
82	S2540	Added this new sheet. Drafted exterior wall sections and details.
83	S2541	Added this new sheet. Drafted exterior wall sections at fuel tank annex.
84	S2551	Added sections thru lintel and exterior walls.
85	ME601	Delete Detail 2, Portable Lift Cable Support System.
86	M2003	Added Key Note 1 (Bsvs Installation)
87	M2101	Added General Sheet Note 3
88	M2102	Updated Key Note 1 (Cuh Detail)
89	M2103	Added General Sheet Note 3
90	M2104	Added General Sheet Note 3
91	M2105	Added General Sheet Note 3
92	M2106	Added General Sheet Note 3
93	M2111	Added General Sheet Note 3
94	M2112	Added General Sheet Note 3
95	M2113	Added General Sheet Note 3
96	M2114	Added General Sheet Note 3
97	M2115	Added General Sheet Note 3
98	M2116	Added General Sheet Note 3
99	M2501	Removed Outer Tank Dimension
100	M2601	Updated Schedules
101	M2602	Updated Schedules
102	M2603	Updated Schedules
103	M2604	Updated Schedule
104	M2704	Updated Boiler Sequence
105	E0001	Revised description and add mounting height for

		combination telephone/data outlet Add mounting height for motor starter Add symbol, description, and mounting height for combination starter/fused disconnect switch
106	E0002	Add General Note 36
107	E0003	Modify drawing notes 2, 7, 8, 9 and 11 Add circuits for CCTV Cameras ADD drawing notes 13 and 14
108	E0007	Modify Drawing Note 6
109	E2103	Modify drawing note 10 Move light switch symbol from center of doors to on wall
110	E2104	Modify drawing note 2
111	E2105	Modify drawing note 2
112	E2106	Modify drawing note 8
113	E2108	Added D3E light fixtures
114	E2201	Add starter for EF-M-7 Modified fused disconnect switch to combination motor starter for BP-M-1, BP-M-2, and BP-M-3. Modified drawing notes 2, 6, 7, 8, 9, and 10 Modified HP and voltage note for EF-M-9 to 1 1/2HP, 480V, 3 Phase. Add drawing note 11 Add starter for EF-M-13
115	E2202	Modified junction box for High Pressure Washes to fused disconnect switches Add starter for EF-M-6 Modified drawing note 1 Add drawing note 3
116	E2203	Add drawing note 19 next to TS-4 Add starter for SF-M-1 and AHU-M-1 Add circuit for Oil/Water Interceptor Modify drawing note 22. Add drawing notes 24 and 25
117	E2204	Add starter for EF-M-14 Add drawing note 11
118	E2205	Modified junction box for Forklift Charger to fused disconnect switch Remove starter for EF-M-10 Modify drawing note 5 pointing to motor starter symbol to note 8 Modify callout for detail 3 on sheet E6004 to detail 1 on sheet E6004 Modify drawing notes 1 and 7
119	E2206	Modify drawing notes 5 and 6
120	E2207	Modify fused disconnect switches for P-M-5 and P-M-6 to combination motor starters

		Add starter for EF-M-5 Add drawing notes 7 and 8
121	E2208	Modify symbol for combination starters for P-M-3 and P-M-4 Extend circuit for CUH-M-5 to CUH-M-6 Add starter for EF-M-15 Add drawing note 3
122	E2209	Modify circuit numbers and power requirements for EF-M-5 and EF-M-6 Add drawing note 8 pointing to disconnect switches for EF-M-16 and EF-M-20. Modify drawing notes 3 and 4 Add drawing notes 6, 7, and 8. Modify fan designation for starters in room M301.
123	E2210	Add drawing note 4 to homerun for EF-M-18 Modify drawing note 1, 2, and 3 Add drawing note 4
124	E2211	Add drawing note 4 to homerun for EF-M-14 Add starter for EF-M-17 Modify drawing notes 1 and 3 Add drawing notes 4 and 5
125	E2212	Modify drawing notes 1 and 2 Add drawing note 3 Add drawing note 3 adjacent to homerun for EF-M-10
126	E2213	Add drawing note 3 to home run for EF-M-15 Add drawing note 4 adjacent to homerun for EF-M-11 and EF-M-12 Modify drawing notes 1 and 2 Add drawing note 3 and 4
127	E2301	Modified Drawing Note 4. Add drawing note 4 adjacent to homerun for EF-M-11 and EF-M-12 Modify drawing notes 1 and 2 Add drawing note 3 and 4
128	E2307	Changed smoke detector to heat detector
129	E2308	Add drawing note 3 Add drawing note 3 (typ.) to floor mounted data outlet
130	E2311	Add smoke detector and heat detector to elevator shaft M144
131	E2404	Add bonding conductors for air terminals
132	E2406	Add bonding conductors for air terminals
133	E4001	Modify feeder size for feeders MB023, MB027, and MB030 Delete 300A next to EP1 Modify notes and layout of switchboard MSB Modify Drawing Notes to read General Notes

		Modify general notes 1 and 2. Modify drawing notes 13, 14, 15, and 19
134	E4002	Modified Note 2 Changed fiber optic patch panel to 96 points
135	E4004	Deleted General Note 1 Modified Note 5 Added Notes 7, 8, 9, 10 and 11 Edit Riser Diagram Edit Camera Details
136	E5001	Modified Lighting Fixture Schedule Details to show new catalog numbers.
137	E5002	Add GFI protection for MSB main breaker Add LSI functions to ATS-1 breaker ADD LSIG functions to ATS-2 breaker Provide panel MSB with internal TVSS
138	E5003	Modify circuit PP1-8 from EF-M-18 to spare
139	E5004	Modify circuit RP1-17 from spare to elevator ventilation Modify circuit PP4-2 from EF-M-5 to EF-M-6
140	E5005	Modify breaker for circuit RP3-1 from 70/2 to 60/2 Modify breaker for circuit RP3B-1 from 20/3 to 15/3 Modify circuit RP3B-8 from spare to UH-M-26 – UH-M-28.
141	E5007	Modify amp rating for panel ER3 from 150A to 100A
142	E5008	Modify amp rating for panel ER1 from 150A to 125A Modify amp rating for panel ER2 from 150A to 100A
143	E5009	Modify Panel Schedule OP4
144	E5010	Modify breaker in position OR1-37 from 20/1 to 15/1 Modify rating of panel OR1 from 150A to 250A Modify breaker in position OR3-36 from 20/3 to 15/3 Modify rating of panel RP5 from 250A to 125A Modify circuit RP5-18 from spare to EF-M-5 Modify circuit OR1-44 from spare to EXTERIOR CCTV CAMERAS Modify circuit OR3-42 from spare to EXTERIOR CCTV CAMERAS Modify circuit OR3-44 from spare to OIL/WATER INTERCEPTOR
145	E5012	Modify note for LSI breaker
146	E6003	Add disconnect switch for elevator ventilation Add drawing note 12 to receptacle in elevator pit Add disconnect switch adjacent to transformer T4 Delete rectangle adjacent to Fire Alarm control panel. Add drawing note 18
147	E6006	Modify Detail 3, drawing note 9 to not used Modify Detail 3, drawing notes 12 and 13 Modify callouts in detail 6

148	E6007	Add roof supporting detail
149	P0001	Added Tributary Area To Sw And Ssw Piping Added Roof Drain Symbol Added Symbol For Balancing Valve/Circuit Setter Added Abbreviation For Hot Water Mixing Valve
150	P2101	Added Note 2 Updated Sump Pump Callout Changed Location Of Fd And Fco
151	P2102	Added Note 3 Updated Sump Pump Callout Added Notes 2, 3, 4
152	P2103	Added Flow Control Valve
153	P2104	Added Note 2 Updated Sump Pump Callout Updated Fd-S Callout
154	P2105	Added Note 2
155	P2106	Added Floor Clean Outs Updated Spd Pipe Size
156	P2111	Moved Gas Meter To Outside Of Boiler Room Revised Inverts Added Keynote For Fco-S Added Keynote For Fd-S
157	P2112	Added Keynote 2 & 3 Added Note For Fco-S & Revised Note For Fd-S
158	P2113	Added Keynote 5 & 6 Revised Fco-S & Fd-S Notes
159	P2114	Added Keynote 4 & 5 Revised Fco-S & Fd-2 Notes
160	P2115	Added Keynote 5 Revised Fco-S Note
161	P2116	Added Keynote For Mechanical Equipment
162	P2121	Removed 8" Gas Piping Changed Sw Square Foot On Sw Pipe
163	P2122	Changed Sw Square Foot On Sw Pipe Changed Sw Pipe & Roof Drain Size
164	P2123	Added Sizes To Air & Lube Piping Removed 8" Gas Piping Added Keynote 1
165	P2124	Added Air Piping Added Check Valve On 2" Spd Pipe Added Sizes For Air & Lube Piping Added Keynote 1
166	P2125	Added Keynote 1 Added Sizes To Air & Lube Piping
167	P2126	Added Keynote 1 Added Air Piping

		Added Sizes To Air & Lube Piping Changed Sw Piping Sizes
168	P2131	Changed Sw/Ssw Piping Run And Sizes
169	P2132	Changed Secondary Storm Water Size Changed Tributary Area For Sw Pipe
170	P2133	Changed Tributary Area
171	P2141	Added Keynote 1
172	P2142	Changed Rd/Srd Size
173	P2143	Added Keynote 1
174	P2144	Added Keynote 1
175	P2145	Added Keynote 1
176	P2401	Added Note; See Sheet P2402 For Continuation
177	P2403	Added Note; Continued From P2404
178	P2404	Added Shut-Off Valve To Pumps.
179	P2405	Updated Gas Riser Diagram Added Concrete Pad Callout
180	P2406	Added Elec. Drainer Added Concrete Pad Callout
181	P2407	Updated Lube Oil System Materials
182	P2501	Added Notes 8, 9 To Plumbing Fixtures
183	P2601	Added Shut-Off Valve; Detail 4 Changed Priming Connection Point; Detail 4 Modified & Changed All Detail Numbers Added Details 1 Thru 3 Changed Drain Pipe Size; Detail 6 Removed Dimension; Detail 6
184	P2602	Modified & Changed All Detail Numbers Updated Detail 1,2,3,5,6 Added Detail 3 And 7
185	F0004	Added Second Alarm Check Valve Re-Ordered Zones Added Drains From Alarm Check Valve & Siamese Connection

All other conditions of this IFB remain the same.

Also attached are the answers to contractors' questions.



**PROJECT: T-0705-0140 - Kirk Bus Division Modernization Project - Phase 1
(Maintenance Building)**

INVITATION FOR BID - QUESTIONS / RESPONSES

		Responses to Questions	
No.	Spec. Page #, Section & Para #	Question	Response to Question
1		<p>In going through the bid form, I don't see any line items for division 3, 4, 5, 6, 7, 8, 9, 14, 15. Where are we to put the costs for all this work? Do we really have to break out each item like it calls for on the bid form? To further elaborate on this Bid Form, is it necessary to provide all the 156 unit prices and totals at the time of bid? This will be next to impossible to provide the day of the bid. Can we provide just a lump sum price and then within 24 hours provide the breakout pricing? Or some variation of that?</p>	<p>The bidders are to put entries into each bid item identified on the bid form. There still are lump sum items and they will give a lump sum break down after the bids are evaluated. You must complete all line items of the bid documents to be responsive. MTA will total all line items to make sure that each bidder calculated their bid properly. This will provide MTA in help determining which bidder is the apparent low bidder.</p>
2		<p>One major question we have is about the requirement to perform 50% of the work with our own forces. Will this be waived or reduced since this is primarily a building and not a highway project?</p>	<p>The minimum work to be performed by Contractor's own forces has been revised from 50% to 35%.</p>
3		<p>Our company ISONAS is an IP-based Access Control manufacture. We have thousands of installs worldwide. Here are a few to highlight in your industry: Hampton Roads Transit in Virginia, Merrimack Valley Regional Transit Authority (MVRTA) in Massachusetts, Port of Houston in Texas, Berkley Transportation Hub in California, Addison County Transit Resources, upcoming large project in Vermont. Consequently, we believe there may have been a mix-up when we were listed as one of the approved "Enrollment Center" manufactures in section '13730-51'. We do offer an enrollment/badging package in conjunction with our Access Control System (ACS); however, this is an add-on feature to our ACS. Accordingly, we believe we were supposed to be listed under the approved 'Security Access' manufactures in section '13730-6' as again Access Control and Security are our primary lines of business.</p>	<p>The number of access control manufacturers listed in the specification was limited to 4. Although there are numerous manufacturers like ISONAS, Inc., the design was based on the manufacturer Schlage. That does not mean other manufacturers' products including ISONAS, Inc. will not be considered as per Specification 13730 article 2.01 A. There are other manufacturers (e.g. the other 3 listed in the specification) that may offer have systems that are compatible with the MTA access control systems. MTA is not familiar with ISONAS, Inc. products and the projects listed in the manufacturers inquiry (see below) do not list MTA as an example project their system has been used in/on. ISONAS, Inc. may be considered if they are chosen by the selected contractor and their system is compliant with the specifications that will be reviewed during the shop drawing phase of the project. It should be noted that ISONAS, Inc. is listed in Specification 13730 article 2.12 A. 5. as a potential enrollment center (again if their product is in compliance with the specifications.). For these reasons, MTA will not revise Specification 13730 2.01 A. to include ISONAS, Inc.</p>



**PROJECT: T-0705-0140 - Kirk Bus Division Modernization Project - Phase 1
(Maintenance Building)**

INVITATION FOR BID - QUESTIONS / RESPONSES

		Responses to Questions	
No.	Spec. Page #, Section & Para #	Question	Response to Question
4		I do not see the elevator included in the specification documents (Division 14). Is the elevator modernization part of this phase?	Yes, this project has one. There are several specs that cover this including SP 14240 HYDRAULIC ELEVATORS.
5		There are no Building Construction Rates in the Wage Scale, only Heavy Construction rates. What Wage Scale do the general building trades use?	The Building Construction Rates have been included in this IFB. Please see the revised Appendix C.
6		There is what appears to be a pre-engineered CANOPY shown on the East Elev dwg A2204 (between Col's A.5 & B.1) and Section 1 on A2331. We cannot find a spec for this item. Please provide.	SECTION 10536 - CANOPIES was issued as a part of Addendum 2.
7		The Summary, section 01110-p.4, states the following: "WORK SEQUENCE: A. Construct work in phases to accommodate Administration's operating and occupancy requirements during the construction period; coordinate construction schedule with the Engineer. 1. Phase 1 - Demolish existing Reese Press building, construct new maintenance building, parking areas and fencing/security measures on Reese Press site. 2. Phase 2 - Transfer maintenance operations to new maintenance building on Reese Press site." Who is responsible for the work described in Phase 2? If it is the contractor's responsibility, please provide details.	All equipment identified in the contract documents that is part of the contract will be provided and installed by the Contractor. Existing equipment that is identified as being relocated from the existing facility will be performed by MTA forces. The Contractor shall coordinate their work efforts and schedule with MTA in the Phase 2 work sequence.
8		There are no Door numbers shown on the floor plans, and there is no Door Schedule with actual Door/Room numbers. Drawing A2804 only shows the types & sizes of doors for the Door Tags. Please provide an actual Door Schedule that lists each opening, and the Door information for each door, so contractors don't have to guess at the quantity and pricing for doors on this project.	The Contractor shall submit their own schedule during the shop drawing review stage based on the contract documents.
9		Please provide a specification for the below slab ventilation system (BSVS). Include specification for below and above ground piping if there is a difference in materials.	A specification for the below slab ventilation system (BSVS) will be provided.
10		There appears to be a discrepancy between the quantity of maintenance reels shown on drawing ME501 as compared to drawings P2406 and 2407. Please clarify which drawings take precedence.	The quantities shown on Drawing P2406 and P2407 should be used for bidding.



**PROJECT: T-0705-0140 - Kirk Bus Division Modernization Project - Phase 1
(Maintenance Building)**

INVITATION FOR BID - QUESTIONS / RESPONSES

		Responses to Questions	
No.	Spec. Page #, Section & Para #	Question	Response to Question
11		<p>There is no detail for the 6' high ornamental iron fence. Please clarify how many rails the fence is to have; 2, 3, or 4 rails. There is a significant difference in costs.</p> <p>The Notice to Contractors page 6 of 7, item 18 states that "The bidder with his own forces shall perform not less than fifty percent (50%) of the work." This is not achievable for the following reasons: a. 30% of the work is to be subcontracted to Minority firms. b. Numerous specifications such as 05120 Structural Steel require specialized contractors. Page SP-437 Paragraph E directs the General Contractor to use a "Company experienced in erecting structural steel". Throughout the specification the General Contractor is directed to use a "Company" aka Subcontractor. c. Most, if not all, General Contractors subcontract the project. d. Other MDOT building projects such as the Inter-County Connector Maintenance Facility did not have this requirement. e. This requirement limits competition, increases the overall cost and is not in the best interest of the Maryland's tax payer. We require that this statement be rescinded or amended to allow general contractors to bid this project.</p>	<p>4 Rails</p> <p>The minimum work to be performed by Contractor's own forces has been revised from 50% to 35%.</p>
12			
13		<p>The specifications (ex. 07161-1 page SP-563, Paragraph 1.04) call for subcontractors with experience "on at least five projects of performing their task in the past five years." This statement excludes all and any new companies that have been formed in the past five years that may have individuals who meet your qualifications. We request that this statement be rescinded or amended to allow all reasonably qualified subcontractors to bid.</p>	<p>The applicator is required to have completed 5 similar application projects within the last 5 years. This does not exclude newly formed subcontractors. The applicators history of "five projects of applying submitted waterproofing system" could have been completed within the last year or 6 months.</p>
14		<p>The specifications call for AWI and AISC certifications for woodwork and steel respectively. We have several minority owned steel contractors and architectural woodwork subcontractors that are MDOT certified, work to the AWI and AISC certifications but do not have the certifications. We think that it is not the intent of the spec to exclude companies that are qualified in every way except a costly certification. We request that this statement be rescinded or amended to allow all reasonably qualified subcontractors to bid.</p>	<p>The requirements for an the AWI Quality Certification Program participation included in Specification 06412 are waived. The requirements for AISC certification will not be rescinded or amended.</p>



**PROJECT: T-0705-0140 - Kirk Bus Division Modernization Project - Phase 1
(Maintenance Building)**

INVITATION FOR BID - QUESTIONS / RESPONSES

		Responses to Questions	
No.	Spec. Page #, Section & Para #	Question	Response to Question
15		The Bid Form does not include square footage pricing for the aluminum frames, glass and glazing on this project. Please confirm that this will not be necessary.	Square footage pricing for the aluminum frames, glass and glazing is not required.
16		Spray fireproofing is noted on both the architectural and structural drawings with each section pointing the other. Please define the extent and limits of the fireproofing.	The extent of the spray fireproofing is defined on sheet A2000 in the BUILDING SUMMARY table under item 9 FIRE RESISTANCE (HOURS). The building construction must meet these requirements. The spray fireproofing systems are scheduled in Specification 07811.
17		Bid item 028 is for 3ea Dbl Type S inlets but the plans show 4ea? Please clarify the bid quantity.	4 each
18		Bid item 030 is for 5ea 48" Dia. MH but the plans show 7ea? Please clarify the bid quantity.	7 each
19		There is no pay items for the 84" Manhole (MH-1) and the temp 48" manhole #1A. How are we to price these on the bid form?	Bid item "Reinforced Concrete 84" Dia. Manhole", 1 EA was added in addendum no. 2
20		Bid item 028 is for 3 ea Dbl Type S inlets but the plans show 4 ea? Please clarify the bid quantity.	4 each
21		Bid item 030 is for 5 ea 48" Dia. MH but the plans show 7ea? Please clarify the bid quantity.	7 each
22		There is no pay items for the 84" Manhole (MH-1) and the temp 48" manhole #1A. How are we to price these on the bid form?	Bid item "Reinforced Concrete 84" Dia. Manhole", 1 EA was added in addendum no. 2

**KIRK BUS DIVISION MODERNIZATION PROJECT – PHASE 1
(MAINTENANCE BUILDING)
CONTRACT NO. T-0705-0140
CONTRACT SPECIFICATIONS BOOK**

TABLE OF CONTENTS

<u>DESCRIPTION</u>	VOLUME I	<u>PAGE NO.</u>
VENDOR COMMENTS.....		VC 1
NOTICE TO CONTRACTORS		NTC 1–8
BID FORM INCLUDING UNIT PRICE SCHEDULE		BF 1–26
BID BOND		BB 1– 2
AFFIDAVIT OF INDIVIDUAL SURETY & APPENDIX.....		AIS 1–5
CONTRACTOR QUESTIONNAIRE		CQ 1–5
BID/PROPOSAL AFFIDAVIT		BPA 1–6
BUY AMERICA CERTIFICATE		BAC 1
CERTIFICATION REGARDING LOBBYING.....		CRL 1
DBE REQUIREMENTS		DBE 1–9
LIABILITY INSURANCE REQUIREMENTS.....		IR 1–28
SUBCONTRACTOR UTILIZATION INFORMATION FORM		SUI 1– 2
PAYMENT BY ELECTRONIC FUNDS TRANSFER		EFT 1–3
CONTRACT AGREEMENT		C 1–2
CONTRACT AFFIDAVIT		CA 1–4
SURETY BOND ASSISTANCE PROGRAM		SBAP 1
PAYMENT BOND		PA 1–4
PERFORMANCE BOND		PE 1– 3
BID PROTEST		BP 1
CERTIFICATION REGARDING INVESTMENT ACTIVITIES IN IRAN		IRAN 1-2
LOCATION OF THE PERFORMANCE OF SERVICES DISCLOSURE ...		LPSD 1
MERCURY AFFIDAVIT		MA 1
CONFLICT OF INTEREST AFFIDAVIT		COI 1

TABLE OF CONTENTS - Cont.

<u>DESCRIPTION</u>	<u>PAGE NO.</u>
PROCUREMENT OFFICER'S BID CHECK LIST	POBC 1-3
MTA PROJECT SAFETY PLAN	PSP 1-33
GENERAL PROVISIONS FOR CONSTRUCTION CONTRACTS (MARYLAND DOT)	GP 1-68
SUPPLEMENTAL GENERAL PROVISIONS FOR CONSTRUCTION CONTRACTS (MTA)	SGP 1- 62

**SPECIAL PROVISIONS
VOLUME II**

01110 SUMMARY OF WORK.	SP 1-5	
01130 CONSTRUCTION PROCEDURES	SP 6-15	
01150 INTERFACE REQUIREMENTS	SP 16-20	
01210 MISCELLANEOUS WORK ALLOWANCE	SP 21-23	
01300 SUBMITTALS	SP 24-45	
01310 COORDINATION AND MEETINGS	SP 46-49A	
01360 SAFETY AND SECURITY CERTIFICATION.	SP 50-53	
01450 QUALITY ASSURANCE AND QUALITY CONTROL	SP 54-66	
01500 TEMPORARY FACILITIES AND CONTROL	SP 67-74	
01523 ENGINEER'S OFFICE TYPE 3.	SP 75-84	
01550 MAINTENANCE OF TRAFFIC.	SP 85-89	
01570 ENVIRONMENTAL PROTECTION	SP 90-109	
01600 PRODUCTS	SP 110-111	
01780 CLOSE OUT	SP 112-116	
01800 COMMISSIONING.	SP 117-152	
01900 MAINTENANCE BUILDING	SP 153	
02220 SITE DEMOLITION	SP 154-157	
02230 SITE CLEARING	SP 158-161	
Contract No. T-0705-0140	Addendum No. 2	TOC 2 of 12

TABLE OF CONTENTS - Cont.

<u>DESCRIPTION</u>	<u>PAGE NO.</u>
02315 EXCAVATION	SP 162-179
02317 EXCAVATION AND FILL	SP 180-186
02319 TAMPED FILL	SP 187-188
02320 FURNISHED SUBSOIL	SP 189-190
02330 EMBANKMENT AND SUBGRADE	SP 191-195
02350 RODENT EXTERMINATION	SP 196-197
02360 STONE PIERS	SP 198-201
02370 EROSION AND SEDIMENT CONTROL	SP 202-204
02372 SOIL STABILIZATION MATTING	SP 205-206
02455 STEEL H-SECTION PILES	SP 207-223
02510 WATER DISTRIBUTION	SP 224-226
02530 SANITARY SEWER	SP 227-235
02620 SUBDRAINAGE	SP 236-241
02624 PIPING	SP 242-243
02630 STORM DRAINAGE	SP 244-248
02650 SAND FILTER	SP 249-252
02720 AGGREGATE BASE COURSE	SP 253-255
02745 HOT MIX ASPHALT PAVEMENT	SP 256-260
02750 REINFORCED CONCRETE PAVEMENT	SP 261-263
02770 CURBS AND GUTTERS	SP 264-268
02775 CONCRETE SIDEWALKS	SP 269-272
02820 ORNAMENTAL FENCE	SP 273-276
02890 SIGNS	SP 277-278

TABLE OF CONTENTS - Cont.

<u>DESCRIPTION</u>	<u>PAGE NO.</u>
02920 TURF ESTABLISHMENT	SP 279-287
02930 TREES SHRUBS AND GROUND COVER	SP 288-306
02940 GREENSCREEN FENCE	SP 307-310
03050 PORTLAND CEMENT CONCRETE	SP 311-343
03210 REINFORCING STEEL	SP 344-351
03300 CAST-IN-PLACE CONCRETE	SP 352-381
03350 CONCRETE FINISHES	SP 382-387
04060 MASONRY MORTAR	SP 388-392
04070 MASONRY GROUT	SP 393-396
04080 MASONRY ANCHORAGE, REINFORCEMENT, AND ACCESSORIES	SP 397-402
04720 CAST STONE SPECIALITIES	SP 403-410
04810 CONCRETE UNIT MASONRY	SP 411-417
04811 CLAY BRICK UNIT MASONRY	SP 418-432
05120 STRUCTURAL STEEL	SP 433-455
05210 STEEL JOISTS	SP 456-466
05310 STEEL DECK	SP 467-482
05400 COLD-FORMED METAL FRAMING	SP 483-497
05500 METAL FABRICATIONS	SP 498-509
05511 METAL STAIRS, HANDRAILS AND GUARD RAILS	SP 510-525
06105 MISCELLANEOUS CARPENTRY	SP 526-536
06412 PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS	SP 537-543
06420 WOOD PANELING	SP 544-547
06615 SOLID SURFACE COUNTERTOPS	SP 548-550

TABLE OF CONTENTS - Cont.

<u>DESCRIPTION</u>	<u>PAGE NO.</u>
07110 BITUMINOUS DAMPPROOFING	SP 551-554
07130 SHEET WATERPROOFING (MODIFIED BITUMINOUS).....	SP 555-562
07161 CRYSTALLINE WATERPROOFING.....	SP 563-570
07210 BOARD AND BATT INSULATION.....	SP 571-580
07260 VAPOR RESISTIVE BARRIER.....	SP 581-585
07411 METAL ROOF PANELS.....	SP 586-601
07415 COMPOSITE WALL PANELS.....	SP 602-613
07543 THERMOPLASTIC POLYOLEFIN (TPO) ROOFING.....	SP 614-626
07620 SHEET METAL FLASHING AND TRIM.....	SP 627-637
07720 ROOF ACCESSORIES.....	SP 638-650
07811 SPRAY FIRE-RESISTIVE MATERIALS	SP 651-662
07841 THROUGH-PENETRATION FIRESTOP SYSTEMS	SP 663-673
07920 ARCHITECTURAL JOINT SEALANTS.....	SP 674-685
08100 METAL DOORS AND FRAMES.....	SP 686-694
08210 WOOD DOORS.....	SP 695-704
08300 SPECIALTY DOORS	SP 705-710
08331 OVERHEAD COILING DOORS.....	SP 711-719
08332 COILING COUNTER DOORS.....	SP 720-724
08360 HIGH-SPEED ROLLING DOORS.....	SP 725-731
08411 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS.....	SP 732-744
08710 DOOR HARDWARE.....	SP 745-769
08800 GLAZING.....	SP 770-782
09111 NON-LOAD BEARING STEEL FRAMING	SP 783-792
09250 GYPSUM BOARD.....	SP 793-802

TABLE OF CONTENTS - Cont.

<u>DESCRIPTION</u>	<u>PAGE NO.</u>
09310 CERAMIC TILE.	SP 803-816
09402 RESINOUS MATRIX TERRAZZO FLOORING.	SP 817-824
09512 ACOUSTICAL TILE CEILINGS.	SP 825-832
09651 RESILIENT FLOOR TILE.	SP 833-839
09653 RESILIENT WALL BASE AND ACCESSORIES.	SP 840-846
09681 CARPET TILE.	SP 847-853
09911 EXTERIOR PAINTING.	SP 854-861
09915 INTERIOR PAINTING.	SP 862-874
09919 PAVEMENT MARKINGS PAINT.	SP 875-878
09960 HIGH PERFORMANCE COATINGS.	SP 879-885

VOLUME III

10147 VISUAL DISPLAY SYSTEMS.	SP 886-889
10170 TOILET COMPARTMENTS.	SP 890-895
10194 WELDING CURTAINS.	SP 896-898
10210 WALL LOUVERS.	SP 899-904
10434 PANEL SIGNAGE.	SP 905-908
10505 METAL LOCKERS.	SP 909-918
10523 FIRE EXTINGUISHERS.	SP 919-921
10536 CANOPIES.	SP 921A-921E
10605 WIRE MESH PARTITIONS.	SP 922-929
10670 STORAGE EQUIPMENT.	SP 930-954
10801 TOILET AND BATH ACCESSORIES.	SP 955-961
11005 BASIC EQUIPMENT MATERIAL AND METHODS.	SP 962-981

TABLE OF CONTENTS - Cont.

<u>DESCRIPTION</u>	<u>PAGE NO.</u>
11510 SHOP WORK STATIONS.....	SP 982-992
11520 SHOP EQUIPMENT.....	SP 993-1027
11535 CLEANING EQUIPMENT.....	SP 1028-1037
12491 HORIZONTAL LOUVER BLINDS.....	SP 1038-1040
13100 LIGHTNING PROTECTION.....	SP 1041-1045
13720 INTRUSION DETECTION.....	SP 1046-1066
13730 SECURITY ACCESS.....	SP 1067-1143
13760 VIDEO SURVEILLANCE.....	SP 1144-1162
13830 DOOR VIDEO INTERCOM SYSTEM.....	SP 1163-1173
13852 DIGITAL, ADDRESSABLE FIRE-ALARM SYSTEM.....	SP 1174-1198
13930 WET-PIPE FIRE-SUPPRESSION SPRINKLERS.....	SP 1199-1226
13967 CLEAN-AGENT FIRE-EXTINGUISHING SYSTEMS.....	SP 1227-1239
13974 FIRE-SUPPRESSION STANDPIPES.....	SP 1240-1262
14240 HYDRAULIC ELEVATORS.....	SP 1263-1282
14420 WHEELCHAIR LIFTS.....	SP 1283-1288
14450 VEHICLE LIFTS.....	SP 1289-1305
14513 FORKLIFTS.....	SP 1306-1310
14630 BRIDGE CRANE.....	SP 1311-1327
14635 FALL ARREST SYSTEM.....	SP 1328-1334
14920 MONORAIL CRANES.....	SP 1335-1342
15058 COMMON MOTOR REQUIREMENTS FOR HVAC AND PLUMBING EQUIPMENT.....	SP 1343-1345
15062 HANGERS AND SUPPORTS FOR HVAC AND PLUMBING PIPING AND EQUIPMENT.....	SP 1346-1359

TABLE OF CONTENTS - Cont.

<u>DESCRIPTION</u>	<u>PAGE NO.</u>
15072 VIBRATION AND SEISMIC CONTROLS FOR FIRE-SUPPRESSION PIPING AND EQUIPMENT.....	SP 1360-1367
15074 VIBRATION AND SEISMIC CONTROLS FOR HVAC AND PLUMBING PIPING AND EQUIPMENT.....	SP 1368-1382
15077 IDENTIFICATION FOR HVAC AND PLUMBING PIPING AND EQUIPMENT.....	SP 1383-1387
15086 DUCT INSULATION.....	SP 1388-1411
15087 HVAC AND PLUMBING EQUIPMENT INSULATION.....	SP 1412-1441
15088 HVAC AND PLUMBING PIPING INSULATION.....	SP 1442-1469
15091 SLEEVES AND SLEEVE SEALS FOR FIRE-SUPPRESSION PIPING.....	SP 1470-1475
15093 SLEEVES AND SLEEVE SEALS FOR HVAC AND PLUMBING PIPING	SP 1476-1481
15096 ESCUTCHEONS FOR FIRE-SUPPRESSION PIPING.....	SP 1482-1483
15098 ESCUTCHEONS FOR HVAC AND PLUMBING PIPING.....	SP 1484-1485
15110 PLUMBING VALVES..	SP 1486-1500
15112 GENERAL-DUTY VALVES FOR HVAC PIPING	SP 1501-1525
15120 PLUMBING PIPING SPECIALITIES.....	SP 1526-1554
15124 EXPANSION FITTINGS AND LOOPS FOR HVAC AND PLUMBING PIPING.	SP 1555-1561
15127 METERS AND GAGES FOR HVAC AND PLUMBING PIPING..	SP 1562-1572
15130 PUMPS FOR PLUMBING	SP 1573-1582
15140 DOMESTIC WATER PIPING.....	SP 1583-1595
15150 SANITARY WASTE AND VENT PIPING.....	SP 1596-1614
15160 STORM AND CONDENSATE DRAINAGE PIPING.....	SP 1615-1629
15179 HYDRONIC PIPING SPECIALITIES.....	SP 1630-1638
15181 HYDRONIC PIPING.....	SP 1639-1661

TABLE OF CONTENTS - Cont.

<u>DESCRIPTION</u>	<u>PAGE NO.</u>
15182 GROUND-LOOP HEAT-PUMP PIPING	SP 1662-1665
15183 REFRIGERANT PIPING.	SP 1666-1680
15185 HYDRONIC PUMPS.	SP 1681-1687
15189 HVAC WATER TREATMENT.	SP 1688-1697
15192 FACILITY FUEL-OIL PIPING.	SP 1698-1725
15193 ABOVEGROUND STORAGE TANKS.	SP 1726-1737
15194 FUEL GAS PIPING	SP 1738-1751

VOLUME IV

15195 FLUID MANAGEMENT SYSTEM.	SP 1752-1769
15198 FLUID HANDLING SYSTEMS	SP 1770-1785
15210 PROCESS AIR AND GAS PIPING.	SP 1786-1801
15251 GENERAL SERVICE COMPRESSED-AIR EQUIPMENT	SP 1802-1812
15410 PLUMBING FIXTURES.	SP 1813-1834
15480 DOMESTIC WATER HEATERS.	SP 1835-1842
15512 CAST-IRON BOILERS.	SP 1843-1853
15550 BREECHINGS, CHIMNEYS, AND STACKS	SP 1854-1858
15555 DRAFT CONTROL DEVICES.	SP 1859-1861
15671 PACKAGED COMPRESSOR AND CONDENSER UNITS.	SP 1862-1869
15725 MODULAR INDOOR CENTRAL-STATION AIR- HANDLING UNITS	SP 1870-1885
15738 SPLIT-SYSTEM AIR-CONDITIONING UNITS.	SP 1886-1895
15745 WATER-SOURCE HEAT PUMPS.	SP 1896-1910
15761 AIR COILS.	SP 1911-1915
15785 AIR-TO-AIR ENERGY RECOVERY EQUIPMENT.	SP 1916-1921

TABLE OF CONTENTS - Cont.

<u>DESCRIPTION</u>	<u>PAGE NO.</u>
15791 CABINET UNIT HEATERS.....	SP 1922-1929
15792 PROPELLER UNIT HEATERS.....	SP 1930-1934
15815 METAL DUCTS.....	SP 1935-1953
15820 DUCT ACCESSORIES.....	SP 1954-1973
15838 FANS.....	SP 1974-1988
15855 DIFFUSERS, REGISTERS, AND GRILLES.....	SP 1989-1995
15900 HVAC INSTRUMENTATION AND CONTROLS.....	SP 1996-2027
15950 TESTING ADJUSTING AND BALANCING.....	SP 2028-2051
16055 OVERCURRENT PROTECTIVE DEVICE COORDINATION AND ARC FLASH STUDY.....	SP 2052-2061
16060 GROUNDING AND BONDING.....	SP 2062-2070
16073 HANGERS AND SUPPORT FOR ELECTRICAL SYSTEMS....	SP 2071-2077
16075 ELECTRICAL IDENTIFICATION.....	SP 2078-2089
16091 SLEEVES AND SLEEVE SEALS FOR ELECTRICAL RACEWAYS AND CABLING.....	SP 2090-2095
16120 CONDUCTORS AND CABLING.....	SP 2096-2101
16130 RACEWAYS AND BOXES.....	SP 2102-2115
16136 CABLE TRAYS FOR COMMUNICATIONS SYSTEMS.....	SP 2116-2125
16140 WIRING DEVICES.....	SP 2126-2137
16145 LIGHTNING CONTROL DEVICES.....	SP 2138-2151
16211 ELECTRICITY METERING.....	SP 2152-2155
16231 PACKAGED ENGINE GENERATORS.....	SP 2156-2176
16264 STATIC UNINTERRUPTIBLE POWER SUPPLY.....	SP 2177-2298
16269 VARIABLE FREQUENCY CONTROLLERS.....	SP 2199-2219

TABLE OF CONTENTS - Cont.

<u>DESCRIPTION</u>	<u>PAGE NO.</u>
16289 SURGE PROTECTION FOR LOW-VOLTAGE ELECTRICAL POWER CIRCUITS	SP 2220-2225
16410 ENCLOSED SWITCHES AND CIRCUIT BREAKERS	SP 2226-2234
16415 TRANSFER SWITCHES.	SP 2235-2247
16420 ENCLOSED CONTROLLERS.	SP 2248-2261
16441 SWITCHBOARDS.	SP 2262-2276
16442 PANELBOARDS.	SP 2277-2290
16461 LOW-VOLTAGE TRANSFORMERS.	SP 2291-2297
16491 FUSES.	SP 2298-2301
16510 INTERIOR LIGHTING.	SP 2302-2325
16520 EXTERIOR BUILDING LIGHTING.	SP 2326-2336
16570 NETWORK LIGHTING CONTROLS.	SP 2337-2349
16711 PATHWAYS FOR COMMUNICATIONS SYTEMS	SP 2350-2364
16712 PATHWAYS FOR ELECTRONIC SAFETY AND SECURITY .	SP 2365-2380
16714 COMMUNICATIONS EQUIPMENT ROOM FITTINGS	SP 2381-2388
16716 COMMUNICATIONS BACKBONE CABLING.	SP 2389-2409
16717 COMMUNICATIONS HORIZONTAL CABLING.	SP 2410-2428
16718 CONDUCTORS AND CABLES FOR ELECTRONIC SAFETY AND SECURITY	SP 2429-2446
16722 INTERCOMMUNICATIONS AND PROGRAM SYSTEMS.	SP 2447-2461

TABLE OF CONTENTS - Cont.

DESCRIPTION

APPENDICES

APPENDIX A – LIST OF CONTRACT DRAWINGS

APPENDIX C – FEDERAL MINIMUM WAGE RATES

APPENDIX D – BUY AMERICA REQUIREMENTS

APPENDIX E – PERMITS/WAIVERS

APPENDIX F – CONTRACT DATA REQUIREMENT LIST (CDRL)

APPENDIX G – GEOTECHNICAL DATA

APPENDIX I – EXISTING DRAWINGS

APPENDIX J – EXISTING REESE PRESS BUILDING – ENVIRONMENTAL
INFORMATION

**STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION
NOTICE TO CONTRACTORS**

**KIRK BUS DIVISION MODERNIZATION
PROJECT – PHASE 1 (MAINTENANCE
BUILDING)**

CONTRACT NO.: T-0705-0140

DATE: March 4, 2013

1. DESCRIPTION OF WORK

- A. This Contract is for the construction of Phase 1 of the new Kirk Division Bus Facility to include the new Bus Maintenance Building. The work involves: Demolition of the existing Reese Press Building and site.

The MTA will abate lead based paint and asbestos from the Reese Press Building to OSHA and EPA requirements for abatement prior to demolition. Suspect asbestos containing material and lead based paint remaining areas are shown in Appendix J. Construction of the new Bus Maintenance Facility and associated employee parking area on the former Reese Press Site. The new Bus Maintenance Facility will consist of 6 articulated bus maintenance bays, 13 standard bus maintenance bays, 13 dead bus storage bays, two chassis wash bays, parts/tire/material storage area, shop area, and associated maintenance administration and support spaces. Exterior to the building the site will include parking, refuse and recycling dumpster enclosure, and site storage. Existing parking on the Reese Press Site will be relocated by the MTA prior to the issuance of Notice of Proceed.

- B. **Estimated value for this work is in the range of \$30,000,001- \$50,000,000.**

2. DEADLINE FOR QUESTIONS

Questions regarding the work should be directed in writing to Mr. Rick Owens at the Administration Offices or via email address rowens@mta.maryland.gov. Facsimile messages will not be accepted unless accompanied by telephone notification at (410) 767-3360. Our fax number is (410) 333-4810. Questions directed to this office must be received no later than March 18, 2013 at the close of the business day. Questions should be submitted on company letterhead. No interpretations other than written shall be binding on the Administration.

3. PRE-BID MEETING & SITE VISIT

A Pre-Bid meeting for the purpose of explaining the Project will be held on April 4, 2013 at 10:00 a.m., local time at the Administration Headquarters, 6 St. Paul Street, 7th Floor Conference Room(s) 731-732, Baltimore, Maryland 21202-

1614.

A Site Visit will be held on **April 4, 2013** immediately following the Pre-Bid Meeting.

It is strongly suggested that the person(s) responsible for the preparation of bid documents for bidders attend the Pre-Bid Meeting and the site visit. **INSTRUCTIONS CRITICAL TO THE PREPARATION OF THE CONTRACT DOCUMENTS WILL BE PRESENTED AT THE PRE-BID MEETING.**

4. BID DUE DATE & TIME

Sealed Bids addressed to the Maryland Transit Administration, Procurement Division, 6 St. Paul Street, Baltimore, Maryland 21202-1614, and marked "**Bid for Contract No. T-0705-0140 KIRK BUS DIVISION MODERNIZATION PROJECT – PHASE 1 (MAINTENANCE BUILDING)**", will be received at the above address until but not after 2:00 P.M. local time, **May 7, 2013**. At that time, the Bids will be publicly opened and read aloud at a location at the same address. Hand delivered bids should be deposited in the Bid Box located on the 7th Floor before the 2:00 P.M. deadline. Any bids received after the date and time specified shall not be considered.

5. ELECTRONIC VERSION OF BID DOCUMENTS

The bid documents will be available by electronic means. The Bidder acknowledges and accepts full responsibility to ensure that the Bidder has made no changes to the Administration's bid documents. In the event of a conflict between the versions of the bid documents in the bidder's possession and the version maintained by the Procurement Officer, the version maintained by the Procurement Officer shall govern.

6. AVAILABILITY OF DOCUMENTS

Specifications may be downloaded from the MTA web site located at www.mta.maryland.gov. Bidders will be required to register the first time specifications are downloaded and a login number will be assigned. This number should be used every time the bidder downloads the documents for this contract. Bidders must supply accurate information in order to receive notice of all subsequent addenda.

TO OBTAIN THE SPECIFICATIONS: Please visit MTA's website (www.mta.maryland.gov), follow the links for "Business" – "Procurement" - "Bids/Solicitations", and download the Specifications for this procurement.

TO OBTAIN THE DRAWINGS: e-mail Rick Owens at rowens@mta.maryland.gov requesting the contract drawings and supplying the following information: the contact person, company name, mailing address, phone

and e-mail address. The drawings (CD) will be mailed to you at no cost. You also have the option of picking up the CD containing the drawings at: 6 Saint Paul Street, 7th floor, Baltimore, MD 21202.

7. ADDENDA

Bidders are required to acknowledge all addenda with their bid package. Although the MTA endeavors to send out all addenda to this solicitation in a timely manner, it is the responsibility of the contractors to make sure they received all appropriate documents prior to the bid due date.

8. EMARYLAND MARKETPLACE REGULATIONS

Use of “e-Maryland Marketplace”

“e-Maryland Marketplace” is an electronic commerce system administered by the Maryland Department of General Services.

Registration is free and will provide a means for your business to receive e-mail notifications of upcoming contracting opportunities in specified areas of interest and expertise. This means that all such information is immediately available to subscribers to e-Maryland Marketplace. Because of the instant access afforded by e-Maryland Marketplace, it is recommended that all Bidders interested in doing business with Maryland State agencies subscribe to e-Maryland Marketplace. For more eMM registration information, visit the website: <http://ebidmarketplace.com>.

9. BID BOND

Each bid exceeding \$100,000 must be accompanied by a Bid Bond in the amount of five percent (5%) of the Bid Price. Bid, payment, and performance security may be in the form of: (1) a bond executed by a surety company authorized to do business in the State; (2) a bond executed by an individual surety that meets certain criteria; (3) another form of security required by State or federal law; or (4) another form of security satisfactory to the unit awarding the contract. Sections 13-207, 13-216, 17-104 of the State Finance and Procurement Article, Annotated Code of Maryland. The language herein supersedes Section 2.07 (Proposal Guarantee) in the General Provisions.

10. PAYMENT AND PERFORMANCE BONDS

Payment and Performance Bonds in the amount of the Contract Price will be required by the awardee. Upon receiving notification of contract award, the Contractor shall deliver the bond to the MTA no later than the time the Contractor executes the contract. Bid, payment, and performance security may be in the form of: (1) a bond executed by a surety company authorized to do business in the State; (2) a bond executed by an individual surety that meets certain criteria; (3) another form of security required by State or federal law; or (4) another form of

security satisfactory to the unit awarding the contract. Sections 13-207, 13-216, 17-104 of the State Finance and Procurement Article, Annotated Code of Maryland.

11. ELECTRONIC FUNDS TRANSFER

On every solicitation for a contract expected to exceed \$200,000, the bidder will be required to accept payments by electronic funds transfer (EFT) unless the State Comptroller's Office grants an exemption.

12. DISADVANTAGED BUSINESS ENTERPRISE PROGRAM

A. DISADVANTAGED BUSINESS ENTERPRISES ARE ENCOURAGED TO RESPOND TO THIS SOLICITATION NOTICE.

B. The Maryland Transit Administration hereby notifies all bidders that, in regard to any Contract entered into pursuant to this advertisement, Disadvantaged Business Enterprises will be afforded full opportunity to submit Bids in response to this Notice, and will not be subjected to discrimination on the basis of political or religious opinion or affiliation, race color, creed, sex, age or national origin in consideration for an award.

C. It is the goal of the Administration that Disadvantaged Business Enterprises participate in all Contracts. Each Contract will contain goals for Disadvantaged Business Enterprise participation on a contract-to-contract basis. A subcontracting goal of thirty percent (30%) has been established for this procurement. All bidders must submit with their bid a fully executed copy of the Certified DBE Utilization and Fair Solicitation Affidavit (MDOT DBE FORM A) and DBE Participation Schedule (MDOT DBE FORM B). If the bidder fails to submit these completed forms with the bid as required, the procurement officer shall deem the bid non-responsive or shall determine that the offer is not reasonably susceptible of being selected for award. ALL DBE FIRMS MUST BE CERTIFIED BY THE MARYLAND DEPARTMENT OF TRANSPORTATION. NO OTHER CERTIFICATIONS WILL BE ACCEPTED.

D. **A contractor may count toward its DBE goal 60 percent of its expenditures for materials and supplies required under the contract and obtained from a DBE regular dealer, and 100 percent of such expenditures to a DBE manufacturer. The DBE credited supplies may not exceed 60 percent of the entire contract goal.**

E. New versions of Sections 13-103, 13-104 and 14-303 of the State Finance and Procurement Article of the Maryland Code, relating to increased bid/proposal documentation of DBE commitments, are effective as of October 1, 2004. The Contract under this solicitation will be awarded in accordance with these new requirements. As a result, new bid submission

requirements, including certain revised DBE documents, are in effect for this solicitation. These new requirements are set forth elsewhere in this solicitation.

- F. As a result of the revisions to Sections 13-103, 13-104 and 14-303, certain existing portions of the Code of Maryland Regulations (COMAR) relating to post bid/proposal submission of DBE subcontractors are inconsistent with the revised statute. To the extent the provisions of COMAR relating to post bid identification of DBE subcontractors are inconsistent with the requirements of this solicitation, the requirements of this solicitation shall control the award of a Contract. Questions or concerns regarding the DBE requirements of this solicitation must be raised prior to the opening of bids or receipt of initial proposals
- G. Effective on October 1, 2009, Minority Business Enterprise (MBE) firms may elect to be dually certification as woman-owned businesses and as members of an ethnic or racial category. For purposes of achieving any gender or ethnic/racial MBE participation subgoals in a particular contract, an MBE firm that has dual certification may participate in the contract either as a woman-owned business or as a business owned by a member of a racial or ethnic minority group, **but not both**.

WARNING – PLEASE READ:

- ◆ **A firm must be listed in the MDOT MBE/DBE Directory with the gender category in order to be used to meet the gender subgoal.**
- ◆ **A firm must be listed in the MDOT MBE/DBE Directory with an ethnic/racial category in order to be used to meet the ethnic/racial subgoal.**
- ◆ **A firm must be listed in the MDOT MBE/DBE Directory with both the gender and ethnic/racial categories in order for a contractor to have the option of selecting which of those categories it will use for the firm on a State contract.**
- ◆ **Contractors should designate whether the MBE firm will be used as a woman-owned business or as a business owned by a member of a racial/ethnic group before calculating the percentage of MBE participation goals and subgoals they intend to meet.**

Maryland's MBE/DBE Directory will reflect the dual certification status beginning October 1, 2009. You can access the MBE/DBE Directory at <http://mbe.mdot.state.md.us>. Firms with dual certification will now be listed as follows:

Example:

ABC Corporation, Inc.
123 Corporate Circle
Hanover, MD 21076

Female/African American

13. AFFIRMATIVE ACTION REQUIREMENTS

Bidders on this Work will be required to comply with MTA Affirmative Action Requirements and all applicable Equal Employment Opportunity Laws and Regulations.

14. FEDERAL FUNDING

Any contract resulting from bids submitted is subject to a Financial Assistance Contract between the Administration and the U.S. Department of Transportation. Federal funds will be used to finance 80% of the cost of this contract.

15. SUSPENSION AND DEBARMENT CERTIFICATION

All bidders will be required to certify that they are not on the GSA List of Parties Excluded from Procurement and the List of Contractors Suspended or Debarred from Contracting with the State of Maryland. All bidders must also be in good standing with the State Assessment & Taxation Department.

16. CONTRACTOR'S QUESTIONNAIRE

All Bidders shall submit a fully executed copy the Contractor's Questionnaire Pre-Award Evaluation Data Form with the bid package.

17. INSURANCE REQUIREMENTS

The Administration has chosen to provide Workers' Compensation, General Liability, Excess Liability, Builders Risk, Pollution Liability and Railroad Protective coverage on behalf of Contractors and subcontractors working on this project. This approach to project insurance is commonly called a wrap-up or owner controlled insurance program (OCIP). Specific information regarding Liability Insurance Requirements is contained in the Contract Specifications.

Please note that an Insurance Cost Worksheet must be included with each bid package.

18. USE OF BIDDER'S OWN FORCES

The bidder with his own forces shall perform not less than thirty five percent (35%) of the work at the project site.

19. BUY AMERICA REQUIREMENTS

This contract is subject to Section 165, "Buy America", of the Surface Transportation Assistant Act of 1982, U.S. Public Law 197-424, and regulations

and/or guidance implementing this statutory provision issued by the Federal Transit Administration of the U.S. Department of Transportation. The contract is further subject to the Buy American Steel requirements of Chapter 02 of subtitle 11 of the Code of Maryland Regulations, Title 21, State Procurement Regulations.

20. CERTIFICATION REGARDING INVESTMENTS IN IRAN

All bidders will be required to certify that they are not on the list created by the Board of Public Works as a person engaging in investment activities in Iran as described in §17-702 of State Finance & Procurement; and is not engaging in investment activities in Iran as described in State Finance & Procurement Article, §17-702.

21. LOCATION OF THE PERFORMANCE OF SERVICES DISCLOSURE

All bidders will be required to disclose the location of the performance of services pursuant to Md. Ann. Code, State Finance and Procurement Article, § 12-111, and in conjunction with the bid submitted in response to this IFB.

22. CONFLICT MINERALS CLAUSE

Bidders are advised that Md. Ann. Code, State Finance and Procurement Article, § 14-413 provides as follows:

- (a) (1) In this section the following words have the meanings indicated.
- (2) (i) “Conflict mineral” means a mineral or mineral derivative determined under federal law to be financing human conflict.
- (ii) “Conflict mineral” includes columbite-tantalite (coltan), cassiterite, gold, wolframite, or derivatives of these minerals.
- (3) “Noncompliant person” means a person:
 - (i) that is required to disclose under federal law information relating to conflict minerals that originated in the Democratic Republic of the Congo or its neighboring countries; and
 - (ii) for which the disclosure is not filed, is considered under federal law to be an unreliable determination, or contains false information.
- (b) A unit may not knowingly procure supplies or services from a noncompliant person.

By submitting a response to this solicitation, the Bidder represents that it is in compliance with the disclosure requirements related to conflict minerals, as set forth in § 14-413 of the State Finance and Procurement Article.

23. MERCURY AFFIDAVIT

Bidders are required to complete the Mercury Affidavit in its entirety.

24. CONFLICT OF INTEREST AFFIDAVIT

Bidders are required to complete the Conflict of Interest Affidavit in its entirety.

25. DETERMINATION OF RESPONSIVENESS AND RESPONSIBILITY

The IFB contains bid requirements in a number of places throughout. The Procurement Officer will review bid submission material to be certain the submission is responsive and the bidder responsible per COMAR 21.06.01.01. To assist bidders in preparing their bid packages and help ensure no required materials are inadvertently omitted, a new attachment entitled "Procurement Officer's Bid Checklist" has been included in this IFB. It represents the questions and references which will be used to check all bids for responsiveness and responsibility.

26. CANCELLATION OR REJECTION OF BIDS

Notice to Contractors may be canceled in accordance with State Procurement Regulations.

The Administration reserves the right to reject any and all bids and/or waive technical defects if, in its judgment, the interests of the Administration so require.

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION
BID FORM
FOR
CONTRACT NO.: T-0705-0140

TO: MARYLAND TRANSIT ADMINISTRATION
ATTN: PROCUREMENT DIVISION
6 SAINT PAUL STREET, 7TH FLOOR
BALTIMORE, MD 21202-1614

BID OPENING DATE:
May 7, 2013
BID OPENING TIME:
2:00 PM

BID OF: _____
(Bidder's Name)

PROJECT DESCRIPTION:

This Contract is for the construction of Phase 1 of the new Kirk Division Bus Facility to include the new Bus Maintenance Building. The work involves: Demolition of the existing Reese Press Building and site.

1. This bid is hereby submitted to the Maryland Transit Administration (hereinafter sometimes called the "Administration") in response to NOTICE TO CONTRACTORS dated _____ .
2. The UNDERSIGNED has thoroughly examined, acknowledges receipt of, and is familiar with the Contract Documents as well as the various instructions, information, and requirements covering the same, all as mentioned herein and in said NOTICE TO CONTRACTORS.
3. In compliance with said NOTICE TO CONTRACTORS the UNDERSIGNED hereby proposes to furnish all labor, equipment, and materials and perform all work described and in strict accordance with the provisions of the Contract Documents for the consideration of the amounts, lump sum and unit prices listed in the attached Unit Price Schedule, and agrees that, upon Notice of Award, within one hundred eighty(180) calendar days after the date of opening of bids, unless mutually extended, he will within ten (10) calendar days after receipt of the prescribed forms, execute the Contract and furnish a performance bond and payment bond (if such bonds are required by the Contract Documents) on forms furnished by the Administration with good and sufficient surety or sureties.
4. The UNDERSIGNED agrees and understands that the time of completion is as specified in the Special Provisions, unless the completion dates are extended as provided for in the Contract Documents.
5. The UNDERSIGNED agrees to pay liquidated damages in the amount specified in the Special Provisions for each and every calendar day after the completion date that the work remains incomplete unless an extension is granted as provided for in the Contract Documents.
6. The UNDERSIGNED hereby certifies that the _____
(Bidder's Name) / ___ / is, / ___ / is not (CHECK ONE) included on the GSA

list of Parties Excluded from Procurement. **AND**

The UNDERSIGNED hereby certifies that the _____
(Bidder's Name) / ___ / is, / ___ / is not (CHECK ONE) included on the List of
Contractors Suspended or Debarred from Contracting with the State of Maryland.

7. The UNDERSIGNED, as the Contractor, will perform on the Site, with its own organization, _____ percent (___ %) of the total amount of work to be performed under this contract.

8. PARENT COMPANY

a. The UNDERSIGNED represents that it / ___ / is, / ___ / is not, (CHECK ONE) owned or controlled by a parent company. For this purpose a parent company is defined as one which either owns or controls the activities and basic business policies of the UNDERSIGNED. To own another company means the parent company must own at least a majority (more than 50 percent) of the voting rights in that company. To control another company such ownership is not required; if another company is able to formulate, determine or veto basic business policy decisions of the bidder, such other company is considered the parent of the bidder. This control may be exercised through the use of dominant minority voting rights, use of proxy voting, contractual arrangements, or otherwise.

b. If UNDERSIGNED is owned or controlled by a parent company, insert in the space below the name and main office address of the parent company

Name

Address

9. ARREARAGES

By submitting a response to this solicitation, the undersigned shall be deemed to represent that it is not in arrears in the payment of any obligations due and owing the State of Maryland, including the payment of taxes and employee benefits, and that it shall not become so arrears during the term of the contract if selected for contract award.

10. CERTIFICATION OF NON-MARYLAND CORPORATION (FOREIGN CORPORATION)

a. A corporation not incorporated in the State of Maryland is considered to be a foreign corporation and, therefore, is required to be registered with the Maryland State Department of Assessment and Taxation if awarded this contract.

b. Where a foreign corporation is currently registered with the Department of Assessments and Taxation, such a bidder shall submit with his bid a copy of the department's certification of his registration or qualification acknowledgment.

c. If a foreign corporation is not currently registered, such a bidder shall submit with his bid his certification that, if notified of his apparent award of the contract, he will register with the Maryland State Department of Assessments and Taxation and provide a copy of the department's certification of his registration or qualification acknowledgment along with the executed contract.

11. The Contractor shall, prior to the time of execution of the contract, obtain all applicable licenses and comply with all applicable laws and regulations in the Annotated Code of Maryland.

12. All bidders must submit with their bid the following documents fully executed.

- a. Bid Bond in the Amount of \$ _____
Or 5% of the bid price (if applicable).
or
Individual Surety Bid Bond in the Amount of
\$ _____ Or 5% of the bid price (if applicable) and a
executed Affidavit of Individual Surety (Attachment A) & Surety Affidavit
(Attachment B).
- b. Contractor's Questionnaire Pre-Award Evaluation Data
- c. Bid/Proposal Affidavit.
- d. Buy America Certificate.
- e. Certification Regarding Lobbying.
- f. MDOT DBE Form A, "Certified DBE Utilization and Fair Solicitation Affidavit".
- g. MDOT DBE Form B, "DBE Participation Schedule".
- h. Completed Investments in Iran Certification
- i. Completed Location of Performance of Services Disclosure
- j. Completed Mercury Affidavit
- k. Completed Conflict of Interest Affidavit
- l. Signed copy of the Cover Letter for each Addendum issued by MTA.
- m. Completed Insurance Cost Worksheet

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
001	01130	Mobilization	1	LS		
002	01210	Miscellaneous Work Allowance	1	ALL	ALL	\$2,000,000.00
003	01450	Quality Assurance and Quality Control	1	ALL	ALL	\$1,000,000.00
004	01500	Work Area Orange Plastic Safety Fence	5000	LF		
005	01523	Engineers Field Office Type 3	1	LS		
006	01523	Motor Vehicle	48	Month		
007	01550	Maintenance of Traffic	1	LS		
008	01570	Environmental Allowance	1	ALL	ALL	\$500,000.00
009	01900	Maintenance Building	1	LS		
010	02220	Site Demolition	1	LS		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
011	02315	Class 1A Excavation	4000	CY		
012	02315	Select Borrow Excavation	4000	CY		
013	02317	Aggregate Backfill	30	CY		
014	02317	Test Pit Excavation	5	CY		
015	02350	Pest Control	1	LS		
016	02370, 02372	Erosion and Sedimentation Control	1	LS		
017	02455	Pile Driving	38628	LF		
018	02455	Pile Tips	696	EA		
019	02455	Test Piles	333	LF		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
020	02455	Compression Pile Test	1	EA		
021	02510	Water Service	1	EA		
022	02530	Sanitary Sewer	1	EA		
023	02624	8 Inch Schedule 40 PVC	101	LF		
024	02624	10 Inch Schedule 40 PVC	12	LF		
025	02630	Reinforced Concrete 15" Storm Drain Pipe – Class IV	469	LF		
026	02630	Reinforced Concrete 18" Storm Drain Pipe – Class IV	323	LF		
027	02630	Reinforced Concrete Flow Splitter	3	EA		
028	02630	Reinforced Concrete Double Type S Inlet	4	EA		
029	02630	Reinforced Concrete STD COG Inlet	2	EA		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
030	02630	Reinforced Concrete 48" Dia. Manhole	7	EA		
031	02630	Reinforced Concrete 84" Dia. Manhole	1	EA		
032	02650	Sand Filter Facility	3	EA		
033	02720	Graded Aggregate Base	3215	TON		
034	02745	Hot Mix Asphalt Surface Course	632	Ton		
035	02745	Hot Mix Asphalt Base	1263	Ton		
036	02750	9.5" Concrete Pavement, Mix No. 7	1320	SY		
037	02770	Curbs and Gutters	4010	LF		
038	02775	Concrete Sidewalk Mix. No. 2	11100	SF		
039	02820	Ornamental Fence	1020	LF		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
040	02890	Signs	1	LS		
041	02920	Turf Establishment - Sod	581	SY		
042	02930	Trees	57	EA		
043	02930	Shrubs	305	EA		
044	02930	Groundcover	4335	EA		
045	02940	Green Screen Fence	1	LS		
046	09919	4 Inch Wide Solid White Pavement Marking Line (Paint)	3660	LF		
047	09919	4 Inch Wide Solid Yellow Pavement Marking Line (Paint)	2400	LF		
048	09919	4 Inch Wide Solid Blue Pavement Marking Line (Paint)	325	LF		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
049	09919	Solid Pavement Marking Arrow (Paint)	6	EA		
050	09919	Solid Pavement Marking Letter/Number (Paint)	30	EA		
051	09919	Solid Pavement Marking Accessible Parking Symbol (Paint)	6	EA		
052	10670	Pallet Rack	2	EA		
053	10670	Parts Storage Rack with Deck	3	EA		
054	10670	Pallet Rack with Deck	24	EA		
055	10670	Storage Shelving	70	EA		
056	10670	Flammable Material Cabinets	6	EA		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
057	10670	Modular Drawer Cabinet with 2 Shelves	20	EA		
058	10670	Storage Cabinet (Heavy Duty)	9	EA		
059	10670	Tire Storage Racks, Two Tier	11	EA		
060	10670	Cylinder Storage Cabinet	1	EA		
061	10670	Bin Units	3	EA		
062	10670	Recycling Bin	6	EA		
063	10670	SupplyBay Cabinet	1	LS		
064	10670	Supply Locker	1	LS		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
065	10670	Roller Battery Storage Bench	4	EA		
066	10670	Reel Rack	2	EA		
067	11510	Heavy Duty Work Bench with Vise	19	EA		
068	11510	Electrostatic Workbench with Vise	1	EA		
069	11510	Welding Table with Hood	1	EA		
070	11510	Shipping Table	1	EA		
071	11510	Hydraulic Hose Workbench	1	EA		
072	11520	Buffer/Grinder with Dust Collector – 8 inch	4	EA		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
073	11520	55 Ton Air Hydraulic Press	1	EA		
074	11520	Used Oil Filter Crusher	1	EA		
075	11520	Drill Press Variable Speed 15"	2	EA		
076	11520	Welder/Plasma Cutter	1	EA		
077	11520	Welder, Arc	1	EA		
078	11520	AC Repair Portable Platform	2	EA		
079	11520	Cylinder Lift Truck	2	EA		
080	11520	Cylinder Scale	2	EA		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
081	11520	Refrigerant Leak Detector	6	EA		
082	11520	Refrigerant Recovery System	4	EA		
083	11520	Vacuum Pump	4	EA		
084	11520	Nitrogen Tire Inflation System	1	EA		
085	11520	Table with Hydraulic Hose Cut-Off Machine	1	EA		
086	11520	Hydraulic Hose Crimper	1	EA		
087	11520	Diesel Fuel Caddy	2	EA		
088	11520	Portable Fume Exhauster	1	EA		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
089	11520	Portable Welding Curtain	1	EA		
090	11535	Parts Washer	1	EA		
091	11535	Small Parts Washer	7	EA		
092	13100	Air Terminals	105	EA		
093	13730	Power Supplies	12	EA		
094	13830	AI-Phone	1	LS		
095	13852	Smoke Detectors & Duct Smoke Detectors	20	EA		
096	13852	Strobe	10	EA		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
097	13852	Horn/Strobe Combination	35	EA		
098	13852	Pull Station	20	EA		
099	13852	Fire Alarm Control Panel	1	EA		
100	13852	Fire Alarm Annunciator Panel	1	EA		
101	14513	Forklift and Charging Station	1	EA		
102	14635	Fall Arrest System	15	EA		
103	16060	Ground Rods	67	EA		
104	16140	Duplex Receptacle	212	EA		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
105	16140	GFCI Receptacle	24	EA		
106	16140	Toggle Switch	140	EA		
107	16264	12KW UPS	2	EA		
108	16269	30 HP Variable Frequency Controllers	4	EA		
109	16269	40 HP Variable Frequency Controllers	4	EA		
110	16410	60 A Non-Fusible Safety Switch	10	EA		
111	16410	100 A Non-Fusible Safety Switch	10	EA		
112	16410	100 A Fusible Safety Switch	13	EA		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
113	16420	120V, 1-Pole, NEMA 0 Combination Starter	6	EA		
114	16420	480V, 3-Pole, NEMA 0 Combination Starter	2	EA		
115	16441	480V, 3-Phase, 2000A Switchboards	1	EA		
116	16442	150 AMP, 3-Pole, 208/120 VAC Panelboard	10	EA		
117	16442	200 AMP, 3-Pole, 480/277 VAC Panelboard	8	EA		
118	16442	300 AMP, 3-Pole, 480/277 VAC Panelboard	2	EA		
119	16442	400 AMP, 3-Pole, 480/277 VAC Panelboard	4	EA		
120	16442	500 AMP, 3-Pole, 480/277 VAC Panelboard	2	EA		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
121	16461	45 KVA 480 to 208/120 VAC Transformer	6	EA		
122	16461	75 KVA 480 to 208/120 VAC Transformer	1	EA		
123	16461	30 KVA 480 to 208/120 VAC Transformer	2	EA		
124	16461	15 KVA 480 to 208/120 VAC Transformer	2	EA		
125	16491	100A Fuses	27	EA		
126	16510	Type – A1 Luminaire	3	EA		
127	16510	Type – A2 Luminaire	7	EA		
128	16510	Type – A5 Luminaire	18	EA		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
129	16510	Type – A51 Luminaire	6	EA		
130	16510	Type – A6 Luminaire	28	EA		
131	16510	Type – A7 Luminaire	13	EA		
132	16510	Type – B1 Luminaire	22	EA		
133	16510	Type – B1A Luminaire	48	EA		
134	16510	Type – B1B Luminaire	57	EA		
135	16510	Type – B2 Luminaire	62	EA		
136	16510	Type – B4 Luminaire	4	EA		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
137	16510	Type – B5 Luminaire	16	EA		
138	16510	Type – C2 Luminaire	26	EA		
139	16510	Type – C3 Luminaire	23	EA		
140	16510	Type – C6 Luminaire	8	EA		
141	16510	Type – D2 Luminaire	11	EA		
142	16510	Type – D3 Luminaire	191	EA		
143	16510	Type – D3E Luminaire	6	EA		
144	16510	Type – EL4 Luminaire	7	EA		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
145	16510	Type – F Luminaire	9	EA		
146	16510	Type – G Luminaire	6	EA		
147	16510	Type – H Luminaire	1	EA		
148	16510	Type – I Luminaire	3	EA		
149	16510	Type – L6 Luminaire	4	EA		
150	16510	Type – L13 Luminaire	1	EA		
151	16510	Type – L14 Luminaire	1	EA		
152	16510	Type – L18 Luminaire	1	EA		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
153	16510	Type – M Luminaire	12	EA		
154	16510	Type – UC Luminaire	2	EA		
155	16510	Type – OA Luminaire	7	EA		
156	16520	Exterior Lighting	1	LS		
157	16717	Data Outlets	78	EA		

Basis of Award: The most favorable bid price submitted as the total amount of

items 001 thru 157 _____ (figures)

(words)

158		Insurance Premium (Contingency)	LS	LS	LS	
-----	--	---------------------------------	----	----	----	--

This amount will only be added to the base bid in the event that the bidder is excluded from the wrap-up insurance program or the program is terminated mid-term. The Insurance Premium Worksheet must be attached to the bid.

Investment Activities in Iran Act

State Finance & Procurement, §§17-701 – 17-707, Annotated Code of Maryland [Chapter 447, Laws of 2012].

A company listed on the Investment Activities In Iran list is ineligible to bid on, submit a proposal for, or renew a contract for goods and services with a State agency or any public body of the State. Also ineligible are any parent, successor, subunit, direct or indirect subsidiary of, or any entity under common ownership or control of, any listed company.

Agencies must obtain a certification regarding investments in Iran from each bidder or offeror for new contracts and from each contractor seeking to renew an existing contract. Specifically, bidders, offerors, and renewing contractors have to certify that at the time the bid/proposal is submitted or the contract renewed that the company is neither identified on the Investment Activities In Iran list nor engaging in investment activities in Iran.

A company that cannot make the certification must supply the agency, under penalty of perjury, with a detailed written description of its investment activities in Iran.

False Certifications: If an agency, using credible information, determines that a company has submitted a false certification regarding its investments in Iran, the agency must notify the company and provide the company 90 days to demonstrate in writing that it is not engaged in investment activities in Iran. If the company fails to demonstrate that it is not engaged in investment activities in Iran in that time, the agency shall report the company to the Attorney General and to the Board of Public Works.

MARYLAND TRANSIT ADMINISTRATION

CERTIFICATION REGARDING INVESTMENTS IN IRAN

1. The undersigned certified that , in accordance with State Finance & Procurement Article, §17-705:

- (i) it is not identified on the list created by the Board of Public Works as a person engaging in investment activities in Iran as described in §17-702 of State Finance & Procurement; and,
- (ii) it is not engaging in investment activities in Iran as described in State Finance & Procurement Article, §17-702.

2. The undersigned is unable to make the above certification regarding its investment activities in Iran due to the following activities:

I do solemnly declare and affirm under the penalties of perjury that the contents of this affidavit are true and correct.

Date: _____

Bidder/Offeror Name: _____

By: _____

Name: _____

Title: _____

LOCATION OF THE PERFORMANCE OF SERVICES DISCLOSURE

This document **must** be included with the bid or offer.

Pursuant to Md. Ann. Code, State Finance and Procurement Article, § 12-111, and in conjunction with the bid or offer submitted in response to Solicitation No. _____, the following disclosures are hereby made:

- 1. At the time of bid or proposal submission, the bidder/offeror and/or its proposed subcontractors:
 - ___ have plans
 - ___ have **no** plans

to perform any services required under the resulting Contract outside of the United States.

2. If services required under the contract are anticipated to be performed outside the United States by either the bidder/offeror or its proposed subcontractors, the bidder/offeror shall answer the following (attach additional pages if necessary):

- a. Location(s) services will be performed:

b. Reasons why it is necessary or advantageous to perform services outside the United States:

The undersigned, being an authorized representative of the bidder/offeror, hereby affirms that the contents of this disclosure are true to the best of my knowledge, information, and belief.

Date: _____

Bidder/Offeror Name: _____

By: _____

Name: _____

Title: _____

Please be advised that the Department may contract for services provided outside of the United States if: the services are not available in the United States; the price of services in the United States exceeds by an unreasonable amount the price of services provided outside the United States; or the quality of services in the United States is substantially less than the quality of comparably priced services provided outside the United States.

CONFLICT OF INTEREST AFFIDAVIT AND DISCLOSURE

A. "Conflict of interest" means that because of other activities or relationships with other persons, a person is unable or potentially unable to render impartial assistance or advice to the State, or the person's objectivity in performing the contract work is or might be otherwise impaired, or a person has an unfair competitive advantage.

B. "Person" has the meaning stated in COMAR 21.01.02.01B(64) and includes a bidder, offeror, contractor, consultant, or subcontractor or subconsultant at any tier, and also includes an employee or agent of any of them if the employee or agent has or will have the authority to control or supervise all or a portion of the work for which a bid or offer is made.

C. The bidder or offeror warrants that, except as disclosed in §D, below, there are no relevant facts or circumstances now giving rise or which could, in the future, give rise to a conflict of interest.

D. The following facts or circumstances give rise or could in the future give rise to a conflict of interest (explain in detail—attach additional sheets if necessary):

E. The bidder or offeror agrees that if an actual or potential conflict of interest arises after the date of this affidavit, the bidder or offeror shall immediately make a full disclosure in writing to the procurement officer of all relevant facts and circumstances. This disclosure shall include a description of actions which the bidder or offeror has taken and proposes to take to avoid, mitigate, or neutralize the actual or potential conflict of interest. If the contract has been awarded and performance of the contract has begun, the contractor shall continue performance until notified by the procurement officer of any contrary action to be taken.

I DO SOLEMNLY DECLARE AND AFFIRM UNDER THE PENALTIES OF PERJURY THAT THE CONTENTS OF THIS AFFIDAVIT ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF.

Date: _____ By: _____
(Authorized Representative and Affiant)

COLOR/KEY CODE

If answer is no, potentially reject on responsiveness or possibly responsibility. However certain mistakes may be subject to the provisions of GP 2.14 (mistake that may be corrected via confirmation of bid) or GP 2.15 (minor variation that may be corrected or waived).

If answer is yes, responsibility issue may be cured in certain instances. Otherwise the bidder may be rejected as not responsible. Consult with AAG for guidance.

Procurement Officer's Bid Check List

Date:
Bidder's Name:

Bid Content	Yes/No/NA
BID FORM (BF) and GP-2.06 General Compliance	
Did the bidder submit its bid upon the blank form(s) furnished by the Administration? (GP-206(a))	
Are all unit prices and extended prices present and recorded in dollars and cents to include the total amount of the bid (sum of items 001 thru 156)? Is line 157 Insurance Premium (Contingency) present and recorded in dollars and cents? (GP-206(a))	
Is the bid form filled out legibly in ink or typed? (GP-206(b))	
Is the bid form signed by an authorized individual with authority to bind the bidder? (GP-206(b))	
Did the bidder indicate it was not on the GSA list of Parties Excluded from Procurement and the State of MD list of Debarred Contractors? (BF, para 6) Note: Requires a web search to verify.	
Did the bidder show it will perform on site with its own organization 50% or more of the work under the contract? (BF, para 7)	
Did the bidder represent that it is or is not controlled by a parent company and if yes provided the name of the parent company? (BF, para 8)	
Did the bidder, if a foreign corporation, either provide a copy of its SDAT registration or certify that it would register? (BF, paras 10b and c) Note: Requires web search of SDAT web site to verify.	
BID BOND or INDIVIDUAL SURETY BID BOND (BF, para 12a and NTC, para 9)	
Is the Administration's Bid Bond Form (or Individual Surety Bid Bond) present? If an Individual Surety Bid Bond, are both the Affidavit of Individual Surety (Atch A) and the Surety Affidavit (Atch B) present in the bid?	
Is the Bond unaltered, completed and signed by the corporation and Surety?	
Is the Bid Bond or the Individual Surety Bid Bond equal to 5% of the total bid price?	
Is the Bid Bond Surety registered/authorized to do business in Maryland and approved by the Comptroller of Maryland to be a surety? Or if an Individual Surety Bid Bond, is the Documentation of Pledged Securities attached and the requirements specified therein met?	
Did the bidder submit another form of security satisfactory to the unit awarding the contract? Sections 13-207, 13-216, 17-104 of the State Finance and Procurement Article, Annotated Code of Maryland potentially apply.	
CONTRACTOR QUESTIONNAIRE (BF, para 12b)	
Is the questionnaire completed, signed by an authorized individual and notarized?	
Are there any responsibility issues revealed in the questionnaire? The Procurement Officer will look for any indication the bidder does not have the capacity to perform the contract or lacks the integrity and reliability to assure good faith performance and the project engineer will review to determine if the bidder's experience and capacity meet MTA requirements. (COMAR 21.06.01.01 and SGP-2.06.)	
BID/PROPOSAL AFFIDAVIT (BF, para 12c)	
Is the affidavit completed, dated and signed by an authorized individual with all blank spaces filled in?	
Are there disclosures in the affidavit, and if so, do the disclosures result in responsibility issues?	
BUY AMERICA CERTIFICATE (BF, para 12d)	
Is the Steel, Iron Or Manufactured Products Certificate Of Compliance With 49 U.S.C. 5323 (j)(l) completed and signed or does the bidder qualify for an exemption?	
APPENDIX, 49 CFR PART 20—CERTIFICATION REGARDING LOBBYING (BF, para 12e)	
Is the Lobbying Certification completed and signed?	
DBE REQUIREMENTS (BF, para 12f and g and FORMS A & B Instructions)	
Did the bidder submit with their bid a fully executed copy of the Certified DBE Utilization and Fair Solicitation Affidavit (MDOT DBE FORM A)?	
Is the DBE FORM A completed and signed by an authorized person?	

Procurement Officer's Bid Check List	
Date:	
Bidder's Name:	
Bid Content	Yes/No/NA
In Form A, did the bidder check in block 1 that the 30% goal will be met? (NTC, para 12C) Or	
Did the bidder check in block 1 that a waiver would be necessary?	
Did the bidder submit a fully executed copy of the DBE Participation Schedule (MDOT DBE FORM B), Part 2 and Part 3?	
Does the sum of all DBE percentages in Part 2 equal the DBE goal on FORM A? Are the DBE credited supplies 60% or less of the entire contract goal? (NTC, para 12D)	
Are all DBEs identified on Form B MDOT certified? (ALL DBE FIRMS MUST BE CERTIFIED BY THE MARYLAND DEPARTMENT OF TRANSPORTATION. NO OTHER CERTIFICATIONS WILL BE ACCEPTED.)	
DBE Forms C, D and Waiver are not required to be submitted with bid.	
LIABILITY INSURANCE REQUIREMENTS (BF, para 12l)	
Is the Insurance Cost Worksheet included with the bid?	
Are the coverages at least equal to the requirements in Exhibit B?	
Is the Insurance Cost Worksheet completed and signed by an authorized person?	
ADDENDA (NTC, para 7 and BF, para 12h)	
Bidders are required to acknowledge all addenda with their bid package. Is a signed copy of the Cover Letter for each Addendum issued by MTA included with the bid package?	
INVESTMENTS IN IRAN (BF, para 12j)	
Is the Certification completed, dated and signed?	
LOCATION OF PERFORMANCE OF SERVICES DISCLOSURE (BF, para 12k)	
Is the Disclosure completed, dated and signed?	
MERCURY AFFIDAVIT (BF, para 12i)	
Is the Affidavit completed, dated and signed?	
CONFLICT OF INTEREST AFFIDAVIT (BF, para 12m)	
Is the Affidavit completed, dated and signed?	
Are there any conflicts of interest reported?	
HIRING PLAN (BF, para 12n)	
Is the Hiring Plan, completed dated and signed?	
Is the Plan compliant with the goals IFB?	
CONFIDENTIAL, PROPRIETARY INFORMATION OR TRADE SECRETS (GP 2.06d and GP 2.13b)	
Bidders shall identify those portions of their bids which they deem to be confidential, proprietary information or trade secrets, if applicable. Did the Bidder have any confidential, proprietary information or trade secrets identified?	
If applicable, did the Bidder provide any justification of why such materials should not be disclosed by the State under the Maryland Public Information Act, Section 10-611 et seq. of the State Government Article of the Annotated Code of Maryland?	

GP 2.17(b) Reasons for rejection of a bid may include but are not limited to:	GP-2.19 BID EVALUATION AND AWARD
(1) The bid is not responsive i.e., it does not conform in all material respects to the solicitation.	(a) General. The Contract is to be awarded to the responsible and responsive bidder whose bid meets the requirements and evaluation criteria set forth in the Invitation for Bids, and is either the lowest bid price or lowest evaluated bid price.
(2) Unreasonable price;	(b) Determination of Lowest Bidder. Bids shall be evaluated to determine which bidder offers the lowest cost to the State in accordance with the evaluation criteria set forth in the Invitation for Bids. Except as otherwise provided under GP-2.14 Mistakes in Bids:
(3) The bidder submitting the bid is determined to be nonresponsive. A determination of nonresponsibility may be made for, but is not limited to, any of the following reasons:	(1) The unit price will govern in the event of a discrepancy between the unit price bid and the extended price (product of unit price multiplied by the quantity).
(a) Bidder debarred or ineligible and period of debarment or ineligibility not expired.	(2) The sum of the extended prices will govern in the event of a discrepancy between the total lump sum bid and the extended prices.
(b) The unit prices contained in a bid are unbalanced.	(3) The written words will govern in the event of a discrepancy between the prices written in words and the prices written in figures.
(c) Evidence of collusion among bidders.	(4) If a unit price has been omitted, the unit price will be determined by dividing the extended price by the quantity.

Procurement Officer's Bid Check List	
Date:	
Bidder's Name:	
Bid Content	Yes/No/NA
(d) Inadequate quantity and/or quality of experience, plant, equipment, financing, manpower or other resources required to perform the Contract.	The Administration reserves the right to make the award by item, or groups of items, or total bid if it is in the best interest of the State to do so unless the bidder specifies in his bid that a particular or progressive award is not acceptable.
(e) Bidder's workload which, in the judgement of the Administration, might hinder or prevent the prompt completion of the subject work if awarded.	(c) Award. Upon determination of the lowest bidder, review of the bid for responsiveness and satisfaction the bidder is responsible, the Contract may be awarded to that bidder. A Contract may be awarded to a bidder offering a higher quality item than that designated in the Invitation for Bids if that bidder is also the lowest responsive and responsible bidder.
SGP-2.06 COMPETENCY OF BIDDERS	
(f) Default by the bidder on other Contracts. (g) Failure to pay or satisfactorily settle all reasonable and just bills due for labor and material on prior or current Contracts.	Bidders shall furnish, with their bid, answers to questions contained in the Contractor's Questionnaire. Bids Submitted by Bidders with inadequate experience or capacity may be rejected by the Administration.
(h) The same person has an interest in more than one bid on a Contract exclusive of being named by another bidder as a subcontractor.	
(i) Failure to perform satisfactorily on other Contracts awarded, and the conditions leading to unsatisfactory performance remain unresolved.	
(j) Any other reason affecting the bidder's ability to perform, or record of business integrity.	
(k) Bidder not otherwise qualified and eligible to receive an award under applicable laws and regulations.	
(4) The bidder or offeror fails to supply information to the procurement officer promptly, after notification from the procurement officer that such information is required in connection with a determination to be made pursuant to this GP-2.17	

SECTION 01310**COORDINATION AND MEETINGS****PART 1: GENERAL****1.01 DESCRIPTION:**

- A. This Section describes the various administrative interfaces between the Contractor, the Administration and others.
- B. Related Work Specified Elsewhere:
 - 1. SECTION 01130 Construction Procedures
 - 2. SECTION 01150 Interface Requirements

1.02 UTILITY NOTIFICATIONS:

- A. Prior to performing excavation or grading at any location, contact the Utility Services Protection Center, "Miss Utility", 1-800-257-7777. This contact shall be made between the hours of 7:00 am and 5:00 pm, Monday through Friday, excluding holidays and at least forty-eight (48) hours in advance of the proposed work (7 days notice for known BGE facilities). No work shall be commenced until the utility companies affected have properly located their facilities to prevent damage thereto.

1.03 COOPERATION WITH OTHER CONTRACTORS:

- A. Pursuant to General Provisions Article GP-5.06, the Contractor shall confer with and coordinate through the Engineer, this Contract's work with that of all other contractors working in the project area. Subject to the Engineer's approval, the Contractor shall plan and execute construction operations in a manner that will afford these contractors maximum freedom of movement. The Contractor will be held responsible for extra costs incurred by other contractors as the result of any activity that delay or hinders their work.
- B. The Contractor shall cooperate with others while on adjoining or overlapping work as necessary. Such cooperation shall include:
 - 1. Arrangement and conduct of work.
 - 2. Storage and disposal of materials, etc., by each in such manner as to not interfere with or hinder the progress of the work being performed by other Contractors. Contiguous work shall be joined in an acceptable manner.

1.04 COORDINATION DRAWINGS

- A. Coordination Drawings among the Mechanical, Plumbing, Fire Protection and Electrical and any other trade Contractors are required with the lead role assigned to the General Contractor. These drawings will be developed in accordance with a schedule, which meets the Project Construction Schedule and is acceptable to the MTA Construction Engineer.
- B. The General Contractor shall prepare ¼ inch scale (or larger) drawings in electronic format, which shall integrate the Architectural and Structural work for the project. Upon these “in-process” Coordination Drawings the Trade Contractor shall draw the piping, ductwork, etc. for all areas to receive new work on this project.
- C. Once developed by the General Contractor, the coordination drawings will be circulated to all other Trade Contractors to review, input, integration, and coordination. The drawings will be maintained at the Contractor’s office for the purpose of eliminating/ minimizing interferences. The coordination drawings shall not be submitted with the shop drawings. Elevations and dimensions shall be indicated on these drawings for all ductwork, piping, equipment, light fixtures, sprinkler heads, etc.
- D. All work shall be concealed within spaces allocated and shall be integrated into the architectural and structural constraints of the project.
- E. During the Coordination Drawing process, the General Contractor will conduct regularly scheduled meetings, which Trade Contractors are required to attend. These meetings will discuss schedule and review the Coordination Drawings to resolve any interferences. Upon resolution, the Trade Contractors will initial any drawing modifications, signifying that they will install their work accordingly.
- F. Once developed, reviewed, and approved by each contractor, the General Contractor shall prepare a final reproducible Coordination Drawing, illustrating the work by all trades. Prior to giving coordination drawings to the MTA Construction Engineer, all Contractors will review and sign the drawings, signifying that he approves of the drawing and will install his work accordingly. The electronic drawings file and two (2) prints shall be forwarded to the Construction Manager. The MTA Construction Engineer will forward this drawing to the Architect for his records.

1.05 PROGRESS MEETINGS:

- A. Schedule and administer meetings throughout progress of the Work at weekly intervals, maximum.

- B. The Engineer will make arrangements for meetings, prepare agenda with copies for participants, preside at meetings, record minutes and distribute copies within two days to the Contractor, participants, and those affected by the decisions made.
- C. Attendance Required: Engineer, Job Superintendent, and major Subcontractors and suppliers, as appropriate to agenda topics for each meeting.
- D. Agenda: (to be modified by engineer as appropriate)
 - 1. Review of minutes of previous meetings.
 - 2. Review of Work progress.
 - 3. Field observations, problems and decisions.
 - 4. Identification of problems that may impede planned progress.
 - 5. Review of submittals schedule and status of submittals.
 - 6. Review of off-site fabrication and delivery schedules.
 - 7. Maintenance of progress schedule.
 - 8. Corrective measures to regain projected schedules.
 - 9. Planned progress during succeeding work period.
 - 10. Coordination of projected progress.
 - 11. Maintenance of quality and work standards.
 - 12. Effect of proposed changes on progress schedule and coordination.
 - 13. Other business relating to Work.

1.05 PRE-INSTALLATION CONFERENCE:

- A. General: Conduct a pre-installation conference at Project site before each construction activity that requires coordination with other construction.
 - 1. Attendees: Installer and representatives of manufacturers and fabricators involved in or affected by the installation and its coordination or integration with other materials and installations that have preceded or will follow, shall attend the meeting. Advise Architect and Construction Manager of scheduled meeting dates.

2. Agenda: Review progress of other construction activities and preparations for the particular activity under consideration, including requirements for the following:
 - a. The Contract Documents.
 - b. Options.
 - c. Related requests for interpretations (RFIs).
 - d. Related Change Orders.
 - e. Purchases.
 - f. Deliveries.
 - g. Submittals.
 - h. Review of mockup of field sample.
 - i. Possible conflicts.
 - j. Compatibility problems.
 - k. Time schedules.
 - l. Weather limitations.
 - m. Manufacturer's written recommendations.
 - n. Warranty requirements.
 - o. Compatibility of materials.
 - p. Acceptability of substrates.
 - q. Temporary facilities and controls.
 - r. Space and access limitations.
 - s. Regulations of authorities having jurisdiction.
 - t. Testing and inspecting requirements.
 - u. Installation procedures.
 - v. Coordination with other work.
 - w. Required performance results.

- x. Protection of adjacent work.
- y. Protection of construction and personnel.
- 3. Record significant conference discussions, agreements, and disagreements, including required corrective measures and actions.
- 4. Reporting: Distribute minutes of the meeting to each party present and to parties who should have been present.
- 5. Do not proceed with installation if the conference cannot be successfully concluded. Initiate whatever actions are necessary to resolve impediments to performance of the Work and reconvene the conference at earliest feasible date.

1.06 COMMUNITY MEETINGS:

- A. Contractor shall make a representative available for community meetings, one per month, in the evening for duration of the contract.

PART 2: PRODUCTS**NOT USED****PART 3: EXECUTION****NOT USED****PART 4: MEASUREMENT AND PAYMENT****4.01 COORDINATION AND MEETINGS:**

- A. Coordination and Meetings will not be measured for payment.
- B. Coordination and Meetings will not be paid for directly, but will be considered incidental to the appropriate work item.

END OF SECTION

SECTION 02750**REINFORCED CONCRETE PAVEMENT****PART 1: GENERAL****1.01 DESCRIPTION:**

- A. This Section specifies the installation of exterior reinforced concrete pavement for the building aprons.
- B. Reinforced concrete pavement shall include:
 - 1. Furnishing and installing aggregate base course
 - 2. Furnishing and installing concrete forms
 - 3. Furnishing and installing reinforcing steel
 - 4. Furnishing and installing structural concrete
 - 5. Performing concrete finishing work
 - 6. Controlling concrete curing
- C. Related work specified elsewhere:
 - 1. Aggregate Base Course: Section 02720
 - 2. Concrete Reinforcement: Section 03210
 - 3. Cast-In-Place Concrete: Section 03300

1.02 QUALITY ASSURANCE:

- A. The following codes, regulations, referenced standards and specifications apply to the work included in this Section:
 - 1. American Concrete Institute (ACI):
 - a. ACI 347 "Recommended Practice for Formwork"
 - b. ACI 315 "Manual of Standard Practice for Detailing Reinforced Concrete Structures"

- c. ACI 306R “Cold Weather Concreting”
 - d. ACI 305R “Hot Weather Concreting”
 - e. ACI 304R “Guide for Measuring, Mixing, Transporting and Placing Concrete”
 - f. ACI 226.3R “Use of Fly-Ash in Concrete”
2. American Society for Testing and Materials (ASTM):
- a. ASTM A36/A36M, A153/A153M, A184/184M, A615/615M, A653/653M, A663/663M, A706/A706M, A775/A775M
 - b. ASTM C31/C31M, C33/C33M, C39/C39M, C42/C42M, C78/C78M, C150/C150M, C172/C172M, C173/C173M, C231/C231M, C260/C260M, C494/C494M, C618, C920
 - c. ASTM D1751, D1752, D2240, D3575
3. American Plywood Association (APA) – APA Engineered Wood Handbook and Grade Glossary
4. U.S. Department of Commerce Product Standards – PS-1-09 for Construction and Industrial Plywood
5. Western Wood Products Association – WWPAA Western Lumber Product Use Manual

1.03 SUBMITTALS:

- A. All submittals shall be made in accordance with Section 01300, Submittals
- B. Submittals for cast-in-place concrete shall be in accordance with Section 03300, Cast-In-Place Concrete
- C. Submittals for concrete reinforcement shall be in accordance with Section 03200, Concrete Reinforcement
- D. Submittals for concrete shall be in accordance with Section 03050, Portland Cement Concrete

PART 2: PRODUCTS

2.01 AGGREGATE: Section 02722, Aggregate Base Course

- 2.02 **FORMWORK:** Section 03300, Cast-In-Place Concrete
- 2.03 **CONCRETE REINFORCEMENT:** Section 03210, Reinforcing Steel - All reinforcement shall be epoxy coated
- 2.04 **CONCRETE:** Section 03050, Portland Cement Concrete
- 2.05 **JOINT SEALANTS:** Section 03300, Cast-In-Place Concrete
- 2.06 **CURING MATERIALS:** Section 03300, Cast-In-Place Concrete

PART 3: EXECUTION

- 3.01 **AGGREGATE BASE COURSE:** Section 02722, Aggregate Base Course
- 3.02 **FORMWORK:** Section 03300, Cast-In-Place Concrete
- 3.03 **REINFORCEMENT INSTALLATION:** Section 03210, Concrete Reinforcement
- 3.04 **CONCRETE PLACEMENT:**
 - A. Place concrete in accordance with Section 03300, Cast-In-Place Concrete
- 3.05 **CONCRETE FINISHING:**
 - A. Finish shall be a broom finish in accordance with Section 03300, Concrete Finishes.
- 3.06 **CURING:** Section 03300, Cast-In-Place Concrete

PART 4: MEASUREMENT AND PAYMENT

- 4.01 **9.5" CONCRETE PAVEMENT, MIX NO. 7:**
 - A. 9.5" Concrete Pavement, Mix No. 7 will measured for at the contract unit price bid per square yard..
 - B. 9.5" Concrete Pavement, Mix No. 7 will be paid per square yard, complete in place, accepted, which price will be full compensation for all material, equipment, tools, labor and all work incidental to complete the item as specified.

END OF SECTION

SECTION 10536**CANOPIES****PART 1 - GENERAL****1.01 RELATED DOCUMENTS**

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

1.02 SUMMARY

- A. Section Includes:

- 1. Prefabricated metal canopies

- B. Related Requirements:

- 1. Section 05500 "Metal Fabrications" for blocking, shims, reinforcing, and supplemental support members for connecting to awning frame and anchorage.

1.03 ACTION SUBMITTALS

- A. Product Data: For each type of product.

- 1. Include styles, material descriptions, construction details, fabrication details, dimensions of individual components and profiles, hardware, fittings, mounting accessories, features, and finishes for canopies.
 - 2. Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories.

- B. Shop Drawings:

- 1. Include plans, elevations, sections, mounting heights, and attachment details.
 - 2. Detail fabrication and assembly of canopy.
 - 3. Include diagrams for power, signal, and control wiring.
 - 4. Show locations for blocking, reinforcement, and supplementary structural support.

- C. Samples: For each exposed product and for each color and texture specified.

1.04 INFORMATIONAL SUBMITTALS

- A. Evaluation Reports: For anchors and fasteners, from ICC-ES.
- B. Sample Warranty: For special warranty.

1.05 CLOSEOUT SUBMITTALS

- A. Operation and maintenance data.

1.06 WARRANTY

- A. Special Warranty: Manufacturer and fabricator agree to repair or replace components of canopy that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures including framework.
 - b. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 - 2. Canopy Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS**2.01 PERFORMANCE REQUIREMENTS**

- A. General: Metal roof panels shall comply with performance requirements without failure due to defective manufacture, fabrication, installation, or other defects in construction.
- B. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes.
 - 1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.
- C. Wind Loading: Refer to Structural Drawings for ASCE 7 -02 wind loading design requirements for canopy system.

2.02 CANOPY

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Super Lumideck Hanger Rod Canopy, Mapes Canopies Lincoln, NE or comparable product by one of the following:
1. Perfection Architectural Systems, Orlando, FL.
 2. Queen City Awing, Cincinnati, OH.
- B. Source Limitations: Obtain canopy from single source from single manufacturer.
- C. Aluminum: Alloy and temper recommended by canopy manufacturer for type of use and finish indicated and with not less than the strength and durability properties of alloy and temper required by structural loads.
1. Plate and Sheet: ASTM B 209 (ASTM B 209M).
 2. Extrusions: ASTM B 221 (ASTM B 221M).
 3. Finish: Two-coat fluoropolymer.
 - a. Color: Match Architect's samples.
- D. Decking:
1. Material: Extruded aluminum, alloy 6063-T6.
 2. Profile and: 3 inch flat soffit panel.
 3. Thickness: Minimum 0.078 inch.
- E. Fascia:
1. Material: Extruded aluminum, alloy 6063-T6,
 2. Profile: 8 inch vertical dimension and as shown on Drawings
 3. Thickness: Minimum 0.125 inch.
- F. Downspout:
1. 1. Refer to Section 07620 – Sheet Metal Flashing and Trim for downspout profile and size.
 2. Formed from same material as roof panels. Fabricate in 10-foot- long sections, complete with formed elbows and offsets. Finish downspouts to match canopy.
- G. Hanger Rods, Anchors, Fasteners, Fittings, Hardware, and Installation Accessories:
1. General:
 - a. Complying with performance requirements indicated and suitable for exposure conditions, supporting structure, anchoring substrates, and installation methods indicated.
 - b. Corrosion-resistant or noncorrodible units; weather-resistant, compatible, nonstaining materials. Provide as required for awning assembly, mounting, and secure attachment.

- c. Number as needed to comply with performance requirements and to maintain uniform appearance; evenly spaced.
 - d. Where exposed to view, provide finish and color to match Architect's sample.
 2. Hanger Rods:
 - a. Material: ASTM A 53/A53M, Grade B Schedule 40.
 - b. Schedule 40 steel pipe
 - c. Finish: Powder coated to match canopy.
 3. Anchors:
 - a. Rods ASTM F1554, Grade 55.
 - b. Bolts, Nuts, and Washers: ASTM A 325 (ASTM A 325M).
 - c. Eyebolts: ASM A489.
 - d. Plates: ASTM A36/A36M.
 - e. Finish: Hot-dip or mechanically deposited, zinc-coated anchor bolts.
- H. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D 1187.
- I. Fabrication:
1. General: Preassemble canopy frames in the shop to greatest extent possible. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.
 - a. Form exposed work true to line and level with accurate angles and surfaces and straight edges.
 - b. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners where possible. Fabricate slip-fit connections that will be exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.
 - c. Provide for anchorage of type indicated; coordinate with supporting structure. Space anchoring devices to secure metal fabrications in place and to properly transfer loads.
 - d. Utilize conceal fasteners and expansion provisions where possible. Exposed fasteners are not allowed on faces of accessories exposed to view.
 - e. Decking: Interlocking extruded aluminum members with mechanical fasteners to provide structural integrity for a completed assembly.
 - f. Concealed Drainage. Drain from covered surfaces into integral rear gutter and directed to ground level discharge via downspout.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. General: Install canopy at locations and in position indicated, securely connected to supports, free of rack, and in proper relation to adjacent construction. Use mounting

methods of types described and in compliance with Shop Drawings and fabricator's written instructions.

- B. Install canopy after other finishing operations, including joint sealing and painting, have been completed.
- C. Slip fit frame connections accurately together to form hairline joints, and tighten to secure.
- D. Anchoring to In-Place Construction: Use anchors, fasteners, fittings, hardware, and installation accessories where necessary for securing canopy to structural support and for properly transferring load to in-place construction.
- E. Corrosion Protection: Coat concealed surfaces of aluminum that come in contact with grout, concrete, masonry, wood, or dissimilar metals with a heavy coat of bituminous paint.
- F. Coordinate awning installation with flashing and joint-sealant installation so these materials are installed in sequence and in a manner that prevents exterior moisture from passing through completed exterior wall and roof assemblies.

PART 4: MEASUREMENT AND PAYMENT

4.01 CANOPIES:

- A. Canopies will not be measured for payment.
- B. Canopies will not be paid directly, but will be included in the lump sum bid price for the Maintenance Building.

END OF SECTION

SECTION 14450**VEHICLE LIFTS****PART 1 GENERAL****1.01 DESCRIPTION:**

- A. Section Includes:
1. This Section specifies furnishing, installing and testing portable lifts. Provide necessary labor, services, and incidental required for complete equipment installations.
 2. In-ground lift shall be capable of lifting all of the vehicles in the Owner's fleet including cars, trucks, vans, and buses with a maximum dimensions of 730 inches long by 102 inches wide and up to 66,790 pounds.
- B. Related Documents:
1. Drawings, MTA General Provisions for Construction Contracts, Supplementary General Provisions and Division 1 specification sections apply to the work of this section.
- C. Related Sections:
1. Section 01780 –Close Out.
 2. Section 01600 – Products.
 3. Section 11005 – Basic Equipment Materials and Methods.
 4. Division 15 - Mechanical.
 5. Division 16 - Electrical.

1.02 QUALITY ASSURANCE/QUALITY CONTROL:

- A. The manufacturer shall guarantee the lifts' compliance with all applicable provisions set forth by ALI ALCTV "Standard for Automotive Lifts – Safety Requirements for Construction, Testing and Validation".
- B. The manufacturer shall certify that the vehicle lift installer has satisfactory past experience in the installation of equipment of the type specified herein. Manufacturer's certification shall include the following items:
1. A letter certifying that the proposed vehicle lift installer has

submitted satisfactory evidence that the installing firm has had successful past experience in the installation of similar equipment in the past 2 years.

2. Provide a list of a minimum of three locations where similar equipment installed by the proposed vehicle lift installer is in service, including the duration of service.
3. Provide the name of a person contacted by the manufacturer at each installation location referred to above, who is familiar with the operation and maintenance of the vehicle lift equipment. Include a brief synopsis of conversation regarding lift operation and maintenance.

C. Construction Conditions and Coordination:

1. Before submitting bid, review the Contract Documents and become thoroughly familiar with the conditions affecting the work. No additional compensation will be granted due to extra work made necessary by his failure to investigate such conditions.
2. Prior to initiating work specified in this Section examine all work prepared by other trades to receive the work of this Section and report any defect affecting installation to the Engineer for correction. Commencement of work will be construed as complete acceptance of preparatory work by other trades.
3. Plan installation of new work and connections to any existing work if applicable to insure minimum interference with other Work of the Contract.
4. The Work shall be carried out in accordance with actual field requirements and shall not depend on the extent of details shown on plans.
5. Verify the critical building dimensions associated with the equipment prior to final fabrication and installation of the equipment.
6. Coordinate the fabrication and installation of the equipment with the other Work of the Contract and schedule so that there will be no delay in the proper installation and completion of any part or part of each respective work task wherein it may be interrelated with that of this Contract so that generally all construction work can proceed in its natural sequence without unnecessary delay.
7. Examine all Contract Drawings relating to this Project, and verify

all governing conditions at the site and become fully informed as to the extent and character of the work required and its relation to other work in this Project. No consideration will be granted for any alleged misunderstanding of the materials to be furnished for work to be done.

D. References:

1. Automotive Lift Institute [ALI].
 - a. ALI ALCTV, Standard for Automotive Lifts - Safety Requirements for Construction, Testing and Validation.
2. National Electrical Manufacturers Association (NEMA).
3. Underwriter Laboratories, Inc. (UL).
4. National Electrical Code (NEC).
5. Institute for Electrical and Electronics Engineers, Inc. (IEEE).
6. American National Standards Institute (ANSI).
7. American Bearing Manufacturers Association (ABMA).

1.03 SUBMITTALS:

- A. Submit shop drawings, catalog cuts and all manufacturer's data covering all equipment covered in this section. If submitting catalog cuts, assure that the models specified or submitted are highlighted or underlined. No generic information will be accepted. Submit the following for review and approval:
1. Shop drawings.
 2. Product data.
 3. Installation Instructions.
 4. Operations and maintenance manuals.
- B. Shop Drawings: Shop drawings shall consist of the following as applicable:
1. Layout drawings showing equipment layout, elevations, conduit runs, utility layout and hook-ups, and all required dimensions.
 2. Detail drawings.

3. Foundation and structural support drawings including anchor bolt plan and elevation.
 4. Utility connection plan.
 5. Electrical control diagram.
 6. Electrical equipment layout, with all motors, limit switches, solenoid valves, disconnects, control panels, etc. located and labeled.
 7. Piping systems including pipe routing, sizing, valving, etc. fully noted and scheduled.
- C. Product Data: Manufacturer's literature including catalog cuts, pamphlets, descriptive literature, equipment specifications, performance and test data, and brochures which adequately describe the piece of equipment or product. Provide sufficient product and preventive maintenance information to properly address each equipment item and all major components installed to the maximum extent possible during the equipment submittal and approval phase of the project.
- D. Installation Instructions: Manufacturer's recommended installation instructions and manufacturer's installation drawings.
- E. Operations and Maintenance Data:
1. In accordance with Section 01780 and 11005.

1.04 TRAINING PROGRAM:

- A. In accordance with Section 01780 and 11005.

1.05 GENERAL DESIGN AND FABRICATION REQUIREMENTS:

- A. Equipment shall be designed, fabricated, installed and adjusted to secure the best commercially available results with respect to smooth, quiet, convenient and efficient operation, durability, economy of maintenance and operation, and the highest standards of safety.
- B. It is not the intent of these Specifications to detail the design and fabrication of the various parts of the equipment, but is expected that the type, material, design, workmanship and fabrication of each part shall be fully adequate for the service required, durable, properly coordinated with all other parts, in accordance with the best commercial standards and of the highest commercial efficiency. The components of electric circuits shall be of ample and proper size, design and material to avoid injurious

heating and arcing, and all other objectionable effects which may reduce the efficiency of operation and economy of maintenance and upkeep below the best commercially available results. Minimum requirements are given herein for the certain parts of equipment. Equivalent requirements approved by the Engineer shall apply to such parts as are of special design, construction or material and to which the specified requirements are not directly applicable. These minimum requirements as a whole shall also be considered as establishing proportionate general minimum standards for all parts of the equipment.

- C. The Engineer may permit variations from the requirements of these Specifications to permit the use of the manufacturer' standard equipment, provided that in his opinion such standard equipment is in every way adequate for the intended use and meets the full intent of these Specifications. All proposed variations shall be called to the attention of the Engineer in writing and shall be made only if approved in writing.
- D. Certain design limitations and tests are herein specified as a partial check on the adequacy of design, fabrication, and materials. These requirements do not cover all features necessary to insure satisfactory and approved operation of the equipment. Conformity with these requirements shall, in no way, supersede the general requirements as to satisfactory and efficient operation of the equipment.

1.06 SHOP PAINTING:

- A. Equipment shall be given one shop prime coat of approved rust-inhibitive paint containing at least 50 percent rust-inhibitive pigments and manufacturer's standard finish coat system. Shop drawings shall indicate brand and type of paints.

1.07 ELECTRICAL REQUIREMENTS:

- A. Power supply for equipment shall be 480 volts, 3-phase, 60 hertz unless otherwise specified.
- B. Provide transformers for equipment as required to step down the specified supply voltage to provide lower voltage for controls and accessories and to provide voltage compatible with equipment as required.
- C. Wiring shall be provided for complete installation of all equipment and accessories and shall be adequate for proper operation of equipment. Provide a disconnect switch for each equipment item requiring electric power; disconnect switch shall meet requirements of the respective equipment item manufacturer. Permanently label each disconnect switch to identify corresponding equipment item; labeling method shall be subject to

approval of the Engineer. Power wiring to line side of disconnect switch will be provided through work outside this contract. Contractor/supplier shall make connection to secondary side of disconnect switch and provide all wiring and conduit from this point, including wiring to controllers and starters. Provide 480 volt equipment with electric fusible disconnecting means, sized and fused as required for each equipment item. All disconnect switches shall be fused with 100,000 amp limiter fuses. Provide 120 volt equipment with electric thermal overload disconnect means sized as required for each equipment item. Wire and cable for light, power and signal circuits shall conform to those specified in the NEC. In no case shall maximum current carried exceed that specified by National Electrical Code for type of conductor used. Provide conduit where required; all wiring and conduit shall be in accordance with the requirements of NEC. Wiring and conduit for power shall be provided to all equipment from power connection sources within the building. See building drawings for power connection sources provided.

D. Motors:

1. Motors shall be high efficiency motors each bearing the UL label and constructed to standard of NEMA, IEEE, ANSI, and ABMA.
2. Motors shall be suitable for operation on the electrical service indicated.
3. There shall be no open motors provided. Motors shall be totally enclosed or drip-proof.
4. Provide motors with epoxy encapsulated insulation for severe usage in a corrosive atmosphere.
5. Motors rated one horsepower or greater shall have a full-load power factor of 85 percent or higher. Motors rated 25 horsepower and over shall be designed for reduced voltage starting. All motors shall be of the highest energy efficiency design available for the application.
6. 60 hertz unless otherwise specified.

E. Provide transformers for equipment as required to step down the specified supply voltage to provide lower voltage for controls and accessories and to provide voltage compatible with equipment as required.

1. Electrical enclosures to be NEMA 12 for indoor units and NEMA 4 for outdoor units unless otherwise noted on the Contract Drawings.

2. Starters shall be complete with two sets of auxiliary contacts; one set normally open; one set normally closed.
 3. For motors 25 HP or greater, provide solid state type reduced voltage starters.
- F. Control devices necessary for proper operation shall be provided and shall be located to permit efficient operation of the equipment, and where possible shall be grouped in a factory-fabricated approved control panel.
- G. Switches, lights and control functions shall be identified with legend decals.

1.08 GASKETS AND FASTENERS:

- A. Provide new gaskets wherever gasketed mating equipment items or pipe connections have been dismantled. Gaskets shall be in accordance with manufacturer's recommendations.
- B. Replace all assembly bolts, studs, nuts and fasteners of any kind which are bent, flattened, corroded, or have their threads, heads or slots damaged.
- C. Furnish all bolts, studs, nuts and other fasteners for make-up of all connections to equipment and replace any of these items damaged in storage, shipment or moving.

1.09 EQUIPMENT:

- A. Equipment, machinery and materials shall be as specified in this section.
- B. Equipment shall be factory-finished with manufacturer's standard primer and finish coats of paint.
- C. All piping, valves, fittings, conduits and wiring required for the equipment installation shall be in accordance with the applicable portions of the overall construction contract, except where specified by the Equipment Specification.

1.10 HOLES, OPENINGS AND INSERTS:

- A. Provide holes and openings in floors, walls, ceilings and roofs as required.
- B. Core drill holes in existing concrete and masonry work using dustless method. Install concrete inserts and flashings as required. Grout in holes in walls, floor and roof slabs after installation of equipment, and leave them in a completely neat and sealed condition.
- C. Repair holes in non-masonry surfaces to match existing materials. Seal

with appropriate matching materials.

- D. Paint or coat repaired match existing adjacent surfaces.

1.11 SETTING AND ALIGNING EQUIPMENT:

- A. Equipment shall be set and aligned in accordance with manufacturer's recommendations, approved shop drawings and applicable standards of trade practice.
- B. Equipment shall be set true and level. Demonstrate adequate leveling of installed equipment.
- C. Re-tighten bolted connections after installation.

1.12 CLEANING AND PROTECTION

- A. Clean fabricated assemblies and equipment items thoroughly before and after operating and testing.
- B. Protect equipment from damage, deterioration, paint or coating spills or spots, corrosion, or harm from any source.

1.13 CONCRETE FOUNDATIONS:

- A. Provide concrete foundations for equipment as indicated on the Contract Drawings or as specified herein.
- B. Concrete and reinforcement shall conform to manufacturer's suggested installation or all required governing codes.
- C. Provide anchor bolts as required for equipment to be mounted.
- D. Provide grouting as necessary to stabilize equipment bases to concrete foundations.

1.14 MOTORS AND DRIVES:

- A. Motors and drives shall be checked carefully for correct rotation and alignment before placing equipment into operation.
- B. Couplings shall be disconnected and realigned before placing into service or testing.
- C. Belt drives shall be adjusted and worn belts replaced in sets. Speed adjustment shall be subject to approval of the Engineer.

1.15 INSPECTION:

- A. Work will be inspected by the Engineer periodically during the course of construction.
- B. Provide for inspections by all other trades having jurisdiction over the work performed during the progress of the work.
- C. At time of final inspection, furnish certificates of final approval by all those having jurisdiction as applicable.

1.16 FIELD PAINTING:

- A. Field painting equipment, including touch-up painting, if any, is included under this Section of Specifications. Normally, equipment shall be factory-finished as previously specified.
- B. Where factory finishes are provided on equipment and no additional field painting is specified, all marred or damaged surfaces shall be touched up or refinished so as to leave a smooth, uniform finish matching the factory finish.

1.17 PRODUCT DELIVERY, STORAGE, AND HANDLING:

- A. Deliver, store, and handle products without damaging them.
 - 1. Receive, unload, check, protect, and store equipment in facilities suitable to keep it clean, dry, and free from damage, vandalism, and pilferage.
 - 2. Pay demurrage charges and claims for damage resulting from unloading operations.
 - 3. Examine equipment for visible and concealed damage. Report any damage to carrier, supplier, and the Engineer as soon as possible.
- B. Protect equipment from loss, deterioration, and damage until work is complete.
 - 1. Protect installed equipment prior to start-up and Final Acceptance.
 - 2. Protect exposed finished surfaces with removable coating or film, cover openings to exclude dirt and fouling materials, and protect unfinished surfaces against rust, corrosion, and other damage.
 - 3. Protect equipment from paint or coating spills and spots.

1.18 WARRANTY:

- A. Manufacturer shall warrant all equipment including parts and labor for a period of two (2) years from date of acceptance.
- B. Contractor shall provide written documentation from the manufacturer that warranty service will be available at the delivery location(s) by a dealership franchised by the manufacturer. Service shall be provided within 24 hours after notification from the Owner.
- C. Parts shall be available from a dealership franchised by the manufacturer. The dealership shall normally stock all consumables and parts that could reasonably be expected to fail during normal use of the lift.

PART 2 PRODUCTS**2.01 PORTABLE BUS LIFTS (SET OF 4 OR 6):**

- A. Equipment Item Number:
 - 1. MB-2 Portable Bus Lifts 4 Post: 36 Plug In Units required.
 - 2. CW-3 Portable Bus Lifts 6 Post: 12 Plug In Units required.
- B. Acceptable manufacturers:
 - 1. Products of the following manufacturer are the standard of quality for the portable bus lifts:
 - a. Steril-Koni USA, Inc.
200 Log Canoe Circle
Stevensville, MD 21666
Telephone: (800) 336-6637 or (410) 643-9001
Email: request info (lifts@steril-koni.com)
 - 2. Products of equal quality and utility of other approved manufacturers will be accepted.
- C. Requests for substitutions
 - 1. Will be considered in accordance with provisions of Section 01600.
 - 2. Requests for changes on products, materials, equipment and

methods of construction required by the contract documents by the Contractor after the award shall be considered requests for "substitutions", and shall follow the procedures outlined within the bid documents for Substitutions.

3. Any substitution of specified lift requiring modifications of foundation system detailed will be the responsibility of the Contractor.
4. The Contractor shall provide for any and all engineering and redesign of foundation system as a result of substitution.
5. Under no circumstances will extra payment be permitted as a result of additional work to accommodate any equipment substitution.

D. General Description

1. The lift system shall consist of four (4) or six (6) portable wheel engaging type lift stations with tire contact adapters, and operating controls.
2. Lift shall be capable of handling all vehicles in Owner's fleet.
3. The base frame of the lifting column shall be of a rectangular design with mitered rear corners to permit a narrow turning radius. The contact pattern to the foundation under the column shall be triangular in design to ensure uniform contact with the lifting foundation.

E. Lifting Capacity:

1. Each column shall have a nominal rated capacity of 18,000 lbs. per jack.
2. Lifting and Column Height:
 - a. The achieved lifting height of the column shall be no less than 69 inches when measured from the foundation on which the column rests to the bottom of the lifting fork.
 - b. Column height shall not be greater than 102 inches when fully collapsed and 143.5 inches when the carriage has achieved maximum height.
3. Tire Size:
 - a. Wheel contact forks shall freely accept tires with rim

diameters between R 17 and R 22.5 without modification. Optional reduction sleeves shall be available to narrow the contact forks to allow the lifting of tires with smaller rim diameters. With the installation of one reduction sleeve the operator shall have the ability to lift vehicles with rim diameters between R15 and R17.

4. Pallet Jack Mechanism:
 - a. The pallet jack mechanism shall have a gas shock incorporated into its design which will dampen the impact of floor deviations experienced while the column is relocated as well as to prevent damage to the pallet jack mechanism from overloading.
 - b. The gas shock will ensure that the column settles to the lifting foundation if the operator neglects to release the pallet jack before rising.
 - c. Pallet jack mechanisms that do not incorporate a gas shock to protect the operator and column shall be unacceptable.
5. Wheels:
 - a. The column shall be fitted with fixed front roller wheels fabricated from oil impregnated nylon so as to be non-destructive to the foundation on which the column rests. Columns that utilize steel roller wheels shall not be acceptable.
 - b. Floor pressure at the front roller wheel location shall be no greater than 7000 psi.
6. Controls:
 - a. The various functions of the mobile lifting system shall be initiated from the control panels on the columns.
 - b. Each control box (primary and secondary) shall at a minimum:
 - i. An "up" button.
 - ii. A "down" button.
 - iii. PCB-printed circuit board.

- iv. Motor relays.
 - v. Transformer for all voltages with 24 VDC output for the control circuit.
 - vi. Reserve fuses.
 - vii. Connectors for communication cables with hinged sealing caps fitted with gaskets.
 - viii. Lock to prevent unauthorized entry into box.
 - ix. A "select" button to initial start up and column selection.
 - x. LEDs to illustrate single, all or pair operation as well as fault condition.
 - xi. A "lock release" button.
 - xii. A "slow (turtle)" initiate button for slowed lowering.
- c. Each control panel designated as the primary shall contain the following as a minimum:
- i. Input power supply cable.
 - ii. Main power switch.
- d. The control panel of each column shall be fitted with a button that displays a turtle. The function of the turtle button shall be so that the operator can initialize the system to lower at a reduced speed to aid in the placement of support stands and the installation of under vehicle components.
- e. Each column shall be fitted with an individual analog height measuring device. This height measuring device shall ensure that the height of each column in the set remains synchronized at the height initiated by the operator. The height measuring device shall also allow, through single operation, that the operator can raise any column to its individual maximum height.
- f. The electrical connection of the communication cables of the lifting system shall be a closed loop. The control system

shall immediately disconnect the high voltage that is transmitted through the communication cables at the instant that the communication loop is opened.

- g. Interconnecting communication cables shall be of a heavy-duty type with a minimum diameter of 0.75 inch. The construction of the cable shall incorporate an outer oil resistant jacket covering a layer of interlocking steel braids over another layer of insulation, all of which encase the individually insulated conductors. The cable shall be design to withstand being drive over occasionally with pneumatic tires. Any communication cable that will not withstand pneumatic tire traffic without suffering damage is not unacceptable.
 - h. Control panel shall be rated IP 65. . Control panels that do not meet IP 65 standards are unacceptable.
7. Drive Mechanism:
- a. The drive system shall be hydraulic and shall permit lifting without any pulsation, jerks, or unsteady lifting. Lifting shall be smooth. The hydraulic power unit shall be an electrically-powered pump, flow control valves, and a fluid reservoir.
 - b. Lifting carriage shall ride on durable oil filled nylon guide rollers. Guide rollers shall require no lubrication and no maintenance. Guide rollers made of hard steel or any other steel type shall not be accepted. Also carriages that operate with a sliding blocks system shall be unacceptable.
 - c. Each hydraulic cylinder shall be equipped with a hose burst check valve to prevent decent in the event of a major fluid leak.
8. Safety Devices:
- a. An independent and fail-safe mechanical locking system shall be present on each column. This safety device shall be totally independent from the lifting drive system. Systems that utilize non-load bearing "safety nuts" shall not be acceptable since they are integrated with the lifting drive itself.
 - b. Increments on lifting carriage locking profile shall not be greater than 1.375 inches and the first locking position shall

engage after no more than five inches of lifting. Columns with locks that engage above five inches are not acceptable.

F. Power Requirements

1. Motor - 440 volt, 3-phase, 60 hertz. (Wired for 480 volts.)
2. Operating Amps: 4 posts @ 208 volts: 15 amps
3. Control Voltage - 110 volts
4. Provide NEMA L16-30P plugs.

G. Accessories

1. Furnish 2 complete sets of power/control cables, to serve as spare cables.
2. Provide optional reduction sleeves to narrow the contact forks to allow the lifting of tires with smaller rim diameters. With the installation of one reduction sleeve the operator shall have the ability to lift vehicles with rim diameters between R15 and R17. With the installation of two reduction sleeves, the operator shall have the ability to lift vehicles with rim diameters as small as R12.
3. Provide retractable wheel design to ensure no loaded wheel contact with concrete with the columns are loaded.
4. Mobile Support Stand: The support stand shall have a capacity of 15,000 pounds with a cradle support pad. The stand shall be adjustable from 52 inches to 78 inches, in increments of three inches (3 inches). Further, the stand shall be designed and engineered to sustain three-time its rated load carrying capacity and finished in OSHA safety green. Two (2) wheels and a handle shall be provided for easy maneuvering of stand(s). Quantity: Six (6) each.
5. Screw Fine Adjustment (Model SP-75): For Model AB-6-20 Mobile Support Stand. Shall be made of a quarter inch (1/4) steel plating with a machined turret-head allowing the mounting pad to make direct contact with the vehicle frame. One each stand.
6. Cable Reel and Eyelet/Anchoring Point: Each portable bus lift shall have a heavy duty cable reel with power/control cable and an eyelet/anchoring point installed. Cable reel shall be installed at the top right side of the portable lift column. Eyelet/anchoring point shall be installed on the top of the portable lift column to receive

the power and control cable from the previous portable lift column in the chain, to secure the power/control cable for connection to the receptacle at the bottom of the portable lift control panel. Cable reel and eyelet/anchoring point shall ensure that the portable lift power/control cable is not lying on the ground but is above the lift or bus.

- H. Portable Bus Lifts shall be Mobile Lifting Columns Model ST 1082 with Accessories as manufactured by Stertil-Koni USA, Inc.

PART 3 EXECUTION

3.01 EXAMINATION:

- A. Verify existing conditions before starting work.
- B. Verification of Conditions: Verify that field measurements, surfaces, substrates and conditions are as required, and ready to receive Work.
- C. Test soil to determine corrosive characteristics. Take necessary measures to protect in-ground equipment with a cathodic protection system if needed.

3.02 INSTALLATION:

- A. Install lift in strict accordance with the approved shop drawings and manufacturer's installation instructions.
- B. Electrical Interface:
 - 1. Electric services for equipment are specified as work of Division 16 – Electrical, and are terminated near the piece of equipment in a shut-off means. As part of the work of this Contract, extend these services to the equipment and make the associated connections as recommended by the equipment manufacturer.
- C. Proceed with start-up, testing and instructions.
- D. The following utilities will be provided as work of other sections:
 - 1. 480 VAC / 208 VAC, 3 phase, 60 Hz.
 - 2. Compressed Air, 100 psig maximum, 2 CFM maximum oil-free, with filter and regulator.
 - 3. Contractor shall be responsible for any other utilities required.

- E. Contractor shall be responsible for coordinating with the manufacturer regarding the scheduling, delivery and preparations necessary to install the specified equipment.
- F. Contractor shall coordinate with the manufacturer to ensure floor slabs and recesses are adequate to mount and support equipment.

3.03 FIELD QUALITY CONTROL:

- A. Provide the services of a qualified manufacturer's representative to perform the following:
 - 1. Supervise preparatory work performed by other trades.
 - 2. Supervise installation.
 - 3. Prior to substantial completion of the facility, supervise testing, by the Contractor in the presence of the Owner to ensure proper operation of the equipment.

3.04 TRAINING:

- A. The contractor shall provide training in accordance with the requirements of Division 1 and Section 11005 and this section.
- B. Operations and Maintenance Manuals shall be approved and accepted prior to the training and will be provided as required for reference materials during class presentations.

PART 4 : MEASUREMENT AND PAYMENT

4.01 PORTABLE BUS LIFTS (SET OF 4 OR 6):

- A. Portable Bus Lifts (MB-2 and CW-3) will not be measured for payment.
- B. Portable Bus Lifts (MB-2 and CW-3) will not be paid directly, but will be included in the lump sum bid prices for the Maintenance Building.

END OF SECTION

SECTION 15512
CAST-IRON BOILERS
PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

- A. This Section includes packaged cast-iron boilers, trim, and accessories for generating hot water with the following configurations and burners:
 - 1. Factory assembled.
 - 2. Sealed-combustion, Oil burner.

1.03 ACTION SUBMITTALS

- A. Product Data: Include performance data, operating characteristics, furnished specialties, and accessories.
- B. Shop Drawings: For boilers, boiler trim, and accessories. Include plans, elevations, sections, details, and attachments to other work.
 - 1. Design Calculations: Calculate requirements for selecting vibration isolators and seismic restraints and for designing vibration isolation bases.
 - 2. Vibration Isolation Base Details: Detail fabrication including anchorages and attachments to structure and to supported equipment. Include auxiliary motor slides and rails and equipment mounting frames.
 - 3. Wiring Diagrams: Power, signal, and control wiring.

1.04 INFORMATIONAL SUBMITTALS

- A. Manufacturer Seismic Qualification Certification: Submit certification that boiler, accessories, and components will withstand seismic forces defined in Section 15074 "Vibration and Seismic Controls for HVAC Piping and Equipment." Include the following:
 - 1. Basis for Certification: Indicate whether withstand certification is based on actual test of assembled components or on calculation.
 - a. The term "withstand" means "the unit will remain in place

without separation of any parts from the device when subjected to the seismic forces specified and the unit will be fully operational after the seismic event."

2. Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.
 3. Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.
- B. Source quality-control test reports.
- C. Field quality-control test reports.
- D. Warranty: Special warranty specified in this Section.
- E. Other Informational Submittals:
1. Startup service reports.

1.05 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For boilers, components, and accessories to include in emergency, operation, and maintenance manuals.

1.06 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. ASME Compliance: Fabricate and label boilers to comply with ASME Boiler and Pressure Vessel Code.
- C. ASHRAE/IESNA 90.1 Compliance: Boilers shall have minimum efficiency according to "Gas and Oil Fired Boilers - Minimum Efficiency Requirements."
- D. I=B=R Compliance: Boilers shall be tested and rated according to HI's "Rating Procedure for Heating Boilers" and "Testing Standard for Commercial Boilers," with I=B=R emblem on a nameplate affixed to boiler.
- E. UL Compliance: Test boilers for compliance with UL 726, "Oil-Fired Boiler Assemblies." Boilers shall be listed and labeled by a testing agency acceptable to authorities having jurisdiction.

1.07 COORDINATION

- A. Coordinate size and location of concrete bases. Cast anchor-bolt inserts into bases. Concrete, reinforcement, and formwork requirements are specified with concrete.

1.08 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace controls and heat exchangers of boilers that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period for Controls: Two years from date of Substantial Completion.
 - 2. Warranty Period for Heat Exchangers: Five years from date of Substantial Completion.

PART 2 - PRODUCTS**2.01 MANUFACTURERS**

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
- B. Basis-of-Design Product: Subject to compliance with requirements, provide the product indicated on Drawings or a comparable product by one of the following:
 - 1. Burnham Hydronics.
 - 2. Smith Cast Iron Boilers.
 - 3. Approved Equal.

2.02 MANUFACTURED UNITS

- A. Description: Factory fabricated and assembled.
 - 1. Cast-iron sections shall be sealed pressure tight and held together with tie rods set on an insulated steel base; including insulated jacket and flue-gas vent connection.
- B. Cast-Iron Section Design:
 - 1. Number of Passes: three.
 - 2. Sectional Joints: High-temperature sealant to seal flue-gas passages not in contact with heating medium, tapered cast-iron

push nipples, silicone-coated fiberglass rope gasket fiber roping, and held together with tie rods. compressed into a cast tongue and groove connection around the perimeter of the section, providing a durable, gas tight seal.

3. Drain and blowdown tappings.
 4. Return injection tube to equalize water flow to all sections.
 5. Crown inspection tappings with brass plugs.
 6. Built-in air separator.
- C. Combustion Chamber: Equipped with ceramic-fiber target wall refractory insulation and flame observation ports, front and back.
- D. Casing:
1. Jacket: Galvanized sheet metal, with snap-in or interlocking closures and powder-coated protective finish.
 2. Insulation: Minimum 4 -inch- thick, mineral-fiber insulation surrounding the heat exchanger.
 3. Combustion Chamber Access: Refractory lined, hinged, front.
 4. Access: For cleaning between cast-iron sections.
 5. Draft Hood: Flue canopy and flue connection shall be constructed of stainless steel containing adjustable outlet damper assembly.
 6. Insulated base constructed of aluminized steel to permit boiler to be installed on combustible floor.
 7. Mounting Frame: Steel rails to mount assembled boiler package on concrete base.
 8. Control Cabinet: Sheet metal casing shall cover all controls, gas train, and burner.
- E. Draft Diverter: Steel assembly integral with boiler casing.

2.03 BURNER

- A. Burner: Welded construction with multivane, stainless-steel, flame-retention diffuser for fuel oil.
- B. Blower: Forward-curved centrifugal fan integral to burner, directly driven by motor; with adjustable, dual-blade damper assembly and locking

quadrant to set air-fuel ratio.

1. Motors: Comply with requirements specified in Section 15058 "Common Motor Requirements for HVAC Equipment."
 - a. Motor Sizes: Minimum size as indicated. If not indicated, large enough so driven load will not require motor to operate in service factor range above 1.0.
- C. Oil Supply: Control devices and modulating control sequence shall comply with requirements in ASME CSD-1, IRI and UL.
 1. Oil Pump: Two-stage, gear-type oil pump integral to and directly driven by blower shall be capable of producing 300-psig (2070-kPa) discharge pressure and 15-inch Hg (50.7-kPa) vacuum.
 2. Oil Piping Specialties:
 - a. Suction-line, manual, gate valve.
 - b. Removable-mesh oil strainer.
 - c. 0- to 30-inch Hg (0- to 101.3-kPa) vacuum; 0- to 30-psig (0- to 207-kPa) vacuum-pressure gage.
 - d. 0- to 300-psig (0- to 2070-kPa) oil-nozzle pressure gage.
 - e. Nozzle-line, solenoid-safety-shutoff oil valve.
- D. Pilot: Electric-spark pilot ignition with 100 percent main-valve and pilot-safety shutoff solenoid using UV scanner flame-safety control.

2.04 TRIM

- A. Include devices sized to comply with ANSI B31.9, "Building Services Piping."
- B. Aquastat Controllers: Operating, firing rate, and high limit.
- C. Safety Relief Valve: ASME rated.
- D. Pressure and Temperature Gage: Minimum 3-1/2-inch- (89-mm-) diameter, combination water-pressure and -temperature gage. Gages shall have operating-pressure and -temperature ranges so normal operating range is about 50 percent of full range.
- E. Boiler Air Vent: Automatic.
- F. Drain Valve: Minimum NPS 3/4 (DN 20) hose-end gate valve.

2.05 CONTROLS

- A. Refer to Section 15900 "Building Automation Controls" and contract drawings.
- B. Controls shall be factory installed and physically mounted on the burner and shall be UL Listed. Boiler control panel shall allow local-remote selection for operations. In the local mode, the boiler leaving water setpoint shall be derived from the boiler control panel. In the remote mode, the boiler leaving water setpoint shall be derived from the BAS.
- C. Supply a Boiler Control System to provide safety interlocks and water temperature control. The control system shall be fully integrated into the burner control cabinet and incorporate multiple boiler control logic, inputs, outputs and communication interfaces. The control system shall coordinate the operation of both fully modulating hot water boilers and shall integrate with the BAS for control operation of the boiler pumps. The control system shall control boiler modulation and on/off outputs based on the boiler water supply temperature (from BAS) and an operator-adjusted setpoint. Controller shall be provided with a two-line by sixteen character LCD display. Display automatically presents boiler sequence, alarm, hold and lockout messages. Boiler operating controls shall include the following devices and features:
 - 1. Control transformer.
 - 2. Set-Point Adjust: Set points shall be adjustable.
 - 3. Sequence of Operation: Electric, factory-fabricated and field-installed panel to control burner firing rate to reset supply-water temperature inversely with outside-air temperature. .
 - a. Include automatic, alternating-firing sequence for multiple boilers.
- D. Burner Operating Controls: To maintain safe operating conditions, burner safety controls limit burner operation.
 - 1. High Cutoff: Automatic reset stops burner if operating conditions rise above maximum boiler design temperature.
 - 2. Low-Water Cutoff Switch: Electronic probe shall prevent burner operation on low water. Cutoff switch shall be automatic-reset type.
 - 3. Audible Alarm: Factory mounted on control panel with silence switch; shall sound alarm for above conditions.

- E. The boiler control system (BCS) shall be provided with a peer-to-peer communications data highway network operating across an RS-485 communications system on each boiler control system. When peer-to-peer communication is enabled the data highway shall allow the connected boilers to exchange signals as required to provide coordinated fully modulating lead/lag functions. It shall not be required to wire individual control signals between boilers. When communication is enabled, the data highway shall allow individual boiler limits, lockout, boiler and system temperatures and firing rate status to be readable at the LCD and water setpoint, boiler firing rate, and start/stop command to be readable and writable. The BCS shall accept a hot water temperature setpoint from the Building Automation System (BAS). The BCS shall provide real time operations feedback from the boiler via the LCD display, including but not limited to burner firing rate, motor speed and damper position, water temperatures and all available alarms and operating parameters.
- F. Using PID (proportional-integral-derivative) based control, the remote (actual) system water temperature shall be compared with a setpoint (provided by the BAS) to establish a target boiler firing rate. When the remote system temperature is near the boiler high limit temperature, the boiler supply sensor shall limit the maximum boiler supply temperature to prevent boiler High Limit Trips.
- G. When the controller is in remote mode, the control system shall accept a remote temperature setpoint via the Building Automation System (BAS). When the controller is in the local control mode, the control system shall establish the setpoint based on a manual input by the operator.

2.06 ELECTRICAL POWER

- A. Single-Point Field Power Connection: Factory-installed and -wired switches, motor controllers, transformers, and other electrical devices necessary shall provide a single-point field power connection to boiler.
 - 1. House in NEMA 250, Type 12 enclosure.
 - 2. Wiring shall be numbered and color-coded to match wiring diagram.
 - 3. Install factory wiring outside of an enclosure in a metal raceway.
 - 4. Field power interface shall be to wire lugs, nonfused disconnect switch.
 - 5. Provide branch power circuit to each motor and to controls with disconnect switch or circuit breaker.
 - 6. Provide each motor with overcurrent protection.

2.07 CAPACITIES AND CHARACTERISTICS

- A. See Design Drawings for schedule of capacities and characteristics.

2.08 SOURCE QUALITY CONTROL

- A. Test and inspect factory-assembled boilers, before shipping, according to ASME Boiler and Pressure Vessel Code.
- B. Burner and Hydrostatic Test: Factory adjust burner to eliminate excess oxygen, carbon dioxide, oxides of nitrogen emissions, and carbon monoxide in flue gas and to achieve combustion efficiency; perform hydrostatic test.

PART 3 - EXECUTION**3.01 EXAMINATION**

- A. Before boiler installation, examine roughing-in for concrete equipment bases, anchor-bolt sizes and locations, and piping and electrical connections to verify actual locations, sizes, and other conditions affecting boiler performance, maintenance, and operations.
 - 1. Final boiler locations indicated on Drawings are approximate. Determine exact locations before roughing-in for piping and electrical connections.
- B. Examine mechanical spaces for suitable conditions where boilers will be installed.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 BOILER INSTALLATION

- A. Equipment Mounting: Install boilers on cast-in-place concrete equipment base(s). Comply with requirements for equipment bases specified in Section 03300 "Cast-in-Place Concrete."
 - 1. Coordinate sizes and locations of concrete bases with actual equipment provided.
 - 2. Construct bases to withstand, without damage to equipment, seismic force required by code.
 - 3. Construct concrete bases 4 inches (100 mm) high and extend base not less than 6 inches (150 mm) in all directions beyond the maximum dimensions of boiler unless otherwise indicated or unless required for seismic anchor support.

4. Minimum Compressive Strength: 3500 psi (24.1 MPa) at 28 days.
 5. Install dowel rods to connect concrete base to concrete floor. Unless otherwise indicated, install dowel rods on 18-inch (450-mm) centers around the full perimeter of concrete base.
 6. For supported equipment, install epoxy-coated anchor bolts that extend through concrete base, and anchor into structural concrete floor.
 7. Place and secure anchorage devices. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
 8. Install anchor bolts to elevations required for proper attachment to supported equipment.
- B. Equipment Mounting: Install boilers on cast-in-place concrete equipment base(s) using elastomeric pads. Comply with requirements for equipment bases specified in Section 03300 "Cast-in-Place Concrete." Comply with requirements for vibration isolation devices specified in Section 15074 "Vibration and Seismic Controls for HVAC Piping and Equipment."
- C. Install oil-fired boilers according to NFPA 31.
- D. Assemble boiler sections in sequence and seal between each section.
- E. Assemble and install boiler trim.
- F. Install electrical devices furnished with boiler but not specified to be factory mounted.
- G. Install control wiring to field-mounted electrical devices.

3.03 CONNECTIONS

- A. Piping installation requirements are specified in other Sections. Drawings indicate general arrangement of piping, fittings, and specialties.
- B. Install piping adjacent to boiler to allow service and maintenance.
- C. Connect oil piping full size to burner inlet with shutoff valve and union.
- D. Connect hot-water piping to supply- and return-boiler tappings with shutoff valve and union or flange at each connection.
- E. Install piping from safety relief valves to nearest floor drain.
- F. Install piping from equipment drain connection to nearest floor drain.

Piping shall be at least full size of connection. Provide an isolation valve if required.

- G. Connect breeching full size to boiler outlet. Comply with requirements in Section 15550 "Breechings, Chimneys, and Stacks" for venting materials.
- H. Ground equipment according to Section 16060 "Grounding and Bonding."
- I. Connect wiring according to Section 16120 "Conductors and Cables."

3.04 FIELD QUALITY CONTROL

- A. Perform tests and inspections and prepare test reports.
 - 1. **Manufacturer's Field Service:** Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.
- B. **Tests and Inspections:**
 - 1. Perform installation and startup checks according to manufacturer's written instructions.
 - 2. **Leak Test:** Hydrostatic test. Repair leaks and retest until no leaks exist.
 - 3. **Operational Test:** Start units to confirm proper motor rotation and unit operation. Adjust air-fuel ratio and combustion.
 - 4. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
 - a. **Burner Test:** Adjust burner to eliminate excess oxygen, carbon dioxide, oxides of nitrogen emissions, and carbon monoxide in flue gas and to achieve combustion efficiency.
 - b. Check and adjust initial operating set points and high- and low-limit safety set points of fuel supply, water level and water temperature.
 - c. Set field-adjustable switches and circuit-breaker trip ranges as indicated.
- C. Remove and replace malfunctioning units and retest as specified above.
- D. **Occupancy Adjustments:** When requested within 12 months of date of Substantial Completion, provide on-site assistance in adjusting system to suit actual occupied conditions. Provide up to two visits to Project during other than normal occupancy hours for this purpose.

3.05 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain boilers. Provide for at least two 1 hour sessions.

PART 4: MEASUREMENT AND PAYMENT**4.01 CAST-IRON BOILERS:**

- A. Cast-Iron Boilers will not be measured for payment.
- B. Cast-Iron Boilers will not be paid directly, but will be included in the lump sum bid prices for maintenance building.

END OF SECTION

APPENDIX A

LIST OF CONTRACT DRAWINGS

T-0705-0140

KIRK BUS DIVISION MODERNIZATION -
PHASE 1

APPENDIX A - Cont
CONTRACT NO. T-0705-0140
LIST OF CONTRACT DRAWINGS

<u>Sheet</u> <u>Number</u>	<u>Drawing Number</u>	<u>GENERAL</u>
1	TI-01	TITLE SHEET
2	GI-01	INDEX OF DRAWINGS 1 OF 2
3	GI-02	INDEX OF DRAWINGS 2 OF 2

<u>Sheet</u> <u>Number</u>	<u>Drawing Number</u>	<u>CIVIL</u>
4	C0001	CIVIL ABBREVIATIONS, SYMBOLS AND NOTES
5	V0101	PROPERTY AND RIGHT OF WAY PLAN
6	V0102	EXISTING CONDITIONS PLAN
7	B0101	GEOTECHNICAL BORING LOCATION PLAN
8	C1101	DEMOLITION PLAN
9	C2101	MAINTENANCE OF TRAFFIC (VEHICULAR)
10	C2102	MAINTENANCE OF TRAFFIC (PEDESTRIAN)
11	C3101	GRADING PLAN
12	C3102	SITE PLAN
13	C3103	PAVING PLAN
14	C3104	PROPOSED UTILITY PLAN
15	C3501	TYPICAL SECTIONS AND DETAILS
16	C3502	TYPICAL SECTIONS AND DETAILS
17	C4101	WATER SERVICE PLAN
18	C4102	SEWER SERVICE PLAN
19	C4501	STORM DRAIN PROFILES
20	C4502	STORM DRAIN PROFILES
21	C4503	STORMWATER MANAGEMENT DETAILS
22	C4504	STORMWATER MANAGEMENT DETAILS
23	C4505	STORMWATER MANAGEMENT DETAILS
24	C4506	STORMWATER MANAGEMENT NOTES
25	C4601	STORM DRAIN PIPE & STRUCTURE SCHEDULES
26	C5001	EROSION AND SEDIMENT CONTROL NOTES
27	C5002	EROSION AND SEDIMENT CONTROL NOTES
28	C5101	EROSION AND SEDIMENT CONTROL PLAN
29	C5102	EROSION AND SEDIMENT CONTROL PLAN
30	C5501	EROSION AND SEDIMENT CONTROL DETAILS
31	C5502	EROSION AND SEDIMENT CONTROL DETAILS
32	C5503	EROSION AND SEDIMENT CONTROL DETAILS
33	L0101	LANDSCAPE PLAN
34	L0501	LANDSCAPE DETAILS
35	L0502	LANDSCAPE DETAILS

APPENDIX A - Cont
CONTRACT NO. T-0705-0140
LIST OF CONTRACT DRAWINGS

<u>Sheet</u> <u>Number</u>	<u>Drawing Number</u>	<u>ARCHITECTURAL</u>
36	A0001	ARCHITECTURAL LEGEND
37	A2000	CODE ANALYSIS DATA
38	A2001	FIRST FLOOR - LIFE SAFETY PLAN
39	A2002	SECOND FLOOR - LIFE SAFETY PLAN
40	A2003	MECHANICAL MEZZANINE - LIFE SAFETY PLAN
41	A2100	FIRST FLOOR PLAN
42	A2101	FIRST FLOOR - SEGMENT A
43	A2102	FIRST FLOOR - SEGMENT B
44	A2103	FIRST FLOOR - SEGMENT C
45	A2104	FIRST FLOOR - SEGMENT D
46	A2105	FIRST FLOOR - SEGMENT E
47	A2106	FIRST FLOOR - SEGMENT F
48	A2110	SECOND FLOOR PLAN
49	A2111	SECOND FLOOR - SEGMENT B
50	A2112	SECOND FLOOR - SEGMENT F
51	A2120	MECHANICAL MEZZANINE PLAN
52	A2121	MECHANICAL MEZZANINE - SEGMENT B
53	A2122	MECHANICAL MEZZANINE - SEGMENT D
54	A2123	MECHANICAL MEZZANINE - SEGMENT F
55	A2130	ROOF PLAN
56	A2131	ROOF PLAN - SEGMENT A
57	A2132	ROOF PLAN - SEGMENT B
58	A2133	ROOF PLAN - SEGMENT C
59	A2134	ROOF PLAN - SEGMENT D
60	A2135	ROOF PLAN- SEGMENT E
61	A2136	ROOF PLAN - SEGMENT F
62	A2141	REFLECTED CEILING PLAN-SEGMENT A
63	A2142	REFLECTED CEILING PLAN-SEGMENT B
64	A2143	REFLECTED CEILING PLAN-SEGMENT C
65	A2144	REFLECTED CEILING PLAN-SEGMENT D
66	A2145	REFLECTED CEILING PLAN-SEGMENT E
67	A2146	REFLECTED CEILING PLAN-SEGMENT F
68	A2150	REFLECTED CEILING PLAN - SEGMENT B
69	A2151	REFLECTED CEILING PLAN - SEGMENT F
70	A2160	REFLECTED CEILING PLAN - SEGMENT B
71	A2161	REFLECTED CEILING PLAN - SEGMENT D
72	A2162	REFLECTED CEILING PLAN - SEGMENT F
73	A2170	FIRST FLOOR PAVEMENT MARKINGS PLAN
74	A2201	BUILDING ELEVATIONS
75	A2202	PARTIAL ELEVATION - NORTH
76	A2203	PARTIAL ELEVATION - SOUTH
77	A2204	PARTIAL ELEVATION - EAST

APPENDIX A - Cont
CONTRACT NO. T-0705-0140
LIST OF CONTRACT DRAWINGS

78	A2205	PARTIAL ELEVATION - WEST
79	A2301	BUILDING SECTIONS
80	A2302	BUILDING SECTIONS
81	A2303	PARTIAL BUILDING SECTIONS
82	A2304	PARTIAL BUILDING SECTIONS
83	A2305	PARTIAL BUILDING SECTIONS
84	A2306	PARTIAL BUILDING SECTIONS
85	A2307	PARTIAL BUILDING SECTIONS
86	A2308	PARTIAL BUILDING SECTIONS
87	A2309	PARTIAL BUILDING SECTIONS
88	A2310	PARTIAL BUILDING SECTIONS
89	A2311	PARTIAL BUILDING SECTIONS
90	A2312	PARTIAL BUILDING SECTIONS
91	A2313	PARTIAL BUILDING SECTIONS
92	A2320	WALL SECTIONS
93	A2321	WALL SECTIONS
94	A2322	WALL SECTIONS
95	A2323	WALL SECTIONS
96	A2324	WALL SECTIONS
97	A2325	WALL SECTIONS
98	A2326	WALL SECTIONS
99	A2327	WALL SECTIONS
100	A2330	SECTION DETAILS
101	A2331	SECTION DETAILS
102	A2401	PLAN DETAILS
103	A2402	PLAN DETAILS
104	A2403	PLAN DETAILS
105	A2404	PLAN DETAILS
106	A2405	ROOF DETAILS
107	A2406	ROOF DETAILS
108	A2407	ROOF DETAILS
109	A2408	ROOF DETAILS
110	A2501	ENLARGED PLANS, SECTIONS AND ELEVATIONS
111	A2502	ENLARGED PLANS, SECTIONS AND ELEVATIONS
112	A2503	ENLARGED PLANS, SECTIONS AND ELEVATIONS
113	A2504	ENLARGED PLANS, SECTIONS AND ELEVATIONS
114	A2505	ENLARGED PLANS, SECTIONS AND ELEVATIONS
115	A2506	ENLARGED PLANS, SECTIONS AND ELEVATIONS
116	A2507	ENLARGED PLANS, SECTIONS AND DETAILS
117	A2601	ENLARGED STAIR PLANS AND SECTIONS
118	A2602	ENLARGED STAIR PLANS AND SECTIONS
119	A2603	ENLARGED ELEVATOR PLANS AND SECTIONS
120	A2604	STAIR AND RAILING DETAILS
121	A2701	ENLARGED TOILET ROOM PLANS
122	A2702	ENLARGED TOILET ROOM ELEVATIONS

APPENDIX A - Cont
CONTRACT NO. T-0705-0140
LIST OF CONTRACT DRAWINGS

123	A2801	PARTITION SCHEDULE
124	A2802	PARTITION SCHEDULE
125	A2803	PARTITION DETAILS
126	A2804	DOOR SCHEDULE
127	A2805	DOOR DETAILS
128	A2806	DOOR DETAILS
129	A2810	WINDOW ELEVATIONS
130	A2811	WINDOW ELEVATIONS
131	A2812	LOUVER ELEVATIONS
132	A2813	WINDOW DETAILS
133	A2901	FIRST FLOOR INTERIORS PLAN - SEGMENT D, F
134	A2902	SECOND FLOOR INTERIORS PLAN - SEGMENT F
135	A2910	INTERIOR ELEVATIONS
136	A2911	SECOND FLOOR INTERIOR ELEVATIONS
137	A2920	CASEWORK SECTIONS
138	A2921	INTERIOR ARCHITECTURAL DETAILS
139	A2930	FINISH SCHEDULE

<u>Sheet</u>		
<u>Number</u>	<u>Drawing Number</u>	<u>STRUCTURAL</u>

140	S2001	GENERAL NOTES AND ABBREVIATION 1 OF 3
141	S2002	GENERAL NOTES AND ABBREVIATION 2 OF 3
142	S2003	GENERAL NOTES AND ABBREVIATION 3 OF 3
143	S2100	OVERALL FIRST FLOOR PLAN
144	S2100A	OVERALL FIRST FLOOR PART PLAN
145	S2101	FIRST FLOOR FOUNDATION PLAN - SEGMENT A
146	S2102	FIRST FLOOR FOUNDATION PLAN - SEGMENT B
147	S2103	FIRST FLOOR FOUNDATION PLAN - SEGMENT C
148	S2104	FIRST FLOOR FOUNDATION PLAN - SEGMENT D
149	S2105	FIRST FLOOR FOUNDATION PLAN - SEGMENT E
150	S2106	FIRST FLOOR FOUNDATION PLAN - SEGMENT F
151	S2107	WALL FOUNDATION PLAN - SEGMENT A
152	S2108	WALL FOUNDATION PLAN - SEGMENT B
153	S2109	WALL FOUNDATION PLAN - SEGMENT C
154	S2110	WALL FOUNDATION PLAN - SEGMENT D
155	S2111	WALL FOUNDATION PLAN - SEGMENT E
156	S2112	WALL FOUNDATION PLAN - SEGMENT F
157	S2113	FIRST FLOOR SLAB PLAN - SEGMENT A
158	S2114	FIRST FLOOR SLAB PLAN - SEGMENT B
159	S2115	FIRST FLOOR SLAB PLAN - SEGMENT C
160	S2116	FIRST FLOOR SLAB PLAN - SEGMENT D
161	S2117	FIRST FLOOR SLAB PLAN - SEGMENT E
162	S2118	FIRST FLOOR SLAB PLAN - SEGMENT F
163	S2120	OVERALL SECOND FLOOR PLAN

APPENDIX A - Cont
CONTRACT NO. T-0705-0140
LIST OF CONTRACT DRAWINGS

164	S2121	2ND FLOOR FOUNDATION PLAN - SEGMENT B
165	S2122	SECOND FLOOR FRAMING PLAN - SEGMENT F
166	S2130	OVERALL ROOF PLAN
167	S2131	OVERALL ROOF FRAMING PLAN - SEGMENT A
168	S2132	OVERALL ROOF FRAMING PLAN - SEGMENT B
169	S2133	OVERALL ROOF FRAMING PLAN - SEGMENT C
170	S2134	OVERALL ROOF FRAMING PLAN - SEGMENT D
171	S2135	OVERALL ROOF FRAMING PLAN - SEGMENT E
172	S2136	OVERALL ROOF FRAMING PLAN - SEGMENT F
173	S2140	CHASIS BAY AND OFFICE AREA ROOF PLAN
174	S2141	CHASIS BAY ROOF FRMG PLAN - SEGMENT B
175	S2142	OFFICE AREA ROOF FRMG PLAN - SEGMENT F
176	S2150	OVERALL MECHANICAL ROOF PLAN
177	S2151	MECHANICAL ROOF FRMG PLAN - SEGMENT B
178	S2152	MECHANICAL ROOF FRMG PLAN - SEGMENT D
179	S2153	MECHANICAL ROOF FRMG PLAN - SEGMENT F
180	S2200	COLUMN SCHEDULE 1 OF 3
181	S2201	COLUMN SCHEDULE 2 OF 3
182	S2202	COLUMN SCHEDULE 3 OF 3
183	S2203	BRACE FRAME ELEVATIONS 1 OF 2
184	S2204	BRACE FRAME ELEVATIONS 2 OF 2
185	S2205	BRACE FRAME CONNECTION DETAILS
186	S2206	PARTIAL ELEVATIONS 1 OF 3
187	S2207	PARTIAL ELEVATIONS 2 OF 3
188	S2208	PARTIAL ELEVATIONS 3 OF 3
189	S2215	FOUNDATION WALL ELEVATION 1 OF 3
190	S2216	FOUNDATION WALL ELEVATION 2 OF 3
191	S2217	FOUNDATION WALL ELEVATION 3 OF 3
192	S2400	FOUNDATION PART. PLANS 1 of 2
193	S2401	FOUNDATION PART. PLANS 2 of 2
194	S2402	ROOF FRAMING PART. PLANS
195	S2403	STAIR AND ELEVATOR PART. PLANS
196	S2404	MECHANICAL ROOF FRAMING PART. PLAN
197	S2405	UNDERHUNG CRANE DETAILS
198	S2406	UNDERHUNG CRANE FRAMING
199	S2407	UNDERHANG CRANE DETAILS
200	S2408	UNDERHUNG CRANE DETAILS
201	S2409	EXTERIOR WALL SUPPORT DETAILS 1 OF 3
202	S2410	EXT. WALL SUPPORT DETAILS 2 OF 3
203	S2411	EXT. WALL SUPPORT DETAILS 3 OF 3
204	S2412	ME PENTHOUSE SECTIONS AND DETAILS
205	S2413	ME PENTHOUSE STEEL DETAILS
206	S2500	PILE CAP PLANS AND SECTIONS 1 OF 2
207	S2501	PILE CAP PLANS AND SECTIONS 2 OF 2
208	S2502	TYPICAL FOUNDATION DETAILS

APPENDIX A - Cont
CONTRACT NO. T-0705-0140
LIST OF CONTRACT DRAWINGS

209	S2503	PIER PLANS AND DETAILS 1 OF 2
210	S2504	PIER PLANS AND SECTIONS 1 OF 2
211	S2505	GRADE BEAM SCHEDULE AND SECTIONS
212	S2506	GRADE BEAM SECTIONS AND ELEVATIONS
213	S2507	FOUNDATION DETAILS 1 OF 2
214	S2508	FOUNDATION DETAILS 2 OF 2
215	S2509	FOUNDATION DETAILS
215A	S2510	FOUNDATION DETAILS
215B	S2511	FOUNDATION DETAILS
216	S2520	FOUNDATION WALL SECTIONS 1 OF 3
217	S2521	FOUNDATION WALL SECTIONS 2 OF 3
218	S2522	FOUNDATION WALL SECTIONS 3 OF 3
219	S2530	STEEL DETAILS 1 OF 4
220	S2531	STEEL DETAILS 2 OF 4
221	S2532	STEEL DETAILS 3 OF 4
222	S2533	STEEL DETAILS 4 OF 4
223	S2534	MISCELLANEOUS DETAILS
224	S2535	EXTERIOR WALL SECTIONS AND DETAILS
225	S2536	EXTERIOR WALL SECTIONS AND DETAILS
226	S2537	EXTERIOR WALL SECTIONS AND DETAILS
227	S2538	EXTERIOR WALL SECTIONS AND DETAILS
228	S2539	EXTERIOR WALL SECTIONS AND DETAILS
228A	S2540	EXTERIOR WALL SECTIONS AND DETAILS
228B	S2541	EXTERIOR WALL SECTIONS AND DETAILS
229	S2550	CMU DETAILS
230	S2551	CMU DETAILS

Sheet

Number Drawing Number MECHANICAL EQUIPMENT

231	ME101	FIRST FLOOR - SEGMENT A
232	ME102	FIRST FLOOR - SEGMENT B
233	ME103	FIRST FLOOR - SEGMENT C
234	ME104	FIRST FLOOR - SEGMENT D
235	ME105	FIRST FLOOR - SEGMENT E
236	ME106	FIRST FLOOR - SEGMENT F
237	ME501	EQUIPMENT SCHEDULE
238	ME601	DETAILS SHEET I

Sheet

Number Drawing Number MECHANICAL

239	M2001	LEGEND AND ABBREVIATIONS
240	M2002	MECHANICAL SITE PLAN
241	M2003	MECHANICAL FOUNDATION PLAN

APPENDIX A - Cont
CONTRACT NO. T-0705-0140
LIST OF CONTRACT DRAWINGS

242	M2101	FIRST FLOOR - SEGMENT A
243	M2102	FIRST FLOOR - SEGMENT B
244	M2103	FIRST FLOOR - SEGMENT C
245	M2104	FIRST FLOOR - SEGMENT D
246	M2105	FIRST FLOOR - SEGMENT E
247	M2106	FIRST FLOOR - SEGMENT F
248	M2111	SECOND FLOOR - SEGMENT A
249	M2112	SECOND FLOOR - SEGMENT B
250	M2113	SECOND FLOOR - SEGMENT C
251	M2114	SECOND FLOOR - SEGMENT D
252	M2115	SECOND FLOOR - SEGMENT E
253	M2116	SECOND FLOOR - SEGMENT F
254	M2121	MECHANICAL MEZZANINE - SEGMENT B
255	M2122	MECHANICAL MEZZANINE - SEGMENT D
256	M2123	MECHANICAL MEZZANINE - SEGMENT F
257	M2134	ROOF PLAN - SEGMENT A
258	M2135	ROOF PLAN - SEGMENT B
259	M2136	ROOF PLAN - SEGMENT C
260	M2137	ROOF PLAN - SEGMENT D
261	M2138	ROOF PLAN - SEGMENT E
262	M2139	ROOF PLAN - SEGMENT F
263	M2201	MECHANICAL PIPING SCHEMATICS I
264	M2202	MECHANICAL PIPING SCHEMATICS II
265	M2301	MECHANICAL SECTIONS I
266	M2302	MECHANICAL SECTIONS II
267	M2401	MECHANICAL PART PLANS I
268	M2402	MECHANICAL PART PLANS II
269	M2501	DETAILS SHEET I
270	M2502	DETAILS SHEET II
271	M2503	DETAILS SHEET III
272	M2504	DETAILS SHEET IV
273	M2505	DETAILS SHEET V
274	M2506	DETAILS SHEET VI
275	M2601	SCHEDULES I
276	M2602	SCHEDULES II
277	M2603	SCHEDULES III
278	M2604	SCHEDULES IV
279	M2701	CONTROLS I
280	M2702	CONTROLS II
281	M2703	CONTROLS III
282	M2704	CONTROLS IV
283	M2705	CONTROLS V

Sheet
Number Drawing Number ELECTRICAL

APPENDIX A - Cont
CONTRACT NO. T-0705-0140
LIST OF CONTRACT DRAWINGS

284	E0001	ELECTRICAL LEGEND
285	E0002	LEGENDS, ABBREVIATIONS, & NOTES
286	E0003	ELECTRICAL OVERALL SITE PLAN
287	E0004	FIRST FLOOR - OVERALL ELECTRICAL PLAN
288	E0005	SECOND FLOOR OVERALL - ELECTRICAL PLAN
289	E0006	MEZZANINE OVERALL - ELECTRICAL PLAN
290	E0007	SITE LIGHTING
291	E2101	FIRST FLOOR - LIGHTING PLAN - SEGMENT A
292	E2102	FIRST FLOOR - LIGHTING PLAN - SEGMENT B
293	E2103	FIRST FLOOR - LIGHTING PLAN - SEGMENT C
294	E2104	FIRST FLOOR - LIGHTING PLAN - SEGMENT D
295	E2105	FIRST FLOOR - LIGHTING PLAN - SEGMENT E
296	E2106	FIRST FLOOR - LIGHTING PLAN - SEGMENT F
297	E2107	SECOND FLOOR-LIGHTING PLAN-SEGMENT A
298	E2108	SECOND FLOOR-LIGHTING PLAN-SEGMENT B
299	E2109	SECOND FLOOR-LIGHTING PLAN-SEGMENT C
300	E2110	SECOND FLOOR-LIGHTING PLAN-SEGMENT D
301	E2111	SECOND FLOOR-LIGHTING PLAN- SEGMENT E
302	E2112	SECOND FLOOR-LIGHTING PLAN-SEGMENT F
303	E2113	MEZZANINE - LIGHTING PLAN - SEGMENT B
304	E2114	MEZZANINE - LIGHTING PLAN - SEGMENT D
305	E2115	MEZZANINE - LIGHTING PLAN - SEGMENT F
306	E2201	FIRST FLOOR - POWER PLAN - SEGMENT A
307	E2202	FIRST FLOOR - POWER PLAN - SEGMENT B
308	E2203	FIRST FLOOR - POWER PLAN - SEGMENT C
309	E2204	FIRST FLOOR - POWER PLAN - SEGMENT D
310	E2205	FIRST FLOOR - POWER PLAN - SEGMENT E
311	E2206	FIRST FLOOR - POWER PLAN - SEGMENT F
312	E2207	SECOND FLOOR - POWER PLAN - SEGMENT B
313	E2208	SECOND FLOOR - POWER PLAN - SEGMENT F
314	E2209	MEZZANINE - POWER PLAN - SEGMENT B
315	E2210	MEZZANINE - POWER PLAN - SEGMENT C
316	E2211	MEZZANINE - POWER PLAN - SEGMENT D
317	E2212	MEZZANINE - POWER PLAN - SEGMENT E
318	E2213	MEZZANINE - POWER PLAN - SEGMENT F
319	E2301	FIRST FLOOR - SP. SYSTEMS - SEGMENT A
320	E2302	FIRST FLOOR - SP. SYSTEMS - SEGMENT B
321	E2303	FIRST FLOOR - SP. SYSTEMS - SEGMENT C
322	E2304	FIRST FLOOR - SP. SYSTEMS - SEGMENT D
323	E2305	FIRST FLOOR - SP. SYSTEMS - SEGMENT E
324	E2306	FIRST FLOOR - SP. SYSTEMS - SEGMENT F
325	E2307	SECOND FLOOR - SP. SYSTEMS - SEGMENT B
326	E2308	SECOND FLOOR - SP. SYSTEMS - SEGMENT F
327	E2309	MEZZANINE - SP. SYSTEMS - SEGMENT B

APPENDIX A - Cont
CONTRACT NO. T-0705-0140
LIST OF CONTRACT DRAWINGS

328	E2310	MEZZANINE - SP. SYSTEMS - SEGMENT D
329	E2311	MEZZANINE - SP. SYSTEMS - SEGMENT F
330	E2401	LIGHTNING PROTECTION - SEGMENT A
331	E2402	LIGHTNING PROTECTION - SEGMENT B
332	E2403	LIGHTNING PROTECTION - SEGMENT C
333	E2404	LIGHTNING PROTECTION - SEGMENT D
334	E2405	LIGHTNING PROTECTION - SEGMENT E
335	E2406	LIGHTNING PROTECTION - SEGMENT F
336	E4001	ELECTRICAL RISER DIAGRAM
337	E4002	VOICE / DATA DETAILS
338	E4003	FIRE ALARM RISER DIAGRAM & MATRIX
339	E4004	CCTV RISER DIAGRAM & LIGHTING DETAILS
340	E5001	LIGHTING FIXTURE SCHEDULE
341	E5002	PANEL SCHEDULES I
342	E5003	PANEL SCHEDULES II
343	E5004	PANEL SCHEDULES III
344	E5005	PANEL SCHEDULES IV
345	E5006	PANEL SCHEDULES V
346	E5007	PANEL SCHEDULES VI
347	E5008	PANEL SCHEDULES VII
348	E5009	PANEL SCHEDULES VIII
349	E5010	PANEL SCHEDULES IX
350	E5011	PANEL SCHEDULES X
351	E5012	PANEL SCHEDULES XI
352	E5013	FIRE ALARM ANNUCIATOR PANEL
353	E6001	SECURITY DETAILS
354	E6002	LIGHTNING PROTECTION DETAILS
355	E6003	ELECTRICAL AND ELEVATOR ROOM DETAILS
356	E6004	ELECTRICAL AND IT ROOM DETAILS
357	E6005	FLUID MANAGEMENT SYSTEM
358	E6006	ELECTRICAL DETAILS I
359	E6007	ELECTRICAL DETAILS II
360	E6008	ELECTRICAL DETAILS III
361	E6009	ELECTRICAL DETAILS IV
362	E6010	ELECTRICAL DETAILS V
363	E6011	LIGHTING CONTROLS DETAILS

Sheet

Number Drawing Number PLUMBING

364	P0001	PLUMBING LEGEND AND ABBREVIATIONS
365	P2101	FOUNDATION - SEGMENT A
366	P2102	FOUNDATION - SEGMENT B
367	P2103	FOUNDATION - SEGMENT C
368	P2104	FOUNDATION - SEGMENT D

APPENDIX A - Cont
CONTRACT NO. T-0705-0140
LIST OF CONTRACT DRAWINGS

369	P2105	FOUNDATION - SEGMENT E
370	P2106	FOUNDATION - SEGMENT F
371	P2111	FIRST FLOOR - SEGMENT A
372	P2112	FIRST FLOOR - SEGMENT B
373	P2113	FIRST FLOOR - SEGMENT C
374	P2114	FIRST FLOOR - SEGMENT D
375	P2115	FIRST FLOOR - SEGMENT E
376	P2116	FIRST FLOOR - SEGMENT F
377	P2121	SECOND FLOOR - SEGMENT A
378	P2122	SECOND FLOOR - SEGMENT B
379	P2123	SECOND FLOOR - SEGMENT C
380	P2124	SECOND FLOOR - SEGMENT D
381	P2125	SECOND FLOOR - SEGMENT E
382	P2126	SECOND FLOOR - SEGMENT F
383	P2131	MEZZANINE - SEGMENT B
384	P2132	MEZZANINE - SEGMENT D
385	P2133	MEZZANINE - SEGMENT F
386	P2141	ROOF PLAN - SEGMENT A
387	P2142	ROOF PLAN - SEGMENT B
388	P2143	ROOF PLAN - SEGMENT C
389	P2144	ROOF PLAN - SEGMENT D
390	P2145	ROOF PLAN - SEGMENT E
391	P2146	ROOF PLAN - SEGMENT F
392	P2301	PART PLAN - FIRST FLOOR
393	P2302	PART PLAN - SECOND FLOOR
394	P2401	RISER DIAGRAM - WATER I
395	P2402	RISER DIAGRAM - WATER II
396	P2403	RISER DIAGRAM - SANITARY I
397	P2404	RISER DIAGRAM - SANITARY II
398	P2405	RISER DIAGRAM - GAS
399	P2406	RISER DIAGRAM - COMPRESSED AIR
400	P2407	RISER DIAGRAM - LUBE SYSTEMS
401	P2501	PLUMBING SCHEDULES
402	P2601	PLUMBING DETAILS I
403	P2602	PLUMBING DETAILS II

<u>Sheet</u>		
<u>Number</u>	<u>Drawing Number</u>	<u>FIRE PROTECTION</u>

404	F0001	FIRST FLOOR PLAN
405	F0002	SECOND FLOOR PLAN
406	F0003	THIRD FLOOR PLAN
407	F0004	FIRE PROTECTION - DETAILS I

FEDERAL WAGE RATES

This Appendix contains the minimum wage rates to be paid for workers employed under this Contract on the jobsites in accordance with the supplementary General Provisions and the Wage Rate Decisions as defined below.

1. Wage rates - Decision No. MD130028 shall be used for all work at the **Baltimore City** sites as described in the Contract documents.
2. Wage rates - Decision No. MD130045 shall be used for all work at the **Baltimore City** sites as described in the Contract documents.

General Decision Number: MD130028 01/11/2013 MD28

Superseded General Decision Number: MD20120052

State: Maryland

Construction Type: Heavy

County: Baltimore City County in Maryland.

HEAVY CONSTRUCTION PROJECTS (including sewer/water construction).

Modification Number	Publication Date
0	01/04/2013
1	01/11/2013

CARP0101-014 07/01/2011

	Rates	Fringes
CARPENTER (Form Work Only).....	\$ 24.84	11.00

CARP0101-015 04/01/2011

	Rates	Fringes
MILLWRIGHT.....	\$ 27.91	11.25

CARP0101-016 07/01/2011

	Rates	Fringes
PILEDRIVERMAN.....	\$ 24.84	11.00

ELEC0024-002 05/02/2012

	Rates	Fringes
ELECTRICIAN.....	\$ 34.60	5.25%+13.45

* ENGI0037-024 10/01/2009

	Rates	Fringes
OPERATOR: Backhoe.....	\$ 23.95	11.05+a
OPERATOR: Bobcat/Skid Steer/Skid Loader.....	\$ 23.05	11.05+a
OPERATOR: Bulldozer.....	\$ 23.95	11.05+a
OPERATOR: Drill.....	\$ 23.95	11.05+a
OPERATOR: Excavator 120,000 lbs. and Under.....	\$ 23.95	11.05+a
Long and Ultra High Reach Excavators; Excavators Over 120,000 lbs.....	\$ 24.95	11.05+a
Mini-Excavators.....	\$ 23.05	11.05+a

OPERATOR: Gradall.....	\$ 24.95	11.05+a
OPERATOR: Grader/Blade.....	\$ 24.95	11.05+a
OPERATOR: Loader		
Front End Loaders 1 1/4		
yards and over.....	\$ 23.95	11.05+a
Front End Loaders 1 Yard		
and Under.....	\$ 23.05	11.05+a
OPERATOR: Mechanic.....	\$ 23.95	11.05+a
OPERATOR: Paver (Asphalt,		
Aggregate, and Concrete).....	\$ 23.05	11.05+a
OPERATOR: Piledriver.....	\$ 24.95	11.05+a
OPERATOR: Roller.....	\$ 23.05	11.05+a

a. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

IRON0016-014 04/01/2012

	Rates	Fringes
IRONWORKER, REINFORCING.....	\$ 26.88	17.05

LABO0710-006 04/01/2010

	Rates	Fringes
LABORER: Common or General.....	\$ 15.45	5.41
LABORER: Landscape.....	\$ 15.45	5.41
LABORER: Mason Tender -		
Cement/Concrete.....	\$ 16.61	5.41

PAIN0051-021 06/01/2012

	Rates	Fringes
PAINTER (Steel).....	\$ 31.86	8.91
PAINTER: Brush, Roller, and		
Spray.....	\$ 24.14	8.91

PLAS0891-006 05/01/2010

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 27.15	9.58

* PLUM0486-015 04/01/2012

	Rates	Fringes
PLUMBER/PIPEFITTER.....	\$ 36.425	16.09

SUMD2010-067 07/08/2010

	Rates	Fringes
BRICKLAYER.....	\$ 18.70	0.00

CARPENTER, Excludes Form Work....	\$ 19.00	2.52
IRONWORKER, STRUCTURAL.....	\$ 23.80	11.63
LABORER: Flagger.....	\$ 15.71	8.58
LABORER: Grade Checker.....	\$ 14.62	3.08
LABORER: Mason Tender - Brick...	\$ 15.93	7.83
LABORER: Pipelayer.....	\$ 12.85	2.04
OPERATOR: Crane.....	\$ 22.00	8.85
OPERATOR: Trackhoe.....	\$ 20.47	10.20
TRUCK DRIVER: Dump Truck.....	\$ 11.84	0.00

TEAM0311-006 06/01/2012

	Rates	Fringes
TRUCK DRIVER: Lowboy Truck.....	\$ 27.66	8.00+a+b

a. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

b. VACATION: Employees with 1 year of service - 1 week paid vacation; 2 years service - 2 weeks paid vacation; 10 years service - 3 weeks paid vacation.

c. HEALTH AND WELFARE: \$881 per month

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

=====

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is union or non-union.

Union Identifiers

An identifier enclosed in dotted lines beginning with characters other than "SU" denotes that the union classification and rate have found to be prevailing for that classification. Example: PLUM0198-005 07/01/2011. The first four letters , PLUM, indicate the international union and the four-digit number, 0198, that follows indicates the local union number or district council number where applicable , i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2011, following these characters is the effective date of the most current negotiated rate/collective bargaining agreement which would be July 1, 2011 in the above example.

Union prevailing wage rates will be updated to reflect any changes in the collective bargaining agreements governing the rates.

0000/9999: weighted union wage rates will be published annually each January.

Non-Union Identifiers

Classifications listed under an "SU" identifier were derived from survey data by computing average rates and are not union rates; however, the data used in computing these rates may include both union and non-union data. Example: SULA2004-007 5/13/2010. SU indicates the rates are not union majority rates, LA indicates the State of Louisiana; 2004 is the year of the survey; and 007 is an internal number used in producing the wage determination. A 1993 or later date, 5/13/2010, indicates the classifications and rates under that identifier were issued as a General Wage Determination on that date.

Survey wage rates will remain in effect and will not change until a new survey is conducted.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour

Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

=====

END OF GENERAL DECISION

General Decision Number: MD130045 03/29/2013 MD45

Superseded General Decision Number: MD20120069

State: Maryland

Construction Type: Building

County: Baltimore City County in Maryland.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Modification Number	Publication Date
0	01/04/2013
1	01/11/2013
2	01/25/2013
3	02/01/2013
4	03/29/2013

ASBE0024-007 10/01/2012

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR.....	\$ 33.13	13.60

Includes the application of all insulating materials, protective coverings, coatings and finishes to all types of mechanical systems

CARP0101-010 07/01/2011

	Rates	Fringes
CARPENTER (Including Drywall Hanging, Drywall Finishing, Form Work, Metal Stud Installation and Scaffold Building).....	\$ 24.84	11.00

CARP0101-015 04/01/2011

	Rates	Fringes
MILLWRIGHT.....	\$ 27.91	11.25

CARP0101-016 07/01/2011

	Rates	Fringes
PILEDRIVERMAN.....	\$ 24.84	11.00

ELEC0024-012 05/02/2012

	Rates	Fringes
--	-------	---------

ELECTRICIAN (Including low voltage wiring for and installation of alarms; HVAC controls).....\$ 34.60 5.25%+13.45

 ELEC0024-013 06/03/2012

	Rates	Fringes
ELECTRICIAN (Communication and Sound Equipment).....	\$ 24.63	11.62

PAID HOLIDAYS: New Year's Day, Memorial Day, Fourth of July, Labor Day, Veterans Day, Thanksgiving Day, Day after Thanksgiving, Christmas Day

 ENGI0037-029 08/20/2010

	Rates	Fringes
OPERATOR: Bobcat/Skid Steer/Skid Loader.....	\$ 22.93	11.75+a
OPERATOR: Bulldozer.....	\$ 24.88	11.75+a
OPERATOR: Crane (All Cranes and Tower Cranes).....	\$ 26.94	11.75+a
OPERATOR: Excavator.....	\$ 24.88	11.75+a
OPERATOR: Forklift.....	\$ 24.88	11.75+a
OPERATOR: Gradall.....	\$ 24.88	11.75+a
OPERATOR: Loader (Front End)		
1 1/4 yards and over.....	\$ 24.88	11.75+a
1 Yard and Under.....	\$ 22.93	11.75+a
OPERATOR: Paver (Asphalt, Aggregate, and Concrete).....	\$ 24.88	11.75+a
OPERATOR: Roller excluding Asphalt.....	\$ 19.30	11.75+a

a. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day and Christmas Day.

 IRON0016-012 04/01/2012

	Rates	Fringes
GLAZIER.....	\$ 26.88	17.05
IRONWORKER (Fence Erection-Chain Link/Cyclone).....	\$ 26.63	17.05
IRONWORKER, ORNAMENTAL, REINFORCING AND STRUCTURAL.....	\$ 26.88	17.05
IRONWORKER, SHEETING.....	\$ 27.13	17.05

 LABO0710-004 04/01/2010

	Rates	Fringes
LABORER: Mason Tender -		

Cement/Concrete.....\$ 16.61 5.41

PAIN0051-023 06/01/2012

Rates Fringes

PAINTER

Brush, Roller, Spray and
Paperhanging.....\$ 24.14 8.91
Industrial.....\$ 28.18 8.91

* PLAS0891-005 07/01/2012

Rates Fringes

PLASTERER.....\$ 28.33 5.85

PLAS0891-006 05/01/2010

Rates Fringes

CEMENT MASON/CONCRETE FINISHER...\$ 27.15 9.58

PLAS0891-008 08/01/2011

Rates Fringes

PLASTERER (Fireproofing
Including Sprayer, Mixer, and
Handler)

Handler.....\$ 15.00 3.89
Mixer/Pump.....\$ 17.00 3.89
Sprayer.....\$ 21.50 3.89

PLUM0486-012 04/01/2012

Rates Fringes

PIPEFITTER (Including HVAC
Pipe and System Installation)....\$ 36.425 16.09

ROOF0030-033 08/01/2012

Rates Fringes

ROOFER, Excludes Installation
of Metal Roofs.....\$ 24.39 8.48

SHEE0100-026 01/01/2013

Rates Fringes

SHEET METAL WORKER, Includes
HVAC Duct Installation
(Excludes Metal Roof
Installation).....\$ 30.26 16.65

SUMD2010-079 04/30/2010

	Rates	Fringes
ABATEMENT WORKER: ASBESTOS (Removal from Mechanical Systems).....	\$ 12.51	3.91
BRICKLAYER (Excludes Pointing, Caulking and Cleaning).....	\$ 22.81	4.54
CARPENTER (Acoustical Ceiling Installation Only).....	\$ 16.00	2.60
ELEVATOR MECHANIC.....	\$ 29.66	9.34
LABORERS		
Common or General; Brick and Stone Mason Tenders.....	\$ 13.03	2.75
Grade Checker.....	\$ 16.00	2.90
Landscape.....	\$ 10.00	
Mason Tender for Pointing, Caulking and Cleaning.....	\$ 12.47	
Mortar Mixer.....	\$ 16.61	9.08
Pipelayer.....	\$ 14.29	5.90
MASON - STONE.....	\$ 29.82	10.05
OPERATOR: Asphalt Roller.....	\$ 21.35	5.38
OPERATOR: Backhoe.....	\$ 19.92	7.42
OPERATOR: Boom.....	\$ 21.44	8.29
OPERATOR: Grader/Blade.....	\$ 16.75	5.79
PLUMBER.....	\$ 27.33	8.95
POINTER, CAULKER, CLEANER, Includes pointing, caulking, cleaning of existing masonry, brick, stone and cement structures (restoration work); excludes pointing, caulking, cleaning of new or replacement masonry, brick, stone or cement.....	\$ 19.31	0.00
SHEET METAL WORKER (Metal Roofs Installation).....	\$ 20.71	6.23
SPRINKLER FITTER (Fire Sprinklers).....	\$ 27.69	4.94
TILE FINISHER.....	\$ 17.32	0.00

TILE SETTER.....	\$ 21.38	4.65
TRUCK DRIVER: Dump Truck.....	\$ 15.40	1.96
TRUCK DRIVER: Tractor Haul Truck.....	\$ 17.87	9.98

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is union or non-union.

Union Identifiers

An identifier enclosed in dotted lines beginning with characters other than "SU" denotes that the union classification and rate have found to be prevailing for that classification. Example: PLUM0198-005 07/01/2011. The first four letters , PLUM, indicate the international union and the four-digit number, 0198, that follows indicates the local union number or district council number where applicable , i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2011, following these characters is the effective date of the most current negotiated rate/collective bargaining agreement which would be July 1, 2011 in the above example.

Union prevailing wage rates will be updated to reflect any changes in the collective bargaining agreements governing the rates.

0000/9999: weighted union wage rates will be published annually each January.

Non-Union Identifiers

Classifications listed under an "SU" identifier were derived from survey data by computing average rates and are not union rates; however, the data used in computing these rates may include both union and non-union data. Example: SULA2004-007 5/13/2010. SU indicates the rates are not union majority rates, LA indicates the State of Louisiana; 2004 is the year of the survey; and 007 is an internal number used in producing the wage determination. A 1993 or later date, 5/13/2010, indicates the classifications and rates under that identifier were issued as a General Wage Determination on that date.

Survey wage rates will remain in effect and will not change until a new survey is conducted.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

=====

END OF GENERAL DECISION

APPENDIX E

PERMITS/WAIVERS

T-0705-0140

KIRK BUS DIVISION MODERNIZATION -

PHASE 1



MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard • Baltimore MD 21230
410-537-3000 • 1-800-633-6101

Martin O'Malley, Governor
Anthony G. Brown, Lieutenant Governor

Robert M. Summers, Ph.D., Secretary

**STORMWATER MANAGEMENT AND SEDIMENT & EROSION CONTROL
APPROVAL STATE/FEDERAL PROJECTS**

MDE NUMBER: 11-SF-0134

APPROVED BY: *Jane S. Lutz*
for Chief, Sediment & Stormwater Plan Review Division

EFFECTIVE DATE: April 12, 2013

IN COMPLIANCE WITH: Environment Article, Sections 4-106 and 4-205 Annotated Code of Maryland

APPROVAL IS HEREBY GRANTED: Maryland Transit Administration
ADDRESS: 6 St. Paul Street
Suite 602
Baltimore, MD 21202
Attn: Roger Carriker

HEREINAFTER KNOWN AS OWNER,
FOR THE PLANS AND SPECIFICATIONS PRESENTED FOR: Contract No. T-0705-0140

Kirk Bus Division Modernization Project - Baltimore City County

PREPARED BY: Johnson, Mirmiran & Thompson

PLANS DATED: February 11, 2013

PLANS REVISED: April 5, 2013

This APPROVAL is granted subject to the following conditions:

1. This Approval shall become null and void if the construction authorized herein has not begun within two (2) years from the granting of this Approval. If the construction authorized herein has not been completed within five (5) years from the granting of this Approval, the Approval shall become null and void except that these limits may be extended at the discretion of the Department.
2. The Approval is subject to all laws and regulations now in effect and may be revoked if it is subsequently determined that this authorization violates other laws of the State. Construction shall comply with approved terms.
3. The location and dimensions of all Sediment Control structures, excavation and filling shall be in accordance with plans approved by the Department of the Environment Water Management Administration (MDE/WMA). Owner or authorized agent must obtain written approval from the MDE/WMA for any plan modifications or changes. A copy of the approved plan with any approved modifications and this Approval shall be available at the construction site for reference during the construction period.
4. Off-site borrow or waste sites require local county and Soil Conservation District approvals if they are located on private property or MDE/WMA approval if on State or Federal property. Local approval numbers shall be furnished to the MDE/WMA Inspector.
5. The Owner or his authorized agent shall notify the MDE/WMA Compliance Program at (410) 537-3510, at least seven (7) days prior to initiation of the project and five (5) days after work ends.
6. Prior to any earth disturbance a Notice-Of-Intent (NOI) to comply with the Federal NPDES Program must be submitted and approved by WMA.

JKT/RLS

ADDENDUM NO. 2



MARYLAND TRANSIT ADMINISTRATION

MARYLAND DEPARTMENT OF TRANSPORTATION

Martin O'Malley, Governor • Anthony G. Brown, Lt. Governor
Darrell B. Mobley, Acting Secretary • Ralign T. Wells, Administrator

TO: All Planholders
FROM: Maryland Transit Administration
SUBJECT: **ADDENDUM NO. 1**
Contract No.: T-0705-0140
Kirk Bus Division Modernization Project – Phase 1 (Maintenance Building)
DATE: April 10, 2013

Enclosed and effective this date is Addendum No. 1 to the subject Contract. This change delays the Bid Opening Date from April 15, 2013 to **May 7, 2013**. The deadline for questions has passed and no new questions shall be accepted. All questions received prior to the deadline will be addressed in an addendum that will be issued at a later date.

The Bidder shall acknowledge receipt of this Addendum by completing and returning this form with the bid package.

All other terms and conditions remain unchanged.

Sincerely,

Rick Owens, Contracts Manager
Procurement Division

Acknowledgement of receipt of ADDENDUM # 1 to Solicitation #T-0705-0140

Vendor Name: _____

Authorized Representative's Signature

Date

ADDENDUM NO.: 1
DATE: 04/10/13
CONTRACT NO.: T-0705-0140

The following additions, deletions, and modifications are hereby made a part of the Contract Documents of Kirk Bus Division Modernization Project – Phase 1 (Maintenance Building), Contract No.: T-0705-0140.

Item No.	Page	Modification
I. CONTRACT SPECIFICATIONS		
1	NTC, p2	Revised to change Bid Opening Date
2	BF, p1	Revised to change Bid Opening Date

1614.

A Site Visit will be held on **April 4, 2013** immediately following the Pre-Bid Meeting.

It is strongly suggested that the person(s) responsible for the preparation of bid documents for bidders attend the Pre-Bid Meeting and the site visit. **INSTRUCTIONS CRITICAL TO THE PREPARATION OF THE CONTRACT DOCUMENTS WILL BE PRESENTED AT THE PRE-BID MEETING.**

4. BID DUE DATE & TIME

Sealed Bids addressed to the Maryland Transit Administration, Procurement Division, 6 St. Paul Street, Baltimore, Maryland 21202-1614, and marked "**Bid for Contract No. T-0705-0140 KIRK BUS DIVISION MODERNIZATION PROJECT – PHASE 1 (MAINTENANCE BUILDING)**", will be received at the above address until but not after 2:00 P.M. local time, **May 7, 2013**. At that time, the Bids will be publicly opened and read aloud at a location at the same address. Hand delivered bids should be deposited in the Bid Box located on the 7th Floor before the 2:00 P.M. deadline. Any bids received after the date and time specified shall not be considered.

5. ELECTRONIC VERSION OF BID DOCUMENTS

The bid documents will be available by electronic means. The Bidder acknowledges and accepts full responsibility to ensure that the Bidder has made no changes to the Administration's bid documents. In the event of a conflict between the versions of the bid documents in the bidder's possession and the version maintained by the Procurement Officer, the version maintained by the Procurement Officer shall govern.

6. AVAILABILITY OF DOCUMENTS

Specifications may be downloaded from the MTA web site located at www.mta.maryland.gov. Bidders will be required to register the first time specifications are downloaded and a login number will be assigned. This number should be used every time the bidder downloads the documents for this contract. Bidders must supply accurate information in order to receive notice of all subsequent addenda.

TO OBTAIN THE SPECIFICATIONS: Please visit MTA's website (www.mta.maryland.gov), follow the links for "Business" – "Procurement" - "Bids/Solicitations", and download the Specifications for this procurement.

TO OBTAIN THE DRAWINGS: e-mail Rick Owens at rowens@mta.maryland.gov requesting the contract drawings and supplying the following information: the contact person, company name, mailing address, phone

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION
BID FORM

FOR
CONTRACT NO.: T-0705-0140

TO: MARYLAND TRANSIT ADMINISTRATION
ATTN: PROCUREMENT DIVISION
6 SAINT PAUL STREET, 7TH FLOOR
BALTIMORE, MD 21202-1614

BID OPENING DATE:

May 7, 2013

BID OPENING TIME:

2:00 PM

BID OF: _____

(Bidder's Name)

PROJECT DESCRIPTION:

This Contract is for the construction of Phase 1 of the new Kirk Division Bus Facility to include the new Bus Maintenance Building. The work involves: Demolition of the existing Reese Press Building and site.

The MTA will abate lead based paint and asbestos from the Reese Press Building to OSHA and EPA requirements for abatement prior to demolition. Suspect asbestos containing material and lead based paint remaining areas are shown in Appendix J. Construction of the new Bus Maintenance Facility and associated employee parking area on the former Reese Press Site. The new Bus Maintenance Facility will consist of 6 articulated bus maintenance bays, 13 standard bus maintenance bays, 13 dead bus storage bays, two chassis wash bays, parts/tire/material storage area, shop area, and associated maintenance administration and support spaces. Exterior to the building the site will include parking, refuse and recycling dumpster enclosure, and site storage. Existing parking on the Reese Press Site will be relocated by the MTA prior to the issuance of Notice of Proceed.

1. This bid is hereby submitted to the Maryland Transit Administration (hereinafter sometimes called the "Administration") in response to NOTICE TO CONTRACTORS dated _____.
2. The UNDERSIGNED has thoroughly examined, acknowledges receipt of, and is familiar with the Contract Documents as well as the various instructions, information, and requirements covering the same, all as mentioned herein and in said NOTICE TO CONTRACTORS.
3. In compliance with said NOTICE TO CONTRACTORS the UNDERSIGNED hereby proposes to furnish all labor, equipment, and materials and perform all work described and in strict accordance with the provisions of the Contract Documents for the consideration of the amounts, lump sum and unit prices listed in the attached Unit Price Schedule, and agrees that, upon Notice of Award, within one hundred eighty(180) calendar days after the date of opening of bids, unless mutually extended, he will within ten (10) calendar days after receipt of the prescribed forms, execute the Contract and furnish a performance bond and payment bond (if such bonds are required by the Contract Documents) on forms furnished by the Administration with good and sufficient surety or sureties.