SECTION 905 -- PROPOSAL (CONTINUED)

I (We) further propose to execute the attached contract agreement (Section 902) as soon as the work is awarded to me (us), and to begin and complete the work within the time limit(s) provided for in the Specifications and Advertisement. I (We) also propose to execute the attached contract bond (Section 903) in an amount not less than one hundred (100) percent of the total of my (our) part, but also to guarantee the excellence of both workmanship and materials until the work is finally accepted.

I (We) enclose a certified check, cashier's check or bid bond for **five percent (5%) of total bid** and hereby agree that in case of my (our) failure to execute the contract and furnish bond within Ten (10) days after notice of award, the amount of this check (bid bond) will be forfeited to the State of Mississippi as liquidated damages arising out of my (our) failure to execute the contract as proposed. It is understood that in case I am (we are) not awarded the work, the check will be returned as provided in the Specifications.

Bidder acknowledges receipt of and has added to and made a part of the proposal and contract documents the following addendum (addenda):

ADDENDUM NO.	1	DATED	7/20/2010	ADDENDUM NO.		DATED	
ADDENDUM NO		DATED		ADDENDUM NO.		DATED	

Number	Description
1	Revised Documents,00 01 10, 00 91 13, 10 56 27, 11 52 16, & 32 14 16, replace same; Revised Bidsheets, replace same; Revised or Added Plan Sht. Nos. 2, 4, 5, 8, 12, 17, 21, 34, 46, 48, 49, 50, 51, 52, 53, 54, 55, 73, & 86; Amendment EBS Download Required.

TOTAL ADDENDA: 1
(Must agree with total addenda issued prior to opening of bids)

Respectfully Submitted,

DATE _____

_____
Contractor

BY _____
Signature

TITLE _____

ADDRESS _____

CITY, STATE, ZIP _____

PHONE _____

FAX _____

E-MAIL _____

(To be filled in if a corporation)

Our corporation is chartered under the Laws of the State of _____ and the names, titles and business addresses of the executives are as follows:

President	Address
Secretary	Address
Treasurer	Address

The following is my (our) itemized proposal.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

ADDENDUM No. 1
SECTION 00 91 13

DATE: **JULY 15, 2010**

PROJECT: **DISTRICT HEADQUARTERS BUILDING AT TUPELO, LEE COUNTY, MISSISSIPPI**

PROJECT NUMBERS: **BWO-1180-41(001) 501637**

PART 1 - GENERAL

1.01 DESCRIPTION: Bidders are hereby advised that the following changes are to be made to this Contract.

1.02 SPECIFICATIONS – ARCHITECTURAL

A. Section 00 01 10-Table of Contents. Delete Table of Contents and replace with attached Table of Contents Revised date of July 15, 2010.

B. Section 01 50 00-Temporary Facilities & Controls. Article 1.08, Paragraph B. delete this sentence in its entirety and replace with following: Barricades and Construction Fence: Provide and erect all necessary barricades and any other protection as required. MDOT is not responsible for site security at any time. Provide construction fence if desired or needed to secure site.

C. Section 04 20 00-Unit Masonry. Article 2.05, Paragraph A. delete last 2 sentences that both begin with "Mortar color..." and replace with "Provide custom color mortar to be selected by the Architect at all face brick. Provide custom color mortar with concrete masonry units to match color of concrete masonry units exactly as indicated in 09 05 15. Provide natural color mortar with concealed common brick and where approved by the Architect."

D. Section 07 42 65-Thermal & Air Barrier Systems.

1. Article 1.01, Paragraph B. (2.) delete reference to Section 09 21 16 Gypsum Board Assemblies and add Section 09 29 00 Gypsum Board.
2. Article 3.03 A. (3.) delete reference to ----as specified in Section 07 27 59 and add ----as recommended by the manufacturer.

E. Section 07 61 00-Sheet Metal Roofing. Article 1.02, Paragraph A. delete reference to Section 07 22 15 and replace with Section 07 42 65.

F. Section 08 31 13 – Access Doors and Frames. Article 1.01, Paragraph B. (5.) delete “Division 23 Section “Duct Accessories” for heating and air-conditioning duct access doors.

G. Section 10 56 27 – Motorized Mobile Storage Files. Add the attached Section to the Project Manual.

H. Section 08 80 00 – Glazing. Article 1.01, Paragraph B. (4.) delete reference to Section 08 41 15 and add Section 08 44 15.

I. Section 11 52 16 – Projectors. Delete this Section and replace with the attached Section 11 52 16-Projector with Revised Date of July 15, 2010.

J. Section 32 14 16 – Brick Unit Paving. Add the attached Section to the Project Manual.

K. Section 32 32 23 – Segmental Concrete Retaining Wall. Article 1.05, Paragraph B. delete this paragraph and replace with the following: Shop Drawings: Submit engineering drawings of segmental concrete retaining wall design, foundation design, and all system and related components prepared and stamped by a professional engineer experienced with segmental concrete retaining wall systems and registered in the State of Mississippi.

1.03 SPECIFICATIONS – PLUMBING

A. Section 22 05 11-Plunbing Submittal Data. Article 3.03, Paragraph A. delete reference to Section 00 65 00 and add Section 01 77 00.

1.04 SPECIFICATIONS – ELECTRICAL

A. Section 26 09 23-Lighting Control Devices. Article 2.03, Paragraph A. delete reference to Bryant Electric; a Hubble company.

B. Section 26 09 43-Network Lighting Controls. Article 1.02, Paragraph D.(2.) delete reference to Division 26 Section “Control Dimming Controls” or “Modular Dimming Controls” for dimming control components.

1.05 DRAWINGS

A. Make the following changes to Sheet Number 2, Working Number T-1.1:

1. Revise the Schedule indicating Sheet Revisions indicated by Revision No. 4 dated 7-15-10.

B. Make the following changes to Sheet Number 4, Working Number C-1.1:

1. Add Pay Item 907-237-A003 as indicated on this sheet dated 7-15-10.

C. Make the following changes to Sheet Number 5, Working Number C-1.2:

1. Delete Pay Items as indicated on this sheet dated 7-15-10.

D. Make the following changes to Sheet Number 8, Working Number C-3:

1. Delete note and clarify items on this sheet to be done by Contractor as indicated dated 7-15-10.

E. Make the following changes to Sheet Number 12, Working Number C-7:

1. Revise note indicating rip-rap size on this sheet dated 7-15-10.

F. Make the following changes to Sheet Number 17, Working Number C-9.3:

1. Add note referencing Grasspave to Specification Section 32 92 00 on this sheet dated 7-15-10.

G. Make the following changes to Sheet Number 21, Working Number A-2.1:

1. Add notes indicated on this sheet dated 7-15-10.

H. Make the following changes to Sheet Number 34, Working Number A-4.8:

1. Revise notes and add details indicated on this sheet dated 7-15-10.

I. Make the following changes to Sheet Number 46, Working Number A-5.5:

1. Delete note indicated on this sheet dated 7-15-10.

J. Make the following changes to Sheet Number 46, Working Number A-5.5:

1. Delete note indicated on this sheet dated 7-15-10.

K. Make the following changes to Sheet Number 48, Working Number A-6.1.1:

1. Revise Interior Partition Wall Type Legend indicated on this sheet dated 7-15-10.

L. Make the following changes to Sheet Number 49, Working Number A-6.1.2:

1. Revise indicated on this sheet dated 7-15-10.

M. Make the following changes to Sheet Number 50, Working Number A-6.1.3:

1. Revise Interior Partition Wall Type Legend indicated on this sheet dated 7-15-10.

N. Make the following changes to Sheet Number 51, Working Number A-6.1.4:

1. Revise Interior Partition Wall Type Legend and add gate at Mechanical Enclosure as indicated on this sheet dated 7-15-10.

O. Make the following changes to Sheet Number 52, Working Number A-6.2.1:

1. Revise Interior Partition Wall Type Legend indicated on this sheet dated 7-15-10.

P. Make the following changes to Sheet Number 53, Working Number A-6.2.2:

1. Revise Interior Partition Wall Type Legend indicated on this sheet dated 7-15-10.

Q. Make the following changes to Sheet Number 54, Working Number A-6.2.3:

1. Revise Interior Partition Wall Type Legend indicated on this sheet dated 7-15-10.

R. Make the following changes to Sheet Number 55, Working Number A-6.2.4:

1. Revise Interior Partition Wall Type Legend indicated on this sheet dated 7-15-10.

S. Make the following changes to Sheet Number 73, Working Number S2.1:

1. Add footing sizes to Footing Schedule indicated on this sheet dated 7-15-10.

T. Make the following changes to Sheet Number 86, Working Number E1.3:

1. Add information for Lighting – First Floor Plan Part "B" in Auditorium indicated on this sheet dated 7-15-10.

1.06 PRE-BID MEETING

A. A Pre-Bid Meeting was held July 13, 2010. Introductions were made and statements were given concerning items to clarify or change in the Construction Documents by this Addendum. Everyone in attendance visited the site after the meeting to observe improvements and site preparations in progress. The entire site under the building, sidewalks, and parking are being cut and filled, with compaction of minimum 95% density.

B. The Sign-In List is attached.

CLARIFICATIONS AND QUESTIONS / ANSWERS

Q: Will MDOT provide the erosion control relative to their work prior to the demolition or will the contractor install it?
A: MDOT has installed erosion control for their work. For the purposes of bidding the GC shall assume it will not be adequate for their work and will be required to provide an erosion control plan and maintain the site per the contract documents. If needed, it will be adjusted per the Pay Item amounts

.

Q: Will any areas disturbed by MDOT outside of the project limits be repaired by MDOT?
A: Bid the project as indicated in the contract documents. If needed, corrective action outside the project limits will be addressed using the Pay Items.

Q: Do we seed/sod areas outside the construction limits if disturbed by work under this contract?
A: Per Specification 32 92 00, Part 1.02: "All disturbed areas that are not paved, or require riprap, shall be hydroseeded and fertilized."

Q: Do all the flared end sections get riprap at the discharge or just where shown on the drawings:
A: Riprap is only required where shown.

Q: Confirm footing size, reinforcing requirements, and the top of the footing elevation at the retaining wall.
A: Refer to C-10 for the elevation at the top of the wall. Footing size and reinforcing shall be in accordance with the engineered system design per Specification 32 32 23.

Q: How many projectors are there?
A: Refer to ceiling plans for projector location.

Q: Do you want the roof insulation installed by the roofer or the thermal and air barrier insulation contractor?
A: Division of labor is up to the GC.

Q: Are the railings specified in 05 73 10 for all three stairs?
A: Yes.

Q: Is there any type D storage shelving?
A: No.

Q: Where is the defibrillator indicated?
A: Refer to 1/A6.1.2, Corridor 159.

Q: Where is the cellulose thermal insulation used?
A: This is used in the interior walls only as the sound attenuation insulation. Refer to 07 21 28, 1.01, A. The Thermal Air Barrier System is used at the exterior walls. There is no batt insulation in the project.

Q: There are a number of site amenities listed on page 896 of the specifications that I have not located on the drawings. Are these in the project?
A: This is a page from Special Provision No. 907-258-9. Items from the Special Provision are included as Pay Items so only those items on the Summary of Quantities shall be included.
Q: Specification section 26 05 33, 3.0, C. states minimum conduit size shall be ¾". Drawing E3.7 shows ½" conduit for some power runs. Which is correct?
A: All conduit shall be ¾" in accordance with the specifications.

Q: Will there be any inspections by the City of Tupelo?
A: No.

Q: Will the end process of the commissioning be filmed?
A: No.

Q: Are the plans available digitally?
A: No.

Q: The Air barrier system requires a certified installer. Is the project required to be certified?
A: No.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

END OF SECTION

13 July 2010 MDOT Tupelo Pre-Bid Mtg

Name	Company	Phone	E-mail
Jim Vinson	Architect, MDOT	601-359-1292	jvinson@mdot.state.ms.us
Pamela Leonard	Architect, CCD	601-948-7337	pamela@ccdarchitects.com
Brad Swain	MDOT-Construction	601-359-7314	bkswain@mdot.state.ms.us
Ronnie Taylor	MDOT-ASU	662-563-4541	rctaylor@mdot.state
Jerry Tate	MDOT - Project Office	662-534-5121	Jtate@mdot.state.ms.us
MATT DUNN	MDOT- DIST. 1	6628421122	
Jamie McDonald	MDOT-D1 Const	662-842-1122	jmcdonald@mdot.state.ms.us
Gary Sweatt	Bldg. Diagnostics	205-439-7280	GSWEATT@BIDGDIAGNOSTICS.com
Greg Wall	Jesco Inc.	662-862-3121	gregw@JescoInc.net
John Ladd	Panola Const	662-563-5621	jladd@pandaconstruction.com
Josh Harris	C.I.G. Contractors	662 287 6026	AHARRISCIG@COMCAST.NET
Terry Silas	B.A.S.I.C. Wiring Inc	901-826-1332	SIL258@AOL
Rob Houck	Honeywell	901-831-0276	robert.houck@honeywell.com
CHRIS GAUT	WORSHAM BROS.	662-286-8446	chris@worshambrothers.net
Foster Gullett	Century Const	662-844-3331	branyan@centuryc.com
David L. Montague	Ewing Keesler	901-726-3120	dmontague@ewingkeesler.com
Gerald Warfield	Southland	662-844-0140	GERALD@SOUTHLANDCONST.com
Tommy Luke	Southland	662-844-0140	TOMMY@SOUTHLANDCONST
Alan Warfield	"	"	alan@southlandconst.com
Jimmy Moore	Moore Elec.	662-489-6624	J.M.MOOREELECTRIC@

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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PROJECT: **DISTRICT HEADQUARTERS BUILDING AT TUPELO, LEE COUNTY, MISSISSIPPI**

PROJECT NUMBER: **BWO-1180-41(001) 501637**

DATE: **APRIL 26, 2010**
REVISED DATE: **JULY 15, 2010**

DESCRIPTION A: The Department of Transportation shall clear and grub the site and have in place a building pad of compact select material within one foot of finish floor. This Work shall consist of minor site work and all construction work necessary in constructing the District Headquarters Building at Tupelo, Lee County, Mississippi, in accordance with these Specifications and conforming with the Drawings.

It is the intention of these Specifications to provide the necessary items and instruction for a complete building including all code compliance. Omission of items or instruction necessary or considered standard good practice for the proper installation and construction of the building shall not relieve the Contractor of furnishing and installing such items and conforming to the building codes having jurisdiction.

(REVISIONS TO THE ABOVE WILL BE INDICATED ON THE SECOND SHEET

OF SECTION 905 AS ADDENDA)

END OF SECTION

SECTION 10 56 27 MOTORIZED MOBILE STORAGE FILES

PART 1 - GENERAL

SUMMARY

A. This Section includes the following:

1. Electric, carriage mounted high-density mobile storage file units, support rails, fabrication, and installation including leveling of support rails.

B. Related Work:

1. Structural floor system capable of supporting live and dead loads required by prevailing building codes, including loads of storage units to be installed.
2. Finish floor covering and edging materials and installation on raised floors and ramps, or when on concrete with recessed rail installation.
3. Power wiring to units from adequate power supply. Installer shall provide final connections to units.
4. Fire suppression system.

C. Related Sections:

1. Section 03 30 00 – Cast In Place Concrete
2. Sections in Division 9 – Finishes, relating to finish floor and base materials.
3. Division 26 Specification Sections power wiring devices, conductors and circuit protection.

1.02 REFERENCES

A. American National Standards Institute (ANSI) Standards:

1. Applicable standards for fasteners used for assembly.

B. American Society for Testing and Materials (ASTM) Standards:

1. Applicable standards for steel sheet materials used for fabrication.

C. American Institute of Steel Construction (AISC) Standards:

1. Applicable standards for steel materials used for fabrication.

D. Underwriters' Laboratories (C-UL US):

1. Listings for electrical equipment and devices described in this specification.

1.03 SYSTEM DESCRIPTION

A. General: The system consists of manufactured storage units mounted on manufacturer's track-guided carriages to form a compact storage system. System design permits access to any single aisle by moving units until the desired aisle is opened. The manufacturer's proprietary unit interlock system prevents units from being moved while the open aisle is occupied. The carriage/rail system provides uniform carriage movement along the total length of travel, even with unbalanced loads.

B. Carriage System Design and Features: The carriage system consists of a formed structural steel frame with hardened steel wheels riding on steel rails surface mounted to the floor. Rails shall be types selected by the manufacturer to ensure smooth operation and self-centering of mobile storage units during travel without end play or binding. Rail types, quantities and spacing shall be selected by the manufacturer to suit installation conditions and requirements. All bearings used in the drive mechanism shall be permanently shielded and lubricated.

C. Movement Controls: Provide a carriage control panel on the accessible (open) end of each moveable carriage, located 44 inches above the base, centered on the face panel. Minimum controls shall include directional control buttons, stop/reset push-button and a red reset light.

1. System controls shall start motors on each movable carriage "sequentially" to minimize power demands and shall provide dynamic braking to provide smooth operation. No additional hardware shall be required to change between "sequential" and "block" movement. Maximum running speed shall be limited to 3.3 inches per second.

2. Provide solid state controls and indicator lights for a visual indication of safety system operation. Provide each aisle with a programmable distance sensor to ensure proper timing for start/stop operation.

3. Pushing the directional control button on any moveable carriage adjacent to the desired aisle location in the direction away from the desired aisle location opens the system at the desired aisle. The selected aisle shall open automatically regardless of the position of the carriages. Automatic Reset: The carriage control heads will display a constant green light at all carriages indicating that the system is ready for the next aisle access. Provide for automatic reset if system is equipped with optional Zero Force Sensor (ZFS) system safety feature, or other redundant safeties.

4. Controls shall feature backlit message indicating which aisle is in use (i.e. "Right Aisle in use" or "Left Aisle in use").

D. Drive System: The system shall be designed with a positive type motorized drive which minimizes end play and that carriages will stop without drifting. All system components shall be selected to ensure a smooth, even movement along the entire carriage length.

1. Each electric carriage shall be provided with a current limited fractional horsepower gear motor, connected to drive wheel assembly with a roller chain.

2. System shall include a chain sprocket drive system to ensure that carriages move uniformly along the total length of travel, even with unbalanced loads.

3. A tensioning device shall be provided on each chain drive (when applicable).

4. All bearings used in the drive mechanism shall be permanently shielded and lubricated.

5. System shall operate on 115 V.A.C. 50/60 hertz, 20 amp dedicated circuit provided by others, one per module.

6. Overhead mounted power pantograph distribution system shall conceal all interconnecting wiring.

E. Safety Features:

1. Visual indicators shall provide verification that carriages are in the locked or unlocked mode.

2. One safety sweep shall be provided in each aisle. A full-length infrared photoelectric safety sweep shall be provided to stop carriage movement if the sweep contacts an obstruction while in motion. Sweep must be equipped with OSHA approved safety demarcation tape.

3. Entire system shall be C-UL US system listed.

4. Infrared photoelectric aisle entry sensor system shall be provided to stop carriage movement if the system detects persons entering a closing aisle.

5. Zero Force Sensor (ZFS) system and electric braking devices shall be provided to prevent new carriage movement if the system detects objects or persons in the open aisle when an attempt is made to open another aisle.

F. Finishes:

1. Fabricated Metal Components And Assemblies: Manufacturer’s standard powder coat paint finish.

2. End Panels, Accessible Ends: Manufacturer’s standard powder coat paint finish in custom colors.

1.04 DESIGN REQUIREMENTS

A. Limit overall height to 84 inches.

B. Design layout to fit space indicated as indicated on drawings.

1.05 SUBMITTALS

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

B. Shop Drawings: Show fabrication, assembly, and installation details including descriptions of procedures and diagrams. Show complete extent of installation layout including clearances, spacings, and relation to adjacent construction in plan, elevation, and sections. Indicate clear exit and access aisle widths; access to concealed components; assemblies, connections, attachments, reinforcement, and anchorage; and deck details, edge conditions, and extent of finish flooring within area where units are to be installed.

1. Show installation details at non-standard conditions. Furnish floor layouts, technical and installation manuals for every unit shipment with necessary dimensions for rail layout and system configuration at the project site. Include installed weight, load criteria, furnished specialties, and accessories.

2. Provide layout, dimensions, and identification of each unit corresponding to sequence of installation and erection procedures. Specifically include the following:

   a. Location, position and configuration of tracks on all floors.

   b. Plan layouts of positions of carriages, including all required clearances.

   c. Details of shelving, indicating method and configuration of installation in carriages.

3. Provide location and details of anchorage devices to be embedded in or fastened to other construction.

4. Provide installation schedule and complete erection procedures to ensure proper installation.

5. Show locations of wiring and disconnects required for operating movable carriage units.

C. Samples: Provide three, 3-inch square examples of each color and texture on actual substrate for each component to remain exposed after installation.

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

E. Warranty: Submit draft copy of proposed warranty for review by the Architect

1.06 QUALITY ASSURANCE

A. Installer Qualifications: Engage an experienced installer who is a manufacturer's authorized representative for the specified products for installing carriages and anchoring shelving units to carriages.

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

2. Guaranteed 24-hour minimum response time to service call.

1.07 DELIVERY, STORAGE AND HANDLING

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

1.08 PROJECT CONDITIONS

A. Field Measurements: Verify dimensions before fabrication. Indicate verified measurements on Shop Drawings. Coordinate fabrication and delivery to ensure no delay in progress of the Work.

B. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with fabricating mobile storage units without field measurements. Coordinate construction to ensure actual dimensions correspond to established dimensions.

1.09 SEQUENCING AND SCHEDULING

A. Sequence storage shelving system installation with other work to minimize possibility of damage and soiling during remainder of construction period.

B. Schedule installation of specified products and accessories after finishing operations including painting have been completed.

C. Provide components, which must be built in at a time, which causes no delays general progress of the Work.

D. Pre-installation Conference: Schedule and conduct conference on project site to review methods and procedures for installing mobile storage units including, but not limited to, the following:

1. Review project conditions and levelness of flooring and other preparatory work performed under other contracts.

2. Review and verify structural loading limitations.

3. Recommended attendees include:

a. Contractor or representative.

b. Manufacturer's representative.

c. Subcontractors or installers whose work may affect, or be affected by, the work of this section.

1.10 WARRANTY

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

B. Warrant the entire movable compact shelving installation against defects in materials and workmanship for a period of five years from date of acceptance by the Owner.

1.11 MAINTENANCE

A. Provide manufacturer’s extended maintenance agreement for 12 years commencing on the day the standard maintenance warranty ends.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Provide products by one of the following or approved equal:

1. Spacesaver Corporation, Associated Office Systems; P.O. Box 14088; Jackson, MS 39236; Phone: 601.853.8665; Fax: 601.853.8785; Website: www.spacesaver.com

a. Other manufacturers may be acceptable upon meeting specification requirements.

2.02 BASIC MATERIALS

A. General: Provide materials and quality of workmanship that meet or exceed established industry standards for products specified. Use furniture grade sheet metal for component fabrication unless indicated otherwise. Material thickness/gauges are manufacturer's option unless indicated otherwise.

B. Plastic Laminates: NEMA LD-3, GP-28, Vertical Grade.

C. Electrical Devices and Controls: C-UL US System Listed for type of application and service.

2.03 GROUT

A. General: Provide non-shrink, non-staining hydraulic cement compound conforming to the following requirements, based on the performance of the test specimens at room temperature and in laboratory air, as stated by the grout manufacturer.

1. Linear Movement: No shrinkage while setting; maximum expansion limited to .002 inches per linear inch.

2. Compressive Strength: Based on two inch cubes made following ASTM standards, tested on a Balding-Southward machine of 60,000 pounds capacity, meet or exceed the following:

a. Age: 1 hour - 4,500 psi; 7 days - 8,000 psi

2.04 MANUFACTURED COMPONENTS

A. Rails:

1. General: Provide manufacturer's proprietary design units with the following properties:

2. Material: ASTM/AISI Type 1035 or 1045 steel, manufacturer's selection.

3. Capacity: 1,000 pounds per lineal foot of carriage.

4. Minimum Contact Surface: 5/8 inch wide.

5. Provide rail sections minimum 6 feet in length.

6. Rail configuration shall permit attachment to top of structural floor system with provision for leveling rails to compensate for variations in floor surface level.

7. Provide rail connections designed to provide horizontal and vertical continuity between rail sections, to gradually transfer the concentrated wheel point load to and from adjoining rail sections. Butt joints without connections are not permitted.

8. Once rails are leveled, they shall be supported the full length with the specified grout.

B. Floor / Ramp:

1. Floor/Ramp Sheathing: Minimum 3/4 inch, 7-ply underlayment grade plywood. Particleboard sheathing materials are not permitted.

2. Provide fire retardant treated floor/ramp materials when required by code.

3. Finished flooring materials shall match room floor finish.

4. Ramps at entrances to system. Full floor between all rails.

C. Carriages:

1. Provide manufacturer's design movable carriages fabricated of welded steel construction. Galvanized structural components and/or riveted carriages are unacceptable. 1,000 pound per foot minimum capacity.

2. Provide fixed carriages of same construction and height as the movable carriages, anchored to rails. Setting fixed shelving directly on floors is not permitted.

3. When required, provide bolted carriage splices designed to maintain proper unit alignment and weight load distribution.

4. Design carriages to allow the shelving uprights to recess and interlock into the carriages a minimum of 3/4 inch. Top mount carriages are unacceptable.

5. Provide each carriage with two wheels per rail.

D. Drive / Guide System:

1. Design: Provide drive system which prevents carriage whipping, binding and excessive wheel/rail wear under normal operation.

   a. If line shafts are used, all wheels on one side of carriage shall drive.

   b. If synchronized drives are used, a minimum of one wheel assembly driving both sides of carriage at center location required. Drive shaft shall exhibit no play or looseness over the entire length of that assembly.

2. Shafts: Solid steel rod or tube.

3. Shaft Connections: Secured couplings.

4. Bearing Surfaces: Provide rotating load bearing members with ball or roller bearings. Provide shafts with pillow block or flanged self-aligning type bearings.

E. Wheels:

1. Materials: Type 1045 solid steel.

2. Size: Minimum 3 inches outside diameter drive wheels.

3. Guides: Determined by manufacturer; minimum 2 locations.

F. Motors:

1. Type: 90VDC

G. Face Panels:

1. Materials: Steel.
2. Finishes: As indicated in Finishes.
3. End panels must cover the full height and width of shelving.

H. Shelving: Four Post

I. Storage Panels and Cabinets: File Cabinets

2.05 ACCESSORIES

A. Dual Controls: Provide additional control panel at end of each motorized carriage.

2.06 FABRICATION

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

B. Wheels: Provide precision ground and balanced units with permanently shielded and lubricated bearings.

C. Carriages: Fabricate to ensure no more than 1/4 inch maximum deviation from a true straight line. Splice and weld to ensure no permanent set or slippage in any spliced or welded joint when exposed to forces encountered in normal operating circumstances.

D. Shelving, Supports and Accessories: See individual descriptions in “Shelving” paragraphs.

2.07 FINISHES

A. Colors: Provide in custom colors as indicated.

B. Paint Finish: Provide factory applied electrostatic powder coat paint. Meet or exceed specifications of the American Library Association. Paint color to be custom color to be selected.

C. Laminate Finish: Provide factory applied laminate panels at locations indicated on approved shop drawings. Laminate to match PL#2 as indicated in 09 05 15.

D. Edgings: Provide preformed edging, color-matched to unit colors selected.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine floor surfaces with Installer present for compliance with requirements for installation tolerances and other conditions affecting performance of mobile storage units.

B. Verify that building structural system is adequate for installing mobile storage units at locations indicated on approved shop drawings.

1. In new construction, ensure that recesses for rails in floors are at proper spacing and depths, with allowance for grouting.

C. Verify that intended installation locations of mobile storage units will not interfere with, nor block established required exit paths or similar means of egress once units are installed.

D. Verify that adequate capacity permanent power sources have been installed at locations indicated on approved shop drawings.

E. Prepare written report, endorsed by Installer, listing conditions detrimental to proper performance of mobile storage units, once installed.

F. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. Rails:

1. Lay out rails using full-length units to the maximum extent possible. Use cut lengths only at ends to attain total length required. Locate and position properly, following dimensions indicated on approved shop drawings. Verify thickness of finished floor materials to be installed (by others) and install level 1/16 inch above finished floor surfaces.

2. Verify level, allowing for a minimum 1/4 inch of grout under high points. Position and support rails so that no movement occurs during grouting.

3. Set rails in full grout bed, completely filling any voids entire length of all rails including rail connectors. Trim up sides flush with rails to ensure proper load transfer from rail to supporting floor. Using shims in lieu of full grouting is not permitted.

4. Installation Tolerances: Do not exceed levelness of installed rails listed below:

a. Maximum Variation From True Level Within Any Module: 3/32 inch.

b. Maximum Variation Between Adjacent (Parallel) Rails: 1/16 perpendicular to rail direction.

c. Maximum Variation In Height: 1/32 inch measured along any 10 foot rail length.

5. Verify rail position and level; anchor to structural floor system with anchor type and spacings indicated on approved shop drawings.

B. Floors/Ramps:

1. General: Finished elevation shall be 1/16 inch below top of rails.

2. Place floors and ramps to the extent indicated on approved shop drawings. Extend ramps under all movable and stationary ranges. Do not extend ramps beyond the ends of carriages.

3. Construct floors and ramps to prevent warping or deformation of floor panels in a normal operating environment. Support panels on levelers at maximum 16 inches (406MM) on center.

4. Ramp Slope: Do not exceed the following:

a. ADA Accessible Ramps: Maximum 1:12 slope (4.76 degrees).

b. Other Ramps: Maximum 9 degree slope (1.9:12).

c. Vertical Transition, Ramp edge to floor: Maximum 1/8 inch.

C. Shelving Units Installation:

1. Follow layout and details shown on approved shop drawings and manufacturer's printed installation instructions. Position units level and plumb, and at proper location relative to adjoining units and related work.

2. Carriages:

a. Place movable carriages on rails. Ensure that all wheels track properly and centering wheels are properly seated on centering rails. Fasten multiple carriage units together to form single movable base where required.

b. Position fixed carriage units to align with movable units; make final leveling adjustments with leveling screws.

3. Shelving Units:

a. Permanently fasten shelving units to fixed and movable carriages with vibration-proof fasteners.

b. Stabilize shelving units following manufacturer's written instructions. Reinforce shelving units to withstand the stress of movement where required and specified.

4. Wiring:

a. Make final control wiring connections between modules under single control.

b. Test wiring for continuity and proper connections with regulated field power supply before making final power connections.

c. Make final wiring connections to permanent power source. Connection to power source by others.

d. Test system operation by cycling all units through complete operations sequences.

3.03 FIELD QUALITY CONTROL

A. Verify shelving unit alignment and plumb after installation. Correct if required following manufacturer's instructions.

B. Remove components which are chipped, scratched, or otherwise damaged and which do not match adjoining work. Replace with new, undamaged, matching units.

3.04 ADJUSTING

A. Adjust components and accessories to provide smoothly operating, visually acceptable installation.

3.05 CLEANING

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

3.06 DEMONSTRATION/TRAINING

A. Schedule and conduct demonstration of installed equipment and features with Owner's personnel.

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

3.07 PROTECTION

A. Provide protection needed to ensure that system will be without damage or deterioration at time of substantial completion.

END OF SECTION

SECTION 11 52 16 PROJECTORS

PART 1 - GENERAL

1.01 SECTION INCLUDES: LCD Projector, ceiling mounted with accessories as required for a complete system as shown on the Drawings and as specified herein.

1.02 SUBMITTALS: Submit manufacturer's brochures, technical data, installation, maintenance and operating instructions for each item and component part specified, including data substantiating that materials comply with requirements.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

A. Drawings and Specifications are based on products manufactured by NEC, 1250 N. Arlington Heights Rd, Itasca, IL. 60143. Tel. (800) 632-4636.

B. Equivalent products by the following manufacturers are acceptable:

1. Panasonic PT-LB60NTU.
2. Sony VPL-CX86.

C. Substitutions shall fully comply with specified requirements and Section 01630-Product Options and Substitution Procedures.

2.02 PROJECTOR

A. Equal to NEC model NP-905 as follows:

1. 3000 Lumens.
2. 500:1 Contrast Ratio.
3. 1024 x 768 Resolution, Native, UXGA / 600x1200 maximum.
4. 4:3 Aspect Ratio.
5. Wireless Networking.
6. Geometry Correction.
7. P900 CM Ceiling Mount with custom adapter plate for easy access to lamp and precision gear design for excess tilt and roll adjustments.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Install units plumb and level, in locations and with mountings as required. Securely attach to supporting structure with concealed fasteners, in accordance with manufacturer's installation instructions.

B. Remove shipping packaging and install components as per manufacturer’s instructions.

C. Verify and provide all electrical hook-ups and electrical outlets required by the projector specified prior to rough-in.

3.02 CLEANING AND PROTECTION: At completion of installation, clean surfaces in accordance with manufacturer's instructions. Protect units from damage until acceptance by Owner.

END OF SECTION

SECTION 32 14 16 BRICK UNIT PAVING

PART 1 - GENERAL

1.01 SUMMARY

A. The work of this Section includes: Brick unit pavers set in aggregate setting beds.

B. The extent of masonry paving is indicated on Drawings.

1.02 REFERENCES

A. American Society of Testing and Materials (ASTM):

1. C 33, Specification for Concrete Aggregates.

2. C 136, Method for Sieve Analysis for Fine and Coarse Aggregate.

3. C 144-89, Standard Specification for Aggregate for Masonry Mortar.

4. C 902 Standard Specification for Pedestrian and Light Traffic Paving Brick

5. C 67 Method of Sampling and Testing Brick and Structural Clay Tile

6. D 698, Test Methods for Moisture Density Relations of Soil and Soil Aggregate Mixtures Using a 5.5-lb Rammer and 12 inch drop.

7. D 1557, Test Methods for Moisture Density Relations of Soil and Soil Aggregate Mixtures Using a 10-lb Rammer and 18 inch drop.

1.03 QUALITY ASSURANCE

A. The masonry paving subcontractor/installer shall have not less than 5 years of experience and shall have completed work of similar size, type and scope to the work of this project.

B. Prior to installation of masonry paving work, fabricate sample panels for each type of paving using materials, pattern and joint treatment indicated for project work, including special features for expansion joints and contiguous work. Build panel at the site, as directed, of full thickness and approximately 4 feet x 4 feet, unless otherwise indicated. Provide range of color, texture and workmanship to be expected in the completed work. Obtain Engineer's/Architect's acceptance of visual qualities of the panel before start of masonry paving work. Retain panel during construction as a standard for judging completed masonry paving work. Do not move or destroy sample panel until work is completed. Panel mock-up may be incorporated into Work if undisturbed at time of Substantial Completion..

C. Obtain each type of unit paver, joint material, and setting material from one source with resources to provide materials and products of consistent quality in appearance and physical properties.

1.04 SUBMITTALS

A. Submit manufacturer's technical data for each manufactured product, including certification that each product complies with specified requirements.

B. Submit unit paver samples for initial selection of color and texture showing full range of colors and textures available in products complying with specified requirements. Furnish samples made up of actual units or sections of units.

C. Following preliminary selection of colors and textures, submit samples consisting of 5 individual units for each color and texture under consideration. Include in each set the maximum variation to be expected in finished work.

D. Submit sieve analysis for grading of bedding and joint sand.

E. Submit test results from an independent testing laboratory for compliance of paving unit requirements with specifications.

F. Submit drawing indicating layout, pattern, and relationship of paving joints to fixtures and project formed details.

1.05 DELIVERY, STORAGE AND HANDLING

A. Deliver unit pavers to the site in steel banded, plastic banded, or plastic wrapped cubes capable of transfer by fork lift or clamp lift. Unload pavers at job site in such a manner that no damage occurs to the product.

B. Sand shall be covered with waterproof covering to prevent exposure to rainfall or removal by wind. The covering shall be secured in place.

C. Store paving accessories as recommended by accessory manufacturer.

D. Protect unit pavers during storage and construction against wetting by rain, snow or ground water and against soiling or intermixture with earth or other types of materials.

1.06 JOB CONDITIONS

A. Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen subgrade or setting beds. Remove and replace masonry work damaged by frost or freezing. Do not install sand or pavers during heavy rain or snowfall. Do not install sand and pavers over frozen base materials.

B. Cold Weather Limitations: Protect masonry against freezing when atmospheric temperature is 40 degrees F. and falling. Heat materials and provide temporary protection of completed portions of masonry work. Comply with requirements of BIA Technical Notes, 1A, "Cold Weather Masonry Construction and Protection Recommendations."

C. Hot Weather Requirements: Protect masonry in hot weather to prevent excessive evaporation of setting beds and grout. Provide artificial shade, wind breaks and use cooled materials, as required.

1.07 MAINTENANCE STOCK

A. Provide 10 percent of area of installed unit pavers as material for use by owner for maintenance and repair.

B. Pavers shall be from the same production run as installed materials.

PART 2 - PRODUCTS

2.01 BRICK PAVERS

A. Brick Unit Pavers shall be equal to:

1. Boral Heartland Pavers by Boral Bricks, Inc. or equal products by Tri-State Brick and Tile and Old South Brick.

2. Conform to ASTM C-902, Type I, Light Traffic and Pedestrian (for residential driveways and streets, commercial drop offs, pedestrian) or ASTM C-1272.

3. 4 inches x 8 inches x 2-1/4 inches with straight edge.

4. Color: To be selected from Manufacturer's full line

5. Pavers shall meet the following requirements set forth in ASTM C902:

a. Minimum average compressive strength of 10,000 psi

b. The average cold water absorption shall not be greater than 6% with no individual unit testing greater than 7%. Absorption test results may not be achieved through the use of sealers or other products applied to the clay paver.

c. Resistence to 50 freeze-thaw cycles, when tested in accordance with ASTM C67. In addition, the clay paver must pass CSA-A231.2 freeze thaw test in saline solution without the use of sealers or other chemical treatments. A test report must be submitted by the manufacturer if required.

d. Dimensional tolerances shall meet the PX standard. The dimensional tolerances around the mean values for length, width, and depth shall be 1/16 inch.

e. The pavers shall be solid units without core holes or other perforations.

2.02 SETTING MATERIALS

A. Bedding and joint sand shall be clean, non-plastic, free from deleterious or foreign matter. The sand shall be natural or manufactured from crushed rock. Limestone screenings, masonry sand or stone dust shall not be used.

B. The grading of samples shall be done according to ASTM C136. Comply with ASTM C 33 requirements for fine aggregate and with the requirements of ICPI guide specifications for pavers on aggregate base, Grading Tables for Bedding and Joint Sand.

2.03 PAVING ACCESSORIES

A. Provide edge restraints shall be cast in place concrete per details.

PART 3 - EXECUTION

3.01 INSPECTION

A. Verify that subgrade preparation, compacted density and elevations conform to Section 02220 - Excavating, Filling and Grading.

B. Examine substrates and areas, for compliance with requirements for aggregate base materials, thickness, compaction, and installation tolerances and other conditions affecting installation. Proceed with installation only after unsatisfactory conditions have been corrected.

C. Verify location, type, installation and elevations of edge restraints around the perimeter area to be paved.

D. Verify that base is dry, uniform, even, and ready to support sand, pavers, and imposed loads.

E. Beginning of bedding sand and paver installation means acceptance of base and edge restraints

3.02 INSTALLATION

A. Do not use unit pavers with excessive chips, cracks, voids discolorations or other defects which might be visible or cause staining in finished work. Cut unit pavers with motor-driven saw equipment to provide clean, sharp, unchipped edges. Cut unit pavers to provide pattern shown and to fit adjoining work neatly. Use full units without cutting wherever possible.

B. Install edge restraints at locations and as detailed on drawings.

C. Spread the sand evenly over the base course and screed to a nominal 1 inch thickness, not exceeding 1-1/2 inch thickness. The screeded sand should not be disturbed. Place sufficient sand to stay ahead of the laid pavers. Do not use the bedding sand to fill depressions in the base surface.

D. Ensure that pavers are free of foreign materials before installation.

E. Lay the pavers in the Herringbone pattern. Maintain straight pattern lines.

F. Joints between the pavers on average shall be between 1/16 inch and 1/8 inch wide.

G. Fill gaps at the edges of the paved area with cut pavers or edge units. Pavers that will be placed along the edge shall be cut with a masonry saw or paver splitter and shall not be less than one-third a full paver.

H. Use a low amplitude, high frequency plate vibrator to vibrate the pavers into the sand.

I. Vibrate the pavers, sweeping dry joint sand into the joints and vibrating until they are full. This will require at least two or three passes with the vibrator. Do not vibrate within 3 feet of the unrestrained edges of the paving units.

J. All work to within 3 feet of the laying face must be left fully compacted with sand-filled joints at the completion of each day.

K. Sweep off excess sand when the job is complete.

L. The final surface elevations shall not deviate more than 3/8 inch under a 10 feet long straightedge.

M. The surface elevation of pavers shall be 1/8 inch to 1/4 inch above adjacent drainage inlets, concrete collars or channels.

N. Resanding as necessary of paver joints shall be accomplished by contractor for a period of 90 days after completion of work.

3.03 SEALING AND JOINT SAND STABILIZATION

A. Apply joint sand stabilization materials between concrete pavers in accordance with the manufacturers written recommendations.

3.04 FIELD QUALITY CONTROL

A. After removal of excess sand, check final elevations for conformance to the drawings.

3.05 REPAIR, CLEANING, AND PROTECTION

A. Remove and replace unit paver which are loose, chipped, broken, stained or otherwise damaged, or if units do not match adjoining units as intended. Provide new units to match adjoining units and install in same manner as original units, with same joint treatment to eliminate evidence of replacement.

B. Protect paving installation from deterioration, discoloration or damage during subsequent construction and until acceptance of work, in compliance with recommendations of installer and paving unit manufacturer.

3.06 MAINTENANCE

A. The paver installer shall return to the site at the owner's request for a period of up to one year from substantial completion to rectify any problems in the work caused by a failure to adequately align the pavers, compact the bedding sand, fill the joints, or carry out any other specified activity with in the installer's control.

END OF SECTION

Construction of a New District Headquarters Building in Tupelo, known as State Project No. BWO-1180-41(001) / 501637301, in the County of Lee, State of Mississippi.

I (We) agree to complete the entire project within the specified contract time.

***** SPECIAL NOTICE TO BIDDERS *****
BIDS WILL NOT BE CONSIDERED UNLESS BOTH UNIT PRICES AND ITEM TOTALS ARE ENTERED.
BIDS WILL NOT BE CONSIDERED UNLESS THE BID CERTIFICATION LOCATED AT THE END OF THE BID SHEETS IS SIGNED

*****BID SCHEDULE*****

Line No.	Item Code	Adj Code	Quantity	Units	Description	Unit Price		Item Amount	
						Dollar	Ct	Dollar	Ct
Roadway Items									
0010	203-A003	(E)	125	Cubic Yard	Unclassified Excavation, FM, AH				
0020	209-A001		18	Square Yard	Geotextile Stabilization, Type V				
0030	216-B004		779	Square Yard	Solid Sodding, Bermuda				
0040	224-A001		1,012	Square Yard	Soil Reinforcing Mat				
0050	234-A001		880	Linear Feet	Temporary Silt Fence				
0060	235-A001		29	Bale	Temporary Erosion Checks				
0070	602-A001	(S)	724	Pounds	Reinforcing Steel				
0080	603-CB014	(S)	6	Each	15" Reinforced Concrete End Section				

Line No.	Item Code	Adj Code	Quantity	Units	Description	Unit Price		Bid Amount	
0090	604-B001		2,664	Pounds	Gratings				
0100	604-C001	(S)	1	Linear Feet	Precast Manhole, 48" Diameter				
0110	608-B001	(S)	368	Square Yard	Concrete Sidewalk, With Reinforcement				
0120	609-D008	(S)	410	Linear Feet	Combination Concrete Curb and Gutter Type 3A				
0130	620-A001		1	Lump Sum	Mobilization	XXXXXXXX	XXX		
0140	815-A001	(S)	3	Square Yard	Loose Riprap, Size 100				
0150	907-227-A001		1	Acre	Hydroseeding				
0155 Added 07/20/2010	907-237-A003		200	Linear Feet	Wattles, 20"				
0160	907-258-N001		3	Each	Car Stop				
0170	907-601-B003	(S)	8	Cubic Yard	Class "B" Structural Concrete, Minor Structures				
0180	907-601-PP002	(S)	22	Each	18" x 18" Polymer Catch Basin				
0190	907-603-PVC02	(S)	15	Linear Feet	24" Corrugated Poly Vinyl Chloride Pipe				

Line No.	Item Code	Adj Code	Quantity	Units	Description	Unit Price		Bid Amount	
0200	907-603-PVC05	(S)	390	Linear Feet	6" Corrugated Poly Vinyl Chloride Pipe				
0210	907-603-PVC06	(S)	320	Linear Feet	12" Corrugated Poly Vinyl Chloride Pipe				
0220	907-603-PVC07	(S)	140	Linear Feet	15" Corrugated Poly Vinyl Chloride Pipe				
0230	907-611-PP005	(S)			Deleted 07/20/2010	XXXXXXXX	XXX	XXXXXXXX	XXX
0240	907-809-PP005	(S)			Deleted 07/20/2010	XXXXXXXX	XXX	XXXXXXXX	XXX
					Building Items				
0250	907-242-A006		1	Lump Sum	Construction of a District Headquarters Building	XXXXXXXX	XXX		

*** BID CERTIFICATION ***

TOTAL BID.....$_____

*** SIGNATURE STATEMENT ***

BIDDER ACKNOWLEDGES THAT HE/SHE HAS CHECKED ALL ITEMS IN THIS PROPOSAL FOR ACCURACY AND CERTIFIED THAT THE FIGURES SHOWN THEREIN CONSTITUTE THEIR OFFICIAL BID.

_____

BIDDER'S SIGNATURE

_____

BIDDER'S COMPANY

_____

BIDDER'S FEDERAL TAX ID NUMBER