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WV PUBLIC SAFETY
DIVISION

State of West Virginia

Division of Culture & History

Cultural Center

RFQ# DCH12046

February 7, 2012 – 1:30pm

Prepared by:

Patterson Pope

Corporate Office

3001 N. Graham Street
Charlotte, NC 28206
704-523-4400

Local Office

115 Brand Avenue
Salem, VA 24153
540-389-7726

Contact – Kirk Martin
540-389-7726 – office
540-520-8767 – cell
kmartin@pattersonpope.com

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State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER

DCH12046

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ADDRESS CORRESPONDENCE TO ATTENTION OF:

KRISTA FERRELL
304-558-2596

VENDOR

Patterson Pope
3001 N. Graham St.
Charlotte, NC 28206

SHIP TO

DIVISION OF CULTURE & HISTORY

CULTURAL CENTER
1900 KANAWHA BOULEVARD, EAST
CHARLESTON, WV
25305-0300 558-0220

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
01/12/2012				
BID OPENING DATE:	02/02/2012	BID OPENING TIME	01:30PM	

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>NOTICE TO THE VENDOR IF THE MATERIALS OR WORKMANSHIP SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HERE IN.</p> <p>WAGE RATES: THE CONTRACTOR OR SUBCONTRACTOR SHALL PAY THE HIGHER OF THE U.S. DEPARTMENT OF LABOR MINIMUM WAGE RATES AS ESTABLISHED FOR KANAWHA COUNTY, PURSUANT TO WEST VIRGINIA CODE 21-5A, ET, SEQ. (PREVAILING WAGE RATES APPLY TO THIS PROJECT)</p> <p>ARBITRATION: ANY REFERENCES MADE TO ARBITRATION OR INTEREST FOR PAYMENTS DUE (EXCEPT FOR ANY INTEREST REQUIRED BY STATE LAW) CONTAINED IN THIS CONTRACT OR IN ANY AMERICAN INSTITUTE OF ARCHITECTS DOCUMENTS PERTAINING TO THIS CONTRACT ARE HEREBY DELETED.</p> <p>WORKERS' COMPENSATION: VENDOR IS REQUIRED TO PROVIDE A CERTIFICATE FROM WORKERS' COMPENSATION IF SUCCESSFUL.</p> <p>ALL OF THE ITEMS CHECKED BELOW WILL BE A REQUIREMENT OF THIS CONTRACT:</p> <p>(XX) INSURANCE: SUCCESSFUL VENDOR SHALL FURNISH PROOF OF COMMERCIAL GENERAL LIABILITY INSURANCE PRIOR TO ISSUANCE OF CONTRACT. UNLESS OTHERWISE SPECIFIED IN THE BID DOCUMENTS, THE MINIMUM AMOUNT OF INSURANCE COVERAGE REQUIRED IS \$1,000,000.00.</p> <p>() BUILDERS RISK INSURANCE: SUCCESSFUL VENDOR SHALL FURNISH PROOF OF BUILDERS RISK - ALL RISK INSURANCE IN AN AMOUNT EQUAL TO 100% OF THE AMOUNT OF THE CONTRACT.</p> <p>(XX) BONDS: FIVE PERCENT (5%) OF THE TOTAL AMOUNT OF THE BID PAYABLE TO THE STATE OF WEST VIRGINIA, SHALL BE SUBMITTED WITH EACH BID AS A BID BOND. THE SUCCESSFUL</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
<i>Karl D. Munt</i>	540-389-7726	2/6/12
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
Regional Sales Manager	56-0986683	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



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<p>BIDDER SHALL ALSO FURNISH A PERFORMANCE BOND AND LABOR/MATERIAL BOND FOR 100% OF THE AMOUNT OF THE CONTRACT. BONDS MAY BE PROVIDED IN THE FORM OF A CERTIFIED CHECK, IRREVOCABLE LETTER OF CREDIT, OR BOND FURNISHED BY A SOLVENT SURETY COMPANY AUTHORIZED TO DO BUSINESS IN THE STATE OF WEST VIRGINIA. A LETTER OF CREDIT SUBMITTED IN LIEU OF A BOND WILL ONLY BE ALLOWED FOR PROJECTS UNDER \$100,000. PERSONAL OR BUSINESS CHECKS ARE NOT ACCEPCTABLE IN LIEU OF THE 5% BID BOND, PERFORMANCE BOND, OR LABOR AND MATERIAL BOND.</p> <p>() MAINTENANCE BOND: A TWO (2) YEAR MAINTENANCE BON COVERING THE ROOFING SYSTEM WILL BE A REQUIREMENT OF THE SUCCESSFUL VENDOR.</p> <p>REV. 11/00</p> <p>EXHIBIT 7</p> <p>DOMESTIC ALUMINUM, GLASS & STEEL IN PUBLIC WORKS PROJECTS</p> <p>IN ACCORDANCE WITH WEST VIRGINIA CODE 5-19-1 ET., SEQ., EVERY CONTRACT FOR CONSTRUCTION, RECONSTRUCTION, ALTERATION, REPAIR, IMPROVEMENT OR MAINTENANCE OF PUBLIC WORKS, WHERE THE COST IS MORE THAN \$50,000 AND, IN THE CASE OF STEEL ONLY, WHERE THE COST OF STEEL IS MORE THAN \$50,000 OR WHERE MORE THAN 10,000 POUNDS OF STEEL ARE REQUIRED, THE STATE WILL ACCEPT ONLY ALUMINU GLASS, OR STEEL PRODUCTS PRODUCED IN THE UNITED STATES. IN ADDITION, ITEMS OF MACHINERY OR EQUIPMENT PURCHASED FOR USE AT THE SITE OF PUBLIC WORKS SHALL BE MADE OF DOMESTIC ALUMINUM, GLASS OR STEEL, UNLESS THE COST OF THE PRODUCT IS LESS THAN \$50,000 OR LESS THAN 10,000 POUNDS OF STEEL ARE USED IN PUBLIC WORKS PROJECTS.</p>						

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<i>Krista Ferrell</i>	540-389-7726	2/6/12
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
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<p>FOREIGN MADE ALUMINUM, GLASS OR STEEL PRODUCTS MAY BE ACCEPTED ONLY IF THE COST OF DOMESTIC PRODUCTS IS FOUND TO BE UNREASONABLE. SUCH COST IS UNREASONABLE IF IT IS 20% OR MORE HIGHER THAN THE BID PRICE FOR FOREIGN MADE PRODUCTS. IF THE DOMESTIC ALUMINUM, GLASS OR STEEL PRODUCTS TO BE SUPPLIED OR PRODUCED IN A "SUBSTANTIAL LABOR SURPLUS AREA", AS DEFINED BY THE UNITED STATES DEPARTMENT OF LABOR, FOREIGN PRODUCTS MAY BE SUPPLIED ONLY IF DOMESTIC PRODUCTS ARE 30% OR MORE HIGHER IN PRICE THAN THE FOREIGN MADE PRODUCTS.</p> <p>IF, PRIOR TO THE AWARD OF A CONTRACT UNDER THE ABOVE PROVISIONS, THE SPENDING OFFICER OF THE SPENDING UNIT DETERMINES THAT THERE EXISTS A BID FOR LIKE FOREIGN ALUMINUM, GLASS OR STEEL THAT IS REASONABLE AND LOWER THAN THE LOWEST BID DOMESTIC PRODUCTS, THE SPENDING OFFICE MAY REQUEST, IN WRITING, A REEVALUATION AND REDUCTION IN THE LOWEST BID FOR SUCH DOMESTIC PRODUCTS. ALL VENDORS MUST INDICATE IN THEIR BID IF THEY ARE SUPPLYING FOREIGN ALUMINUM, GLASS OR STEEL.</p> <p>REV. 3/88</p> <p>EXHIBIT 9</p> <p>NOTICE FOR ISSUANCE & ACKNOWLEDGEMENT OF CONSTRUCTION PROJECT ADDENDA</p> <p>THE ARCHITECT/ENGINEER AND/OR AGENCY SHALL BE REQUIRED TO ABIDE BY THE FOLLOWING SCHEDULE IN ISSUING CONSTRUCTION PROJECT ADDENDA FOR STATE AGENCIES:</p> <p>(1) THE ARCHITECT/ENGINEER SHALL PREPARE THE ADDENDUM AND A LIST OF ALL PARTIES THAT HAVE PROCURED DRAWINGS</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE	[Signature]			TELEPHONE	540-389-7726	DATE 2/6/12
TITLE	Regional Sales Manager			FEIN	56-0986683	ADDRESS CHANGES TO BE NOTED ABOVE

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<p>AND SPECIFICATIONS FOR THE PROJECT. THE ADDENDUM AND LIST SHALL BE FORWARDED TO THE BUYER IN THE STATE PURCHASING DIVISION. THE ARCHITECT/ENGINEER SHALL ALSO SEND A COPY OF THE ADDENDUM TO THE STATE AGENCY FOR WHICH THE CONTRACT IS ISSUED.</p> <p>(2) THE BUYER SHALL SEND THE ADDENDUM TO ALL INTERESTED PARTIES AND, IF NECESSARY, EXTEND THE BID OPENING DATE. ANY ADDENDUM SHOULD BE RECEIVED BY THE BUYER WITHIN FOURTEEN (14) DAYS PRIOR TO THE BID OPENING DATE.</p> <p>(3) ALL ADDENDA SHOULD BE FORMALLY ACKNOWLEDGED BY ALL BIDDERS AND SUBMITTED TO THE STATE PURCHASING DIVISION. THE SAME RULES AND REGULATIONS THAT APPLY TO THE ORIGINAL BIDDING DOCUMENT SHALL ALSO APPLY TO AN ADDENDUM DOCUMENT. THE ONLY EXCEPTION MAY BE FOR AN ADDENDUM THAT IS ISSUED FOR THE SOLE PURPOSE OF CHANGING A BID OPENING TIME AND/OR DATE.</p> <p>REV. 11/96</p> <p>EXHIBIT 10</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NOS.:</p> <p>NO. 1 ✓</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Krista Ferrell</i>	TELEPHONE 540-389-7726	DATE 2/6/12
TITLE Regional Sales Manager	FEIN 56-0986683	ADDRESS CHANGES TO BE NOTED ABOVE

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Patterson Pope
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NO. 2	✓					
NO. 3	✓					
NO. 4						
NO. 5						

I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF THE BIDS.

VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.

..... *W. L. Munt* SIGNATURE
..... Patterson Pope COMPANY
..... 2/6/12 DATE

REV. 11/96

CONTRACTORS LICENSE

WEST VIRGINIA STATE CODE 21-11-2 REQUIRES THAT ALL PERSONS DESIRING TO PERFORM CONTRACTING WORK IN THIS STATE MUST BE LICENSED. THE WEST VIRGINIA CONTRACTORS LICENSING BOARD IS EMPOWERED TO ISSUE THE CONTRACTORS LICENSE. APPLICATIONS FOR A CONTRACTORS LICENSE MAY BE MADE BY CONTACTING THE WEST VIRGINIA DIVISION OF LABOR

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				CAPITOL COMPLEX, BUILDING 3, ROOM 319, CHARLESTON, WV 25305. TELEPHONE: (304) 558-7890.		
				WEST VIRGINIA STATE CODE 21-11-11 REQUIRES ANY PROSPECTIVE BIDDER TO INCLUDE THE CONTRACTORS LICENSE NUMBER ON THEIR BID.		
				BIDDER TO COMPLETE:		
				CONTRACTORS NAME: Patterson Pope		
				CONTRACTORS LICENSE NO.: WV049171		
				THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FURNISH A COPY OF THEIR CONTRACTORS LICENSE PRIOR TO ISSUANCE OF A PURCHASE ORDER/CONTRACT		
				APPLICABLE LAW		
				THE WEST VIRGINIA STATE CODE, PURCHASING DIVISION RULES AND REGULATIONS, AND THE INFORMATION PROVIDED IN THE "REQUEST FOR QUOTATION" ISSUED BY THE PURCHASING DIVISION IS THE SOLE AUTHORITY GOVERNING THIS PROCUREMENT.		
				ANY INFORMATION PROVIDED IN SPECIFICATION MANUALS, OR ANY OTHER SOURCE, VERBAL OR WRITTEN, WHICH CONTRADICTS OR ALTERS THE INFORMATION PROVIDED FROM THE SOURCES AS DESCRIBED IN THE ABOVE PARAGRAPH IS VOID AND OF NO EFFECT.		
				BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.		

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

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<i>Krista Ferrell</i>	540-389-7726	2/6/12
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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
	REV. 5/2009					
				NOTICE		
				A SIGNED BID MUST BE SUBMITTED TO:		
				DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130		
				THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:		
				SEALED BID		
				BUYER:	KRISTA FERRELL-FILE 21	
				REQ. NO.:	DCH12046	
				BID OPENING DATE:	02/02/2012	
				BID OPENING TIME:	1:30 PM	
				PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:		
				-----540-389-9702-----		
				PLEASE PRINT OR TYPE NAME OF PERSON TO CONTACT CONCERNING THIS QUOTE:		
				-----Kirk Martin-----		

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

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<i>K. L. Martin</i>	540-389-7726	2/6/12
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001	1	LS	495-35			
COLLECTION STORAGE SYSTEM FOR DCH						
REQUEST FOR QUOTATION						
<p>THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF CULTURE AND HISTORY IS SOLICITING BIDS FOR ALL LABOR AND MATERIALS FOR THE INSTALLATION OF A COLLECTION STORAGE SYSTEM FOR THE WEST VIRGINIA STATE MUSEUM (SPACE SAVER, OR EQUAL) PER THE ATTACHED SPECIFICATIONS.</p> <p>A MANDATORY PRE-BID WILL BE HELD ON FRIDAY, JANUARY 20, 2012 AT 02:00 PM AT THE AGENCY'S LOCATION AT 1900 KANAWHA BOULEVARD EAST (BLDG. 9) IN CHARLESTON, WV. ALL VENDOR ARE ASKED TO ASSEMBLE IN THE GREEN ROOM. INTERESTED PARTIES ARE REQUIRED TO ATTEND THIS MEETING. FAILURE TO ATTEND THE MANDATORY PRE-BID SHALL RESULT IN DISQUALIFICATION OF THE BID. NO ONE PERSON MAY REPRESENT MORE THAN ONE BIDDER.</p> <p>AN ATTENDANCE SHEET WILL BE MADE AVAILABLE FOR ALL POTENTIAL BIDDERS TO COMPLETE. THIS WILL SERVE AS THE OFFICIAL DOCUMENT VERIFYING ATTENDANCE AT THE MANDATORY PRE-BID. FAILURE TO PROVIDE YOUR COMPANY AND REPRESENTATIVE NAME ON THE ATTENDANCE SHEET WILL RESULT IN DISQUALIFICATION OF THE BID. THE STATE WILL NOT ACCEPT ANY OTHER DOCUMENTATION TO VERIFY ATTENDANCE.</p>						

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<p>THE BIDDER IS RESPONSIBLE FOR ENSURING THEY HAVE COMPLETED THE INFORMATION REQUIRED ON THE ATTENDANCE SHEET. THE PURCHASING DIVISION AND THE STATE AGENCY WILL NOT ASSUME ANY RESPONSIBILITY FOR A BIDDER-S FAILURE TO COMPLETE THE PRE-BID ATTENDANCE SHEET. IN ADDITION, WE REQUEST THAT ALL POTENTIAL BIDDERS INCLUD THEIR E-MAIL ADDRESS AND FAX NUMBER.</p> <p>ALL POTENTIAL BIDDERS ARE REQUESTED TO ARRIVE PRIOR TO THE STARTING TIME FOR THE PRE-BID. BIDDERS WHO ARRIVE LATE, BUT PRIOR TO THE DISMISSAL OF THE TECHNICAL PORTION OF THE PRE-BID WILL BE PERMITTED TO SIGN IN. BIDDERS WHO ARRIVE AFTER CONCLUSION OF THE TECHNICAL PORTION OF THE PRE-BID, BUT DURING ANY SUBSEQUENT PART OF THE PRE-BID WILL NOT BE PERMITTED TO SIGN THE ATTENDANCE SHEET.</p> <p>TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST BE SUBMITTED IN WRITING TO KRISTA FERRELL IN THE WEST VIRGINIA STATE PURCHASING DIVISION VIA FAX AT 304-558-4115 OR VIA EMAIL AT KRISTA.S.FERRELL@WV.GOV.</p> <p>DEADLINE FOR ALL TECHNICAL QUESTIONS IS 01/24/2012 AT THE CLOSE OF BUSINESS.</p> <p>ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL WRITTEN ADDENDUM TO BE ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED.</p> <p>VERBAL COMMUNICATION: ANY VERBAL COMMUNICATION BETWEEN THE VENDOR AND ANY STATE PERSONNEL IS NOT BINDING, INCLUDING THAT MADE AT THE MANDATORY PRE-BID MEETING. ONLY INFORMATION ISSUED IN WRITING AND ADDED TO THE RFQ SPECIFICATIONS BY AN OFFICIAL WRITTEN ADDENDUM BY PURCHASING IS BINDING.</p>						

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BID OPENING DATE:	02/02/2012	BID OPENING TIME	01:30PM	

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>NO CONTACT BETWEEN THE VENDOR AND THE AGENCY IS PERMITTED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE STATE BUYER. VIOLATION MAY RESULT IN REJECTION OF THE BID. THE STATE BUYER LISTED ABOVE IS THE SOLE CONTACT FOR ANY AND ALL INQUIRIES AFTER THIS RFQ HAS BEEN RELEASED.</p> <p>ANY INDIVIDUAL SIGNING THIS BID IS CERTIFYING THAT: (1) HE OR SHE IS AUTHORIZED BY THE BIDDER TO EXECUTE THE BID OR ANY DOCUMENTS RELATED THERETO ON BEHALF OF THE BIDDER, (2) THAT HE OR SHE IS AUTHORIZED TO BIND THE BIDDER IN A CONTRACTUAL RELATIONSHIP, AND (3) THAT THE BIDDER HAS PROPERLY REGISTERED WITH ANY STATE AGENCIES THAT MAY REQUIRE REGISTRATION.</p> <p>EXHIBIT 5</p> <p>WEST VIRGINIA CODE 21-1D-5 PROVIDES THAT: ANY SOLICITATION FOR A PUBLIC IMPROVEMENT CONSTRUCTION CONTRACT REQUIRES EACH VENDOR THAT SUBMITS A BID FOR THE WORK TO SUBMIT AT THE SAME TIME AN AFFIDAVIT OF COMPLIANCE WITH THE BID. THE ENCLOSED DRUG-FREE WORKPLACE AFFIDAVIT MUST BE SIGNED AND SUBMITTED WITH THE BID AS EVIDENCE OF THE VENDOR'S COMPLIANCE WITH THE PROVISIONS OF ARTICLE 1D, CHAPTER 21 OF THE WEST VIRGINIA CODE. FAILURE TO SUBMIT THE SIGNED DRUG-FREE WORKPLACE AFFIDAVIT WITH THE BID SHALL RESULT IN DISQUALIFICATION OF SUCH BID.</p> <p>NOTICE TO PROCEED: THIS CONTRACT IS TO BE PERFORMED IN ACCORDANCE WITH SECTION EE OF THE ATTACHED SPECIFICATIONS. THE AGENCY WILL ISSUE A WRITTEN NOTICE TO PROCEED TO THE SUCCESSFUL VENDORS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Krista Ferrell</i>	TELEPHONE 540-389-7726	DATE 2/6/12
TITLE Regional Sales Manager	FEIN 56-0986683	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

DIVISION 10 - SPECIALTIES

ALL LABOR AND MATERIALS TO UPGRADE THE WV DIVISION OF CULTURE AND HISTORY COLLECTION STORAGE SYSTEM.**SECTION 10674 --MUSEUM STORAGE**

PART 1 - GENERAL

SUMMARY

- A. This Section includes the following:
 - 1. Storage shelving units, movable art rack, support rails, fabrication, and installation including leveling of support rails.
- B. Related Work (by others):
 - 1. Structural floor system capable of supporting live and dead loads required by prevailing building codes, including rolling loads of storage units to be installed.
 - 2. Finish floor covering materials and installation on raised floors and ramps or when on concrete with recessed rail installation.
 - 3. Power source located in storage room from adequate power supply.
 - 4. Also by others: Fire suppression, HVAC & lighting.
- C. Pre-Bid Meeting:
 - 1. A mandatory pre-bid conference is scheduled for January 20, 2012 at 2:00 PM at the West Virginia Division of Culture and History located at 1900 Kanawha Boulevard, East (Building 9 on the WV Capitol Complex) in Charleston, WV. Vendors are asked to assemble in the Green Room. It is the intent of the WVDCH to provide prospective contractors the opportunity to survey the installation site and the collection.
 - 2. Questions concerning this solicitation and those specific to the collection and the physical location of the storage area must be directed to Krista Ferrell, Buyer Supervisor via email at Krista.s.ferrell@wv.gov or via fax at 304-558-4115.

REFERENCES

- D. American National Standards Institute (ANSI) Standards:
 - 1. Applicable standards for fasteners used for assembly.
- E. American Society for Testing and Materials (ASTM) Standards:
 - 1. Applicable standards for steel sheet materials used for fabrication.
- F. American Institute Of Steel Construction (AISC) Standards:
 - 1. Applicable standards for steel materials used for fabrication.
- G. Underwriters' Laboratories (UL):
 - 1. Listings for electrical equipment and devices described in this specification.

DIVISION 10 - SPECIALTIES

SYSTEM DESCRIPTION

- H. General: The system consists of manufactured and WVDCH furnished storage units mounted on manufacturer's track-guided carriages (or to the floor as final design dictates) to form a compact storage system. System design permits access to any single aisle by moving units until the desired aisle is opened. The carriage/rail system provides uniform carriage movement along the total length of travel, even with unbalanced loads. System designs shall maintain an internal aisle no less than 45" within the system, and 40" within the art rack system.
- I. Carriage System Design and Features: The carriage system consists of a formed structural steel frame with hardened steel wheel riding on steel rails surface mounted to the floor. Rails shall be types specified to ensure smooth operation and self-centering of mobile storage units during travel without endplay or binding. Rail quantities and spacing shall be determined by the manufacturer to suit installation conditions and requirements. All bearings used in the drive mechanism shall be permanently shielded and lubricated.
- J. Movement Controls:
1. Movement shall be controlled by a programmable microprocessor, which provides controlled carriage movement speed, sequential starting and stopping, and custom programming features for access, safety and security.
 2. Provide a carriage control panel on the accessible (open) end of each moveable carriage, located 44 inches (1118 MM) above the base, centered on the face panel. Minimum controls shall include a Liquid Crystal (LCD) display, green MOVE (aisle opening) pushbuttons, STOP and RESET pushbuttons. Reset pushbutton shall include a red reset light, which is on continuously until reset button is pushed.
 3. System controls shall start motors on each movable carriage sequentially to minimize power demands and shall provide dynamic braking to provide smooth operation. Maximum running speed shall be limited to 3 inches (76 mm) per second.
 4. Provide solid state controls and indicator lights for a visual indication of safety system operation. Provide each aisle with an adjustable limit switch to ensure proper timing for start/stop operation.
 5. Pressing the MOVE (aisle opening) pushbutton on any moveable carriage adjacent to the desired aisle location opens the desired aisle. The selected aisle shall open automatically regardless of the position of the carriages unless the presently open aisle is either still occupied, or aisle sensors detect an object disrupting the sensors.
 - a. The carriage control head will display a red reset light at the newly opened aisle indicating that the aisle is locked open and requires resetting before another aisle can be opened.
- K. Drive System: The system shall be designed with a positive type power-assisted drive, which minimizes endplay and will stop carriages from drifting. All system components shall be as specified to ensure a smooth, even movement along the entire carriage length.
1. Each carriage shall be provided with a current limited fractional horsepower gear motor, connected to drive wheel assemblies 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.
 4. All bearings used in the drive mechanism shall be permanently shielded and lubricated.

DIVISION 10 - SPECIALTIES

5. System shall operate on a minimum of three (enabled by WVDCH) 115 V.A.C. 50/60 hertz, 20 amp dedicated circuit provided by owner.

L. Safety Features:

1. Visual indicators shall provide verification that carriages are in the locked or unlocked mode.
2. Provide an automatic battery backup system in case of power failure.
3. Entire system shall be U.L. system listed.
4. Photo sweep sensor system and electric braking devices shall be provided to stop carriage movement if the system detects objects or persons in the aisle while the carriage is in motion. Electro-mechanical sweeps are unacceptable.
5. Infrared sensor 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. Safety systems utilizing motion detection, heat sensors, or requiring force or pressure to activate safeties are unacceptable. System will automatically reset when person or object is removed from the aisle.

M. Finishes:

1. Fabricated Metal Components And Assemblies: Manufacturer's standard powder coat paint finish (a minimum of 20).
2. End Panels, Accessible Ends: Manufacturer's standard powder coat paint finish in standard available colors (a minimum of 20).
3. WVDCH, at their discretion may select multiple colors within the system.

PERFORMANCE REQUIREMENTS

N. Design Requirements:

1. Limit overall height to 105 inches (art-rack 108")
2. Maximum system length to be determined by contractor (by design) and approved by WVDCH.

- O. Seismic Performance: Provide mobile storage units capable of withstanding the effects of earthquake movement when required by applicable building codes.

P. Minimum storage requirements:

1. Wide span (cubic feet of storage): Six thousand four hundred (6,400)
2. Art-rack (total square footage of screen): Eight thousand two hundred (8,200)
3. Shelving for general collection (total square feet of shelving): Eight thousand (8,000)
4. Garment storage (linear feet): Two hundred eighty (280)
5. Textile storage (number of textiles 60" wide x 4" diameter): Nine hundred and sixty (960)

SUBMITTALS (SHOULD BE SUBMITTED WITH THE VENDORS BID)

- Q. Product Data: Submit manufacturer's product literature 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.

DIVISION 10 - SPECIALTIES

- R. Shop Drawings: Show fabrication, assembly, and installation details including descriptions of procedures and diagrams. Show complete extent of installation layout including clearances, spacing, 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. Furnish templates if required for accurate placement.
 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.
- S. Samples: Provide minimum 3 inch (76MM) square example of each color and texture on actual substrate for each component to remain exposed after installation.
- T. A certification letter signed by the contractor, stating that they have inspected the job site and understand fully the site logistics specific to, but not limited to bringing material into the building.
- U. Installer Certificates: Furnish signed certification by manufacturer attesting that installers comply with specified requirements.
- V. Submit manufacturer's certification that products comply with requirements of the contract documents.
- W. Warranty: Submit copy of proposed warranty for review by WVDCH.
- X. Manufacturers Reference List: Provide a list (minimum of (4) four) of recently installed mobile storage units of similar scope and size in a museum application. Intent of list is to aid in verifying the suitability of manufacturer's products and comparison with materials and product specified in this section. Submission shall include: Company or institution name, contact name, address, phone number, date the system was put into service, contract value or amount.
- Y. Contractors Reference List: Provide a list (minimum of (4) four) of recently installed mobile storage units. Intent of list is to aid in verifying the suitability of contractor's ability to provide the level of service required for a project of similar scope and size. Submission shall include: Company or institution name, contact name, address, phone number, date the system was put into service, contract value or amount.

DIVISION 10 - SPECIALTIES

- Z. Formaldehyde-free Certification Rail/Deck: Furnish signed certification by the manufacturer on their letterhead, to the attention of the WVDCH attesting that the machinable fiberboard does not contain, nor does it emit formaldehyde VOC's.
- AA. Off-Gassing Certification: Furnish signed certification by all manufacturers providing equipment on their letterhead, to the attention of the WVDCH attesting that the paint finishes used on the carriages, shelving and racks and all other steel painted surfaces do not contain off-gassing materials that can impact the collection.
- BB. The successful vendor shall submit a copy of their current West Virginia Contractors License.
- CC. The successful vendor shall provide the following required insurance: Workers' Compensation - Statutory requirements and benefits. Employer's Liability - \$100,000. Commercial General Liability - \$500,000 combined single limit. Commercial General Liability is to include Premises/Operations Liability, Products and Completed Operations Coverage, and Independent Contractor's Liability or Owner's and Contractor's Protective Liability. The West Virginia Division of Culture and History must be named as an additional insured when requiring a Contractor to obtain Commercial General Liability coverage. Automobile Liability - \$500,000 - Combined single limit.
- DD. Delivery of equipment and installation shall begin four (4) weeks ARO (after receipt of order) and approved submittals. Substantial completion shall be eighteen (18) weeks ARO. Due to the duration of the production and installation, Contractor and the West Virginia Purchasing Authority will determine a fair and reasonable billing sequence within five (5) days ARO.
- EE. Failure to provide, or not fully disclose deviations to specifications and mandatory submittals may be cause for disqualification.

QUALITY ASSURANCE

- FF. Manufacturer Qualifications: Engage an experienced manufacturer who is ISO 9001 certified for the design, production, installation and service of programmable electric, carriage mounted high-density mobile storage units and support rails. Furnish manufacturer's certification attesting ISO 9001 quality system registration. Should be included with bid submittal.
- GG. Installer Qualifications: Contractor shall have in their direct employ, two experienced installers who are authorized representatives of the shelving manufacturer for installing the storage systems, with not less than 5 years experience installing systems similar to those required for this project, and licensed or certified by manufacturer. Certification should be provided by manufacturer on manufacturer's letterhead at time of bid. Certifications by sales reps, dealers or distributors are unacceptable. Must be included with bid submittal.
- HH. Guaranteed minimum response time to service call of 48 hours required, and must be part of submittal. Engage an experienced installer who is a manufacturer's authorized representative for the specified products for installing carriages and anchoring shelving units to carriages.
- II. Manufacturers Certification: Should supply with the bid separate written certifications by manufacturer on manufacturers letterhead required stating compliance with all specifications of the shelving systems. Shelving certification must confirm compliance with all sizes as noted in these specifications.

DIVISION 10 - SPECIALTIES

- JJ. Contractor shall maintain a current Contractors License Authorized by the West Virginia Contractor Licensing Board.

DELIVERY, STORAGE AND HANDLING

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

PROJECT CONDITIONS

- LL. 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.
- MM. 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.

SEQUENCING AND SCHEDULING

- NN. Sequence storage shelving system installation with other work to minimize possibility of damage and soiling during remainder of construction period.
- OO. Schedule installation of specified products and accessories after finishing operations, including painting have been completed.
- PP. Provide components, which must be built in at a time, which causes no delays general progress of the Work.
- QQ. 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. Owner's Representative.
 - b. Prime Contractor or representative.
 - c. Manufacturer's representative.
 - d. Subcontractors or installers whose work may affect, or be affected by, the work of this section.
- RR. Phased installation :
- The size and breath of this project dictates a phased installation. It is the responsibility of the chosen contractor to work with WVDCH to coordinate the installation schedule. The phases of installation and sequencing will be determined by the contractor and WVDCH after both parties have evaluated the existing locations of the collection, the area to house the new systems and the amount of available temporary storage

DIVISION 10 - SPECIALTIES

space. Once evaluation has been completed, the contractor must provide WVDCH with a detailed written installation schedule.

WARRANTY

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

MAINTENANCE

- UU. Provide extended maintenance agreement for 1 year, commencing on the day the standard maintenance warranty ends. Warranty and maintenance dates will be established by Change Order after the successful installation and acceptance of the system by the agency.

PART 2 - PRODUCTS

MANUFACTURERS

- A. General: Products are based upon mobile shelving system products manufactured by Spacesaver Corporation. Contingent on meeting specification requirements, other acceptable manufacturers may be included.

BASIC MATERIALS

- B. General: Provide materials and quality of workmanship, which meet or exceed established industry standards for products specified. Use furniture grade sheet metal for component fabrication unless indicated otherwise.
- C. Electrical Devices and Controls; UL Listed for type of application and service.

GROUT

- D. 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.
 - 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

DIVISION 10 - SPECIALTIES

MANUFACTURED COMPONENTS

E. Rails:

1. Rail shall be one piece, cold drawn structural "T" section 1035 steel extrusion 1-1/16" (27mm) high with a 2-1/8" (54mm) base flange, a 5/8" (16mm) minimum contact top surface and two anti-tip grooves. Rail shall disperse the wheel point load to a minimum 4-1/4" square inch (27.5 cm) area at the base of the rail. All rail joints to be tongue and groove to provide horizontal and vertical continuity between rail sections, to gradually transfer the concentrated wheel point load to and from adjoining rail sections. Rail shall have two leveling screws and two permanently mounted floor anchors maximum 36" (914mm) o.c. Rails shall be permanently attached to top of structural floor system with provision for leveling rails to compensate for variations in floor surface level.

F. Floor / Ramp:

1. Floor/Ramp Sheathing: Minimum 3/4 inch (19MM), formaldehyde free fiberboard.
2. Floor finish shall be applied by contractor. All exposed surfaces shall be coated with no less than one (1) layer of latex primer. Edges and underside of deck primer must be completed prior to deck and ramp installation. The walking surface shall be coated with no less than two (2) finish layers of a latex based deck finish.
3. Adjustable, inverted "T" supports shall support the deck no less than 16" on center.
4. All other floors not covered by Floor/Ramp will be the responsibility of others.

G. Carriages:

1. Carriages shall be minimum 1,000 lbs. (1500kg) per linear carriage foot (meter) capacity, fixture unit welded, uni-frame assemblies constructed of 12 ga. steel with main supporting structural face sections 5-3/4" (146 mm) high with two reinforcing flanges running the full length of the carriage. Galvanized structural components and/or riveted carriages are unacceptable.
2. Main supporting structural face sections shall provide a 3/4" (19mm) shelf mounting recess for positive shelving alignment and attachment. Top mount carriages are unacceptable. Wheel support sections shall be 12 ga. steel and shall be welded between the main support face sections, one per rail assembly. A minimum of two carriage face panel supports shall be provided for each face panel to fully support its weight and provide positive alignment. Provide each carriage that is less than 60" wide with no less than two wheels per rail and four wheels for carriages wider than 60".
3. When required, provide tension bolted carriage splices designed to maintain proper unit alignment and weight load distribution. Carriage face sections shall provide a smooth clean appearance without any exposed assembly holes or protruding hardware. Carriage shall be powder coat painted from manufacturer's standard colors.

H. Drive / Guide System:

1. Design: Provide a steady drive and guidance system which prevents carriage whipping, binding and excessive wheel/rail wear under normal operation.
 - a. Drive System: Dual synchronized drive wheels on both sides of designated wheel housing(s), connected with a #40 roller chain to ensure even wheel movement. Multiple Synchro System assemblies shall be interconnected with

DIVISION 10 - SPECIALTIES

a continuous 1-1/4" steel tube drive shaft (solid steel rod will not be accepted) for simultaneous wheel rotation and even, parallel carriage movement. Drive shaft (shaft connections shall be secured coupling type) shall exhibit no play or looseness over the entire length of that assembly. Load wheels shall be 5" (127mm). All wheels to be machined from solid 1045 steel and equipped with two (2) permanently shielded bearing assemblies. Spacers to be provided on both sides of wheel bearings to eliminate friction between wheels and carriage. Line shaft drive systems, driving wheels on only one side of carriage, will not be accepted.

- b. Guidance System: Provide four roller type guide bearings per wheel channel assembly, two at the end of each wheel channel. Guide bearings shall be precision machined, cam follower type of hardened steel, permanently lubricated and adjustable to ensure proper alignment of the carriages. Maximum profile of recess adjacent to rail for guide bearings and anti-tip system: 1-1/8" (28mm) wide x 3/4" (19mm) deep. Guidance system relying on cast iron wheels, dual flange, center flange or concave wheels are unacceptable.
- c. Anti-tip safety: Provide two opposing in rail anti-tip assemblies per wheel channel that inter-member with the rails system's anti-tip grooves and are fully adjustable to ensure proper alignment.

I. Motors:

- 1. Permanent Magnet motor type, 90VDC, 1/8 H.P. rating, continuous duty, 225 in. lbs.
- 2. Gear motor input RPM 1900 (full load), output RPM 30, gear ratio 60:1, 1.3 amps, 270 in. lbs torque at full load.
- 3. U.L. Recognized motor construction Class "A" minimum.
- 4. All gears shall be steel and the output shaft shall be sealed.
- 5. Allowable minimum noise levels (no load 60 dB max., pre-load 63 dB max).
- 6. Carriages less than 40' shall be equipped with one motor. Carriages more than 40' - 1" shall be equipped with two motors.

J. Face Panels:

- 1. Steel end panels. Laminated end panels, using traditional fiberboard, adhesives and laminates are not acceptable.
 - a. All exposed ends (refer to design drawings) shall have steel face panels covering the full width and height of the carriage and storage housing.
 - b. Face panels shall be constructed of 18 gauge (1.2 mm thick) steel using a 4-bend structural design that forms a 2 1/4" (57mm) thick edge channel that runs the full length of each vertical edge.
 - c. A minimum of three 18 gauge (1.2 mm thick) structural hat channel supports shall be welded into the back of the panel at the top, base and center to provide unit rigidity.
 - d. Face panels shall be free of any exposed assembly holes or protruding hardware, and shall be assembled without any exposed sharp edges. For high density storage applications, two 3" x 5" (76mm x 127mm) cardholders shall be provided per aisle entry location and attached to the end panels with centers located 60" (1624mm) above the finished floor.

DIVISION 10 - SPECIALTIES

2. Finishes: Selected from manufacturer's standard available colors and patterns. A minimum of 20 colors shall be offered.

K. Art Racks:

1. Rails: Same as specification 2.4, A, 1.
2. Raised Floor: Same as specification 2.4, B, 1-4.
3. Carriage & Frame: Modular steel construction consisting of mesh panels constructed of 10 gauge (.135) steel wire, woven into 2" x 1" rectangular mesh and securely welded to a 1.25" x 1.25" x 1/8" steel angle frame. Frames have .875" x .437" slotted holes for mounting to posts and adjacent panel assemblies. Panels 4' to 7' wide have one .25" x .75" stiffener welded to the frame. Wider panels have two stiffeners. Panels are bolted back to back to a 3" x 1.5" x .125" carbon vertical steel tube posts. This forms a double face unit with no protruding frame assemblies. Double ply mesh is required for independent storage. Racks using a single ply mesh are unacceptable. The vertical posts are bolted to a horizontal 12 gauge hot rolled wheel housing assemblies. A powder coat finish is applied to all components. Finish is inert; free of emissions and volatiles (wet spray applications unacceptable). Total frame height not to exceed 108".
4. Wheels: Hardened steel wheels to be a minimum 3" in diameter with two (2) permanently shielded ball bearing assemblies. Wheels to be hardened. Provide spacers at both sides of wheel bearings to eliminate all friction between wheels and carriage. Provide four (4) roller-type guide bearings and two (2) anti-tip mechanisms per track assembly at the leading edge of the carriage. Guide rollers to be adjustable to insure proper alignment of carriages. Cast iron wheels, dual flange, center flange or concave wheels are unacceptable.
5. S-hooks – 50 hooks per panel.
6. Handles – Each manual art-rack shall be equipped with a handle to move the frame across the rail sub-structure.

L. Textile Racks

1. Vertical posts and bottom legs shall be 2" x 2" x 14 gauge square tubing. Horizontal supports shall be no less than 1" x 1" x 15 ga. square tubing. Tubing to be MIG welded into a solid unit. Top shall be 18 gauge steel welded to tubing frame. Bottom legs to have holes to allow attachment to moveable carriages or floor holes to be capped with polyethylene snap in plugs after the frame unit is installed. Horizontal supports shall be spaced on 12" centers vertically. Frame unit to be sandblasted prior to powder coating.
2. Metal shall be 16 ga. and MIG welded. Cantilever support to be designed to be moved horizontally on frame unit horizontal supports. Cantilever support to be secured in place with a zinc plated, spade head thumb screw 1/4" -20 x 3/4" long. Supports designed to accept conduit brackets on 1" centers in the front to back orientation. Cantilever textile supports is adjustable across the entire system length (as oriented left to right) of the full length of the carriage or stationery range.
3. Rolled conduit tube insert to be no less than 1-1/2" EMT conduit. Rolled conduit tube insert to be 10" to 12" longer than the either the textile or the acid free cardboard tube it is to enter. Insert to be supported by two brackets adjustable on 1" centers front to back on the cantilever textile support. For rolled textiles greater than 144", a 3" diameter schedule aluminum tube to be used as the insert.
4. All materials have been examined for "non-reactivity" and their use shall be subject to approval in this regard. "Non-reactivity" as used herein means that the material is chemically stable and does not off-gas or physically degrade to produce any of the

DIVISION 10 - SPECIALTIES

following: urea formaldehyde, free sulfate radicals, sulfides, free sulfur, chlorides, acetates, chlorine, formaldehyde, oxides of nitrogen, oxides of sulfur, ammonia, organic acids, disodium phosphate, di butyl phalate, acid hardened phenol formaldehyde resins, peroxides, volatile organic compounds, or plasticizers lacking long-term stability.

M. Garment Hanger Rod Assembly

1. Hanger rod brackets will be fabricated of no less than 16 ga. and will be installed in shelf units. Brackets to be powder coated.
2. Hanger rod will be no less than 1-5/16" O.D. with a wall thickness of .080" and chrome plated. Hanger rod to set within elliptical ring attached to bracket.
3. Assembly is adjustable vertically within the shelf unit on 1-1/2" centers.
4. Garment racks shall be 26" deep.

N. Shelving

1. Design: Wedge-lock type consisting of uprights, shelves, and shelf supports, designed to be assembled without fasteners or clips. Shelves shall not have any holes on exposed surfaces. Front and back flanges shall be flush with outside faces of posts. Design shall permit individual shelf adjustment and/or removal anywhere along the entire height of uprights.
2. Materials and Workmanship: Fabricate units from Class 1, cold-rolled steel sheet with all bends sharp and true and no exposed "knife" edges.
3. All units shall be free of burrs, sharp edges and projecting hardware with smooth, non-abrasive surfaces and edges.
4. After fabrication, shelving shall exhibit no dents, "oil canning", buckling or other surface irregularities.
5. Uprights: Closed single wall uprights - Formed from steel sheet to a hollow "tee" shape for intermediate supports and formed angles for end supports. Uprights shall have keyhole slots on inner wall only. Provide with sheet steel panels full height and depth of end uprights. Provide intermediate "tee" uprights between adjacent units. Closed double wall uprights - Formed from steel sheet to a hollow "tee" shape for intermediate supports and formed angles for end supports. Uprights shall have keyhole slots on inner wall only. Provide intermediate "tee" uprights between adjacent units. There shall be a 24-gauge steel panel welded to both sides of the two posts to form a hollow, closed upright which is flush with the steel posts. There shall be a recess channel adjacent to the posts that conceals shelf supports and provides for a back stop in single faced units. Double faced units shall have a recess channel at mid-depth for installation of a center stop. Double wall style uprights shall be used for storage of items that can be easily damaged such as textiles and garments. Closed single wall style uprights (all closed) shall be used for the general collection.
6. Shelves: Form from 18 gauge sheet steel with flanges on all sides and return hem on front and back flanges. Ends shall be formed to clear inside of upright offset panels. Shelves shall be independently adjustable.
7. Canopy Tops: Same construction as shelf units.
8. Shelf Supports: Form from 11 gauge steel sheet with four solid steel shoulder rivets, two per ear, that interlock with inner wall of uprights. Shelf supports used for the bottom shelf must be factory produced and not field modified for use when attaching shelving superstructure to carriage.

DIVISION 10 - SPECIALTIES

9. All horizontal storage shelves shall be a textured and raised surface finish, with 20 standard factory colors to select from.
10. Standard Depths: 9, 10, 12, 13, 15, 16, 18, 20, 24, 26, 30, 32 or 36 inch depth selection to meet project requirements.
11. Standard Width: 28, 30, 40, 42, 46, or 48 inch width selection to meet project requirements.
12. Shelf Edge Vertical Profile: 3/4 inch (19MM) maximum.
13. Vertical Adjustment Increment: 1-1/2 inches (38MM).
14. Width Of Intermediate Uprights: 2 inches (51MM).
15. Clearance Between Uprights: Nominal shelf section width minus 2 inches (51MM).
16. Levelness of Completed Shelf Units: Maximum 1/8 inch (3.2MM) between bottom shelf and canopy top, measured along the edge of any upright in any direction.
17. Number of Vertical Shelf Spaces: As indicated on the drawings [as design dictates].
18. Vertical Shelf-To-Shelf Spacing: As indicated on the drawings [as design dictates].
19. Load Carrying Capabilities: Provide shelf units capable of supporting 40 pounds per lineal foot (18kg/305MM) with maximum deflection of L/140. Shelves shall exhibit no permanent deflection under fully loaded conditions.
20. Accessories [as design dictates]: Provide bin fronts, dividers, bin dividers, back or center stops, reference shelves, front bases, acrylic bin fronts, double wall upright gap filler, racks or other accessories suitable to the collection requirements.
21. Shelf Reinforcements: Shelves exceeding 16" in depth, provide a minimum of {two (2) for shelf widths less than 30", three (3) for shelf widths over 30" but less than 42" and four (4) for shelf widths over 42" but less than 48"}.
22. Solid, full height back panels must be provided for all back to back shelving and all single face entry sections [as design dictates].
23. Powder Coat Paint Finish: All parts are cleaned in a six stage surface prep machine prior to coating, including:
 1. Heated alkaline wash
 2. Fresh water rinse
 3. Heated iron phosphate coat
 4. Fresh water rinse
 5. Recirculated deionized water rinse
 6. Fresh deionized water mist
24. After prepping, the material is dried at 250 degrees for 5-1/2 minutes. The painting process is an electro statically applied powder coating system using an epoxy-polyester hybrid powder paint. All overspray is collected and reused within the self-contained application booths with no venting or emissions to the environment. The film is applied to an average thickness of 1 to 1.5 mils. The coated parts are then oven cured for 20 minutes at up to 450 degrees to provide a furniture quality finish. The hot parts are cooled to ambient temperature prior to packaging. After curing, the paint finish is inert and no volatile emissions are present. There are no fugitive (stray) emissions in the finished product. During the manufacturing process, there are no volatile emissions and there is no hazardous waste produced. Color to be selected from manufacturers standard color card.
25. Gloss: 50 - 60 degrees
Impact Resistance: 160 in. lbs.
Flexibility: 180 degrees, 1/4" mandrel

DIVISION 10 - SPECIALTIES

Pencil Hardness: 2H
Cross Hatch Adhesion: 100%

O. Saddle racks

1. Existing saddle racks may be re-used at the clients discretion, however if new saddle racks must be used, must meet all the same steel and finish specifications detailed in this bid. If new racks are not required, contractor shall issue a material credit to the WVDCH via change order.

ACCESSORIES, SAFETIES & PROGRAMMABLE SYSTEM FEATURES

P. All aisles shall be protected with a microprocessor controlled infrared photoelectric sensor system consisting of the following components.

1. Cross-aisle sensors shall be located on the face of the carriage profile on a maximum 12" (304mm) centers along the full length of each carriage at every potential moveable aisle.
2. Two direction sensing quadratures shall be located at each potential aisle entrance location.
3. An infrared photoelectric safety sweep shall be mounted on the carriage $\frac{3}{4}$ " (19mm) above the floor and scans the entire length of the aisle.

Q. The microprocessor shall have a computer logic tracking system which combines the infrared photoelectric detectors providing the following operation modes.

1. System shall be passively activated so that when a person, wheelchair, cart, etc. is present in the open aisle, the aisle automatically locks in it's full open position; the face panel control shall display a lighted "AISLE IN USE" L.C.D. message at the affected aisle and a flashing "SYSTEM IN USE – CHECK OPEN AISLE" message at all other controls.
2. When personnel, wheelchairs, carts, etc. have exited the aisle, the system automatically resets and the L.C.D. enunciator panel shall display "READY FOR USE".
3. Should a person enter an opening aisle, carriage movement for that aisle will continue until the aisle is fully open.
4. Should the aisle be closing when someone enters it, the carriage movement at that aisle stops immediately (any other moving carriage will come to a controlled ramped stop), the L.C.D. panel shall display "CHECK AISLE – PUSH RESET", and the reset button at that aisle shall illuminate flashing red. That aisle must be cleared and the flashing reset must be depressed before any new aisle operations.
5. Should an aisle lock open with no person or object in the aisle, the system may be reset only by: (Select option a or b).
 - a. Pressing the reset button on the managerial key remote control unit.
 - b. Pressing the reset button at the affected aisle.
6. The infrared photoelectric safety sweep detection system shall operate on all carriages moving in the direction of the closing aisle. When the beam is interrupted during the a closing aisle carriage movement, the system shall come to a full stop. The L.C.D. panel shall display "CHECK AISLE – PUSH RESET" and the reset button shall flash red. This safety sweep activation shall be based on presence rather than

DIVISION 10 - SPECIALTIES

weight. There shall be no mechanical switches, hinges, or base plates present in the aisle. To reset the system, push the flashing reset button at the affected aisle.

- a. If the photo sweep is clear and functioning properly, the system shall reset and the L.C.D. panel shall display "READY FOR USE".
 - b. If the photo sweep is obstructed, i.e., a box is in its path, the reset button will stop flashing and the panel will continue to display "AISLE IN USE" indicating the sweep is obstructed. The only command the system will accept is to push the open button at the obstructed aisle which will move the carriage away from the obstruction. When the sweep is clear and the carriage has completed the aisle movement, all L.C.D. panels shall display "READY FOR USE".
7. System shall be fully passive and fail-safe in design. Should any component of the safety sweep system fail, carriage movement will be safely locked out.
 8. The mobile system shall be U.L. System Listed and C.S.A. certified.

R. The electric mobile system shall have the following programming capabilities:

1. [Touchpad Module Control on a Mobile Carriage: Provide a 10-digit touchpad control with display and audit trail capability to replace one standard push button control on a mobile carriage to control all the carriages in the system module with an easy-to-read 2x20 character LCD status display, PIN-code security, an internal real-time clock and a clear record of access. Touchpad shall permit: multiple (up to 512) unique PIN-codes with multiple (up to 256) unique security classes, PIN access to be limited to specific days of the week or time of day, and PIN access to be set to expire at a specific date and time. Touchpad control shall permit the transfer of access data (audit trail) to a touchpad-PC interface software program which shall permit an authorized administrator to work with access data in spreadsheet format, to establish security classes, to assign security classes and PIN-codes to users, and to make updates as security requirements change. PC interface software installation and setup and touchpad setup shall be required. The mobile system with a touchpad module control on a mobile carriage shall also be equipped with a hardware stationary control to, with PIN-code authorization, permanently set a carriage to a stationary locking the entire system with closed aisles or splitting the system module in two *[for a hardware on/off control to, with PIN-code authorization, permanently shut down or restore power to the system, preventing unintentional power ups].*]
2. LCD Display – Used to display status, navigate menus and read instructions. If left idle for 20 seconds, a screensaver will appear with Time, Date, and an audit log meter that shows how much of the memory is used and blinks when the memory is full. Display languages can be English, French, Spanish, English/French, or English/Spanish.
3. LED Indicator – Alerts the user to the status of the carriage. The LED functions the same as the standard controls for carriage movement.
4. Stop/Reset and Move Buttons – Works just like the standard controls, but Reset and Movement will be inactive if platform-mounted Touchpads are used.
5. Pin Numbers
 - a. 3 – 9 Digits Long
 - b. Limited to specific day of the week and time of day
 - c. Set to expire at a specific date and time
6. Enter Button
7. Clear Button – Cancels the user's most recent choice.

DIVISION 10 - SPECIALTIES

S. Building Interface and System Cycle Operation

1. System Fire Park shall be interfaced into owner provided fire alarm system with a relay contact closure. When the alarm is activated for (1 to 255) seconds, the carriage will cycle into a position allowing equal spacing between all carriages in a module. Activated safety systems cannot be overridden by the fire park mode.
2. System Auto Cycle so that after 1 to 255 minutes of inactivity, it will enter into the auto-cycle mode. This mode cycles each adjacent aisle in a module to open every 1 to 255 minutes. When the last aisle in a module has opened and completed the time cycle, all the carriages in the module will cycle back to the first aisle and resume the process. System auto-cycle may be interrupted at any time for normal user operation. After 1 to 255 minutes, the auto-cycle feature will resume from the original aisle. Auto cycle is overridden by all safety features.
3. System Ventilation Park can be programmed so that after 1 to 255 minutes of inactivity the carriages will cycle into a position allowing equal spacing between carriages in a module. Safety systems cannot be overridden by the ventilation park mode. System Ventilation Park allows any new aisle to be opened when desired.

T. Automatic Battery Backup System: The system shall include an automatic battery backup system capable of powering the entire system module in the event of a power failure. The battery backup system shall be designed for handling not less than 15 Amps and 1500 VA. The system shall provide an audible indication that the system is running on backup power. The system shall provide full system functionality while operating on battery power including: full speed carriage movement, multiple carriage movement, and all normal safety functionality. The system shall charge itself when AC power is restored to the system.

U. Access Indicator Light: System shall be equipped with access indicator light connection, final location to be determined by customer and wiring to the system to be supplied by others. System shall be equipped with access indicator light(s). Fixture to consist of a 2-3/4" x 4-1/2" (70mm x 114mm) flat black steel face plate powder coat painted with a flat black finish. Each access indicator light shall have a n upper bright red and lower bright green Light Emitting Diode (LED) lamp assembly with a minimum 3/4" (19mm) diameter dome that protrudes a minimum of 1/4" (6mm) from the face late providing a minimum 180 degree wide viewing angle. LED lamps shall be rated for a 100,000 hour life and shall have high luminous intensity with excellent visibility. Supplies sufficient to accommodate 75' wiring length to be provided at no additional cost.

PART 3 -

FABRICATION

- A. General: Coordinate fabrication and delivery to ensure no delay in progress of the Work.
- B. Wheels: Provide precision ground, balanced and hardened units with permanently shielded and lubricated bearings.
- C. Carriages: Fabricate to ensure no more than 1/4 inch (6MM) 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.

DIVISION 10 - SPECIALTIES

FINISHES

- E. Colors: Selected from manufacturer's 20 standard available colors.
- F. Paint Finish: Provide factory applied electrostatic powder coat paint. Meet or exceed specifications of the American Library Association.
- G. Floor/Ramp: Finish color to be selected by WVDCH.

PART 4 - EXECUTION

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. For installations on existing floors, ensure that rail spacings indicated on shop drawings are in proper locations so existing load-bearing structural members are not over stressed.
 - 2. A signed and sealed letter from a Structural Engineer is required to maintain compliance with item 4.1, B, 1.
- 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.

INSTALLATION

- G. 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 1/6 inch (1.6MM) above finished floor surfaces.
 - 2. Verify level, allowing for a minimum 1/4 inch (6MM) of grout under high points. Position and support rails so that no movement occurs during grouting.
 - 3. Existing floor surface has VCT (vinyl composition tile). To ensure proper connection to the floor, it is mandatory to remove the tile at every rail location for the entire length and width of each sub-rail assembly. No visible tile can be left behind prior to the installation of the sub-rail assembly, fasteners and grout bed.

DIVISION 10 - SPECIALTIES

4. 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. Due to the extreme system weights, use of shims, or other similar method in lieu of full grouting is not permitted.
5. Installation Tolerances: Do not exceed levelness of installed rails listed below:
 - a. Maximum Variation From True Level Within Any Module: 3/32 inch (2.4MM).
 - b. Maximum Variation between adjacent (Parallel) rails: 1/16 inch (1.6MM), perpendicular to rail direction.
 - c. Maximum Variation In Height: 1/32 inch (.8MM), measured along any 10-foot (3.05M) rail length.
6. Verify rail position and level; anchor to structural floor system with anchor type and spacings indicated on approved shop drawings.

H. Floors/Ramps:

1. General: Finished elevation shall be 1/16 inch (1.6MM) below top of rails.
2. Place floors and ramps to the extent indicated on approved shop drawings. Extend ramps under all movable 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 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 (3MM).

I. Shelving Units Installation:

1. General: Follow layout and details shown on approved shop drawings and manufacturer's printed installation instructions. Position units level, plumb; 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.
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.

DIVISION 10 - SPECIALTIES

- 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.
 - d. Test system operation by cycling all units through complete operations sequences.
5. Maintaining field presence
- a. During the initial phases of the installation, Contractor and/or manufacturer must maintain the required direct employ installers. Approximate duration to remain on site is 22 weeks.
 - b. The installers responsibility will include:
 - 1) Relocation, reconfiguration and installation of new and existing wide span components.
 - 2) Assist WVDCH in the movement of large objects (under client supervision).
 - 3) Installation of all phases.
 - 4) Stay on site during the weeks separating phases with responsibility to reconfigure shelving as the WVDCH requires and assist with movement of collection (under client supervision) until that portion of the collection move is complete.
 - 5) Upon completion of final phase, contractor must train client on system use.
 - 6) It is the responsibility of the contractor to remove all packing material & trash. Trash receptacle is contractor's responsibility; however WVDCH will provide a location adjacent to the loading dock.
 - 7) The condition of the WVDCH floors to and from the loading dock is the responsibility of the Contractor. Upon completion of the project, it is the responsibility of the Contractor to enlist an outside commercial floor contractor to clean and wax the travel path hallways.
 - 8) Based on other trades working on the job site, the Contractor that is awarded this contract may be required to unload and perform the inside delivery of equipment after 5:00 pm.
 - 9) Relocation of the existing safe (located in the existing storage area).

FIELD QUALITY CONTROL

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

ADJUSTING

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

DIVISION 10 - SPECIALTIES**CLEANING**

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

DEMONSTRATION/TRAINING

- N. Schedule and conduct demonstration of installed equipment and features with Owner's personnel.
- O. 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.

PROTECTION

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

END OF SECTION

BID BOND PREPARATION INSTRUCTIONS

 AGENCY _____ (A)
 RFQ/RFP# _____ (B)
Bid Bond

- (A) WV State Agency
(Stated on Page 1 "Spending Unit")
Request for Quotation Number (upper
right corner of page #1)
- (C) Your Company Name
- (D) City, Location of your Company
- (E) State, Location of your Company
- (F) Surety Corporate Name
- (G) City, Location of Surety
- (H) State, Location of Surety
- (I) State of Surety Incorporation
- (J) City of Surety Incorporation
- (K) Minimum amount of acceptable bid
bond is 5% of total bid. You may state
"5% of bid" or a specific amount on
this line in words.

- (L) Amount of bond in figures
- (M) Brief Description of scope of work
- (N) Day of the month
- (O) Month
- (P) Year
- (Q) Name of Corporation
- (R) Raised Corporate Seal of Principal
- (S) Signature of President or Vice
President
- (T) Title of person signing
- (U) Raised Corporate Seal of Surety
- (V) Corporate Name of Surety
- (W) Signature of Attorney in Fact of the
Surety

NOTE: Dated, Power of Attorney with Raised
Surety Seal must accompany this bid
bond.

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned,
_____, of _____, _____
as Principal, and _____ of _____,
_____, a corporation organized and existing under the laws
of the State of _____ with its principal office in the City of
_____, as Surety, are held and firmly bound unto The State
of West Virginia, as Oblige, in the penal sum of _____
(\$ _____) for the payment of which, well and truly to be made,
we jointly and severally bind ourselves, our heirs, administrators, executors,
successors and assigns.

The Condition of the above obligation is such that whereas the Principal
has submitted to the Purchasing Section of the Department of Administration
a certain bid or proposal, attached hereto and made a part hereof to enter into a
contract in writing for _____

(M)

NOW THEREFORE.

(a) If said bid shall be rejected, or

(b) If said bid shall be accepted and the Principal shall enter into a
contract in accordance with the bid or proposal attached hereto and shall furnish
any other bonds and insurance required by the bid or proposal, and shall in all
other respects perform the agreement created by the acceptance of said bid then
this obligation shall be null and void, otherwise this obligation shall remain in full
force and effect. It is expressly understood and agreed that the liability of the
Surety for any and all claims hereunder shall, in no event, exceed the penal
amount of this obligation as herein stated

The Surety for value received, hereby stipulates and agrees that the
obligations of said Surety and its bond shall be in no way impaired or affected by
any extension of time within which the Oblige may accept such bid: and said
Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, Principal and Surety have hereunto set their
hands and seals, and such of them as are corporations have caused their corporate
seals to be affixed hereto and these presents to be signed by their proper officers,
this _____ (N) day of _____ (O), 20____ (P).

Principal Corporate Seal

(R)

 (U)
 Surety Corporate Seal

 _____ (Q)
 (Name of Principal)
 By _____ (S)
 (Must be President or
Vice President)
 _____ (T)
 Title

 _____ (V)
 (Name of Surety)

 _____ (W)
 Attorney-in-Fact

IMPORTANT - Surety executing bonds must be licensed in West Virginia to
transact surety insurance. Raised Corporate Seals must be affixed and a Power of
Attorney must be attached.

Agency _____
 REQ.P.O# _____

BID BOND

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned, _____
 of _____, _____, as Principal, and _____
 of _____, _____, a corporation organized and existing under the laws of the State of _____
 with its principal office in the City of _____, as Surety, are held and firmly bound unto the State
 of West Virginia, as Obligee, in the penal sum of _____ (\$ _____) for the payment of which,
 well and truly to be made, we jointly and severally bind ourselves, our heirs, administrators, executors, successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Purchasing Section of the
 Department of Administration a certain bid or proposal, attached hereto and made a part hereof, to enter into a contract in writing for

NOW THEREFORE,

(a) If said bid shall be rejected, or
 (b) If said bid shall be accepted and the Principal shall enter into a contract in accordance with the bid or proposal attached
 hereto and shall furnish any other bonds and insurance required by the bid or proposal, and shall in all other respects perform the
 agreement created by the acceptance of said bid, then this obligation shall be null and void, otherwise this obligation shall remain in full
 force and effect. It is expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event,
 exceed the penal amount of this obligation as herein stated.

The Surety, for the value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no
 way impaired or affected by any extension of the time within which the Obligee may accept such bid, and said Surety does hereby
 waive notice of any such extension.

IN WITNESS WHEREOF, Principal and Surety have hereunto set their hands and seals, and such of them as are corporations
 have caused their corporate seals to be affixed hereunto and these presents to be signed by their proper officers, this

_____ day of _____, 20____.

Principal Corporate Seal

 (Name of Principal)

By _____
 (Must be President or
 Vice President)

 (Title)

Surety Corporate Seal

 (Name of Surety)

 Attorney-in-Fact

IMPORTANT – Surety executing bonds must be licensed in West Virginia to transact surety insurance. Raised corporate seals
 must be affixed, a power of attorney must be attached.

DCH12046



State of West Virginia
DRUG FREE WORKPLACE CONFORMANCE AFFIDAVIT
West Virginia Code §21-1D-5

STATE OF _____

COUNTY OF _____, TO-WIT:

I, _____, after being first duly sworn, depose and state as follows:

1. I am an employee of _____; and,
 (Company Name)

2. I do hereby attest that _____
 (Company Name)

maintains a valid written drug free workplace policy and that such policy is in compliance with **West Virginia Code §21-1D-5**.

The above statements are sworn to under the penalty of perjury.

 (Company Name)

By: _____

Title: _____

Date: _____

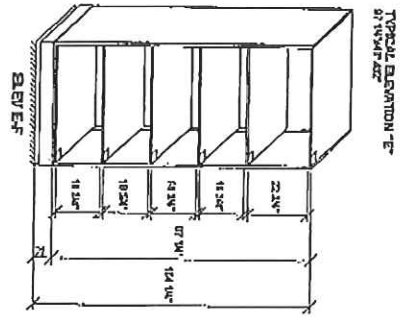
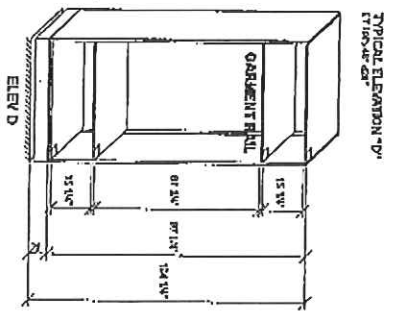
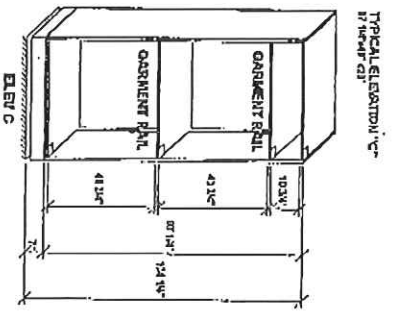
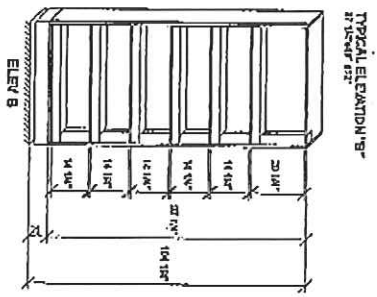
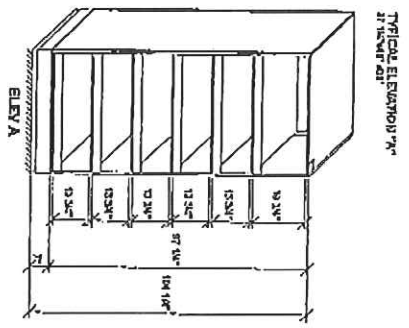
Taken, subscribed and sworn to before me this _____ day of _____.

By Commission expires _____

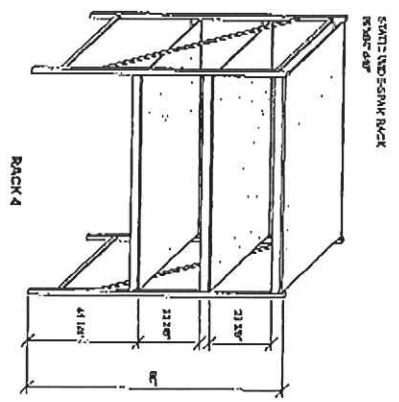
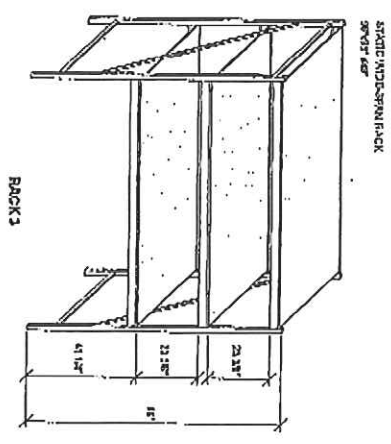
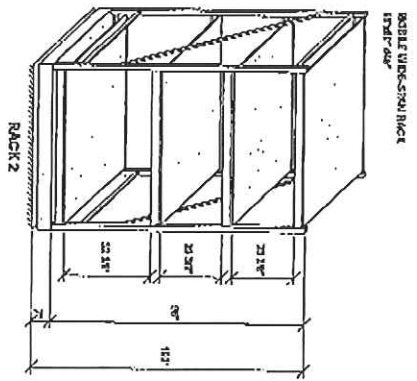
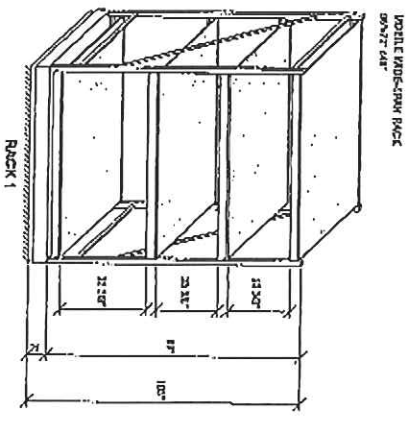
(Seal)

 (Notary Public)

THIS AFFIDAVIT MUST BE SUBMITTED WITH THE BID IN ORDER TO COMPLY WITH WV CODE PROVISIONS. FAILURE TO INCLUDE THE AFFIDAVIT WITH THE BID SHALL RESULT IN DISQUALIFICATION OF THE BID.

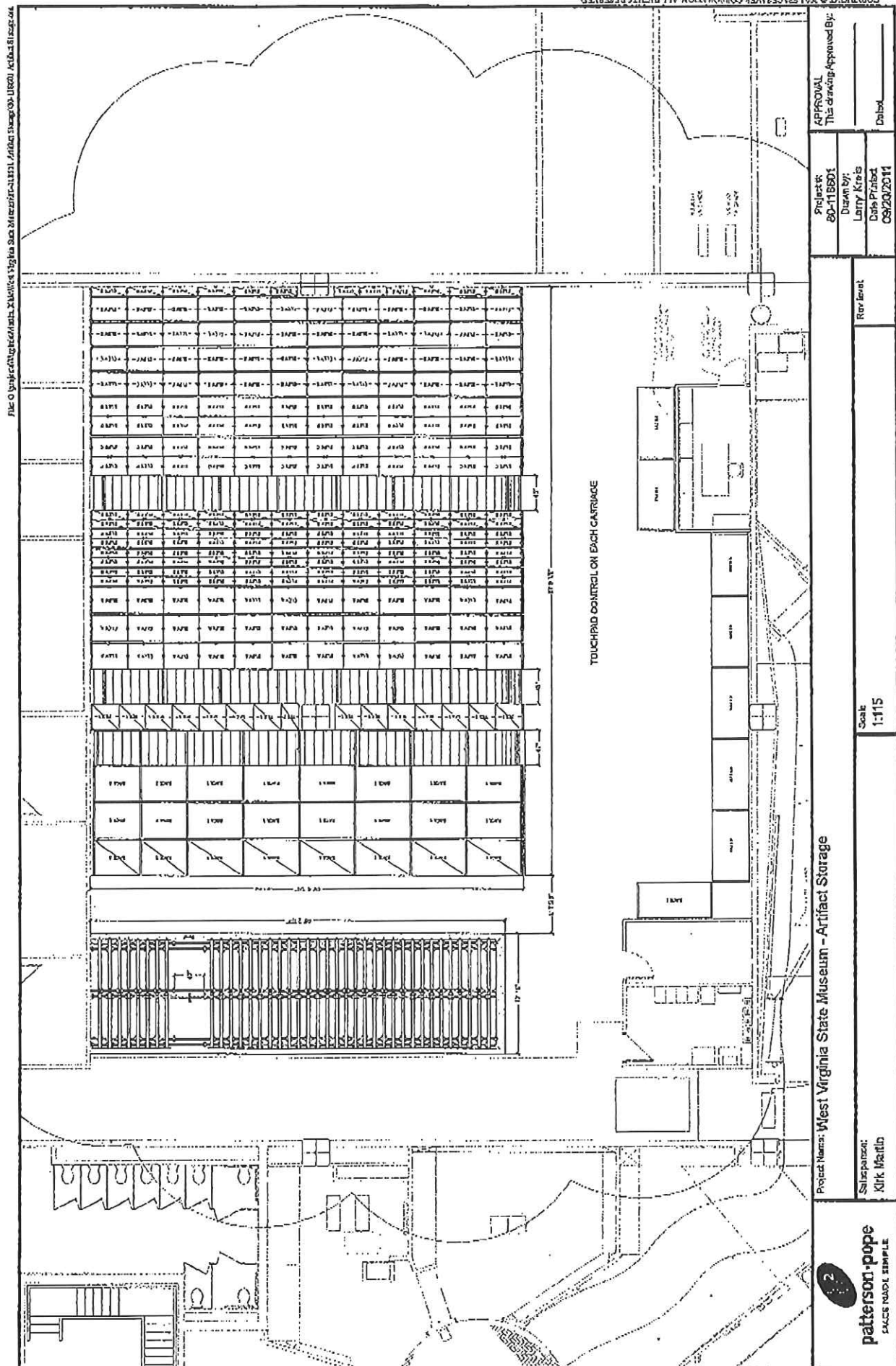


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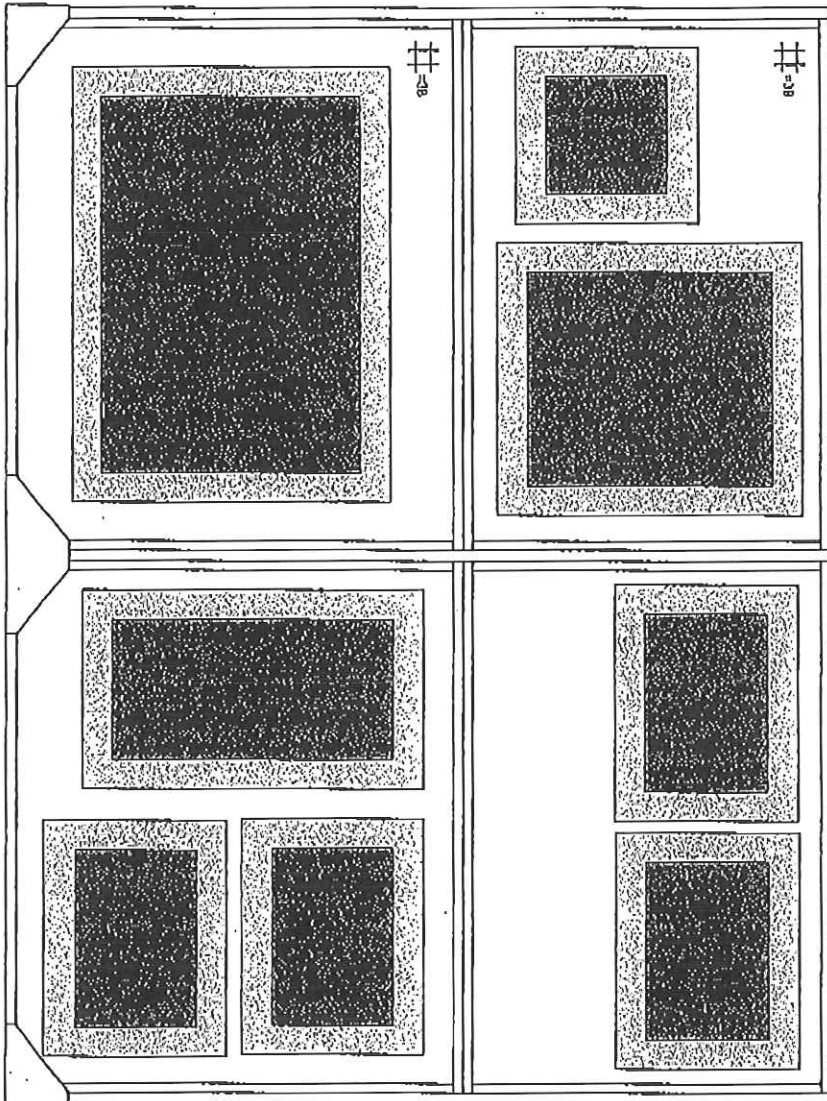


<p>2</p> <p>patterson-pope FACETS MADE SIMPLE</p>		<p>Project Name: West Virginia State Museum - Artifact Storage</p>	
<p>Shopperson: Kirk Martin</p>		<p>Scale: 1/4" = 1'</p>	
<p>Project: 80-118601</p>		<p>Rev/Issued: DB9202011</p>	
<p>Drawn by: Larry Kleis</p>		<p>Approved: The drawing approved by:</p>	
<p>Date Printed: DB9202011</p>		<p>Dated:</p>	

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H116"
12'w x 9'h



ART 1

2

patterson·pope

SPACE MADE SIMPLE.

Project Name: West Virginia State Museum - Artifact Storage

Salesperson:
Kirk Martin

Scale
1/2" = 1'

Rev level:

Project #:
80-118601

Drawn by:
Larry Kreis

Date Printed:
09/20/2011

APPROVAL
This drawing Approved By:

Dated



State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
DCH12046

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
KRISTA FERRELL 304-558-2596

RFQ COPY

TYPE NAME/ADDRESS HERE

Patterson Pope
3001 N. Graham St.
Charlotte, NC 28206

DIVISION OF CULTURE & HISTORY

CULTURAL CENTER
1900 KANAWHA BOULEVARD, EAST
CHARLESTON, WV
25305-0300 558-0220

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
01/19/2012				
BID OPENING DATE: 02/02/2012		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 1						
THIS ADDENDUM IS ISSUED TO PROVIDE REVISED SPECIFICATIONS, DRAWINGS, AND COST SHEET PER THE ATTACHED.						
PRE-BID DATE REMAINS: 01/20/2012 AT 2:00 PM IN BUILDING 9 ON THE WV STATE CAPITOL COMPLEX (GREEN ROOM)						
DEADLINE FOR TECHNICAL QUESTIONS REMAINS: 01/24/2012 AT THE CLOSE OF BUSINESS.						
BID OPENING DATE REMAINS: 02/02/2012						
BID OPENING TIME REMAINS: 1:30 PM						
***** END ADDENDUM NO. 1 *****						
0001	1	LS		495-35		
COLLECTION STORAGE SYSTEM FOR DCH						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
<i>Krista Ferrell</i>	540-389-7726	2/6/12
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
Regional Sales Manager	56-0986683	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
 2. The State may accept or reject in part, or in whole, any bid.
 3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
 4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
 5. Payment may only be made after the delivery and acceptance of goods or services.
 6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
 7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
 10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
 12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
 13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.html and is hereby made part of the agreement provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
 14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
 15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
 16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.
- I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).

ALL LABOR AND MATERIALS TO UPGRADE THE WV DIVISION OF CULTURE AND HISTORY COLLECTIONS STORAGE SYSTEM

SECTION 10674 – MUSEUM STORAGE (ADD- MECHANICALLY ASSISTED)

PART 1 – GENERAL

SUMMARY

A. This Section includes the following:

1. (ADD: Mechanically assisted, carriage mounted high-density mobile) storage shelving units, movable art rack, support rails, fabrication, and installation; including leveling of support rails.

B. Related Work (by others):

1. Structural floor system capable of supporting live and dead loads required by prevailing building codes, including rolling loads of storage units to be installed.
2. Finish floor covering materials and installation on raised floors and ramps or when on concrete with recessed rail installation.
3. ~~Power source located in storage room from adequate power supply.~~
4. Also by others: Fire suppression, HVAC, and lighting.

C. (ADD- ADD/ALTERNATES: *If the project budget allows, the Agency will select form the following specialty storage systems. Bidder will provide unit and extended cost. (refer to the bid return sheet below)*

ALTERNATE #1- Garment and Costume Storage: for thirty percent (30%) of the Collection, average 26" deep carriages. Adjustable shelves and textile rods to be included. (approximately 150 to 200 linear feet of storage)

ALTERNATE #2- Slide Out Tray Unit (various sizes, widths) – fifteen percent (15%) of the Collections.

ALTERNATE #3- Long Arm Storage – One (1) 12' x 20' end cap section.

ALTERNATE #4- Rolled Textile Storage (various sizes, widths) – Drawer/rack style. Rolled textiles are suspended by the pole ends versus laying flat in drawers. – ten percent (10%) of the Collections.

ALTERNATE #5- Full-Extension Drawers (various sizes, widths) – for thirty percent (30%) of the collection.

ALTERNATE #6- Pull-Out Work Shelf – One (1) per every four (4) aisles.

D. Pre-Bid Meeting:

1. A mandatory pre-bid conference is scheduled for January 20, 2012 at 2:00PM at the West Virginia Division of Culture and History (WVDCH) located at 1900 Kanawha Boulevard East (Building 9 on the WV Capitol Complex) in Charleston, West Virginia. Vendors are asked to

assemble in the Green Room. It is the Intent of the WVDCH to provide prospective Contractors the opportunity to survey the installation site and the Collection.

2. Questions concerning this solicitation and those specific to the Collection and the physical location of the storage area must be directed to Krista Ferrell, Buyer Supervisor via e-mail at krista.s.ferrell@wv.gov or via fax at 304-558-4115.

REFERENCES

- E. American National Standards Institute (ANSI) Standards:
 1. Applicable standards for fasteners used for assembly.
- F. American Society for Testing and Materials (ASTM) Standards:
 1. Applicable standards for steel sheets materials used for fabrication.
- G. American Institute of Steel Construction (AISC) Standards:
 1. Applicable standards for steel materials used for fabrication.
- H. Underwriters' Laboratories (UL):
 1. Listings for electrical equipment and devices describes in this specification.

SYSTEM DESCRIPTION

- I. General: The system consists of manufactured and WVDCH Furnished storage units mounted on manufacturer's track-guided carriages (or to the floor as final design dictates) to form a complete storage system. System design permits access to any single aisle by moving units until the desired aisle is opened. The carriage/rail system provides uniform carriage movement along the total length of travel, even with unbalanced loads. System designs shall maintain an internal aisle no less than 45" within the system, and 40" within the art rack system.
- J. Carriage System Design and Features: The carriage system consists of a formed structural steel frame with hardened steel wheel riding on steel rails surface mounted to the floor. Rails shall be types specified to ensure smooth operation and self-centering of mobile storage units during travel without end play or binding. Rails quantities and spacing shall be determined by the manufacturer to suit installation conditions and requirements. All bearings in the drive mechanism shall be permanently shielded and lubricated.
- K. Movement Controls:
 1. Movement shall be controlled by a programmable microprocessor, which provides controlled carriage movement speed, sequential starting and stopping, and custom programming features for access, safety and security.
 2. Provide a carriage control panel on the accessible (open) end of each moveable carriage, located 44 inches (1118 mm) above the base, centered on the face panel. Minimum controls shall include a Liquid Crystal (LCD) display, green MOVE (aisle opening) pushbuttons, STOP, and RESET pushbuttons. Reset pushbutton shall include a red reset light, which is on continuously until reset button is pushed.

3. ~~System controls shall start motors on each movable carriage sequentially to minimize power demands and shall provide dynamic braking to provide smooth operation. Maximum running speed shall be limited to 3 inches (76 mm) per second.~~
4. ~~Provide solid state controls and indicator lights for a visual indication of safety system operation. Provide each aisle an adjustable limit switch to ensure proper timing for start/stop operations.~~
5. ~~Pressing the MOVE (aisle opening) pushbutton on any movable carriage adjacent to the desired aisle location opens the desired aisle. The selected aisle shall open automatically regardless of the position of the carriages unless the presently open aisle is either still occupied, or aisle sensors detect an object disrupting the sensors.~~

- a. ~~The carriage control head will display a red reset light at the newly opened aisle indicating that the aisle is locked open and requires resetting before another aisle can be opened.~~

(ADD- 1. Triple arm operating wheels with rotating hand knobs shall be provided on the shelf units, centered on the end panel, located 40 inches (1051 mm) from the base of each unit to permit units to be moved to create a single aisle opening. Turning the handle transmits power through chain drive to drive wheels on each carriage.)

- L. ~~Drive System: The system shall be designed with a positive type power-assisted drive, which minimizes endplay and will stop carriages from drifting. All system components shall be as specified to ensure a smooth, even movement along the entire carriage length. (ADD: The system shall be designed with a positive type mechanically-assisted drive which minimizes end play, ensures there is no play in the operating wheel, and that carriages will stop without drifting.)~~
 1. ~~Each carriage shall be provided with a current limited fractional-horsepower gear motor, connected to drive wheel assemblies with a roller chain. (ADD: All system components shall be selected to ensure a smooth, even movement along the entire carriage length.)~~
 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. (ADD: Drive system gearing shall be designed to permit one (1) lb. of force applied to operating wheel to move a minimum of four thousand (4,000) lbs. of load.)~~
 3. ~~A tensioning device shall be provided on each chain drive with provision for adjusting tension without removing end panels.~~
 4. ~~All bearings used in the drive mechanism shall be permanently shielded and lubricated.~~
 5. ~~System shall operate on a minimum of three (enabled by WVDCH) 115 V.A.C. 50/60 hertz, 20 amp dedicated circuit provided by owner.~~

M. Safety Features:

1. (ADD: Color-Coded) visual indicators shall provide verification that carriages are in the locked or unlocked condition.
 2. Provide an automatic battery backup system in case of power failure (ADD: A single safety lock button, mounted on each operating wheel hub, when pulled out (unlocked), will permit moving a carriage in either direction to create a new access aisle, or locking the carriage when the button is pushed in.)
 3. Entire system shall be UL-listed.
 4. Photo-sweep sensor system and electric braking devices shall be provided to stop carriage movement if the system detects object or persons in the aisle while the carriage is in motion. Electro-mechanical sweeps are unacceptable.
 5. Infrared sensor 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. Safety systems utilizing motion detection, heat sensors, or requiring force or pressure to activate safeties are unacceptable. System will automatically reset when person or object is removed from the aisle.
- N. Finishes:
1. Fabricated Metal Components And Assemblies: Manufacturer's standard powder coat paint finish (a minimum of 20).
 2. End Panels, Accessible Ends: Manufacturer's standard powder coat paint finish in standard available colors (a minimum of 20).
 3. WVDCH, at their discretion may select multiple colors within the system.

PERFORMANCE REQUIREMENTS

O. Design Requirements:

1. Limit overall height to 105 inches (art-rack 108")
2. Maximum system length to be determined by contractor (by design) and approved by WVDCH.

P. Seismic Performance: Provide mobile storage units capable of withstanding the effects of earthquake movement when required by applicable building codes.

Q. Minimum storage requirements:

1. Wide span (cubic feet of storage): Six thousand four hundred (6,400)
2. Art-rack (total square footage of screen): Eight thousand two hundred (8,200)
3. Shelving for general collection (10764-4 set of shelving): Eight thousand (8,000)

4. Garment storage (linear feet): Two hundred eighty (280)
5. Textile storage (number of textiles 60" wide x 4" diameter): Nine hundred and sixty (960)

SUBMITALS (SHOULD BE SUBMITTED WITH THE VENDORS BID)

- R. Product Data: Submit manufacturer's product literature 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.
- S. Shop Drawings: Show fabrication, assembly, and installation details including descriptions of procedures and diagrams. Show complete extent of installation layout including clearances, spacing, 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. Furnish templates if required for accurate placement.
 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.
- T. Samples: Provide minimum 3 inch (76MM) square example of each color and texture on actual substrate for each component to remain exposed after installation.
- U. A certification letter signed by the contractor, stating that they have inspected the job site and understand fully the site logistics specific to, but not limited to bringing material into the building.
- V. Installer Certificates: Furnish signed certification by manufacturer attesting that installers comply with specified requirements. 10764-5

- W. Submit manufacturer's certification that products comply with requirements of the contract documents.
- X. Warranty: Submit copy of proposed warranty for review by WVDCH.
- Y. Manufacturers Reference List: Provide a list (minimum of (4) four) of recently installed mobile storage units of similar scope and size in a museum application. Intent of list is to aid in verifying the suitability of manufacturer's products and comparison with materials and product specified in this section. Submission shall include: Company or institution name, contact name, address, phone number, date the system was put into service, contract value or amount.
- Z. Contractors Reference List: Provide a list (minimum of (4) four) of recently installed mobile storage units. Intent of list is to aid in verifying the suitability of contractor's ability to provide the level of service required for a project of similar scope and size. Submission shall include: Company or institution name, contact name, address, phone number, date the system was put into service, contract value or amount.
- AA. Formaldehyde-free Certification Rail/Deck: Furnish signed certification by the manufacturer on their letterhead, to the attention of the WVDCH attesting that the machinable fiberboard does not contain, nor does it emit formaldehyde VOC's.
- BB. Off-Gassing Certification: Furnish signed certification by all manufacturers providing equipment on their letterhead, to the attention of the WVDCH attesting that the paint finishes used on the carriages, shelving and racks and all other steel painted surfaces do not contain off-gassing materials that can impact the collection.
- CC. The successful vendor shall submit a copy of their current West Virginia Contractors License.
- DD. The successful vendor shall provide the following required insurance: Workers' Compensation - Statutory requirements and benefits. Employer's Liability - \$100,000. Commercial General Liability- \$500,000 combined single limit. Commercial General Liability is to include Premises/Operations Liability, Products and Completed Operations Coverage, and Independent Contractor's Liability or Owner's and Contractor's Protective Liability. The West Virginia Division of Culture and History must be named as an additional insured when requiring a Contractor to obtain Commercial General Liability coverage. Automobile Liability - \$500,000 - Combined single limit.
- EE. Delivery of equipment and installation shall begin four (4) weeks ARO (after receipt of order) and approved submittals. Substantial completion shall be eighteen (18) weeks ARO. Due to the duration of the production and installation, Contractor and the West Virginia Purchasing Authority will determine and fair and reasonable billing sequence within five (5) days ARO.
- FF. Failure to provide, or not fully disclose deviations to specifications and mandatory submittals may be cause for disqualification.

QUALITY ASSURANCE

GG. Manufacturer Qualifications: Engage an experienced manufacturer who is ISO 9001 certified for the design, production, installation and service of programmable electric, carriage mounted high-density mobile storage units and support rails. Furnish manufacturer's certification attesting ISO 9001 quality system registration. Should be included with bid submittal.

HH. Installer Qualifications: Contractor shall have in their direct employ, two experienced installers who are authorized representatives of the shelving manufacturer for installing the storage systems, with not less than 5 years' experience installing systems similar to those required for this project, and licensed or certified by manufacturer. Certification should be provided by manufacturer on manufacturer's letterhead at time of bid. Certifications by sales reps, dealers or distributors are unacceptable. Must be included with bid submittal.

II. Guaranteed minimum response time to service call of 48 hours required, and must be part of submittal. Engage an experienced installer who is a manufacturer's authorized representative for the specified products for installing carriages and anchoring shelving units to carriages.

JJ. Manufacturers Certification: Should supply with the bid separate written certifications by manufacturer on manufacturer's letterhead required stating compliance with all specifications of the shelving systems. Shelving certification must confirm compliance with all sizes as noted in these specifications.

KK. Contractor shall maintain a current Contractors License Authorized by the West Virginia Contractor Licensing Board.

DELIVERY, STORAGE, AND HANDLING

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

MM. 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.

NN. 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.

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

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

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

RR. 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. Owner's Representative.
 - b. Prime Contractor or representative.
 - c. Manufacturer's representative.
 - d. Subcontractors or installers whose work may affect, or be affected by, the work of this section.

SS. Phased installation :

The size and breath of this project dictates a phased installation. It is the responsibility of the chosen contractor to work with WVDCH to coordinate the installation schedule. The phases of installation and sequencing will be determined by the contractor and WVDCH after both parties have evaluated the existing locations of the collection, the area to house the new systems and the amount of available temporary storage.

WARRANTY

- TT. Provide a written warranty, executed by Contractor, Installer, and Manufacturer, agreeing to repair or replace units, which fail in materials or workmanship within the established warranty period. This warranty shall be in addition to, and not a limitation of, other rights the Owner may have under General Conditions provisions of the Contract Documents.
- UU. 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. Warranty does not include extended service, including preventive maintenance.
- VV. 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. Warranty does not include extended service, including preventive maintenance.

MAINTENANCE

- WW. Provide extended maintenance agreement for 1 year, commencing on the day the standard maintenance warranty ends. Warranty and maintenance dates will be established by Change Order after the successful installation and acceptance of the system by the Agency.

PART 2- PRODUCTS

MANUFACTURERS

- A. General: Products are based upon mobile shelving system products manufactured by Spacesaver Corporation. Contingent on meeting specification requirements, other acceptable manufacturers may be included.

BASIC MATERIALS

- B. General: Provide materials and quality of workmanship, which meet or exceed established industry standards for products specified. Use furniture grade sheet metal for component fabrication unless indicated otherwise.
- C. ~~Electrical Devices and Controls; UL Listed for type of application and service.~~

GROUT

- D. 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.
 - 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

MANUFACTURED COMPONENTS

E. Rails:

- 1. Rail shall be one piece, cold drawn structural "T" section 1035 steel extrusion 1-1/16" (27mm) high with a 2-1/8" (54mm) base flange, a 5/8" (16mm) minimum contact top surface and two anti-tip grooves. Rail shall disperse the wheel point load to a minimum 4-1/4" square inch (27.5 mm) area at the base of the rail. All rail joints to be tongue and groove to provide horizontal and vertical continuity between rail sections, to gradually transfer the concentrated wheel point load to and from adjoining rail sections. Rail shall have two leveling screws and two permanently mounted floor anchors maximum 36" (914mm) o.c. Rails shall be permanently attached to top of structural floor system with provision for leveling rails to compensate for variations in floor surface level. (ADD: Capacity 1,000 lb, per linear foot (1385 kg/M))

F. Floor/Ramp:

- 1. Floor/Ramp Sheathing: Minimum 3/4 inch (19MM), formaldehyde free fiberboard. (ADD: Floor Ramp shall be made with materials capable of holding maximum floor loads consistent with large artifacts, The finished floor must be smooth and capable of holding loaded pallet mules. (5-ply underlayment grade plywood may not be suitable). Particle board sheathing materials are not permitted. Provide fire retardant treated floor/ramp material where required by code.)
- 2. Floor finish shall be applied by contractor. All exposed surfaces shall be coated with no less than one (1) layer of latex primer. Edges and underside of deck primer must be completed prior to deck and ramp installation. The walking surface shall be coated with no less than two (2) finish layers of a latex based deck finish.
- 3. Adjustable, inverted 'T' supports shall support the deck no less than 16" on center.
- 4. All other floors not covered by Floor/Ramp will be the responsibility of others.

G. Carriages:

1. Carriages shall be minimum 1,000 lbs. (1500kg) per linear carriage foot (meter) capacity, fixture unit welded, uni-frame assemblies constructed of 12 ga. steel with main supporting structural face sections 5-3/4" (146 mm) high with two reinforcing flanges running the full length of the carriage. Galvanized structural components and/or riveted carriages are unacceptable.
2. *(ADD: When required, provide bolted cartridge splices designed to maintain proper unit alignment and weight load distribution. Provide each carriage with at least two (2) wheels per rail. Carriages longer than 10 Feet requires two rails; 11 to 16 feet require three (3) rails; and 17 to 27 feet require five (5) rails.)*
3. Main supporting structural face sections shall provide a 3/4" (19mm) shelf mounting recess for positive shelving alignment and attachment. Top mount carriages are unacceptable. Wheel support sections shall be 12 ga. steel and shall be welded between the main support face sections, one per rail assembly. A minimum of two carriage face panel supports shall be provided for each face panel to fully support its weight and provide positive alignment. Provide each carriage that is less than 60" wide with no less than two wheels per rail and four wheels for carriages wider than 60".
4. When required, provide tension bolted carriage splices designed to maintain proper unit alignment and weight load distribution. Carriage face sections shall provide a smooth clean appearance without any exposed assembly holes or protruding hardware. Carriage shall be powder coat painted from manufacturer's standard colors.

H. Drive / Guide System:

1. Design: Provide a steady drive and guidance system which prevents carriage whipping, binding and excessive wheel/rail wear under normal operation.
 - a. Drive System: Dual synchronized drive wheels on both sides of designated wheel housing(s), connected with a #40 roller chain to ensure even wheel movement. Multiple Synchro System assemblies shall be interconnected with a continuous 1-1/4" steel tube drive shaft (solid steel rod will not be accepted) for simultaneous wheel rotation and even, parallel carriage movement. Drive shaft (shaft connections shall be secured coupling type) shall exhibit no play or looseness over the entire length of that assembly. Load wheels shall be 5" (127mm). All wheels to be machined from solid 1045 steel and equipped with two (2) permanently shielded bearing assemblies. Spacers to be provided on both sides of wheel bearings to eliminate friction between wheels and carriage. Line shaft drive systems, driving wheels on only one side of carriage, will not be accepted.
 - b. Guidance System: Provide four roller type guide bearings per wheel channel assembly, two at the end of each wheel channel. Guide bearings shall be precision machined, cam follower type of hardened steel, permanently lubricated and adjustable to ensure proper alignment of the carriages. Maximum profile of recess adjacent to rail for guide bearings and anti-tip system: 1-1/8" (28mm) wide x 3/4" (19mm) deep. Guidance system relying on cast iron wheels, dual flange, center flange or concave wheels are unacceptable.

- c. Anti-tip safety: Provide two opposing in rail anti-tip assemblies per wheel channel that inter-member with the rails system's anti-tip grooves and are fully adjustable to ensure proper alignment.

I. Motors:

- 1. ~~Permanent Magnet motor type, 90VDC, 1/8 H.P. rating, continuous duty, 225 in. lbs.~~
- 2. ~~Gear motor input RPM 1900 (full load), output RPM 30, gear ratio 60:1, 1.3 amps, 270 in. lbs torque at full load.~~
- 3. ~~U.L. Recognized motor construction Class "A" minimum.~~
- 4. ~~All gears shall be steel and the output shaft shall be sealed.~~
- 5. ~~Allowable minimum noise levels (no load 60 dB max., pre-load 63 dB max).~~
- 6. ~~Carriages less than 40' shall be equipped with one motor. Carriages more than 40'-4" shall be equipped with two motors.~~

J. Face Panels:

- 1. Steel end panels. Laminated end panels, using traditional fiberboard, adhesives and laminates are not acceptable.
 - a. All exposed ends (refer to design drawings) shall have steel face panels covering the full width and height of the carriage and storage housing.
 - b. Face panels shall be constructed of 18 gauge (1.2 mm thick) steel using a 4-bend structural design that forms a 2- 1/4" (57mm) thick edge channel that runs the full length of each vertical edge.
 - c. A minimum of three 18 gauge (1.2 mm thick) structural hat channel supports shall be welded into the back of the panel at the top, base and center to provide unit rigidity.
 - d. Face panels shall be free of any exposed assembly holes or protruding hardware, and shall be assembled without any exposed sharp edges. For high density storage applications, two 3" x 5" (76mm x 127mm) cardholders shall be provided per aisle entry location and attached to the end panels with centers located 60" (1624mm) above the finished floor.
- 2. Finishes: Selected from manufacturer's standard available colors and patterns. A minimum of 20 colors shall be offered.

K. Art Racks:

- 1. Rails: Same as specification 2.4, A, 1.
- 2. Raised Floor: Same as specification 2.4, B, 1-4.
- 3. Carriage & Frame: Modular steel construction consisting of mesh panels constructed of 10 gauge (.135) steel wire, woven into 2" x 1" rectangular mesh and securely welded to a 1.25" x 1.25" x 1/8" steel angle frame. Frames have .875" x .437" slotted holes for mounting to posts and adjacent panel assemblies. Panels 4' to 7' wide have one .25" x .75" stiffener welded to the frame. Wider panels have two stiffeners. Panels are bolted back to back to a 3" x 1.5" x .125" carbon vertical steel tube posts. This forms a double face unit with no protruding frame assemblies. Double ply mesh

is required for independent storage. Racks using a single ply mesh are unacceptable. The vertical posts are bolted to a horizontal 12 gauge hot rolled wheel housing assemblies. A powder coat finish is applied to all components. Finish is inert; free of emissions and volatiles (wet spray applications unacceptable). Total frame height not to exceed 108".

4. Wheels: Hardened steel wheels to be a minimum 3" in diameter with two (2) permanently shielded ball bearing assemblies. Wheels to be hardened. Provide spacers at both sides of wheel bearings to eliminate all friction between wheels and carriage. Provide four (4) roller-type guide bearings and two (2) anti-tip mechanisms per track assembly at the leading edge of the carriage. Guide rollers to be adjustable to insure proper alignment of carriages. Cast iron wheels, dual flange, center flange or concave wheels are unacceptable.
5. S-hooks- 50 hooks per panel.
6. Handles- ~~Each manual art rack shall be equipped with a handle to move the frame across the rail sub-structure.~~ *(ADD: Each manual art rack shall be equipped with a triple arm operating wheel with rotating hand knob, centered on the end panel, 40 inches (1051 mm) from the base of each unit to permit units to be moved to create a single aisle opening. Turning the operating wheel transmits power through a drive chain to drive wheels on each opening.*

L. Textile Racks:

1. ~~Vertical posts and bottom legs shall be 2" x 2" x 14-gauge square tubing. Horizontal supports shall be no less than 1" x 1" x 15-ga. square tubing. Tubing to be MIG welded into a solid unit. Top shall be 18-gauge steel welded to tubing frame. Bottom legs to have holes to allow attachment to moveable carriages or floor holes to be capped with polyethylene snap-in plugs after the frame unit is installed. Horizontal supports shall be spaced on 12" centers vertically. Frame unit to be sandblasted prior to powder coating.~~ *(ADD: Textile racks are to be rolled, drawer storage, suspended in full pullout unit extension drawers. Rolled textiles are to be suspended on 14 gauge square tubing. Tubing shall be spaced on adjustable support bars at each end of the beam in precut slots. Frame for support bar is to be sandblasted prior to powder coating. Full pullout unit extension drawers should be free of bottom surface to rolled fabric is not resting on a flat surface.*
2. Metal shall be 16 ga. and MIG welded. Cantilever support to be designed to be moved horizontally on frame unit horizontal supports. Cantilever support to be secured in place with a zinc plated, spade head thumb screw 1/4" -20 x 3/4" long. Supports designed to accept conduit brackets on 1" centers in the front to back orientation. Cantilever textile supports is adjustable across the entire system length (as oriented left to right) of the full length of the carriage or stationery range.
3. Rolled conduit tube insert to be no less than 1-1/2" EMT conduit. Rolled conduit tube insert to be 10" to 12" longer than the either the textile or the acid free cardboard tube it is to enter. Insert to be supported by two brackets adjustable on 1" centers front to back on the cantilever textile support. For rolled textiles greater than 144", a 3" diameter schedule aluminum tube to be used as the insert.
4. All materials have been examined for "non-reactivity" and their use shall be subject to approval in this regard. "Non-reactivity" as used herein means that the material is

chemically stable and does not off-gas or physically degrade to produce any of the following: urea formaldehyde, free sulfate radicals, sulfides, free sulfur, chlorides, acetates, chlorine, formaldehyde, oxides of nitrogen, oxides of sulfur, ammonia, organic acids, disodium phosphate, di butyl phalate, acid hardened phenol, formaldehyde resins, peroxides, volatile organic compounds, or plasticizers lacking long-term stability.

M. Garment Hanger Rod Assembly

1. Hanger rod brackets will be fabricated of no less than 16 ga. and will be installed in shelf units. Brackets to be powder coated.
2. Hanger rod will be no less than 1-5/16" O.D. with a wall thickness of .080" and chrome plated. Hanger rod to set within elliptical ring attached to bracket.
3. Assembly is adjustable vertically within the shelf unit on 1-1/2" centers.
4. Garment racks shall be 26" deep.

N. Shelving

1. Design: Wedge-lock type consisting of uprights, shelves, and shelf supports, designed to be assembled without fasteners or clips. Shelves shall not have any holes on exposed surfaces. Front and back flanges shall be flush with outside faces of posts. Design shall permit individual shelf adjustment and/or removal anywhere along the entire height of uprights.
2. Materials and Workmanship: Fabricate units from Class 1, cold-rolled steel sheet with all bends sharp and true and no exposed "knife" edges.
3. All units shall be free of burrs, sharp edges and projecting hardware with smooth, non-abrasive surfaces and edges.
4. After fabrication, shelving shall exhibit no dents, "oil canning", buckling or other surface irregularities.
5. Uprights: Closed single wall uprights- Formed from steel sheet to a hollow "tee" shape for intermediate supports and formed angles for end supports. Uprights shall have keyhole slots on inner wall only. Provide with sheet steel panels full height and depth of end uprights. Provide intermediate "tee" uprights between adjacent units. Closed double wall uprights - Formed from steel sheet to a hollow "tee" shape for intermediate supports and formed angles for end supports. Uprights shall have keyhole slots on inner wall only. Provide intermediate "tee" uprights between adjacent units. There shall be a 24-gauge steel panel welded to both sides of the two posts to form a hollow, closed upright which is flush with the steel posts. There shall be a recess channel adjacent to the posts that conceals shelf supports and provides for a back stop in single faced units. Double faced units shall have a recess channel at mid-depth for installation of a center stop. Double wall style uprights shall be used for storage of items that can be easily damaged such as textiles and garments. Closed single wall style uprights (all closed) shall be used for the general collection.

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7. Canopy Tops: Same construction as shelf units.
8. Shelf Supports: Form from 11 gauge steel sheet with four solid steel shoulder rivets, two per ear, that interlock with inner wall of uprights. Shelf supports used for the bottom shelf must be factory produced and not field modified for use when attaching shelving superstructure to carriage
9. All horizontal storage shelves shall be a textured and raised surface finish, with 20 standard factory colors to select from.
10. Standard Depths: 9, 10, 12, 13, 15, 16, 18, 20, 24, 26, 30, 32 or 36 inch depth selection to meet project requirements.
11. Standard Width: 28, 30, 40, 42, 46, or 48 inch width selection to meet project requirements.
12. Shelf Edge Vertical Profile: 3/4 inch (19MM) maximum.
13. Vertical Adjustment Increment: 1-1/2 inches (38MM).
14. Width Of Intermediate Uprights: 2 inches (51MM).
15. Clearance Between Uprights: Nominal shelf section width minus 2 inches (51MM).
16. Levelness of Completed Shelf Units: Maximum 1/8 inch (3.2MM) between bottom shelf and canopy top, measured along the edge of any upright in any direction.
17. Number of Vertical Shelf Spaces: As indicated on the drawings [as design dictates].
18. Vertical Shelf-To-Shelf Spacing: As indicated on the drawings [as design dictates].

5. The infrared photoelectric safety sweep detection system shall operate on all carriages moving in the direction of the closing aisle. When the beam is interrupted during the a closing aisle carriage movement, the system shall come to a full stop. The L.C.D. panel shall display "CHECK AISLE - PUSH RESET" and the reset button shall flash red. This safety sweep activation shall be based on presence rather than weight. There shall be no mechanical switches, hinges, or base plates present in the aisle. To reset the system, push the flashing reset button at the affected aisle.

a. If the photo sweep is clear and functioning properly, the system shall reset and the L.C.D. panel shall display "READY FOR USE".

b. If the photo sweep is obstructed, i.e., a box is in its path, the reset button will stop flashing and the panel will continue to display "AISLE IN USE" indicating the sweep is obstructed. The only command the system will accept is to push the open button at the obstructed aisle which will move the carriage away from the obstruction. When the sweep is clear and the carriage has completed the aisle movement, all L.C.D. panels shall display "READY FOR USE".

6. System shall be fully passive and fail-safe in design. Should any component of the safety sweep system fail, carriage movement will be safely locked out.

7. The mobile system shall be U.I. System Listed and C.S.A. certified.

R. The electric mobile system shall have the following programming capabilities:

1. [Touchpad Module Control on a Mobile Carriage: Provide a 10-digit touchpad control with display and audit trail capability to replace one standard push button control on a mobile carriage to control all the carriages in the system module with an easy-to-read 2x20 character LCD status display, PIN-code security, an internal real-time clock and a clear record of access. Touchpad shall permit: multiple (up to 512) unique PIN-codes with multiple (up to 256) unique security classes, PIN access to be limited to specific days of the week or time of day, and PIN access to be set to expire at a specific date and time. Touchpad control shall permit the transfer of access data (audit trail) to a touchpad PC interface software program which shall permit an authorized administrator to work with access data in spreadsheet format, to establish security classes, to assign security classes and PIN-codes to users, and to make updates as security requirements change. PC interface software installation and setup and touchpad setup shall be required. The mobile system with a touchpad module control on a mobile carriage shall also be equipped with a hardware stationary control to, with PIN-code authorization, permanently set a carriage to a stationary locking the entire system with closed aisles or splitting the system module in two for a hardware on/off control to, with PIN-code authorization, permanently shut down or restore power to the system, preventing unintentional power-ups.)
2. LCD Display Used to display status, navigate menus and read instructions. If left idle for 20 seconds, a screensaver will appear with Time, Date, and an audit log

meter that shows how much of the memory is used and blinks when the memory is full. Display languages can be English, French, Spanish, English/French, or English/Spanish.

3. ~~LED Indicator~~ Alerts the user to the status of the carriage. The LED functions the same as the standard controls for carriage movement.

4. ~~Stop/Reset and Move Buttons~~ Works just like the standard controls, but Reset and Movement will be inactive if platform-mounted Touchpads are used.

5. ~~Pin Numbers~~

a. ~~3-9 Digits Long~~

b. ~~Limited to specific day of the week and time of day~~

c. ~~Set to expire at a specific date and time~~

6. ~~Enter Button~~

7. ~~Clear Button~~ Cancels the user's most recent choice.

S. ~~Building Interface and System Cycle Operation~~

1. ~~System Fire Park~~ shall be interfaced into owner provided fire alarm system with a relay contact closure. When the alarm is activated for (1 to 255) seconds, the carriage will cycle into a position allowing equal spacing between all carriages in a module. Activated safety systems cannot be overridden by the fire park mode.

2. ~~System Auto Cycle~~ so that after 1 to 255 minutes of inactivity, it will enter into the auto-cycle mode. This mode cycles each adjacent aisle in a module to open every 1 to 255 minutes. When the last aisle in a module has opened and completed the time cycle, all the carriages in the module will cycle back to the first aisle and resume the process. System auto-cycle may be interrupted at any time for normal user operation. After 1 to 255 minutes, the auto-cycle feature will resume from the original aisle. Auto-cycle is overridden by all safety features.

3. ~~System Ventilation Park~~ can be programmed so that after 1 to 255 minutes of inactivity the carriages will cycle into a position allowing equal spacing between carriages in a module. Safety systems cannot be overridden by the ventilation park mode. System Ventilation Park allows any new aisle to be opened when desired.

T. ~~Automatic Battery Backup System~~: The system shall include an automatic battery backup system capable of powering the entire system module in the event of a power failure. The battery backup system shall be designed for handling not less than 15 Amps and 1500 VA. The system shall provide an audible indication that the system is running on backup power. The system shall provide full system functionality while operating on battery power including: full speed carriage movement, multiple carriage movement, and all normal

safety functionality. The system shall charge itself when AC power is restored to the system.

- U. Access Indicator Light: System shall be equipped with access indicator light connection; final location to be determined by customer and wiring to the system to be supplied by others. System shall be equipped with access indicator light(s). Fixture to consist of a 2-3/4" x 4-1/2" (70mm x 114mm) flat black steel face plate powder coat painted with a flat black finish. Each access indicator light shall have a n upper bright red and lower bright green Light Emitting Diode (LED) lamp assembly with a minimum .X" (19mm) diameter dome that protrudes a minimum of 1/4" (6mm) from the face late providing a minimum 180 degree wide viewing angle. LED lamps shall be rated for a 100,000 hour life and shall have high luminous intensity with excellent visibility. Supplies sufficient to accommodate 75' wiring length to be provided at no additional cost.

PART 3 - FABRICATION

- A. General: Coordinate fabrication and delivery to ensure no delay in progress of the Work.
- B. Wheels: Provide precision ground, balanced and hardened units with permanently shielded and lubricated bearings.
- C. Carriages: Fabricate to ensure no more than 1/4 inch (6MM) 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.

FINISHES

- E. Colors: Selected from manufacturer's 20 standard available colors.
- F. Paint Finish: Provide factory applied electrostatic powder coat paint. Meet or exceed specifications of the American Library Association.
- G. Floor/Ramp: Finish color to be selected by WVDCH.

PART 4 - EXECUTION

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. For installations on existing floors, ensure that rail spacings indicated on shop drawings are in proper locations so existing load-bearing structural members are not over stressed.

2. A signed and sealed letter from a Structural Engineer is required to maintain compliance with item 4.1, B, 1
- 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.

INSTALLATION

G. 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 1/8 inch (1.6MM) above finished floor surfaces.~~
2. Verify level, allowing for a minimum 1/4 inch (6MM) of grout under high points. Position and support rails so that no movement occurs during grouting.
3. ~~Existing floor surface has VCT (vinyl composition tile). To ensure proper connection to the floor, it is mandatory to remove the tile at every rail location for the entire length and width of each sub-rail assembly. No visible tile can be left behind prior to the installation of the sub-rail assembly, fasteners and grout bed.~~
4. 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. Due to the extreme system weights, use of shims, or other similar method in lieu of full grouting is not permitted.
5. Installation Tolerances: Do not exceed levelness of installed rails listed below:
 - a. Maximum Variation From True Level Within Any Module: 3/32 inch (2.4MM).
 - b. Maximum Variation between adjacent (Parallel) rails: 1/16 inch (1.6MM), perpendicular to rail direction.
 - c. Maximum Variation In Height: 1/32 inch (.8MM), measured along any 10-foot (3.05M) rail length.

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

H. Floors/Ramps:

1. General: Finished elevation shall be 1/16 inch (1.6MM) below top of rails.
2. Place floors and ramps to the extent indicated on approved shop drawings. Extend ramps under all movable 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 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 (3MM).

I. Shelving Units Installation:

1. General: Follow layout and details shown on approved shop drawings and manufacturer's printed installation instructions. Position units level, plumb; 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.
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~~
 - c. ~~supply before making final power connections.~~
 - d. ~~Make final wiring connections to permanent power source.~~
 - e. ~~Test system operation by cycling all units through complete operations sequences.~~

5. Maintaining field presence

- a. During the initial phases of the installation, Contractor and/or manufacturer must maintain the required direct employ installers. Approximate duration to remain on-site is 22 weeks. *(ADD: This project is to be completed in various phases, allowing Agency staff to empty 50% of the contents of the room (East Side) and move the bulk items over. Once the bulk side is empty, the initial phase of the installation can begin. Contractor and/or manufacturer must maintain the required direct employ installers. When the track and carriage systems are installed on the bulk side, the Contractor and/or manufacturer is not required to return for the second phase until the second half of the room has been cleared and readied for installation. Approximate duration for contracted installers to be on site is 5 26 week.)*
- b. The installers responsibility will include:
1. Relocation, reconfiguration and installation of new and existing wide span components.
 2. Assist WVDCH in the movement of large objects (under client supervision).
 3. Installation of all phases.
 4. Stay on-site during the weeks separating phases with responsibility to reconfigure shelving as the WVDCH requires and assist with movement of collection (under client supervision) until that portion of the collection move is complete.
 5. Upon completion of final phase, contractor must train client on system use.
 6. It is the responsibility of the contractor to remove all packing material & trash. Trash receptacle is contractor's responsibility; however WVDCH will provide a location adjacent to the loading dock.
 7. The condition of the WVDCH floors to and from the loading dock is the responsibility of the Contractor. Upon completion of the project, it is the responsibility of the Contractor to enlist an outside commercial floor contractor to clean and wax the travel path hallways.
 8. Based on other trades working on the job site, the Contractor that is awarded this contract may be required to unload and perform the inside delivery of equipment after 5:00 pm.
 9. Relocation of the existing safe (located in the existing storage area).

FIELD QUALITY CONTROL

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

- K. Remove components, which are chipped, scratched, or otherwise damaged and which do not match adjoining work. Replace with new matching units, installed as specified and in manner to eliminate evidence of replacement.

ADJUSTING

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

CLEANING

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

DEMONSTRATION & TRAINING

- N. Schedule and conduct demonstration of installed equipment and features with Owner's personnel.
- O. 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.

PROTECTION

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

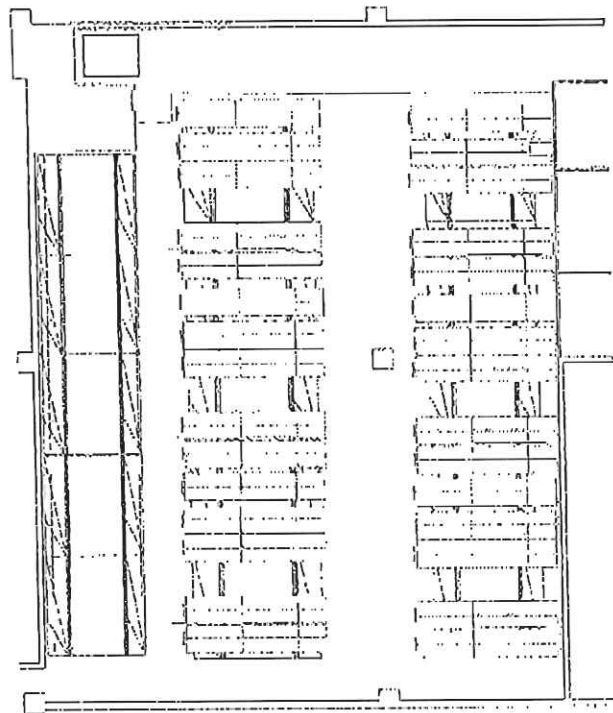
END OF SECTION

RFQ# DCH12046

Cost Sheet

Base Bid		Total Base Bid Cost			
All labor, materials, equipment, supplies, and transportation for the installation of a Collection Storage System for the WV Division of Culture and History					

Add Alternate No. 4 (unit = drawer system)								
Rolled Textile Storage (various sizes, widths)-Drawer/rack		10%	each					
style. Rolled textiles are suspended by the pole ends versus								
laying flat in drawers								
4" w x 4" d x 12" h						10		
8" w x 4" d x 12" h						20		
Add Alternate No. 5								
Full Extension Drawers (various sizes, widths)		30%	each					
4" w x 2" d x 4" h						10		
4" w x 2" d x 6" h						10		
4" w x 4" d x 4" h						5		
4" w x 4" d x 6" h						5		
4" w x 4" d x 8" h						5		
8" w x 2" d x 4" h						5		
8" w x 2" d x 6" h								
Add Alternate No. 6								
Pull Out Work Shelf-One per every 4 isles			per shelf			1:4		
<p>**Note: If manufacture "standards" are different - preference is for standard sizes - not customized.</p> <p>Vendors submitting "or equal" bids should include below the manufacturer and model of the product along with literature detailing how the equal solution meets the mandatory requirements of the solicitation.</p>								
Manufacturer								
Model								
Literature Attached		Yes					No	



LOWER LEVEL CR1
SCALE: 1/8" = 1'-0"

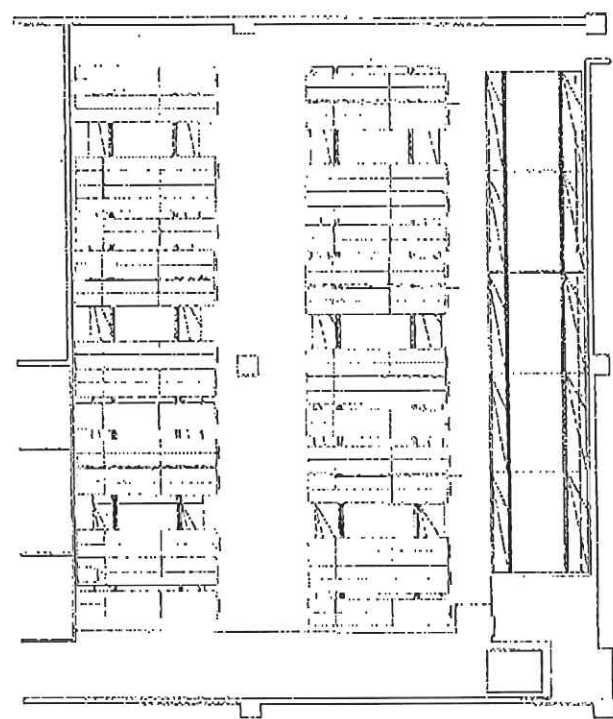


A-1



West Virginia
Culture and History
1000 MARSHALL UNIVERSITY BLVD
CHARLESTON, WV 25305
PHONE: 304-555-0220
FAX: 304-555-0220
WWW.WV.CAPITOL.GOV

OCH12046 - COMPRESSED STORAGE SYSTEM
THE CULTURE CENTER, CAPITOL COMPLEX
CHARLESTON, WEST VIRGINIA



LOWER LEVEL CRI
SCALE: 1/8" = 1'-0"





State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

WV PURCHASING ACT SECT 5a Fax 304-558-4115

Jan 31 2012 08:32am P001/013

Request for Quotation

DCH12046

1

ADDRESS CORRESPONDENCE TO ATTENTION OF
KRISTA FERRELL
304-558-2596

Patterson Pope
Attn: Dave Noleu
3001 Graham Street
Charlotte, NC 28206

DIVISION OF CULTURE & HISTORY
CULTURAL CENTER
1900 KANAWHA BOULEVARD, EAST
CHARLESTON, WV
25305-0300 558-0220

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS		
01/30/2012						
BID OPENING DATE: 02/07/2012		BID OPENING TIME 01:30PM				
LINE	QUANTITY	UOP	QTY NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 2						
THIS ADDENDUM IS ISSUED TO:						
1.) PROVIDE ANSWERS TO TECHNICAL QUESTIONS SUBMITTED IN ACCORDANCE WITH THE PROVISIONS OF THE REQUEST FOR QUOTATION (DCH12046),						
2.) PROVIDE CHANGES TO THE SPECIFICATIONS						
3.) PROVIDE ADDITIONS TO THE SPECIFICATIONS						
4.) PROVIDE REVISED COST SHEET PER THE ATTACHED, AND						
5.) EXTEND THE BID OPENING DATE						
BID OPENING DATE IS EXTENDED TO: 02/07/2012						
BID OPENING TIME REMAINS: 1:30 PM						
***** END ADDENDUM NO. 2 *****						
0001	1	LS		495-35		
COLLECTION STORAGE SYSTEM FOR DCH						
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE <i>Krista Ferrell</i>				TELEPHONE 540-389-7726	DATE 2/6/12	
TITLE Regional Sales Manager				FBN 56-0986683	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
 2. The State may accept or reject in part, or in whole, any bid.
 3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
 4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
 5. Payment may only be made after the delivery and acceptance of goods or services.
 6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
 7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
 10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
 12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
 13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.html and is hereby made part of the agreement provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
 14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
 15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
 16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.
- I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25306-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).

DCH12046

VENDOR QUESTIONS
COST BID SHEET REVISED -- attached
FLOOR PLAN REVISED - attached

1) Part 1 General C

Alternate #1 Please provide a number of

- A) adjustable shelves and
- B) number of textile rods

See Cost Sheet Attached to RFQ (Revised copy)

2) Alternate #2 Same....please include size and quantity...

See Cost Sheet Attached to RFQ

3) Alternate #3 Please clarify...should this be 12 inches by 20 feet? Does this need to be Lockable?
Would you want 2 levels high?

Long Arm Storage -- two (2)

Location --

Row A -- 2' deep by 22' long, flush with back wall, stationary

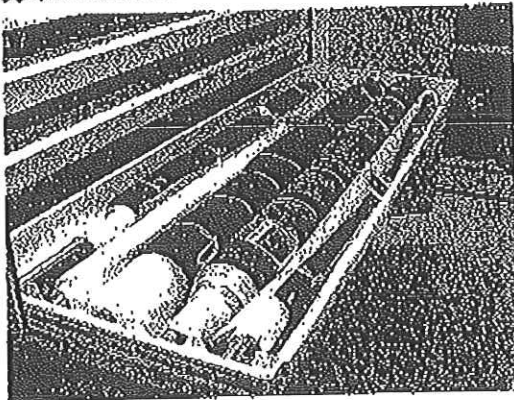
Row B - 2' deep by 20' long, 4' out from back walkway; stationary; end-cap

Not lockable

4) Alternate #4 Please provide a drawing and specific sizes and widths...

Drawing below an example drawing of rolled textile drawer storage.

See Cost Sheet Attached to RFQ for sizes and widths



5) Alternate #5 Not enough information...please indicate sizes & widths and quantities. Suggestion, why not have each vendor price one of each. However, the size and width must be provided.

See Cost Sheet Attached to RFQ – each vendor is being asked to price each and extended estimated cost.

6) Part 4 Execution – Examination 1 and 2

Should we assume that the WVDCH will provide the certification from a structural engineer?

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

1. For installations on existing floors, ensure that rail spacing indicated on shop drawings are in proper locations so existing load-bearing structural members are not overstressed.
2. A signed and sealed letter from a Structural Engineer is required to maintain compliance with item 4.1, B, 1"

1.) *(According to the Specification, cited above, it is the expectation that the Vendor verify conditions. WVDCH can make available for review original building specification information and Structural Prints for the space)*

A. Vendors may view the specifications and plans by calling Mark Lynch, Manager for Facilities Operations, 304-558-0220, ext. 160, to set up an appointment to visit the Division of Culture and History located in Building 9 on the WV Capitol Complex between the hours of 9:00 am to 2:00 pm. Agency personnel will not be available to answer questions. Visits are for information purposes only. Technical questions must be submitted in accordance with the provisions of the Request for Quotation (DCH12046)

7) the Revised Drawing, Please indicate the depth and length of each carriage. When the drawing prints out it shrinks in size, seems more like $1/16" = 1'-0"$, than $1/8" = 1'-0"$. We all need to know the actual carriage dimensions for an accurate price to be provided:

First Row (A) - WIDE SPAN BULK STORAGE SHELVING Allowable space – approx. 80' long by 22' wide. (This allows for an 8 foot aisle within the system)

- 1 stationary unit positioned at back wall – 2' deep by 22' long (one 10 foot unit and one 12 foot unit*) (Long Arm Storage)
- Minimum number of wide span bulk shelving units – approximately 19 rows at 4' deep by 22' long (one 10 foot, one 12 foot*); with standard (minimum of 3 or 4) 4' deep shelves for each unit. Last unit is end-cap.

Second Row (B) - MEDIUM STORAGE SHELVING Allowable space – approx. 76' long by 20' wide. (This allows for an 8 foot aisle within the system)

- 1 stationary (end cap) positioned 4' out from back wall – 2' deep by 20' long (two 10 foot units*)
- Minimum number of storage shelving units – approximately 38 rows at 2' deep by 20' long (two 10 foot units*); with standard (minimum of 4 to 6) 2' deep shelves for each unit. Last unit is end-cap.

Third Row (C) - Art Rack - Allowable space is approx. 70' long by 14' wide. (This allows for a 6' aisle within the system) The last unit at back wall is to be stationary, one-sided end-cap.

***PLEASE NOTE:** If the 10 and 12 foot units suggested above are considered 'specialized' or 'custom order', Vendor is required to submit the standard lengths which would equal the same measurement requirements.

8) Please indicate the quantity of movable units and fixed or stationary units needed.

See Question/Answer # 3 above

9) Should we assume that you are only accessing these carriages from one end? I would suggest that the 15 units closest to the "south end" of the drawing should be "dual access". This is due to the fact that you are showing a large aisle in front and behind the units.

The center aisle, Row B, Medium Storage area, should have dual access – triple arm operating wheels on both ends of the carriage units.

10) From this drawing you are not showing any fixed units or single sided units.

Fixed units - one in Row A, B, and C.
The first unit closest to the back wall.

Single sided units - Same as above plus
Last unit in Row A and B (to be the enclosed end-cap)

Art Rack, Row C, will require one fixed single sided end-cap unit 4 foot from the back wall. The opposite end of Row C will require the outside unit to be an enclosed end-cap.

11) I do not see the Art Rack system in this drawing...

The Art Rack System is Row C and included in this proposal

12) At the south end of the drawing it looks as if floor, track & ramp is shown but no carriages. Is this future growth?

This is the Art Rack Carriage System, Row C, and included in this proposal

13) We do not have any shelving elevations. How many shelf openings are required and what are the Heights, Depths & Widths for each.

Please clarify.....

See Question/Answer # 7 above

Refer to Part 1 – General, Section O for Design Requirements.

1. Limit overall height to 105 inches (art rack 108")

- 14) With reference to the Cost Sheet, it appears like you want a bid on the system as drawn and then alternative pricing if items 1-6 are added/substituted. If that is the case, what shelving are we pricing on the "system as drawn"? Height, depth, width, style? How many of each kind? Is it all the same?

See Question/Answer # 7 above

- 15) The drawing with the initial bid has a section for art rack. The drawing with addendum #1 does not have any art rack. Has the art rack storage been eliminated?

No, See Question/Answer #7, #11, and #12 above

- 16) With reference to the Cost Sheet under add alternate 2, you majority have widths varying from 4' to 8'. You two listed as a width of 4". Is this correct?

Correct – all should be 4 feet.

- 17) With reference to add alternate 3, please define what a long arm storage is and what it is intended to store. Additional in the addendum, you have the dimensions on page 2 as 12' x 20' and in the Cost Sheet, you have the dimensions as 24" (I think, my copy is not very clear) x 20'.

Long Arm storage is a collections term for a unit that allows for artifacts that are long and skinny to be hung or mounted to the back panel. This storage area provides for long items (fishing poles, flag poles, spears, tools, etc.) This is similar to a slat wall configuration. See Question 1 and 3 above for dimensions and location.

- 18) With reference to add alternate 6, you are asking for 1 pull out work shelf for every 4 aisles. Work shelves (reference shelves) are mounted per section of shelving. Do you want just one work shelf on one section every 4 aisles? Please clarify.

Row A – none

Row B – one per aisle at a maximum of 38

- 19) On page 23 under subsection a., you have added verbiage which ends: "Approximate duration for contracted installers to be on site is 5 26 week." Please clarify.

Omit the 5 - total time is 26 weeks

- 20) On page 23 under subsection b, you indicate the installers are responsible for relocating existing safe. Please describe existing safe and where it will be relocated to.

Disregard – WVDCH will move

- 21) Part 2E. Rails. This is a Spacesaver product. No one else uses this type of rail. We would bid our product that meets the same performance specifications. Is this acceptable?

Yes

- 22) Part 2H. Drive Guide System. Product called for is proprietary to Spacesaver. We would bid the Borroughs track which meets the same performance specifications. Is this acceptable?

Alternate storage systems must meet all mandatory requirements set forth in the Request for Quotation. Mandatory requirements are defined as "must", "will", "shall", "minimum/maximum", or "is/are required". Failure to meet any mandatory requirement will result in the disqualification of the vendor's bid."

- 23) The new drawing/floor layout, provided by the end user as part of addendum #1, does not provide any data on the shelf elevations. The original drawing/layout provides all of this information. We must know what the elevations are for "all of the shelving" as they pertain to the new drawing. Can we please be advised?

See Questions/Answers #7, #10 above. There should be a minimum / standard number of shelves provided for each unit (at a minimum 4). Vendor should specify the standard number per shelf.

- 24) On the new drawing, there appears to be a set of rails drawn in, is this for the Art Rack?

Yes, see Question/Answer #7, #10, #11, #12

- 25) On the new drawing, all of the carriages on both systems appear to be the same size, what is the width and length of each carriage?

See Question/Answer #7 above for size, width, length of carriage systems for Row A, B, and C.

All requirements relating to number of rails required per unit should be followed in accordance with manufacturer's specifications according to length of units.

Changes to the Specifications

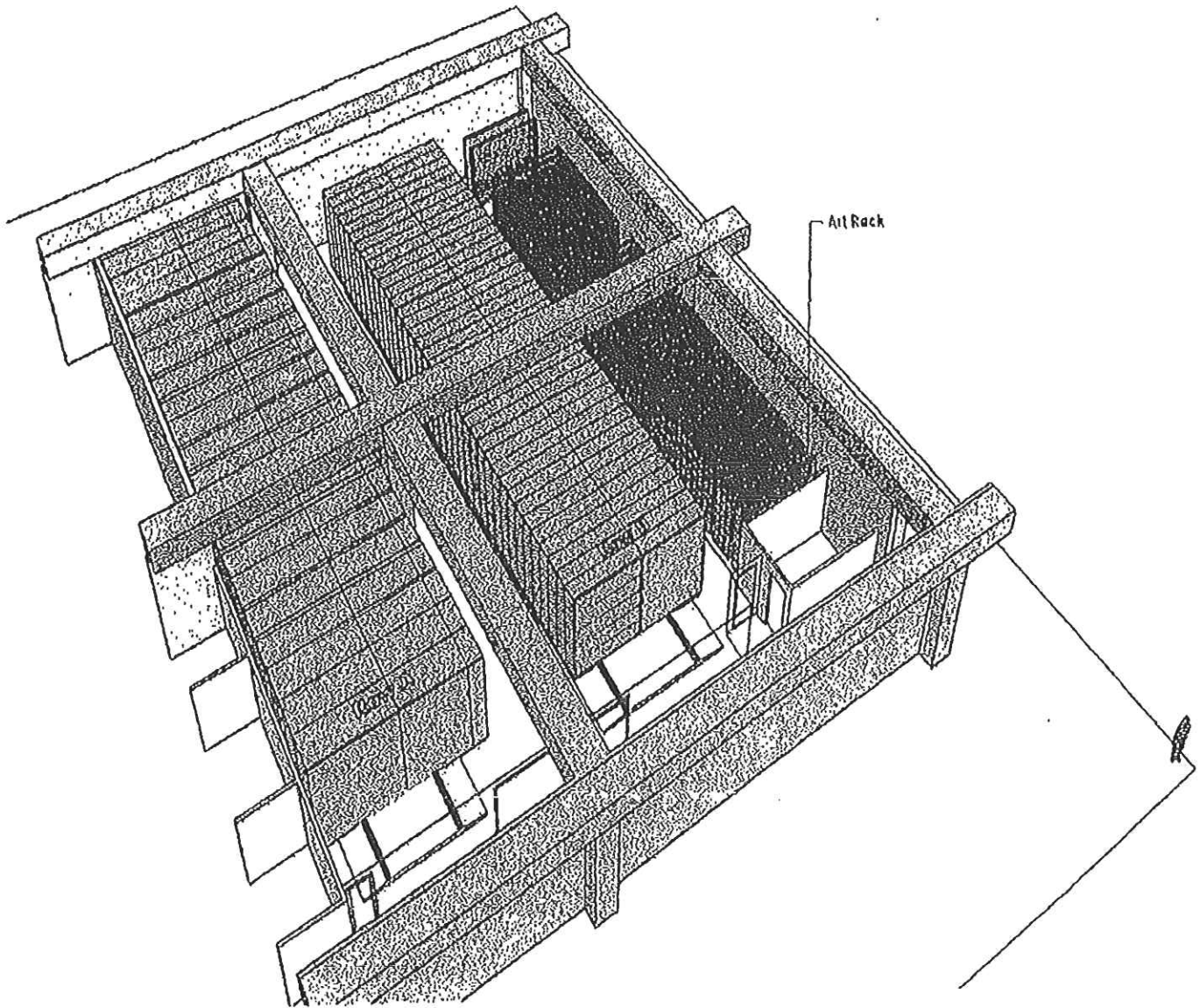
- 1.) Section: DD: "Delivery of equipment and installation shall begin four (4) weeks."

DELETE: four (4) weeks

INSERT: eight (8) weeks

Additions to the Specifications

- B. NOTICE TO PROCEED may be approximately five (5) months after the award of the contract. Vendors should plan accordingly.
- C. Site visits are available, by appointment, by calling Mark Lynch at the Division of Culture and History at 304-558-0220. Visits are for measurement purposes only. Technical questions must be submitted in accordance with the provisions of the Request for Quotation (DCH12046)



Drawing for DCH12046

Reference only

RFQ# DCH12046
Cost Sheet - Revised Per Addendum No. 2

Patterson Pope

Base Bid							Total Base Bid Cost
All labor, materials, equipment, supplies, and transportation for the installation of a Collection Storage System for the WV Division of Culture and History							
		% of Collection to be housed	Unit of Measure	Unit Cost	Estimated Quantity	Extended Cost	
Add Alternate No. 1							
Garment and Costume Storage-average 26" deep carriages		30%	cubic foot		280		
Adjustable shelves (2' X 10')			each		20		
Adjustable shelves (2' X 8')			each		20		
Textile rods							
4 foot			each		60		
5 foot			each		50		
Approximately 150-280 feet of storage.							
Total Alternate No. 1							
Add Alternate No. 2							
Slide Out Tray Unit (various sizes, widths)		15%					
4'w x 2'd x 3"h			each		10		
4'w x 2'd x 4"h			each		10		
4'w x 2'd x 6"h			each		10		
4'w x 4'd x 3"h			each		10		
4'w x 4'd x 6"h			each		10		

Patterson Pope

4'w x 4'd x 8'h			each		10
8'w x 2'd x 4'h			each		10
8'w x 2'd x 6'h			each		10
Total Alternate No. 2					
Add Alternate No. 3					
Long Arm Storage- 2' x 20' end cap section			each		2
Total Alternate No. 3					
Add Alternate No. 4 (unit = drawer system)					
Rolled Textile Storage (various sizes, widths)-Drawer/rack	10%				
style. Rolled textiles are suspended by the pole ends versus					
laying flat in drawers					
4'w x 4'd x 12"h			each		10
8'w x 4'd x 12"h			each		20
Total Alternate No. 4					
Add Alternate No. 5					
Full Extension Drawers (various sizes, widths)	30%				
4'w x 2'd x 4"h			each		10
4'w x 2'd x 6"h			each		10
4'w x 4'd x 4"h			each		5
4'w x 4'd x 6"h			each		5
4'w x 4'd x 8"h			each		5
8'w x 2'd x 4"h			each		5
8'w x 2'd x 6"h			each		5
Total Alternate No. 5					

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Add Alternate No. 6							
Pull Out Work Shelf-One per every 4 isles				each			38
Total Alternate No. 6							

****Note: If manufacture "standards" are different - preference is for standard sizes - not customized.**
 Vendors submitting "or equal" bids should include below the manufacturer and model of the product along with literature detailing how the equal solution meets the mandatory requirements of the solicitation.

Manufacturer	Spacesaver		
Model			
Literature Attached	Yes		No

PRE-BID CONFERENCE
SIGN IN SHEET

①

Request for Quotation Number:

DCH12046

Date:

01/20/2012 @ 2:00 pm

Project Description:

Archival Storage System for the WV State Museum

PLEASE PRINT LEGIBLY. THIS INFORMATION IS ESSENTIAL TO CONTACT THE ATTENDEES IN A TIMELY MANNER. FAILURE TO DO SO MAY RESULT IN DELAYS IN YOUR COMPANY GETTING IMPORTANT BID INFORMATION.

Firm Name:	WV State Purchasing Division
Firm Address:	2019 Washington St., East Charleston, WV 25305
Representative Attending:	Krista S. Ferrell, Buyer, Supervisor
Phone Number:	304.558.2596
Fax Number:	304.558.4145
Email Address:	krista.s.ferrell@wv.gov

Firm Name:	Grady
Firm Address:	50 State Street 1-800-935-6135
Representative Attending:	Howard H. St. John
Phone Number:	
Fax Number:	ASUNET® STUDENT DESIGN CENTER
Email Address:	ASUNET® STUDENT DESIGN CENTER

Firm Name:	Capital Business Interiors
Firm Address:	711 Indiana Ave. Charleston, WV 25302
Representative Attending:	Jaret Clayman
Phone Number:	304.343.0751
Fax Number:	304.346.3350
Email Address:	JClayman@VTEIOS.NET

Firm Name:	Kenny Saut
Firm Address:	
Representative Attending:	
Phone Number:	
Fax Number:	
Email Address:	

Firm Name:	Patterson Pope
Firm Address:	3001 Graham St Chevrolet N.C.
Representative Attending:	Dave Molen
Phone Number:	513-865-1635
Fax Number:	513-891-1689
Email Address:	DMolen@Patterson-Pope.com

Firm Name:	AJ-Allegany Systems LLC
Firm Address:	5036A Pleasanton St. W Charleston WV 25305
Representative Attending:	Kenny Saut
Phone Number:	(304) 769-0202
Fax Number:	(304) 769-0203
Email Address:	Kenny.Saut@ajss.net

PRE-BID CONFERENCE
SIGN IN SHEET

Request for Quotation Number:

DCH12046

Date:

01/20/2012 @ 2:00 pm

Project Description:

Archival Storage System for the WV State Museum

PLEASE PRINT LEGIBLY. THIS INFORMATION IS ESSENTIAL TO CONTACT THE ATTENDEES IN A TIMELY MANNER. FAILURE TO DO SO MAY RESULT IN DELAYS IN YOUR COMPANY GETTING IMPORTANT BID INFORMATION.

Firm Name:	Charles Morris
Firm Address:	Culture Center 1900 Kanawha Blvd East Charleston, WV 25305
Representative Attending:	
Phone Number:	558-0220
Fax Number:	558-2775
Email Address:	charles.morris@wv.gov

Firm Name:	
Firm Address:	
Representative Attending:	
Phone Number:	
Fax Number:	
Email Address:	

Firm Name:	Glenn Anderson
Firm Address:	Culture Center 1900 Kan. Blvd. East Appt. 101 25305
Representative Attending:	
Phone Number:	558-0220
Fax Number:	558-2775
Email Address:	glenn@culturewv.com

Firm Name:	
Firm Address:	
Representative Attending:	
Phone Number:	
Fax Number:	
Email Address:	

Firm Name:	OVAL CONSTRUCTION
Firm Address:	P.O. Box 401 Charleston, WV 25322
Representative Attending:	
Phone Number:	304-347-8820
Fax Number:	304-347-8821
Email Address:	oval@ovalconstruction.com

Firm Name:	
Firm Address:	
Representative Attending:	
Phone Number:	
Fax Number:	
Email Address:	



State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

WV PURCHASING ACA SECT Fax 304-558-4115

Feb 3 2012 08:26am P001/003

Request for Quotation

DCH12046

1

ADDRESS CORRESPONDENCE TO ATTENTION OF
KRISTA FERRELL
304-558-2596

Patterson Pope
3001 N. Graham St.
Charlotte, NC 28206

DIVISION OF CULTURE & HISTORY
CULTURAL CENTER
1900 KANAWHA BOULEVARD, EAST
CHARLESTON, WV
25305-0300 558-0220

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS		
02/01/2012						
BID OPENING DATE: 02/07/2012		BID OPENING TIME 01:30PM				
LINE	QUANTITY	UOP	QAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 3						
THIS ADDENDUM IS ISSUED TO:						
1.) PROVIDE ANSWERS TO TECHNICAL QUESTIONS SUBMITTED IN ACCORDANCE WITH THE PROVISIONS OF THE ORIGINAL REQUEST FOR QUOTATION (DCH12046) WHICH WERE INADVERTANTLY OMITTED FROM ADDENDUM NO. 2 AND						
2.) PROVIDE CHANGES TO THE SPECIFICATIONS PER THE ATTACHED.						
BID OPENING DATE REMAINS: 02/07/2012						
BID OPENING TIME REMAINS: 1:30 PM						
***** END ADDENDUM NO. 3 *****						
0001	1	LS		495-35		
COLLECTION STORAGE SYSTEM FOR DCH						
***** THIS IS THE END OF RFQ DCH12046 ***** TOTAL:						

SIGNATURE

TELEPHONE

540-389-7726

DATE

2/6/12

TITLE

Regional Sales Manager

FAX

56-0986683

ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
 2. The State may accept or reject in part, or in whole, any bid.
 3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
 4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
 5. Payment may only be made after the delivery and acceptance of goods or services.
 6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
 7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
 10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
 12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
 13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.html and is hereby made part of the agreement provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
 14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
 15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
 16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.
- I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).

DCH-12046

2

Division of Culture and History ~ Mobile Shelving
Responses to Questions

26) On the second drawing that accompanied the addendum, you have a system of mobile shelving that has aisles on both ends of the ranges. Do you want that part of the system to have dual access (handles and gear drives on both ends of the range)?

A: See ADDENDUM NO. 2., Question/Answer #9.

27) On page 5 of the original bld, you ask for a performance bond and a labor/material bond. Does this have to be submitted with the bid?

28) Please clarify if submittals need to be submitted with the bid or prior to awarding the contract.

A: In the Specification refer to: Part 1 SUBMITTALS (SHOULD BE SUBMITTED WITH THE VENDORS BID), Section R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK

29) On page 4 of the original bid, it indicates under Wage rates that the prevailing wage rates apply to this project. Which category would we fall under for building shelving?

A: Bidder should contact the West Virginia Division of Labor, Wage and Hour Section requesting clarification or classification of the issue. e-mail: Barbara.L.Gandy@wv.gov, Assistant Director, 304-558-7890, (place 'Prevailing Wage' in subject line).

CHANGES:

Part 4 -- EXECUTION/EXAMINATION, as outlined in the specifications Part 4 Section B2, "A signed and sealed letter from a structural engineer is required to maintain compliance with item 4.1, B, 1". This information shall be supplied by the "Successful Vendor" upon award of contract prior to installation.

Section HH:

Change From "Must be included with bid submittal"

To: "Should be included with bid submittal"

PROPOSAL FOR:

**West Virginia Division of Culture and History Collections
Mobile Storage and Collection Equipment**

SUBMITTED BY:

Patterson Pope

"Mobile System-Specified Features/Benefits"

Our product offering is specifically designed for Museum Collection Storage and Delicate item Storage. The following are mandatory Specified Features:

- Carriages are driven with **Synchro System** design. **Wheels are driven on both sides of the carriage at multiple locations** to promote even, smooth movement free of any friction or binding. This drive system eliminates any fish tailing of the carriages common with full length drive shaft systems. The synchro drive also **handles unbalanced loading** conditions without compromising even consistent movement. Unbalanced load conditions are common in museum storage. This drive assures there is **no friction, binding, or vibration**. This positive drive unit **overcomes inertia** to control stopping for protection of collection. Reduced gear ratios provide for easy carriage movement. Impact bumpers provided on all carriages.
- Low profile **One Piece "T" Section** rails with **in rail anti-tips provided on all tracks**, for safety and seismic compliance. Once piece construction is mandatory for proper load distribution.
- Rail joints, which maintain **accurate rail alignment** and transfers wheel point loads evenly to and from adjoining rail sections. **All rail joints are Tongue and Groove.**
- All rails are **Fully Grouted as specified** with 8,000 p.s.i. grout to assure structural integrity of the rail system.
- **12 Ga. welded structural carriage construction.** **Full ¾" recess mount.** 1,000 pounds per foot minimum capacity.
- **All wheel guide** for superior performance, **Frictionless Roller Guide.**
- Formaldehyde free floors, free of any harmful off gassing.
- Single spoke or three spoke (your choice) ergonomic hand crank. Drive mechanism completely enclosed. Your choice of reduced gear ratios for easy carriage movement and protection of your collection.
- **Exterior mounted chain tensioners.**
- All steel components **powder coat painted** for superior finish, free of off gassing providing for totally inert finish for maximum protection of stored material.

- No prohibited materials will be utilized. In fact, the entire Spacesaver system has been chemically analyzed by an independent test laboratory to assure that all components do not off gas and are totally inert. This testing was done in conjunction with the National Archives II pre-qualification process. All materials were tested including wheel greases, bearings, powder coat paint finishes, bumpers, handles, etc. In essence, we are offering you a proven, tested and highly engineered product for your very unique storage requirements.
- Please see attached analysis covering our key product offering as specified. You will see Spacesaver's proposal is totally compliant with your performance requirements.

**WEST VIRGINIA
STATE TAX DEPARTMENT
BUSINESS REGISTRATION
CERTIFICATE**

ISSUED TO:
**PATTERSON POPE INC.
3001 N GRAHAM ST
CHARLOTTE, NC 28206-3537**

BUSINESS REGISTRATION ACCOUNT NUMBER: 2256-6293

This certificate is issued on: 07/5/2011

*This certificate is issued by
the West Virginia State Tax Commissioner
in accordance with Chapter 11, Article 12, of the West Virginia Code*

*The person or organization identified on this certificate is registered
to conduct business in the State of West Virginia at the location above.*

This certificate is not transferrable and must be displayed at the location for which issued.
This certificate shall be permanent until cessation of the business for which the certificate of registration was granted or until it is suspended, revoked or cancelled by the Tax Commissioner.

Change in name or change of location shall be considered a cessation of the business and a new certificate shall be required.

TRAVELING/STREET VENDORS: Must carry a copy of this certificate in every vehicle operated by them.
CONTRACTORS, DRILLING OPERATORS, TIMBER/LOGGING OPERATIONS: Must have a copy of this certificate displayed at every job site within West Virginia.

Patterson Pope

4'w x 4'd x 8'h		each	\$ 3,546.00	10	\$ 3,546.00
8'w x 2'd x 4'h		each	\$ 3,216.00	10	\$ 3,216.00
8'w x 2'd x 6'h		each	\$ 3,581.00	10	\$ 3,581.00
Total Alternate No. 2					\$ 23,862
Add Alternate No. 3					
Long Arm Storage- 2' x 20' end cap section		each	\$ 3,425.00	2	\$ 6,850.00
Total Alternate No. 3					\$ 6,850.00
Add Alternate No. 4 (unit = drawer system)					
Rolled Textile Storage (various sizes, widths)-Drawer/rack	10%				
style. Rolled textiles are suspended by the pole ends versus					
laying flat in drawers					
4'w x 4'd x 12'h		each	\$ 4,464.00	10	\$ 44,640.00
8'w x 4'd x 12'h		each	\$ 5,875.00	20	\$ 117,500.00
Total Alternate No. 4					\$ 162,140.00
Add Alternate No. 5					
Full Extension Drawers (various sizes, widths)	30%				
4'w x 2'd x 4'h		each	\$ 3,243.00	10	\$ 32,430.00
4'w x 2'd x 6'h		each	\$ 3,446.00	10	\$ 34,460.00
4'w x 4'd x 4'h		each	\$ 3,111.00	5	\$ 15,555.00
4'w x 4'd x 6'h		each	\$ 3,314.00	5	\$ 16,570.00
4'w x 4'd x 8'h		each	\$ 3,516.00	5	\$ 17,580.00
8'w x 2'd x 4'h		each	\$ 3,111.00	5	\$ 15,555.00
8'w x 2'd x 6'h		each	\$ 3,314.00	5	\$ 16,570.00
Total Alternate No. 5					\$ 124,765.00

Patterson Pope

Add Alternate No. 6							
Pull Out Work Shelf-One per every 4 isles			each	\$ 96.60	38	\$ 3,670.80	
Total Alternate No. 6						\$ 3,670.80	

****Note: If manufacture "standards" are different - preference is for standard sizes - not customized.**
 Vendors submitting "or equal" bids should include below the manufacturer and model of the product along with literature detailing how the equal solution meets the mandatory requirements of the solicitation.

Manufacturer Spacesaver

Model Mechanical Assist

Literature Attached (Yes) No

Agency _____
 REQ.P.O# DCH12046

BID BOND

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned, Patterson Pope, Inc.
 of Charlotte, North Carolina, as Principal, and Fidelity and Deposit Company
 of Maryland, Schaumburg Illinois, a corporation organized and existing under the laws of the State of Maryland
 with its principal office in the City of Schaumburg, as Surety, are held and firmly bound unto the State
 of West Virginia, as Obligor, in the penal sum of Five percent of amount bid (\$ 5%) for the payment of which,
 well and truly to be made, we jointly and severally bind ourselves, our heirs, administrators, executors, successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Purchasing Section of the
 Department of Administration a certain bid or proposal, attached hereto and made a part hereof, to enter into a contract in writing for
West Virginia Cultural Center, Charleston, West Virginia.

NOW THEREFORE,

(a) If said bid shall be rejected, or
 (b) If said bid shall be accepted and the Principal shall enter into a contract in accordance with the bid or proposal attached
 hereto and shall furnish any other bonds and insurance required by the bid or proposal, and shall in all other respects perform the
 agreement created by the acceptance of said bid, then this obligation shall be null and void, otherwise this obligation shall remain in full
 force and effect. It is expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event,
 exceed the penal amount of this obligation as herein stated.

The Surety, for the value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no
 way impaired or affected by any extension of the time within which the Obligor may accept such bid, and said Surety does hereby
 waive notice of any such extension.

IN WITNESS WHEREOF, Principal and Surety have hereunto set their hands and seals, and such of them as are corporations
 have caused their corporate seals to be affixed hereunto and these presents to be signed by their proper officers, this

7th day of February, 20 12.

Principal Corporate Seal

Patterson Pope, Inc.

(Name of Principal)

By [Signature]

(Must be President or
 Vice President)

CFO

(Title)

Surety Corporate Seal

Fidelity and Deposit Company of Maryland

(Name of Surety)

Kelly Cody

[Signature]
 Attorney-in-Fact

IMPORTANT - Surety executing bonds must be licensed in West Virginia to transact surety insurance. Raised corporate seals
 must be affixed, a power of attorney must be attached.

Power of Attorney
FIDELITY AND DEPOSIT COMPANY OF MARYLAND

KNOW ALL MEN BY THESE PRESENTS: That the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, a corporation of the State of Maryland, by THEODORE G. MARTINEZ, Vice President, and ERIC D. BARNES, Assistant Secretary, in pursuance of authority granted by Article VI, Section 2, of the By-Laws of said Company, which are set forth on the reverse side hereof and are hereby certified to be in full force and effect on the date hereof, does hereby nominate, constitute and appoint **Kelly CODY, Jeffrey R. MEISINGER, Roxanne JENSEN and Kent ARPS, all of Green Bay, Wisconsin, EACH** its true and lawful agent and Attorney-in-Fact, to make, execute, seal and deliver, for, and on its behalf as surety, and as its act and deed: **any and all bonds and undertakings**, and the execution of such bonds or undertakings in pursuance of these presents, shall be as binding upon said Company, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the Company at its office in Baltimore, Md., in their own proper persons. This power of attorney revokes that issued on behalf of Kelly CODY, Timothy J. MCKENNA, Jeffrey R. MEISINGER, Michelle HALL, GRAN, Roxanne JENSEN, Kent ARPS, Troy CARLSON, dated October 18, 2006.

The said Assistant Secretary does hereby certify that the extract set forth on the reverse side hereof is a true copy of Article VI, Section 2, of the By-Laws of said Company, and is now in force.

IN WITNESS WHEREOF, the said Vice-President and Assistant Secretary have hereunto subscribed their names and affixed the Corporate Seal of the said FIDELITY AND DEPOSIT COMPANY OF MARYLAND, this 4th day of June, A.D. 2008.

ATTEST:

FIDELITY AND DEPOSIT COMPANY OF MARYLAND



Eric D. Barnes

Eric D. Barnes

Assistant Secretary

Theodore G. Martinez

By:

Theodore G. Martinez

State of Maryland }
City of Baltimore } ss:

On this 4th day of June, A.D. 2008, before the subscriber, a Notary Public of the State of Maryland, duly commissioned and qualified, came THEODORE G. MARTINEZ, Vice President, and ERIC D. BARNES, Assistant Secretary of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and they each acknowledged the execution of the same, and being by me duly sworn, severally and each for himself depose and saith, that they are the said officers of the Company aforesaid, and that the seal affixed to the preceding instrument is the Corporate Seal of said Company, and that the said Corporate Seal and their signatures as such officers were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporation.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal the day and year first above written.



Constance A. Dunn

Constance A. Dunn

Notary Public

My Commission Expires: July 14, 2011




patterson·pope

SPACE MADE SIMPLE.

Affidavit of Compliance

This document is to confirm that Patterson Pope has complied with all specifications set forth in RFQ# DCH12046 and has abided by all rules and regulations during the bid process.

Patterson Pope:

Signature: 

Print name: David Parr

Title: VP Sales

Date: 2/2/2012

01/20/2012 FRI 17:56 FAX

033/035

patterson·pope

SPACE MADE SIMPLE.

32

DCH12046



State of West Virginia
DRUG FREE WORKPLACE CONFORMANCE AFFIDAVIT
West Virginia Code §21-1D-5

STATE OF North Carolina

COUNTY OF Mecklenburg, TO-WIT:

I, David Parr, after being first duly sworn, depose and state as follows:

1. I am an employee of Patterson Pope; and,
(Company Name)
2. I do hereby attest that Patterson Pope
(Company Name)

maintains a valid written drug free workplace policy and that such policy is in compliance with **West Virginia Code §21-1D-5**.

The above statements are sworn to under the penalty of perjury.

Patterson Pope
(Company Name)

By: David Parr

Title: VP Sales

Date: 2/2/2012

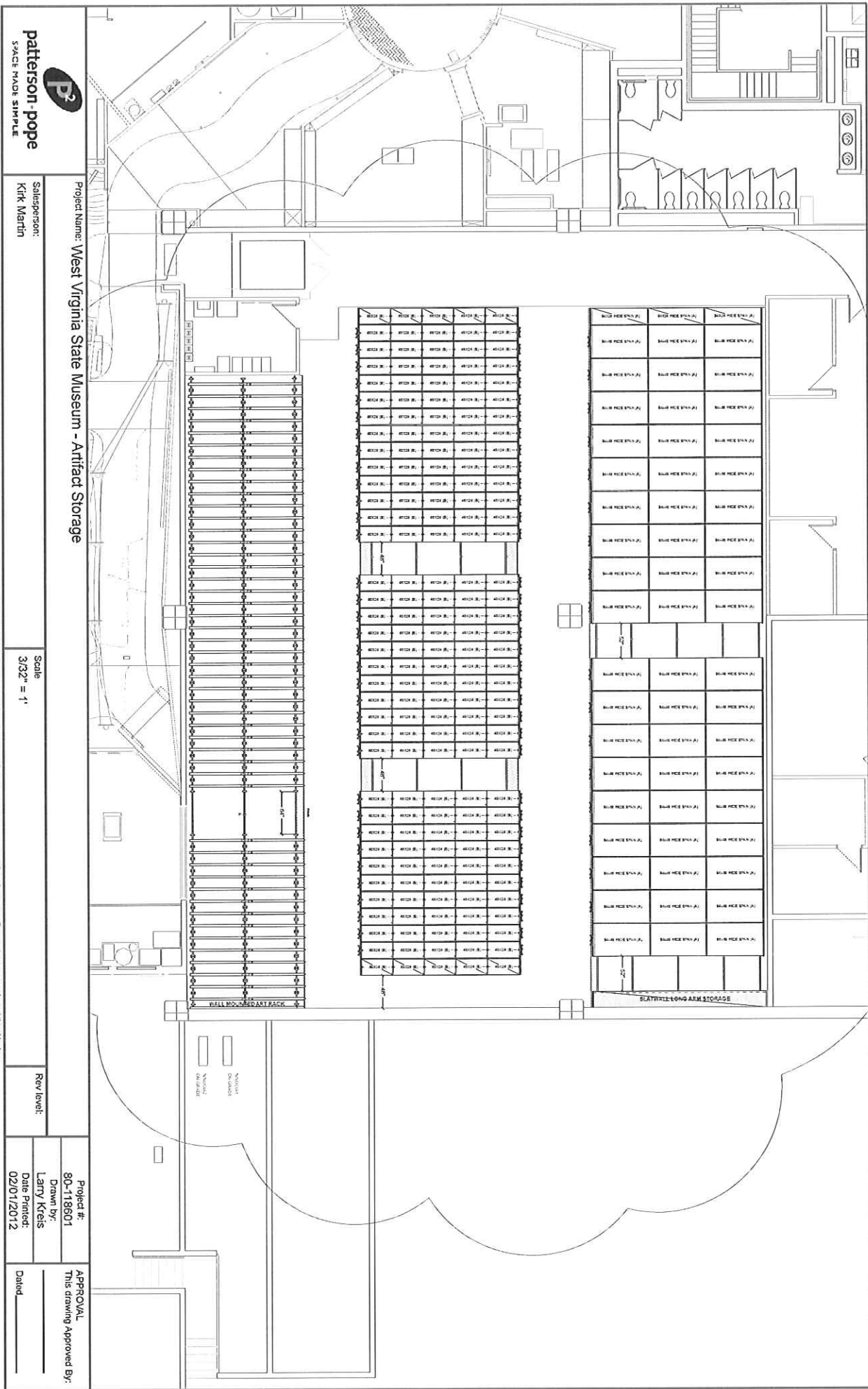
Taken, subscribed and sworn to before me this 2 day of February, 2012
By Commission expires June 21, 2012



Karen Ruff
(Notary Public)

THIS AFFIDAVIT MUST BE SUBMITTED WITH THE BID IN ORDER TO COMPLY WITH WV CODE PROVISIONS. FAILURE TO INCLUDE THE AFFIDAVIT WITH THE BID SHALL RESULT IN DISQUALIFICATION OF THE BID.

Rev March 2009



patterson-pope
SPACE MADE SIMPLE

Project Name: West Virginia State Museum - Artifact Storage
Salesperson: Kirk Martin

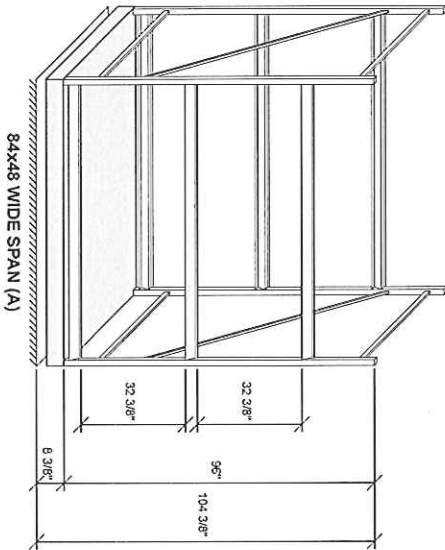
Scale:
3/32" = 1'

Project #: 80-118601
Drawn by: Larry Kreis
Date Plotted: 02/01/2012
Rev Level:
APPROVAL:
This drawing Approved By: _____
Dated: _____

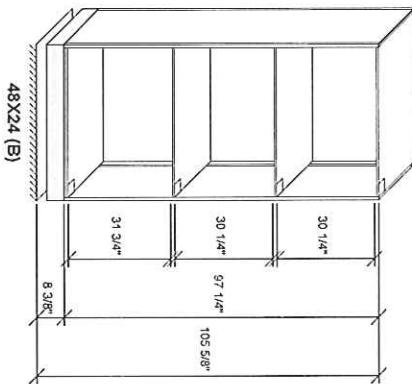
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File P:\Projects\VirginiaMuseum_KirkMartin\80-118601 Artifact Storage\80-118601 Artifact Storage - R872.dwg

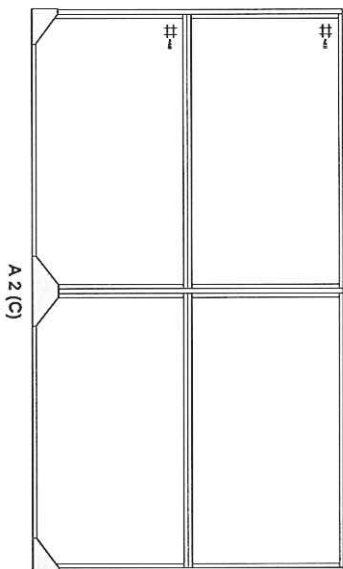
WIDE SPAN BULK STORAGE (A)
96"x64" dls



MEDIUM STORAGE SHELVING (B)
97 1/4"x48" dls



ART RACK STORAGE (C)
H-105"
14W x 8H



pattern - pope
SPACE MADE SIMPLE

Project Name: West Virginia State Museum - Artifact Storage

Salesperson:
Kirk Martin

Scale
1:45

Rev level:

Project #:
80-118601

Drawn by:
Larry Kreis

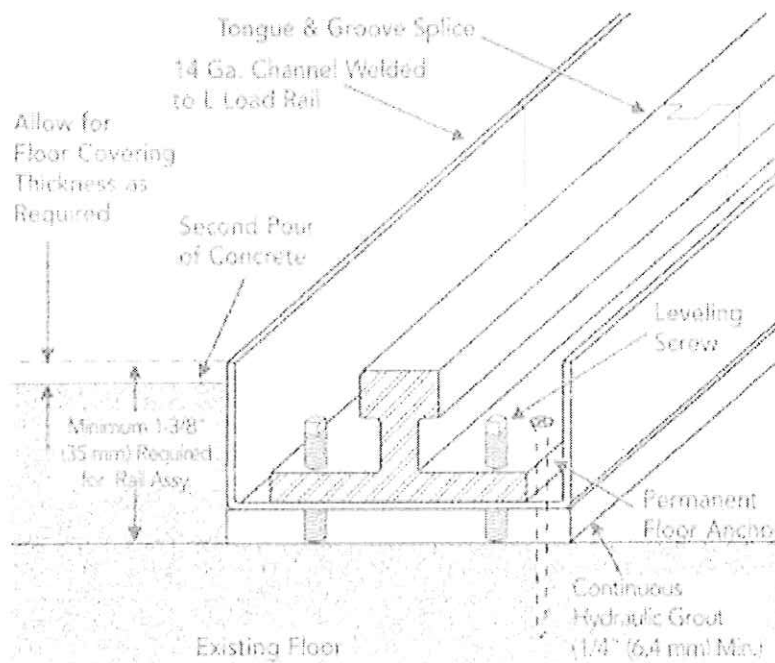
Date Printed:
02/01/2012

APPROVAL
This drawing Approved By:

Dated _____

Rail / Drive / Guide / Carriage Construction:

- a. Rail: Due to the carriage length and weights, we will provide one piece structural rail as specified. Note the detail below shows the rail with an optional rail form channel. Since this is not a recessed rail application no form channel will be provided. Please refer to attached Tech Data Sheet.



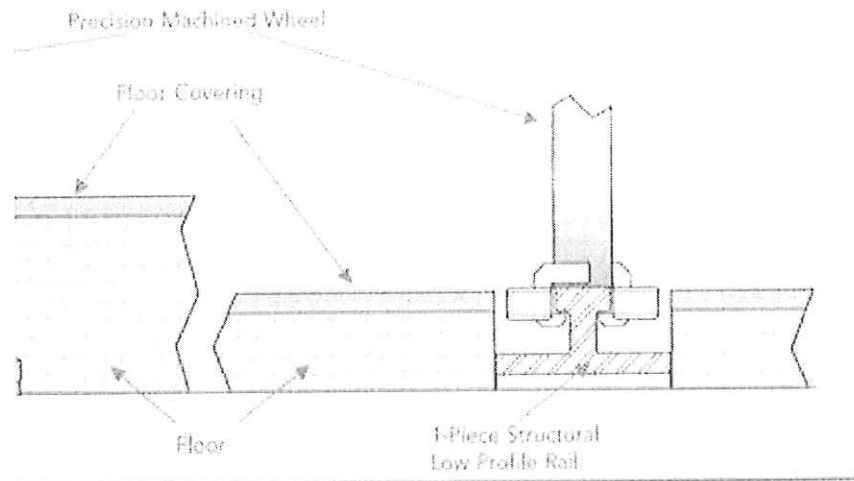
Tech Spec:

Rail is one-piece, cold drawn structural "T" section 1035 steel extrusion 1-1/16" (27 mm) high with a 2-1/8" (54 mm) base flange, a 5/8" (16 mm) top surface and two anti-tip grooves. Rail welded to a 14 gauge steel, 1-1/8" (28 mm) high, 2-7/8" (73 mm) wide, painted concrete form channel. Rail shall disburse the wheel point load to a minimum 4-1/4 square inch area at the base of the rail. All rail joints tongue and groove. Rail shall have two leveling screws and two permanently mounted floor anchors maximum 36" (914 mm) o.c. All rail assemblies shall be fully grouted with a non-shrink hydraulic cement type grout with an 8,000 lb. p.s.i. strength after curing.

L load rail, Spacesaver's one-piece, low profile, L load rail of cold drawn, structural steel, provides uniform distribution of heavy loads and precision alignment for long term, easy carriage operation under heavy cyclic load stress.*

BENEFITS

1. L load rail's one-piece, structural design and tongue and groove splicing provides carriage operation that is smooth and reliable under even the heaviest loads. (No butt joints)
 2. Leveling screw adjustability, continuous grouting and permanent floor anchors ensure long term dependability.
 3. System stability with anti-tips is achieved by combining L load rail with carriages having roller guide bearing and anti-tip brackets.
 4. Full grout, 8,000 p.s.i. for weight load distribution. (No shims)
 5. Leveling screw adjustability for exact leveling. (No shims)
- b. Guide: Due to the carriage length and the delicate nature of the collection, Spacesaver proposes the use of "frictionless" roller guide bearings as specified.



Tech Spec:

Guidance System:

Four roller type guide bearings per wheel channel assembly, two at the end of each wheel channel. Guide bearings shall be precision machined, cam follower type of hardened steel, permanently lubricated and adjustable to ensure proper alignment of the carriages. Maximum profile of recess adjacent to rail for guide bearings and anti-tip system: 1-1/8" wide x 3/4" deep.

Two opposing in-rail anti-tip assemblies per wheel channel that intermember with the rail system's anti-tip grooves and are fully adjustable to ensure proper alignment.

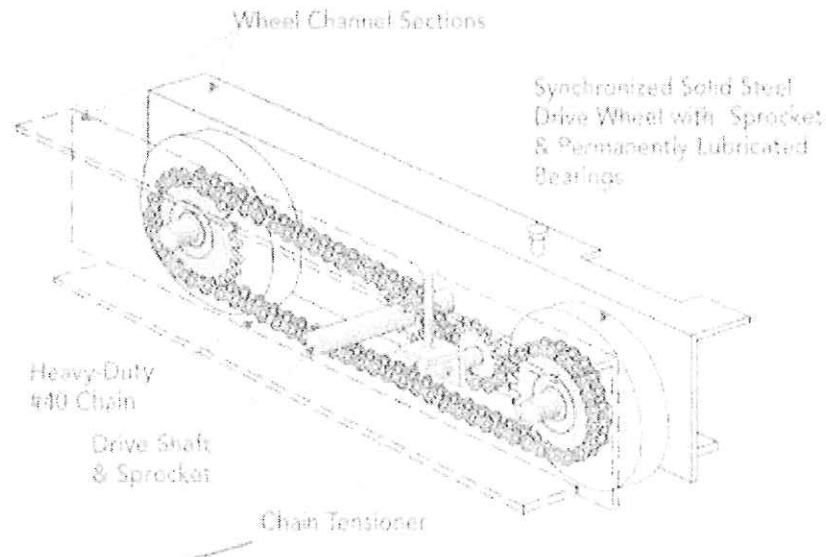
BENEFITS:

1. Uniform, even wheel alignment allows smooth, effortless carriage movement with no metal-to-metal resistance (common with dual flange type systems) and minimizes the risk of damage to stored materials from carriage vibration and racking.
2. Permanently lubricated and shielded roller bearing assemblies provide long term, maintenance free operation.
3. Permanent carriage and face panel alignment ensures a long term, level, balanced appearance.
4. Synchronized wheel rotation with roller bearing guidance.
5. Greater carriage strength and rigidity ensures maintenance free positive alignment for consistently parallel operation.
6. Increased system strength means increased weight and storage capacity.

7. In rail anti-tip devices built into the system's wheel assembly work with the rail system to satisfy code requirements.
8. Hardened steel construction of the roller guide bearings prevents excessive metal wear and fatigue.

* Please see Section 10 for Independent Engineering Certification. "Norpac Report – Roller Guide"

- c. Drive: In order to provide even carriage movement, free of any racking or binding all carriages will be supplied with the specified multiple synchro drives driving both sides of each carriage at multiple locations. All drive wheels are 5" diameter with permanently shielded and lubricated, maintenance free bearings.



Tech Spec:

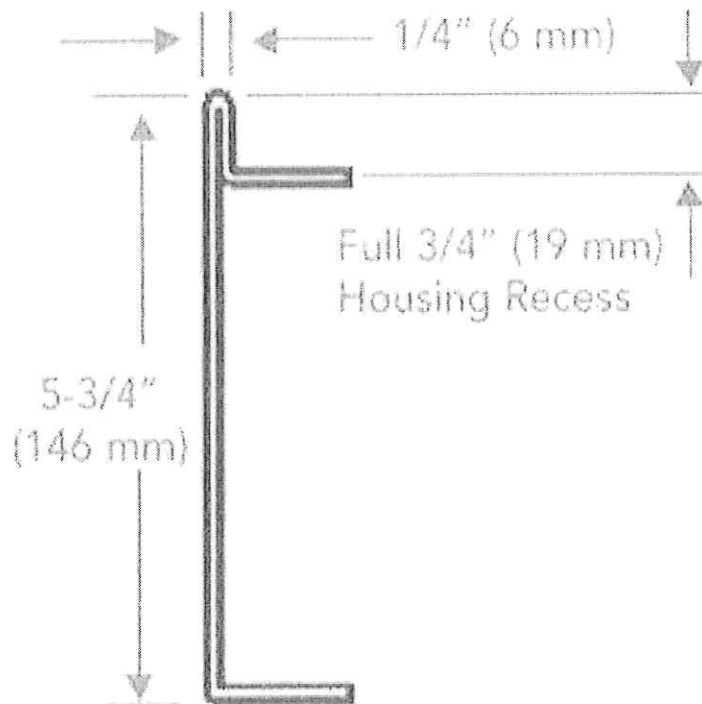
Synchro System:

Dual synchronized drive wheels on both sides of designated wheel housing(s) to be 5" diameter and connected with a #40 roller chain to ensure even wheel movement. Multiple Synchro System assemblies shall be interconnected with a continuous drive shaft for simultaneous wheel rotation and even, parallel carriage movement.

BENEFITS:

1. Push and pull racking movement common with traditional mobile systems is eliminated for smooth, easy carriage operation.
2. Normal cyclic load stress is minimized and carriage racking is eliminated decreasing the strain and wear on carriage(s), guidance system and rails for longer system life.
3. Media loads can be shifted and reorganized as needed without sacrificing system performance.
4. Fragile media is protected from damage caused by rough, jerky carriage movement.
5. Synchronized wheels provide balanced drive transmission on carriage length and width, and further enhance the system's operation and life expectancy.

- d. Carriage Construction: Spacesaver will provide fixture welded steel carriages and stationary platforms for maximum strength, rigidity and structural integrity. Carriages complete with structural double hem full 3/4" recess for seismic compliance, user safety and aesthetics.



Structural Face Sections

Tech Spec:

Standard Profile Carriages:

Carriages will be minimum 1,000 lbs per linear carriage foot capacity, fixture unit welded, uniframe assemblies constructed of 12 gauge steel with main supporting structural face sections 5-3/4" high with two reinforcing flanges running the full length of the carriage. Main supporting structural face sections shall provide a 3/4" shelf mounting recess for positive shelving alignment and attachment. Wheel support sections shall be 12 gauge steel and shall be welded between the main support face sections, one per rail assembly. A minimum of two carriage face panel supports shall be provided for each face panel to fully support its weight and provide positive alignment. Carriage face sections shall provide a smooth clean appearance without any exposed assembly holes or protruding hardware. Carriage shall be powder coat painted.

Stationary platforms, as shown on the drawing, shall be of the same construction and height as the moveable carriages.

Lifetime warranty on this structure.

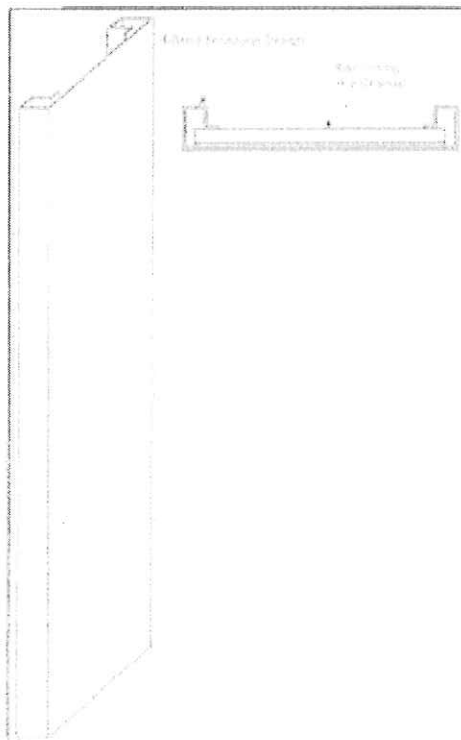
Motors on powered option: Each carriage will be equipped with a 1/8 hp "Bodine" DC gear motor.

Benefits:

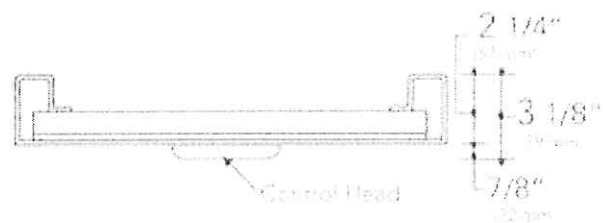
- Ability to soft start and stop carriages
- Programmable for block or sequential movement without the requirement to buy additional parts, and without losing ramp start or stop.
- Current limited, with automatic timeout, UL Listed
- "Whisper" quiet for use in library applications
- Location: always located towards the middle of the carriage to provide balance and even drive, regardless of carriage length.
- For serviceability, simple lift up the bottom shelf
- **Comes standard with 10-year warranty!**

End Panel

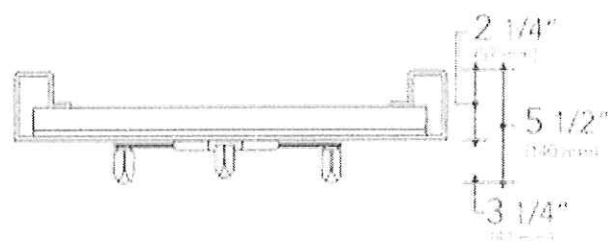
End panels as specified will be 18 gauge steel and reinforced powder coat paint finished.



► POWERED SYSTEMS



► MECHANICAL ASSIST





TechData

MECHANICAL ASSIST SYSTEM OPERATION

Spacesaver's mechanical assist control operation uses an ergonomic three spoked drive handle with rotating knobs to provide an efficient method of moving mobile system carriages that features a user activated safety lock.

BENEFITS

1. Spoke operator hub features permanently lubricated ball bearing assemblies for easy, maintenance free system operation.
2. Adjustable chain tensioner allows easy roller chain tension adjustment without removing face panels.
3. Spoke operators' installed depth of just 3 1/2" (88 mm) maximizes the usable space adjacent to the system.
4. Mechanical assist control operation allows for easy future upgrade to powered control operation.
5. Optional hub lock allows individual carriages to be key locked in position as desired.

*Drive options that allow from 4,000 to 10,000 lbs. of carriage weight to be moved with one pound of effort, are available. Refer to the system ratio charts for details.

DESIGN AND CAPABILITIES

Mechanical assist control provides mechanical advantage for easy carriage operation with an ergonomically designed three spoked drive operator that transfers power to the carriage's drive axle through roller chains and sprockets concealed behind the face panels.

Three spoked handle with rotating soft touch hand knobs, is mounted in the center of each moveable carriage face panel. Dual control systems provide a spoked operator on both of each carriage's face panels.

Each spoke operator houses a safety lock control with a visual indicator. This alerts users to the lock's operational status.

MECHANICAL ASSIST CONTROL OPERATION



To access a new aisle, first visually check the existing aisle to make sure it is clear of users and obstacles, including stored media protruding from storage housings. When the aisle is clear, release the safety lock(s) on the spoke operator(s) closest to the opened aisle. (The lock's florescent green visual indicator will show the carriage's unlocked status.)

Then move the carriages, by rotating their spoke operators in the desired direction of travel until the new aisle is fully opened (1 lb. of pressure on the spoke handle will move a minimum of 4,000 lbs. of carriage weight*). Finally, depress the safety lock control(s) on the spoke operator(s) adjacent to the new aisle, to lock the carriage(s) in place.

MULTIPLE SYNCHRO SYSTEM RATIOS

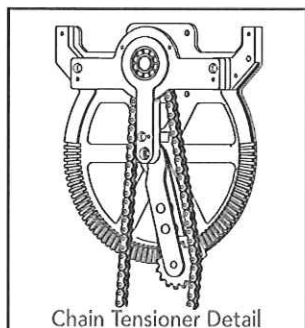
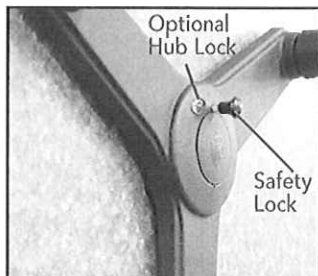
1lb. of Starting Effort Moves This Much Weight	Inches (mm) Moved per Revolution	No. of Turns to Open 36" (914 mm) Aisle
1 lb. : 4,000 lbs.	4.76 (121)	7.6
1 lb. : 6,000 lbs.	3.89 (99)	9.2
1 lb. : 8,000 lbs.	2.86 (73)	12.6
1 lb. : 10,000 lbs.	2.45 (63)	14.7

LINE SHAFT DRIVE SYSTEM RATIOS

1lb. of Starting Effort Moves This Much Weight	Inches (mm) Moved per Revolution	No. of Turns to Open 36" (914 mm) Aisle
1 lb. : 4,000 lbs.	5.31 (134)	6.8
1 lb. : 6,000 lbs.	3.83 (97)	9.4
1 lb. : 8,000 lbs.	3.07 (78)	11.7
1 lb. : 10,000 lbs.	2.38 (60)	15.1

TechData

MECHANICAL ASSIST SYSTEM OPERATION



TECH SPEC

Mechanical Assist Control Operation Requirements:

Each moveable carriage shall be equipped with one ergonomically designed mechanical assist three spoke hub type operator that rotates with easy up or down user effort from any possible starting position of any moveable carriage. Each spoke shall have a rotating, soft-touch, thermoplastic hand grip ergonomically designed to fit the hand 1-3/4" (44 mm) in diameter and 2" (50 mm) long. The center of the mechanical assist operator shall be conveniently located 40" (1015 mm) from the base, and in the center of the face panel, and the spokes shall rotate in a radius of not more than 8-1/2" (215 mm) from the center of the hub. All rotating hub and shaft surfaces in the mechanical assist operator shall ride on ball or roller bearings. The power transfer from the mechanical assist operator to the drive axle shall be through sprockets and a #35 roller chain which shall have an adjustable chain tensioner for easy adjustability, and be accessible from the front of the face panel without its removal. The user's starting effort shall not exceed one pound to move a minimum of *4,000 lbs. All elements of the drive system except the 3 spoke operator and its hub shall be concealed behind the face panel for safety. Each mechanical assist operator shall have a positive on and off anti-roll safety lock with a visual fluorescent green indicator in the unlocked state, located on the operator hub. The entire assembly shall protrude a maximum of 3-1/2" (88 mm) from the finished surface of the face panel. **For keyed hub lock, add:** Each hub operator as indicated on the drawings shall have a keyed hub lock which locks the safety lock preventing carriage movement. (*Weights are variable. See system ratio charts.) **For optional torque limiter, add:** Each hub operator as indicated on the drawings shall have a torque limiter to prevent excessive force from being applied to the drive mechanism.

Specifications subject to change.



Storage Solved™

Website: www.spacesaver.com
E-mail: ssc@spacesaver.com



a division of **KI**
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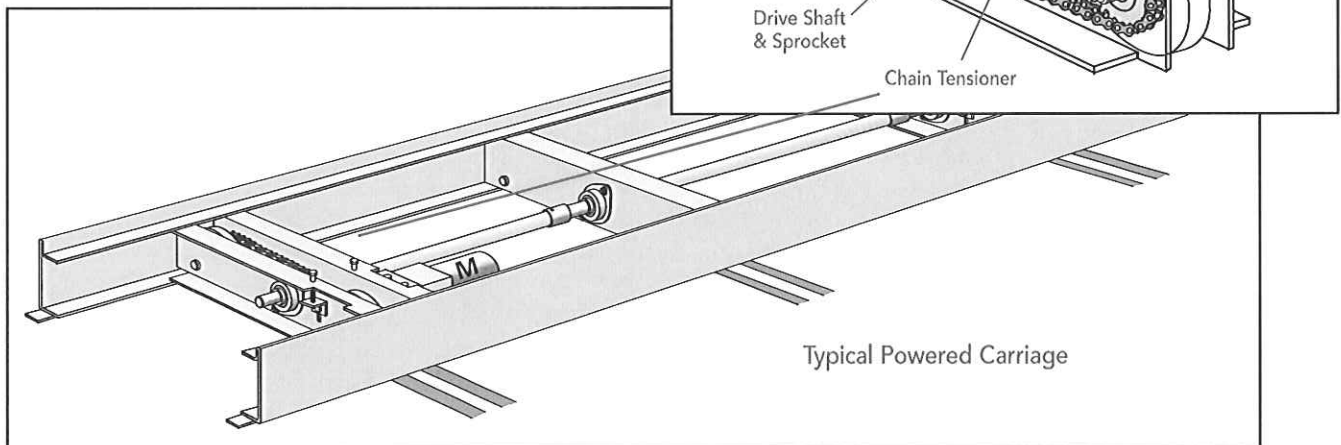
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Email sales@kiuk.co.uk

DRIVE SYSTEMS

MULTIPLE SYNCHRO DRIVE SYSTEM FOR POWERED AND MECHANICAL ASSIST CARRIAGES

Spacesaver's exclusive Multiple Synchro Drive System provides a state-of-the-art method of equalizing carriage wheel rotation and driving both sides of the carriage to deliver smooth, easy and parallel carriage movement and long system life.



BENEFITS

1. Push and pull racking movement common with traditional mobile systems is eliminated by providing smooth, easy carriage operation.
2. Normal cyclic load stress (see page 2) is minimized and carriage racking is eliminated decreasing the strain and wear on carriage(s), guidance system and rails for longer system life.
3. Media loads can be shifted and reorganized as needed without sacrificing system performance.
4. Fragile media is protected from damage caused by rough, jerky carriage movement in other drives.
5. Multiple synchronized wheels provide balanced drive transmission on carriage length and width, which further enhances the system's operation and life expectancy.

DESIGN AND CAPABILITIES

Multiple Synchro Drive System's patented chain and sprocket design ensures that the leading and trailing carriage edges of each carriage move together by connecting the two wheels riding on the designated rail(s) to each other in a synchronized wheel assembly for balanced, simultaneous wheel movement. The unit welded construction of Spacesaver carriages works with synchro system drives to further assure long term carriage squareness and parallel movement.

Powered and mechanical assist systems with carriages six feet (1800 mm) and longer feature synchronized wheel assemblies at two or more rail locations and a continuous drive shaft that links all synchronized wheel assemblies together. Working together, the synchronized wheel movement and connecting drive shaft allows the entire carriage to move precisely and consistently parallel to the other system carriages regardless of media load irregularities.

TechData

MULTIPLE SYNCHRO DRIVE SYSTEM FOR POWERED AND MECHANICAL ASSIST CARRIAGES

APPLICATION

Spacesaver's patented Multiple Synchro Drive System is available for powered and mechanical assist systems with carriages 18" (456 mm) wide or wider. Roller guide, center flange or dual flange guidance systems may be used with appropriate low profile, standard or structural rails.

Cyclic load stresses are the weight and forces placed on all parts of a mobile system as it cycles back and forth and as it rests. The force of movement combined with the weight of the stored materials transferred to the storage housing and down the storage housing's vertical members to the carriage, represents the cyclic load stress on the carriage. From the carriage, the load is transferred to the bearing/axle/wheel assembly where it becomes a point load that is then transferred to the system's rails, and finally to the grout and floor.

TECH SPEC

Multiple Synchro Drive System:

Dual synchronized drive wheels on both sides of designated wheel housing(s), as indicated on the drawings, to be 5" (127 mm) diameter and connected with a #40 roller chain to ensure even wheel movement. Multiple Synchro Drive System assemblies shall be interconnected with a continuous drive shaft for simultaneous wheel rotation and even, parallel carriage movement. Load wheels shall be 3" (76 mm) diameter [5" (127 mm) optional]. All wheels to be machined from solid 1045 steel and equipped with two (2) permanently shielded bearing assemblies. Spacers to be provided on both sides of wheel bearings to eliminate friction between wheels and carriage.

Specifications subject to change.

MULTIPLE SYNCHRO DRIVE SYSTEM LOCATION FOR POWERED AND MECHANICAL ASSIST CARRIAGES

Carriage Length	No. of Rails	Synchro System Location	Illustration
3' - 4'	2	RAIL 1	
6' - 9'	2	RAILS 1 & 2	
10.5' - 16'	3	RAILS 1 & 3	
18' - 21'	4	RAILS 2 & 3	
24' - 30'	5	RAILS 2 & 4	
33' - 36'	6	RAILS 2 & 5	
39' - 45'	7	RAILS 2, 4 & 6	
48' - 81' Consult Factory			

NOTES:

- Synchro locations shown above are typical and can vary by job. Contact factory to verify actual number and location of synchro wheel assemblies.



Storage Solved®

Website: www.spacesaver.com

E-mail: ssc@spacesaver.com



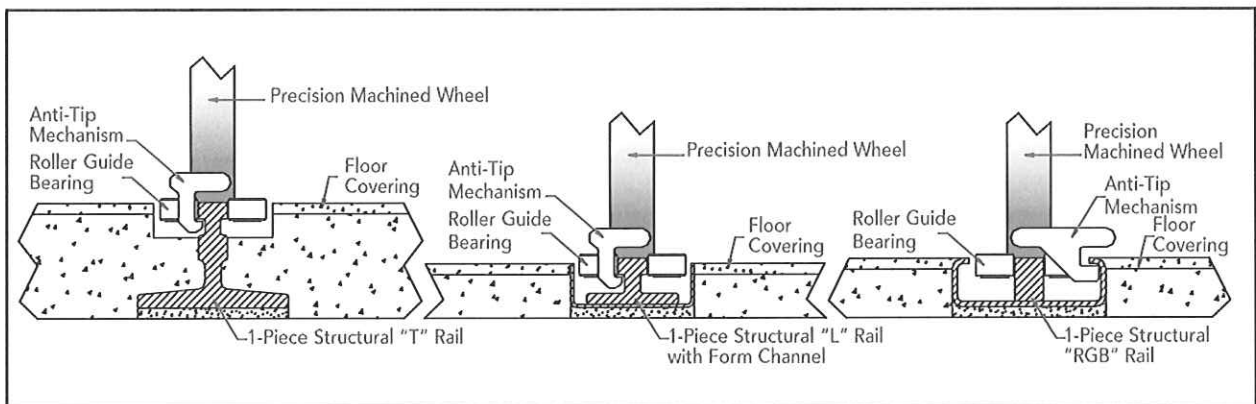
USA
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Toll Free 800/492-3434
Fax 920/563-2702

Canada
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Toll Free 800/544-3679
Fax 416/360-7290

Europe
Commonwealth House
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London WC1V 6PJ, UK
Telephone +44 (0)20 7404-7441
Fax +44 (0)20 7404-7442
Email sales@kiuk.co.uk

ROLLER BEARING ANTI-TIP GUIDANCE SYSTEM

Spacesaver's roller bearing guidance system with in-rail anti-tips, features roller guide bearing assemblies that provide the highest quality mobile system guidance on the market today.



BENEFITS

1. Uniform, even wheel alignment allows smooth, effortless carriage movement with no metal-to-metal resistance, and minimizes the risk of damage to stored materials from carriage vibration and racking.
2. Permanently lubricated and shielded roller bearing assemblies provide long term, maintenance free operation.
3. Permanent carriage and face panel alignment ensures a long term, level, balanced appearance.
4. Synchronized wheel rotation with roller bearing guidance:
 - ☐ Ensures the smoothest, easiest and most parallel carriage operation.
 - ☐ Further reduces the risk of damage to fragile media.
 - ☐ Minimizes pressure and wear to the system.
 - ☐ Provides the longest possible system life by eliminating binding, wheel slippage and carriage racking.

5. Greater carriage strength and rigidity ensures maintenance free positive alignment for consistently parallel operation.
6. Increased system strength means increased weight and storage capacity.
7. In-rail anti-tip devices built into the system's wheel assembly work with the rail system to satisfy code requirements for installations in seismic zones and provide stability in installations with a high carriage height to width ratio.
8. Precision machined construction of the roller guide bearings prevents excessive long term metal wear and fatigue.

DESIGN CAPABILITIES

Specifically designed by Spacesaver for mobile storage, roller bearing anti-tip guidance systems with two permanently lubricated, adjustable, cam follower, monorail type roller guide bearings at both ends of all wheel channel assemblies, that align precisely with both sides of each rail, deliver state of the art mobile carriage guidance that:

(continued on page 2)

NOTE: All Spacesaver mobile storage installations with seismic criteria require calculations from a structural engineer licensed in the state where the installation will be located.

TechData

ROLLER BEARING ANTI-TIP GUIDANCE SYSTEM

DESIGN AND CAPABILITIES

CONTINUED

- ☐ Provides uniform, even wheel and carriage movement with a smooth, rolling motion.
- ☐ Allows easy, precise carriage and face panel alignment from one carriage to another, that is accurately and permanently maintained.
- ☐ Prevents any possible carriage derailment.
- ☐ Provides two precision machined and balanced, wheels per wheel channel assembly, each with two permanently lubricated and shielded ball bearing assemblies for long term wheel roundness and smoothness.

Roller bearing anti-tip guidance systems work with unit welded carriages to provide superior mobile system performance in several ways:

- ☐ Machined and balanced wheel and bearing assembly ensures balanced wheel rotation and drive transmission for smooth, parallel carriage movement.
- ☐ Unit welded carriage construction provides greater strength and rigidity.
- ☐ Exclusive carriage design with increased structural surface area maximizes system strength.

APPLICATION

Roller bearing anti-tip guidance systems are available on Spacesaver powered, mechanical assist and manual carriage systems. Roller bearing guidance systems can be used with any of the following rail systems, depending on user needs: T load rail, T load rail with concrete form, L load rail, L load rail with concrete form and other specialized rails designed to satisfy floor loading criteria. Contact factory for more details.

TECH SPEC

Guidance System:

Provide four roller type guide bearings per wheel channel assembly, two at the end of each wheel channel. Guide bearings shall be precision machined, permanently lubricated and adjustable to ensure proper alignment of the carriages. Maximum profile of recess adjacent to rail for guide bearings and anti-tip system: 1-1/8" (28 mm) wide x 3/4" (19 mm) deep.

Provide two opposing in-rail anti-tip assemblies per wheel channel that intermember with the rail system's anti-tip grooves and are fully adjustable to ensure proper alignment. (When the system height exceeds six times the carriage width, contact the factory.)

Specifications subject to change.



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RAIL SYSTEMS

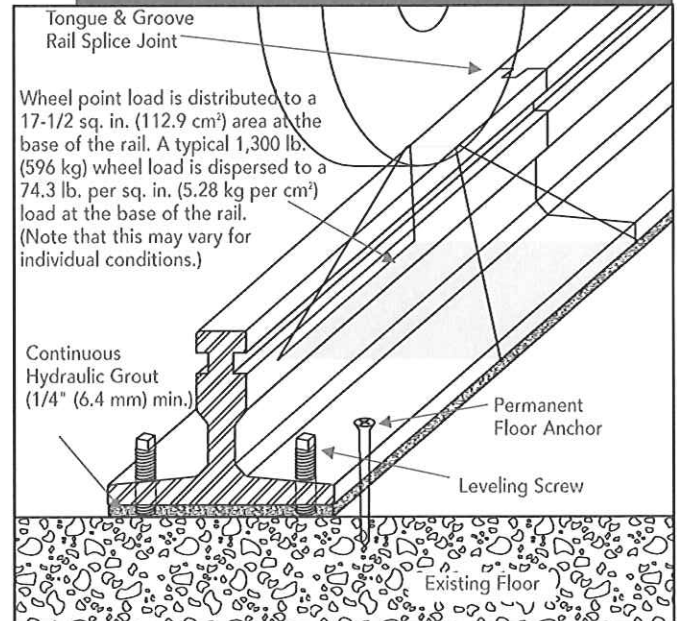
T LOAD RAIL

Spacesaver's exclusive, one-piece, T load rail of cold drawn, structural steel features in-rail anti-tip grooves, and provides uniform distribution of heavy loads and precision alignment for long term, easy carriage operation under heavy cyclic load stress.*

BENEFITS

1. One piece structural design with tongue and groove splicing provides carriage operation that is consistently smooth and reliable under even the heaviest loads.
2. Recess floor mount capabilities permit flush-with-floor rail installation without ramps, and increase the amount of vertical space that is usable for storage.
3. Extending rail assemblies under stationary platforms means carriage, storage housings and face panels will be on an even plane and provide an homogenous, level appearance.
4. Leveling screw adjustability, continuous grouting and permanent floor anchors ensure long term system dependability.
5. In-rail anti-tip grooves provide built-in system stability for anti-tip applications when carriages with roller guide bearings and anti-tip brackets are used with T load rail.
6. Flush-with-floor rail installation capabilities allows carts to roll smoothly in the system's aisles.

*Cyclic load stresses are the weight and forces placed on all parts of a mobile system as it cycles back and forth and as it rests. The force of movement combined with the weight of the stored materials transferred to the storage housing and down the storage housing's vertical members to the carriage, represents the cyclic load stress on the carriage. From the carriage, the load is transferred to the bearing/axle/wheel assembly where it becomes a point load that is then transferred to the system's rails, and finally to the grout and floor.



DESIGN AND CAPABILITIES

Designed by Spacesaver specifically for mobile storage, T load rail offers better system performance than commonly used commercial grade bar stock in several ways:

1. The structural nature and "T" profile

- Uniformly distribute the wheel point load to a 17-1/2 square inch (112.9 cm²) surface where the rail's base contacts the grout and then the floor.
- Minimize rail deflection.

2. One-piece construction

- Ensures constant dimensional tolerances for permanent precision alignment.
- Means the rail's wheel track won't delaminate from its base.
- Provides two in-rail anti-tip grooves for seismic applications and installations with a high carriage height to width ratio.

3. Tongue and groove splices between rail lengths

- Maintain proper rail alignment for smooth, easy carriage movement and even transfer of wheel point loads from one rail section to the next
- Eliminate rail separation.

TechData

T LOAD RAIL

TECH SPEC

Rail:

Rail shall be one-piece, cold drawn structural "T" section 1035 steel extrusion 2-7/16" (61.9 mm) high with a 3-1/2" (88.9 mm) base flange, a 5/8" (15.8 mm) top surface and two anti-tip grooves. Rail shall disperse the wheel point load to a minimum 17-1/2 square inch (112.9 cm²) area at the base of the rail. All rail joints to be tongue and groove. Rail shall have two leveling screws and two permanently mounted floor anchors maximum 36" (914 mm) o.c. All rail assemblies shall be fully grouted with a non-shrink hydraulic cement type grout with an 8,000 lbs. p.s.i. (562 kg/cm²) strength after curing.

Specifications subject to change.

INSTALLATION

Spliced T load rails are aligned on the floor for optimum weight distribution, and can be top mounted and finished with plywood ramp and decking, or recessed in concrete. In systems with stationary platforms, the rails extend fully under the platforms providing a level plane for platform installation.

Once positioned, rails are leveled using leveling screws for precise installation and infinite adjustability. Leveled rails are secured with permanent floor anchors for firm, solid attachment.

To minimize rail deflection and help disperse wheel point loads to maximum floor areas, rail installation is completed with non-shrink, continuous grout under the entire rail. This step ensures that all gaps and voids are filled for total rail support.

APPLICATION

T load rail is compatible with all Spacesaver powered, mechanical assist and manual carriages utilizing roller guide bearings or dual flanged drive and guidance systems, and with all non-guide wheels on carriages utilizing center flange drive and guidance systems.

NOTE: All Spacesaver mobile storage installations requiring seismic certification need calculations from a structural engineer licensed in the state where the installation will be located.



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TechData

4-POST/CASE-TYPE SHELVING

RATED UNIFORM LOAD CAPACITY

Shelf Size (w x d)	STANDARD (22 GAUGE) SHELF WITH "F" TYPE SHELF SUPPORTS†		HEAVY DUTY (18 GAUGE) SHELF WITH "H" TYPE (14 GAUGE) SHELF SUPPORTS		HEAVY DUTY (18 GAUGE) SHELF WITH "H" TYPE (11 GAUGE) SHELF SUPPORTS	
	Shelf Capacity (lbs.)	No. of Reinforcements	Shelf Capacity (lbs.)	No. of Reinforcements	Shelf Capacity (lbs.)	No. of Reinforcements
30" X 10"	200*					
30" X 12"	200*		775*			
30" X 15"	200*		775*			
30" X 18"	200*		250			
30" X 20"	200	1				
30" X 24"	200	1	300	1		
30" X 30"	200	2	410	2		
30" X 36"	200	2	500	2		
36" X 10"	250*					
36" X 12"	250*		675*		775*	
36" X 15"	250*		675*		775*	
36" X 18"	250*	1	300		320	
36" X 20"	250	1				
36" X 24"	250	1	380	1	400	1
36" X 30"	250	2	440	2	550	2
36" X 36"	250	3	650	3	700	3
42" X 10"	300*					
42" X 12"	300*		575*		675*	
42" X 15"	300*		575*		675*	
42" X 18"	300*	1	335		335	
42" X 20"	300	2				
42" X 24"	300	2	530	2	600	2
42" X 30"	300	3	440	2	460	2
42" X 36"	300	3	575	3	610	3
48" X 10"	300*					
48" X 12"	300*		475*		575*	
48" X 15"	300*		475*		575*	
48" X 18"	300*	1	300		400	
48" X 20"	300	2				
48" X 24"	300	2	500	2	640	2
48" X 30"	300	3	430	2	450	2
48" X 36"	300	3	475	3	560	3

NOTES: Spacesaver shelf capacities are based on independent tests performed in accordance with ANSI MH 28.1-1982 American National Standard specification for the design, testing, utilization, and application of industrial steel shelving. Loads are based on shelf deflection not to exceed L/140 (L = distance between uprights). (*) The rated capacities above marked with an asterisk are based on shelf support only. (†) Standard (22 gauge) shelves use "F" type shelf supports of two different gauges: 14 gauge for 30" and 36" wide shelves and 11 gauge for 42" and 48" wide shelves.

Case-Type Shelf Capacities: Although the above chart does not expressly identify Case-Type (22 Gauge) Shelf capacities, Case-Type Shelf capacities are the same as Standard (22 Gauge) 4-Post Shelf capacities. For example, Case-Type Shelf widths are 2" less than corresponding Standard 4-Post Shelf widths, therefore, the capacity of a 28 x 15 Case-Type Shelf is the same as that of a 30 x 15 Standard 4-Post Shelf in the above chart.

Overall Shelving Upright Capacities:

- Open Upright = 2,590 lbs.
- Closed Upright = 3,650 lbs.
- Case-Type Upright = 4,000 lbs.

Individual Shelf Heights:

- 3/4" high, when used with "F" Type Shelf Supports.
- 1-1/4" high, when used with "H" Type Shelf Supports.

(Upright capacities based on dynamic, mobile shelving loads on a maximum upright height of 97".)



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High - Density Mobile Storage

MECHANICAL
ASSIST SYSTEMS

Storage Solved®



Spacesaver

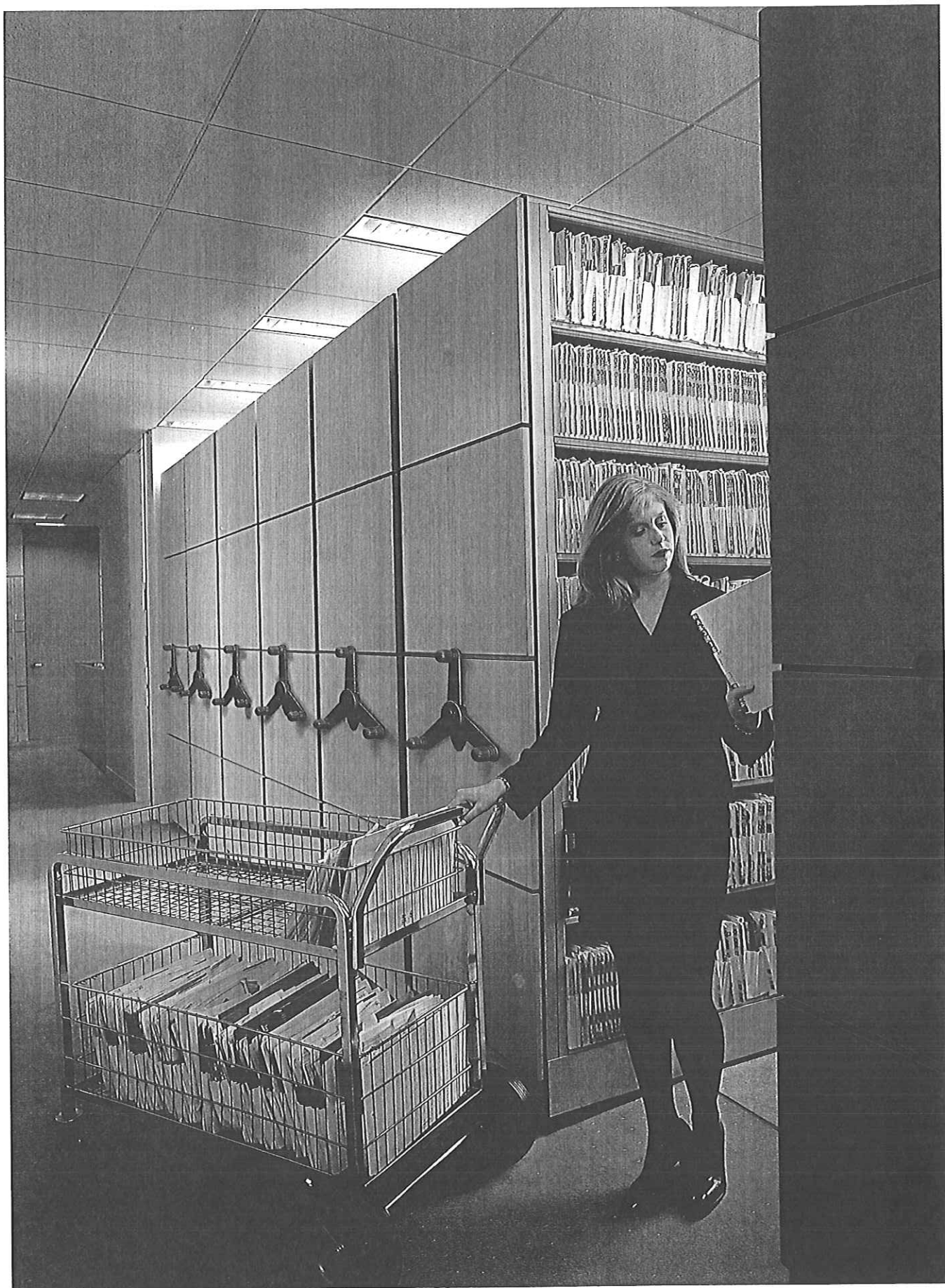
SPACESAVER MECHANICAL ASSIST SYSTEMS

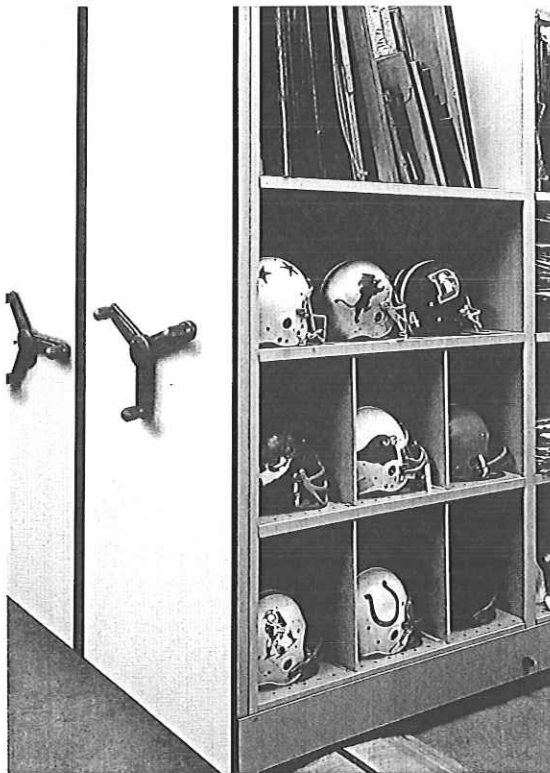
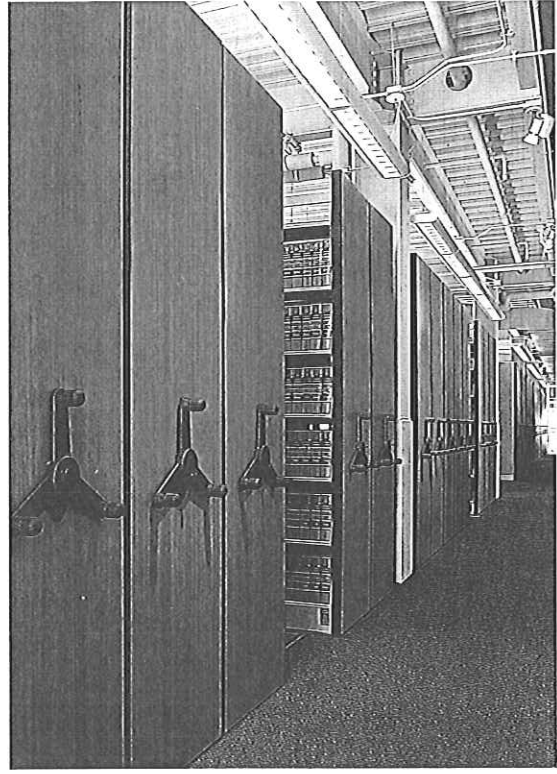
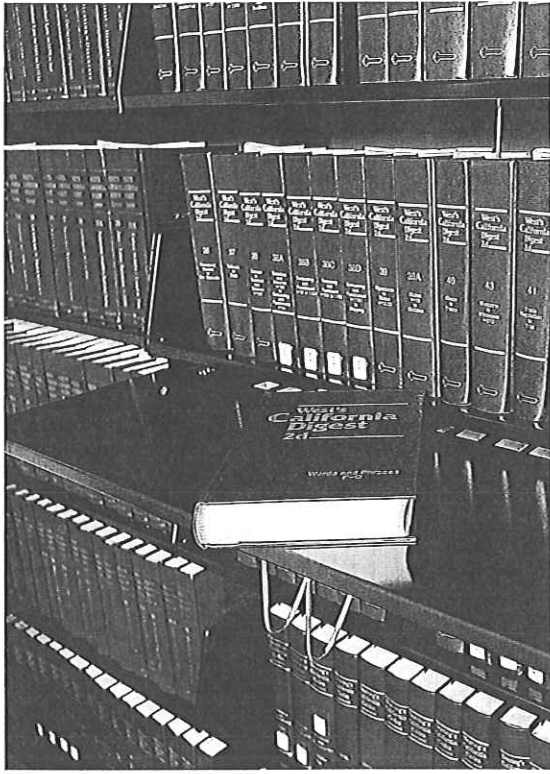
Design Features

MOBILE CARRIAGE SYSTEMS

By mounting shelving units and storage cabinets on wheeled carriages that travel on rails, Spacesaver High-Density Mobile Storage Systems eliminate the need for multiple fixed aisles, freeing floor space for other more productive uses.

- Standard Carriage Length Spacesaver Mechanical Assist carriages are available in standard lengths up to 45 feet (13.7m). Greater carriage lengths are possible, depending on system load factors.
- Load Carrying Capacity Each carriage has a minimum load carrying capacity of 1,000 lb. (1500 kg) per linear foot (meter). Your local Area Contractor can provide weight analyses and offer structural strategies to accommodate heavier system floor loads.
- Flexible Rail Layout By adjusting rail size, spacing and orientation, floor loads can be optimally distributed at practical bearing points.
- Welded-Steel Uniframe Carriage Spacesaver's welded-steel carriages ensure that all drive train components retain their alignment, eliminating binding, racking and misalignment of carriage and shelving. Their rigid, uniframe design has no exposed fasteners to loosen or break.
- Hardened Steel Wheels And Rails Carriage wheels and rails are fabricated out of hardened steel and precision-machined for maximum strength and system life.
- Optional One-Piece Structural Rail System Available one-piece rail systems have no butt joints or welds. Their tongue-and-groove design restricts lateral movement and provides greater structural rigidity.
- Fully-Grouted Rails All rails are fully supported and grouted to evenly distribute system weight. They are not installed using shims, which can cause carriage rails to flex and the system to malfunction.
- Synchronized Drive System A synchronized drive transmits power to both sides of the carriage, not just one, providing positive tracking – even with unbalanced loads. Not only are system stability and performance enhanced, wear is reduced. Line shaft drive is also available.
- Flexible Guidance Systems To reduce friction and facilitate smoother tracking, Spacesaver carriages are available with a variety of guidance systems. Your local Area Contractor will help you select the system best suited for your application.
- Matched Drive Ratios Spacesaver Mechanical Assist carriages can be equipped with a number of different drive ratios. By appropriately matching the system drive ratio to the load, operation becomes smooth and effortless. Very little force or exertion is needed to open an aisle.
- Chain Tensioner To assure the smoothest possible operation, an integrated chain tensioner can be easily adjusted to fine-tune the carriage drive. This can be accomplished in seconds as a minor service adjustment, without disassembly of the system.
- Recessed Carriage/Welded Shelving Uprights Spacesaver carriages are designed for maximum stability. Their welded steel uprights and recessed mounting of shelving and cabinets enhance the structural integrity of the system. Storage housings become an integral part of the carriage, ensuring that they won't shift position or lose their alignment.
- Anti-Tip Protection Built-in anti-tip devices are engineered to comply with the requirements of all seismic zones, providing an extra measure of system stability and safety – even in areas prone to earthquakes.





Design Features

- Low Profile Rail Design The low-profile design of Spacesaver rail systems is engineered to mount flush with the finished floor. To ensure a proper match with the rest of their environment, system decks and ramps can be covered with virtually any flooring material.
- ADA Compliant To accommodate the personal limitations of individual users, Spacesaver Mechanical Assist Systems can be readily configured to comply with all ADA accessibility requirements.

SYSTEM CONTROLS

- Soft-Touch Ergonomic Handles Comfort and ease of operation are enhanced by our ergonomically designed, soft-touch rotating handles. A variety of optional handle colors are available to match any decor.
- Safety Locks To enhance user safety, unwanted movement can be prevented by a standard safety lock control that has a bright visual indicator showing lock status. For additional safety, optional automatic locks are available which help prevent the system from being closed on an occupied aisle.
- Carriage Safety Sweep/Brake To ensure maximum protection for users and materials being stored, Spacesaver Mechanical Assist systems can be equipped with an optional carriage safety sweep/brake.
- Controlled Access Unauthorized access to any or all aisles can be prevented with optional hub locks which allow individual carriages to be key-locked in closed-aisle position as desired.
- Upgradable To Electric Operation Spacesaver Mechanical Assist Systems can be designed for easy upgrading to electrically-controlled operation. In this way, special programmable features can also be added as your needs change.

SHELVING AND CABINET OPTIONS

- Wide Choice Of Housings Almost any type of storage housing can be mounted on Spacesaver mobile carriages, including your own existing shelving and cabinets.
- Unlimited Shelving Options/Storage Accessories Beyond basic cabinetry, Spacesaver offers you a large assortment of shelving options and storage accessories designed to accommodate virtually anything you wish to store.
- Ability To Reconfigure/Expand System As your storage needs change, Spacesaver shelving and cabinets can typically be reconfigured or expanded to accommodate them.
- Heavy-Duty Shelving Construction For added strength, Spacesaver shelving and cabinets are fabricated using heavy-gauge, cold-rolled steel and extensively reinforced for increased rigidity, improving their ability to support greater shelf loads.
- Wide Array Of Design Options A wide range of colors, finishes, and end-panel materials provides you with design options limited only by your imagination.
- Durable Paint Finishes Spacesaver's powder-coat paint finishes are extremely durable, exceeding the stringent scuff, scratch and chip requirements of the American Library Association.

SPACESAVER MECHANICAL ASSIST SYSTEMS

A p p l i c a t i o n s

STORE VIRTUALLY ANYTHING, AND DO IT IN LESS FLOOR SPACE

In many applications, Spacesaver High-Density Mobile Storage Systems are three times more space-efficient than conventional filing and shelving at half the cost.

Regardless of their size, weight or shape, virtually any type and variety of materials can be stored using a Spacesaver High-Density Mobile Storage System. Not only that, they can be stored in less floor space, reducing your building lease and construction costs.



Spacesaver is the recognized leader in high-density mobile storage, with more installations than all other manufacturers combined. We have designed systems to fit almost every situation.

Spacesaver High-Density Mobile Storage Systems have been installed in offices, hospitals, banks, libraries, schools, museums, archives, factories, warehouses, laboratories, government agencies and military bases, as well as many other uniquely demanding environments.

Drawing on this vast experience, we provide each customer with a storage solution that is custom-configured to meet their specific needs. Having designed and installed more than 85,000 successful mobile systems for customers with a wide range of individual requirements, chances are we have already solved a storage problem similar to yours.

ASK US FOR A PROFESSIONAL ASSESSMENT OF YOUR STORAGE NEEDS

Spacesaver's team of experienced Area Contractors are proven problem solvers who can make an invaluable contribution to your planning process. For a qualified professional assessment of your storage needs, don't hesitate to give us a call at 1-800-492-3434. There is no cost or obligation.

THE BOTTOM-LINE QUESTION

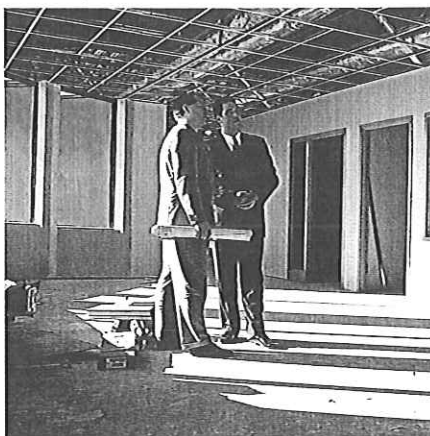
W h y S p a c e s a v e r ?

As our ISO 9001 certification would suggest, Spacesaver is dedicated to the highest standards of product quality. Equally as important is our commitment to customer service, both before the sale and after.

Through our extensive network of local Area Contractors, Spacesaver provides a level of experience and competency that others simply do not. From architectural constraints and building codes to system design and floor-loading, we have the expertise to handle every issue and customer concern.

A storage solution that meets your unique criteria. Single-source turn-key project management. Certified system installation. Ongoing maintenance and support. Spacesaver sets a standard of professionalism, performance and responsiveness that is unmatched. We live up to our customer commitments and have the references to prove it.

You can rely on The Spacesaver Group.



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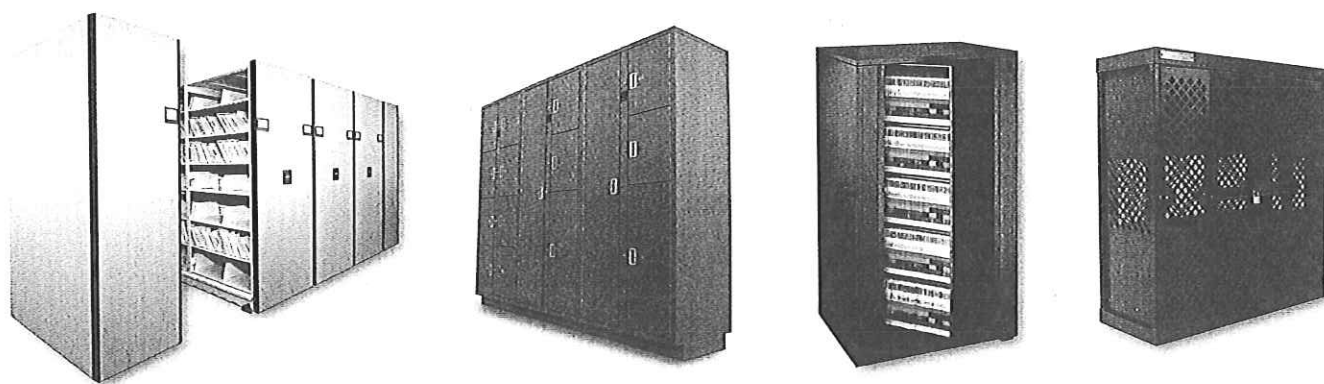
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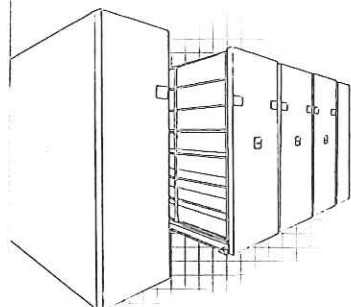


PRODUCT COLORS

SMOOTH & TEXTURED POWDER COAT PAINT FINISHES



Mobile, Shelving, Doors & Drawers
Lockers, Gun boxes & Rotary
Weapons Rack



Mobile, Shelving, Doors & Drawers Colors

TEXTURED POWDER COAT PAINT FINISHES

STANDARD COLORS

Cottonwood
CO (204)

Furniture White
FW (15)

Whisper
WP (216)

Tan
TN (1)

Warm Brown
WB (18)

Frost
FR (6)

Light Tone
LG (29)

Designer Grey
DG (2)

Blue Grey
BG (25)

Black
BL (7)

No Upcharge.

CUSTOM

Neutral Ground
NG (224)

Wet Sand
WS (223)

Creamy White
CW (205)

Chamomile
CE (203)

Moss
MZ (211)

Café Au Lait
CF (201)

Red Iron
RI (252)

Dolphin
DO (206)

Thunder
TD (33)

Nordic
ND (212)

Grey Cloud
GC (225)

Medium Tone
MT (27)

Flannel
FN (207)

5% Upcharge.

METALLIC

Starlight Silver
SX (145)

Moonbeam
MO (220)

Old Gold
OM (221)

Champagne
CM (218)

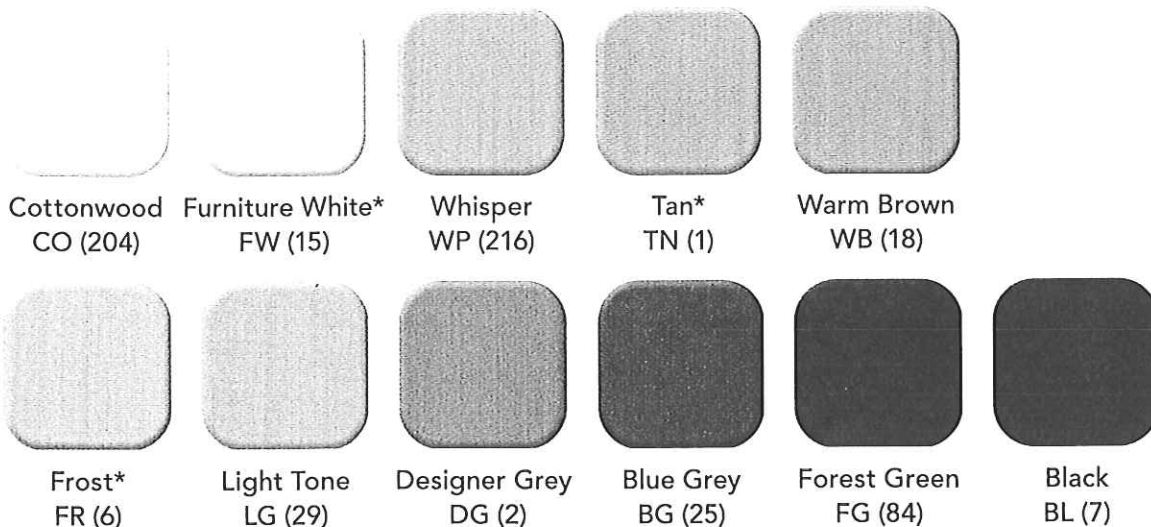
Bronze
ZM (217)

Espresso
EX (151)

10% Upcharge.

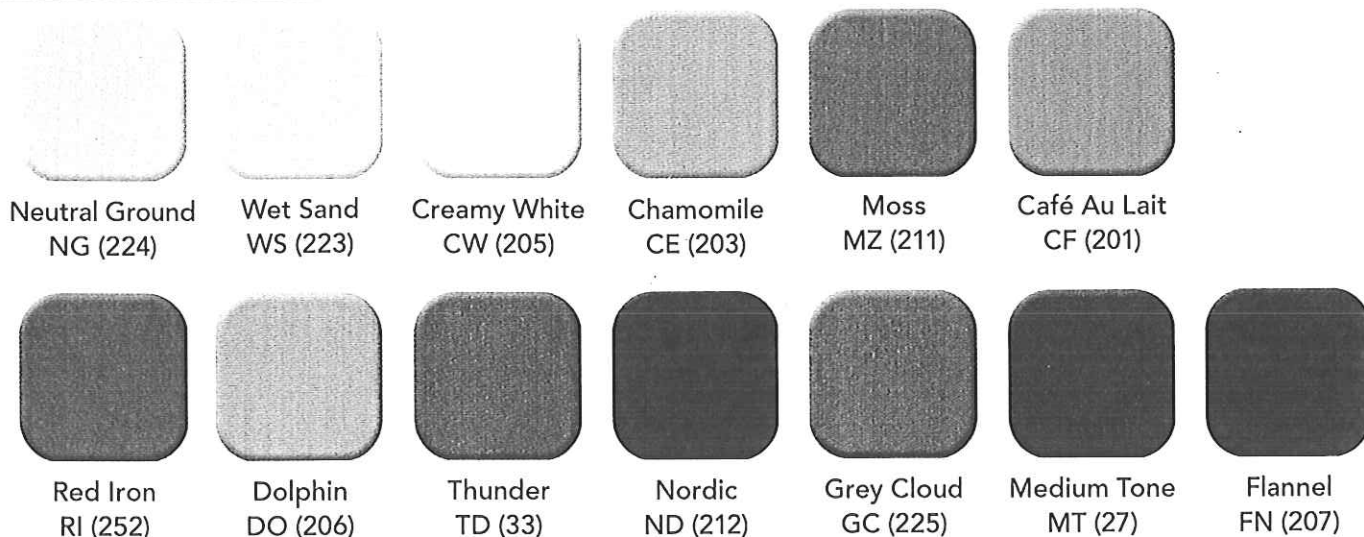
*Consult your Spacesaver Sales Representative for deviations to the colors and finishes on this chart.

SMOOTH POWDER COAT PAINT FINISHES



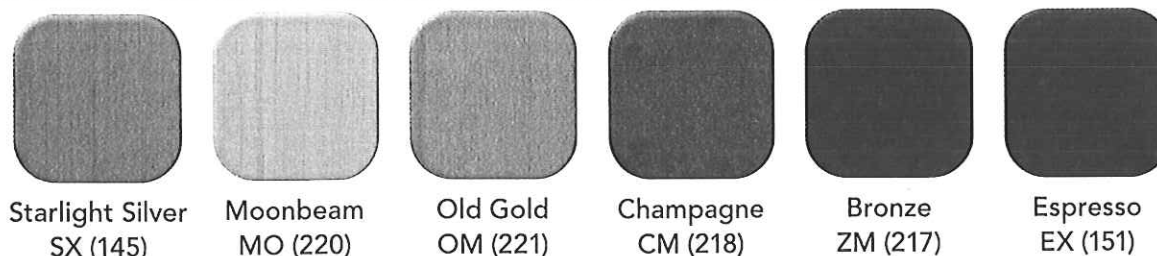
No Upcharge. *QuickShip color offerings.

CUSTOM



5% Upcharge.

METALLIC



10% Upcharge.

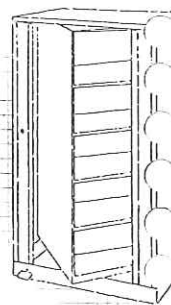
*Consult your Spacesaver Sales Representative for deviations to the colors and finishes on this chart.



Lockers, Gun boxes & Rotary Colors

TEXTURED POWDER COAT PAINT FINISHES

Includes DSM™ Law Enforcement Products



STANDARD COLORS

Cottonwood
CO (204)

Furniture White
FW (15)

Whisper
WP (216)

Tan*
TN (1)

Nevada Beige
NB (250)

Warm Brown
WB (18)

Frost*
FR (6)

Light Tone
LG (29)

Designer Grey
DG (2)

Locker Grey
GL (239)

Blue Grey
BG (25)

Forest Green
FG (84)

Black
BL (7)

No Upcharge. *Rotary QuickShip color offerings.

CUSTOM

Neutral Ground
NG (224)

Wet Sand
WS (223)

Creamy White
CW (205)

Chamomile
CE (203)

Moss
MZ (211)

Café Au Lait
CF (201)

Red Iron
RI (252)

Dolphin
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ND (212)

Grey Cloud
GC (225)

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MT (27)

Flannel
FN (207)

5% Upcharge.

METALLIC

Starlight Silver
SX (145)

Moonbeam
MO (220)

Old Gold
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Champagne
CM (218)

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EX (151)

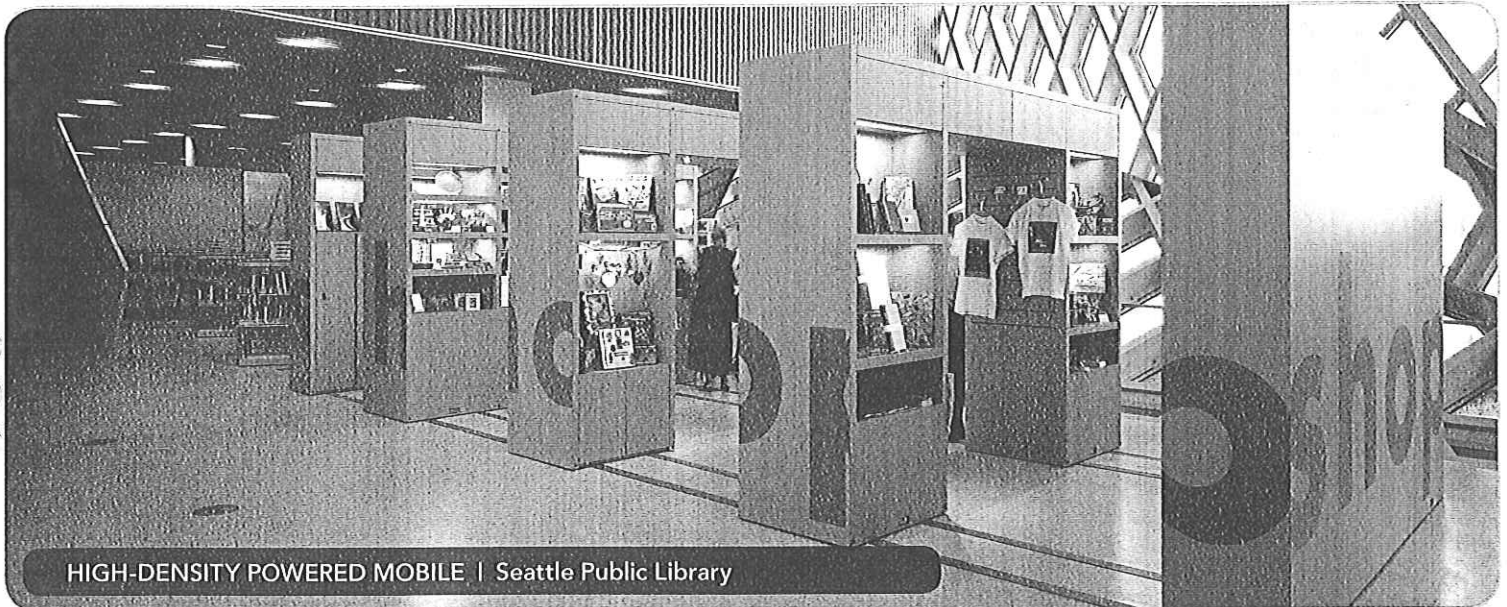
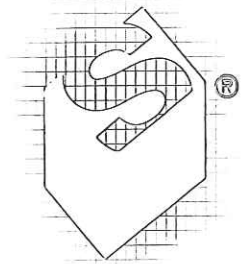
10% Upcharge.

*Consult your Spacesaver Sales Representative for deviations to the colors and finishes on this chart.

**Two-tone color available, consult your Spacesaver Sales Representative for options.

Spacesaver Applications

POWDER COAT PAINT FINISHES



HIGH-DENSITY POWERED MOBILE | Seattle Public Library



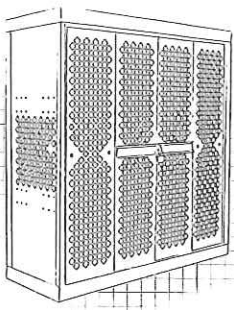
ROTARY | KI Showroom



UWR® STORAGE SYSTEM | Camp Lejeune Marine base





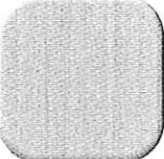
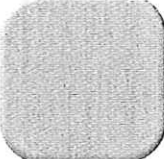
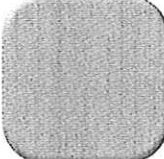
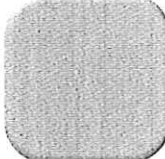
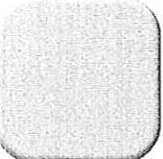
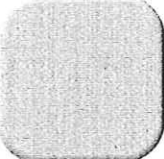
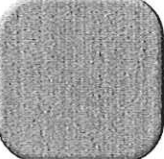
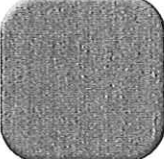
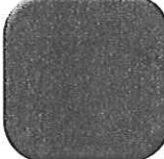


DSM™ EVIDENCE LOCKERS | Baker McKenzie Law Firm



Weapons Rack Colors




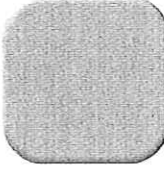
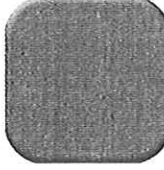
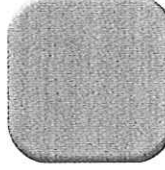
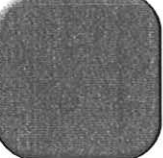
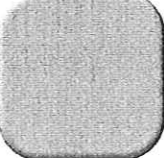
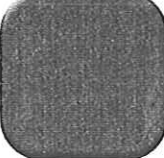




SMOOTH POWDER COAT PAINT FINISHES

STANDARD COLORS

						
Cottonwood CO (204)	Furniture White FW (15)	Whisper WP (216)	Tan TN (1)	Nevada Beige NB (250)	Warm Brown WB (18)	
						
Frost FR (6)	Light Tone LG (29)	Designer Grey DG (2)	Locker Grey GL (239)	Blue Grey BG (25)	Forest Green FG (84)	Black BL (7)
No Upcharge.						

PREMIUM COLORS

CUSTOM

						
Neutral Ground NG (224)	Wet Sand WS (223)	Creamy White CW (205)	Chamomile CE (203)	Moss MZ (211)	Café Au Lait CF (201)	
						
Red Iron RI (252)	Dolphin DO (206)	Thunder TD (33)	Nordic ND (212)	Grey Cloud GC (225)	Medium Tone MT (27)	Flannel FN (207)
5% Upcharge.						

					
Starlight Silver SX (145)	Moonbeam MO (220)	Old Gold OM (221)	Champagne CM (218)	Bronze ZM (217)	Espresso EX (151)
10% Upcharge.					

*Consult your Spacesaver Sales Representative for deviations to the colors and finishes on this chart.

A COMMITMENT TO OUR CUSTOMERS

As our ISO 9001 certification would suggest, Spacesaver is dedicated to the highest standards of product quality. Equally important is our commitment to customer service, both before the sale and after.

Through our extensive network of local Area Contractors, Spacesaver provides a level of experience and competency that others simply do not. From architectural constraints and building codes to system design and floor-loading, we have the expertise to handle every issue and customer concern.

A storage solution that meets your unique criteria. Single-source turn-key project management. Certified system installation. Ongoing maintenance and support. Spacesaver sets a standard of professionalism, performance and responsiveness that is unmatched. We live up to our customer commitments and have the references to prove it.

You can rely on The Spacesaver Group.

A COMMITMENT TO QUALITY POWDER COAT PAINT FINISHES

All components go through a multistage surface preparation prior to being coated; this process enhances topcoat bonding. The topcoat is a furniture-quality, epoxy-polyester hybrid Powder Coat Finish that meets or exceeds specifications set forth by the American Library Association.

Our electrostatically-applied, thermoset Powder Coat Paint System provides a durable hard finish with superior performance qualities.

- Excellent abrasion, impact, corrosion, stain, yellowing and chemical resistance.
- Exceptional adhesion with uniform film thickness and elimination of runs and sags associated with wet systems.
- A higher edge coating film thickness which virtually eliminates any sharp metal edges.
- Optional antimicrobial powder coat finish is available on all normally powder coated products. Antimicrobial powder coat contains a time-released germicide that is 99.9994% effective in controlling the growth of bacteria, mold, and mildew on the surface.

A COMMITMENT TO THE ENVIRONMENT

Our system is environmentally safe without any volatile or fugitive (stray) emissions in the finished product. Additionally, during the manufacturing process, we produce no volatile emissions or hazardous waste.

The swatch materials in this brochure are provided as a color guideline. There may be a variation in color, texture, finish and gloss between these samples and the actual product.

*Consult your Spacesaver Sales Representative for deviations to the colors and finishes on this chart.



Spacesaver®

Spacesaver Corporation
1450 Janesville Avenue
Fort Atkinson, WI 53538-2798
1-800-492-3434
www.spacesaver.com



KI

1330 Bellevue Street
P.O. Box 8100
Green Bay, WI 54302-8100
1-800-424-2432
www.ki.com

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Spacesaver is a registered trademark of Spacesaver Corporation.

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patterson·pope

SPACE MADE SIMPLE.

Site Inspection Certification

This document is to confirm that Patterson Pope has inspected the job site and understands fully the logistics specific to, but not limited to bringing material into the building.

Patterson Pope:

Signature: Kirk S. Martin

Print name: Kirk S. Martin

Title: Regional Sales Manager

Date: 2/2/12



Storage Solved

SUBMITTAL FOR:

**Division of Culture and History Cultural Center
DCH 12046**

SUBMITTED BY:

**Spacesaver Corporation
1450 Janesville Avenue
Fort Atkinson, WI 53538**

"INSTALLER CERTIFICATION"

Spacesaver confirms and certifies that the installation leads assigned to this project are factory trained and certified, with a minimum of 5 years experience installing systems of comparable size and complexity. Installers will comply with all specifications and requirements required for this project.

Sincerely,

A handwritten signature in cursive script, reading 'Mark Haubenschild'.

Mark Haubenschild
Vice President of Sales

February 6, 2012
Date





Storage Solved[®]

SUBMITTAL FOR:
Division of Culture and History Cultural Center

DCH 12046

SUBMITTED BY:

**Spacesaver Corporation
1450 Janesville Avenue
Fort Atkinson, WI 53538**

"Manufacturer Certification"

Spacesaver Corporation, manufacturer of the High Density Mobile Filing System, certifies compliance with the specification requirements for the mobile, shelving, art rack units and other specified equipment. This certification includes compliance with all sizes, gauges and dimensions as noted in the specifications and drawings. We also certify that Spacesaver is ISO 9001 certified, since October 1999, and have been manufacturing high density mobile and shelving systems continuously for the last 40 years.

Sincerely,

A handwritten signature in cursive script, reading 'Mark Haubenschild', written over a horizontal line.

Mark Haubenschild
Vice President of Sales

February 6, 2012
Date



STATEMENT OF WARRANTY

SPACESAVER HAS AN EMPHASIS ON CUSTOMER SATISFACTION AND CONTINUOUS IMPROVEMENT. THE STATEMENT OF WARRANTY IS OUR CONTINUED COMMITMENT THAT SPACESAVER IS DEDICATED TO SERVING OUR CUSTOMERS.

LIFETIME LIMITED WARRANTY

Subject to the conditions stated below, Spacesaver Corporation ("Spacesaver") warrants to the original purchaser exclusively that the shelving and mobile carriages ("structural frames") manufactured by it will be free from defects in materials and workmanship for the lifetime of the structural frames. For the purposes of this warranty, structural frames shall be deemed to exclude all moving parts, controls and guides that have immediate contact with any moving parts.

10-YEAR LIMITED WARRANTY

Spacesaver also warrants that all carriage drive motors*, shall be free from defects in materials and workmanship for ten (10) years from the date of the customer's written acceptance of installation. During the 10-year warranty period, all parts are included at no cost for 10 years. Labor is included at no cost during the first year of the 10-year warranty period. After the first year, all labor will be charged at the current rate.

5-YEAR LIMITED WARRANTY

Spacesaver also warrants that all equipment, other than structural frames and carriage drive motors*, shall be free from defects in materials and workmanship for five (5) years from the date of the customer's written acceptance of installation. During the 5-year warranty period, all parts are included at no cost for 5 years. Labor is included at no cost during the first year of the 5-year warranty period. After the first year all labor will be charged at the current rate.

*Standard profile unit-welded carriages only. Refer to Warranty for Mobile Rack Systems.

If any warranted equipment shall be proved to Spacesaver's satisfaction to be defective, such equipment shall be repaired or replaced at the option of Spacesaver. All warranty service for any equipment manufactured by Spacesaver must be performed by an authorized Spacesaver factory representative. This warranty shall be void if any portion of the purchase price shall be due but unpaid in accordance with the terms pursuant to which the equipment was sold. This warranty shall not apply to equipment repaired by any party other than an authorized Spacesaver factory representative or to defects or damage caused by (a) acts of God or other circumstances beyond Spacesaver's control, (b) improper installation (unless installation was by authorized factory installer), (c) improper electrical supply or environmental conditions, (d) improper operation, maintenance or storage, or (e) other than normal use or service. **EXCEPT FOR THE EXPRESS WARRANTIES SET FORTH ABOVE, SPACESAVER MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AND SPACESAVER SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

LIMITATION OF LIABILITY

Repair or replacement of any defective equipment, or refund of the purchase price paid by the customer in the event Spacesaver determines such equipment cannot be repaired or replaced, shall be the customer's exclusive remedy for breach of the warranty for product defects, however caused, and in no case shall Spacesaver be liable for incidental, consequential, special or other damages, or loss of profits or revenues whether as a result of breach of contract or warranty, Spacesaver's negligence, or otherwise. Spacesaver shall have no liability for any advice or assistance rendered by any party outside the scope of Spacesaver's written specifications for the manufacture, operation or maintenance of the warranted equipment. Original installation must be performed by Spacesaver trained and certified installers.



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STATEMENT OF WARRANTY

Mobile Rack Systems

SPACESAVER HAS AN EMPHASIS ON CUSTOMER SATISFACTION AND CONTINUOUS IMPROVEMENT. THE STATEMENT OF WARRANTY IS OUR CONTINUED COMMITMENT THAT SPACESAVER IS DEDICATED TO SERVING OUR CUSTOMERS.

LIFETIME LIMITED WARRANTY

Subject to the conditions stated below, Spacesaver Corporation ("Spacesaver") warrants to the original purchaser exclusively that the mobile carriages ("structural frames") manufactured by it will be free from defects in materials and workmanship for the lifetime of the structural frames. For the purposes of this warranty, structural frames shall be deemed to exclude all moving parts, controls and guides that have immediate contact with any moving parts.

5-YEAR LIMITED WARRANTY

Spacesaver also warrants that all equipment, other than structural frames shall be free from defects in materials and workmanship for five (5) years from the date of the customer's written acceptance of installation. During the 5-year warranty period, all parts are included at no cost for 5 years. Labor is included at no cost during the first year of the 5-year warranty period. After the first year all labor will be charged at the current rate.

If any warranted equipment shall be proved to Spacesaver's satisfaction to be defective, such equipment shall be repaired or replaced at the option of Spacesaver. All warranty service for any equipment manufactured by Spacesaver must be performed by an authorized Spacesaver factory representative. This warranty shall be void if any portion of the purchase price shall be due but unpaid in accordance with the terms pursuant to which the equipment was sold. This warranty shall not apply to equipment repaired by any party other than an authorized Spacesaver factory representative or to defects or damage caused by (a) acts of God or other circumstances beyond Spacesaver's control, (b) improper installation (unless installation was by authorized factory installer), (c) improper electrical supply or environmental conditions, (d) improper operation, maintenance or storage, or (e) other than normal use or service. **EXCEPT FOR THE EXPRESS WARRANTIES SET FORTH ABOVE, SPACESAVER MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AND SPACESAVER SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

LIMITATION OF LIABILITY

Repair or replacement of any defective equipment, or refund of the purchase price paid by the customer in the event Spacesaver determines such equipment cannot be repaired or replaced, shall be the customer's exclusive remedy for breach of the warranty for product defects, however caused, and in no case shall Spacesaver be liable for incidental, consequential, special or other damages, or loss of profits or revenues whether as a result of breach of contract or warranty, Spacesaver's negligence, or otherwise. Spacesaver shall have no liability for any advice or assistance rendered by any party outside the scope of Spacesaver's written specifications for the manufacture, operation or maintenance of the warranted equipment. Original installation must be performed by Spacesaver trained and certified installers.



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STATEMENT OF WARRANTY

Rotary Storage

SPACESAVER HAS AN EMPHASIS ON CUSTOMER SATISFACTION AND CONTINUOUS IMPROVEMENT. THE STATEMENT OF WARRANTY IS OUR CONTINUED COMMITMENT THAT SPACESAVER IS DEDICATED TO SERVING OUR CUSTOMERS.

LIFETIME WARRANTY STATEMENT

In addition to the above, Spacesaver Corporation warrants that the rotation surfaces of each Spacesaver Rotary Storage cabinet will last a Lifetime. Lifetime is defined as "for as long as you own" your cabinet. If any rotation surface is determined by Spacesaver to be defective in materials and workmanship during the warranty period then the necessary part or component will be replaced, freight included, labor being excluded.

10-YEAR WARRANTY

In addition to the above, Spacesaver Corporation warrants that all Spacesaver Rotary Storage mechanical or structural parts and components of each assembled base will be free from defects in materials and workmanship for a period of ten years following the shipment date. If any covered part or component of any assembled base is determined by Spacesaver to be defective during this time period then that part or component will be repaired or replaced without charge, including freight, labor being excluded.

5-YEAR WARRANTY

Spacesaver Corporation warrants that all Spacesaver Rotary Storage mechanical or structural parts and components will be free from defects in materials and workmanship for a period of five years following the shipment date. If any covered part or component is determined by Spacesaver to be defective during this time period then that part or component will be repaired or replaced without charge, freight and labor included.

WARRANTY PROVISIONS

Each of the above Warranty Statements applies to the original purchaser of the product provided that Spacesaver, or an authorized Spacesaver Area Contractor, is notified in writing that a problem exists and either Spacesaver or an authorized Spacesaver Area Contractor performs the repair or replacement.

Spacesaver Corporation's responsibility under this warranty is limited to the repair or replacement of said parts or components provided that they are still in the possession of the original owner and that they are operating under normal usage and are properly maintained as determined by Spacesaver. Equipment damaged by exposure to corrosive or abrasive substances, misuse, neglect, alterations, accident, abuse, damage by fire, flood or other similar causality are excluded from this and all other warranty provisions. Further, labor expenses not directly related to the repair or replacement of said parts or components are specifically excluded from this warranty.

These Warranty Statements and Warranty Provisions are the complete warranty provisions for Spacesaver Rotary Storage cabinets. These Warranty Statements and Warranty provisions are in lieu of all other warranties, expressed or implied. No course of prior dealings with Spacesaver Corporation, Authorized Area Contractors, or trade usage shall be relevant to supplement or explain any item or term.



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800-492-3434 www.spacesaver.com email: ssc@spacesaver.com

STATEMENT OF WARRANTY

Activestor®

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LIFETIME WARRANTY STATEMENT

This Spacesaver warranty is given to the initial purchaser and is valid as long as the initial purchaser owns the product. The warranty, which runs from the date of shipment, covers defects in materials and craftsmanship found during normal usage of the product during the warranty period. If the product is defective, and if written notice of the defect is given to Spacesaver within the applicable warranty period, Spacesaver, at its option, will either repair or replace the defective product with a comparable component or product. This Lifetime Warranty is applicable to all Spacesaver ActiveStor® products except as listed below.

10-YEAR WARRANTY

This Spacesaver warranty is given to the initial purchaser and is valid as long as the initial purchaser owns the product. The warranty, which runs from the date of shipment, covers defects in materials and craftsmanship found during normal usage of the product during the warranty period. If the product is defective, and if written notice of the defect is given to Spacesaver within the applicable warranty period, Spacesaver, at its option, will either repair or replace the defective product with a comparable component or product. This 10-Year Warranty is applicable to all Lateral File drawer slides.

WARRANTY PROVISIONS

Warranty does not apply to damage caused by a carrier, or alteration to the product not expressly authorized by Spacesaver. It also does not apply to "Customer's Own Goods/Material" (i.e., goods/material specified by the customer that is not standard Spacesaver product offering) used in the manufacture of, or in conjunction with, Spacesaver products. Spacesaver does not warrant the matching of color, grain, or texture except to within commercially accepted standards. A product will not be considered defective and Spacesaver will not be obligated to replace it, if that product is subject to any of Spacesaver's written planning, installation or user guides, and is not installed or used as recommended therein.



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STATEMENT OF WARRANTY

Weapon Racks, Firearm Storage, Evidence Lockers and Personnel Duty Lockers

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LIFETIME LIMITED WARRANTY

Subject to the conditions stated below, Spacesaver Corporation ("Spacesaver") warrants to the original purchaser exclusively that the cabinets ("structural frames") manufactured by it will be free from defects in materials and workmanship for the lifetime of the structural frames. For the purposes of this warranty, structural frames shall be deemed to exclude all moving parts (doors, slides, hinges, and lock mechanism), removable accessories, vinyl coating, electronics and refrigeration equipment.

5-YEAR LIMITED WARRANTY

Spacesaver also warrants that all equipment, other than structural frames, shall be free from defects in materials and workmanship for five (5) years from the date of the customer's written acceptance of installation. During the 5-year warranty period, all parts are included at no cost for 5 years. Labor is included at no cost during the first year of the 5-year warranty period. After the first year of the 5-year warranty, all labor will be charged at the current rate.

If any warranted equipment shall be proved to Spacesaver's satisfaction to be defective, such equipment shall be repaired or replaced at the option of Spacesaver. All warranty service for any equipment manufactured by Spacesaver must be performed by an authorized Spacesaver factory representative. This warranty shall be void if any portion of the purchase price shall be due but unpaid in accordance with the terms pursuant to which the equipment was sold. This warranty shall not apply to equipment repaired by any party other than an authorized Spacesaver factory representative or to defects or damage caused by (a) acts of God or other circumstances beyond Spacesaver's control, (b) improper installation (unless installation was by authorized factory installer), (c) improper environmental conditions, (d) improper operation, maintenance or storage, or (e) other than normal use or service. **EXCEPT FOR THE EXPRESS WARRANTIES SET FORTH ABOVE, SPACESAVER MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AND SPACESAVER SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

LIMITATION OF LIABILITY

Repair or replacement of any defective equipment, or refund of the purchase price paid by the customer in the event Spacesaver determines such equipment cannot be repaired or replaced, shall be the customer's exclusive remedy for breach of the warranty for product defects, however caused, and in no case shall Spacesaver be liable for incidental, consequential, special or other damages, or loss of profits or revenues whether as a result of breach of contract or warranty, Spacesaver's negligence, or otherwise. Spacesaver shall have no liability for any advice or assistance rendered by any party outside the scope of Spacesaver's written specifications for the manufacture, operation or maintenance of the warranted equipment.



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TERMS AND CONDITIONS

HOW TO ORDER

Orders may be placed by authorized Spacesaver Area Contractors, Distributors and Dealers.

E-Mail: mobile_shelving@spacesaver.com	Mail: Spacesaver Corporation
shelving@spacesaver.com	Attn: Storage Products Order Entry
quickship@spacesaver.com	1450 Janesville Ave
storage@spacesaver.com	Fort Atkinson WI 53538-2798
estore@spacesaver.com	Phone/Fax: Phone: 1-920-563-6362
	Fax: 1-920-563-0744

All orders must show quantity, catalog number, description, color, system drawings and customer purchase order number(s). Spacesaver does not assume responsibility for errors on orders not submitted in approved software format.

ACKNOWLEDGEMENT

Spacesaver will issue a written Order Acknowledgement for each order accepted. Scheduled ship dates are stated on Acknowledgements. All orders are considered correct as acknowledged. Order changes may affect promised dates! Customer should review Acknowledgement promptly and notify Spacesaver of any error.

ORDER CHANGES / CANCELLATION

Order changes/cancellations must be confirmed to Spacesaver in writing. Spacesaver will issue a new Order Acknowledgement for each change (see Acknowledgement). Lead-time may be changed by Spacesaver if necessary to accommodate order changes.

Acknowledged orders will be changed without penalty prior to their production. If canceled, a fee of \$500 net will be assessed. If production has begun, the following conditions apply:

- Custom product orders cannot be cancelled if production has begun, and
- Custom color orders cannot be cancelled if painted, and
- Customer must compensate Spacesaver for special parts or material purchased by Spacesaver to produce an order.
- If an order reaches production and product is manufactured, the product may be returned in accordance with the Spacesaver RGA policy.

SHIPMENT TERMS

All orders will be shipped F.O.B. shipping point. Method of shipment will be determined by purchaser, and sent with the freight company indicated on order with freight charged collect.

- Special carrier or special delivery arrangements can be accommodated and should be requested in writing as part of the order information.
- Special packaging costs, such as pallets, will be purchaser's responsibility. Orders requesting customer pickup will be accepted, however
- Spacesaver reserves the right to ship orders at customer expense, if customer fails to take product on the agreed date.

PAYMENT TERMS

1% - 10 days; net 30 days. A .50% finance charge will be added on the 10th of the month to all unpaid balances over 30 days. A .50% finance charge will also be added on the 25th of the month to all unpaid balances over 45 days.

TAXES

Any manufacturer's sales or excise tax, or any other tax or government charge now or hereafter levied upon the product, sale, use or shipment of goods shall, at the Company's option, be charged to the customer.

DAMAGED SHIPMENTS

Responsibility – Delivery to the carrier shall constitute delivery to the customer. Spacesaver's liability ends upon delivery of the products to the carrier. Goods are shipped at the customer's risk. The customer shall make all claims for product lost or damaged in transit.

Visible Damage – Should be noted on the freight bill and acknowledged by the driver's signature.

Concealed Damage – Notify the freight agent if concealed damage is found within 30 days of delivery. Request an inspection. An inspection is necessary for filing a claim.***ActiveStor** product damage claims must be reported within 15 days.

TERMS AND CONDITIONS

RETURN SHIPMENTS

Return goods must be authorized within 60 days of original shipment. Purchaser must have written authorization from Spacesaver **prior** to any return in the form of Return Goods Authorization form. Authorized returns must be packaged properly using original cartons and include the Return Goods Authorization (RGA) form. Returns are to be shipped with **freight prepaid by the customer; all claims for product lost or damaged in transit shall be made by the customer.** All parts listed on the RGA must be complete and returned within 60 days of issue date to receive credit. **No credit will be given for items returned that were not included on the RGA form sent from Spacesaver.**

All returns are subject to a 25% restocking charge for items listed as Quickship Shelving product. All other product return requests will be reviewed by Spacesaver and if approved, subject to a 30% restocking charge. Custom products items, including custom sizes, configurations and colors may not be returned. All returns are subject to any reconditioning charges determined necessary by Spacesaver upon inspection of the returned goods. Returns for orders which received special pricing will be reviewed individually. **For Warranty RGA information, please refer to policy posted on SpaceNET.**

PRICES

Prices in this price list supersede all previous prices and are in effect as of the date of this publication. Prices are subject to change without notice.

NOT OFFER TO SELL

Possession of the Spacesaver price list is not to be construed as an offer to sell the products listed. Spacesaver reserves the right to discontinue any item in this list without notice. Spacesaver reserves the right to change material and design specifications at any time, and without obligation to make corresponding changes in products manufactured previously.

WARRANTY / SUMMARY

Spacesaver Corporation extends to the original purchaser from the date of purchase a 5-year limited warranty against manufacturing defect in material and workmanship. Refer to appropriate Statement of Warranty for details.

If, during the warranty period, a Spacesaver product fails to perform because of a manufacturing defect, Spacesaver will examine it. If found defective, it will be repaired or replaced at our option.

The warranty applies only to Spacesaver products acquired directly from Spacesaver Corporation or from Authorized Spacesaver Area Contractors, Distributors and Dealers.

The warranty does not apply to any product which has been subject to misuse, negligence, or accident; has been damaged in shipment, storage, or installation; has been misapplied, has been modified or repaired by unauthorized persons or has been repaired with non-standard Spacesaver replacement parts. This warranty specifically excludes claims for indirect, incidental, or consequential damages arising in any way from a product defect. This warranty is exclusive, and exists in lieu of all other warranties, either expressed or implied.

This warranty gives you specific legal rights; you may also have other rights, which may vary from state to state. To obtain warranty service, contact your Spacesaver Selling Dealer. You must make a written claim. Provide a copy of your purchase record and a written description of the warranty problem with your claim. If you are unable to contact your Dealer, contact: Spacesaver Corporation, Customer Service Manager, 1450 Janesville Ave., Fort Atkinson, WI 53538. (920-563-6362) Contact Info: **Any questions or issues related to this document please contact your Customer Service Coordinator.**



Storage Solved®

CROSS SECTION MAJOR SPACESAVER MUSEUM INSTALLATIONS

1. CALIFORNIA ACADEMY OF SCIENCES

875 Howard Street
San Francisco, CA 94103

Storing: Insect Collection, Misc. Collections
Scott C. Moran – Sr. Project Manager, Special Projects
Phone: (415) 321-8142
Fax: (415) 321-8610
E-mail: smoran@calacademy.org

2. ASIAN ART MUSEUM

Chong-Moon Lee Center
200 Larkin Street
San Francisco, CA 94102

75 Carriages, Various Lengths
Installed: Complete 2002
Scope: Mechanical Assist, Delta Cases, Art Work, Artifacts, Statues, Puppets, Textiles, Metals, etc.
Contact: Sharon Steckline, Head of Registration
(415) 581-3671

3. Name: INDIANA STATE MUSEUM Address: 650 W. Washington Street Indianapolis, IN 46204

No./Length of Movables: 84 Carriages @ 7' – 32'
Installed: Complete 2001
Scope: Mechanical Assist, Delta Cases, Delta Racks. This is a state museum so they store many different types.
Contact/Phone#: Linda Badger
(317) 232-1637

4. YALE UNIVERSITY ENVIRONMENTAL SCIENCES FACILITY

Peabody Museum
New Haven, CT

122 Carriages @ 7' – 21'
Installed: 2001 / 2002
Storing: Insect Collection, Miscellaneous Collections
Scope: Mechanical Assist, Steel End Panels, Cantilever & 4-Post Shelving, Delta Cabinets, etc.
Contact: Tim White, Sr. Collections Manager
(203) 432-3767





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5. MYSTIC SEAPORT MUSEUM

75 Greenmanville Avenue
Mystic, CT

83 Carriages @ 12' – 40' (Mechanical Assist)

42 Carriages @ 10' – 20' (Art Rack)

Installed: 2001

Scope: Mechanical Assist, Dual Flange, Synchro, 4-Post Shelving, Art Racks, Delta Cabinets, Racks, Drawers, etc.

Contact: John Rutchick, Director of Facilities
(860) 572-5381

6. ALBANY INSTITUTE OF HISTORY & ART

125 Washington Avenue
Albany, NY 12210

75+ Carriages

Installed: 2000

Scope: Mechanical Assist, Synchro, 4-Post Shelving, Art Racks, Delta Cabinets, Shelving, etc.

Contact: Tammis Groft, Deputy Director of Exhibitors and Collections
(518) 463-4478

7. SMITH COLLEGE FINE ARTS

126 West Street
Northampton, MA

12 Piggyback Carriages @ 16' – 23'

Installed: Complete 2002

Scope: Paramount Museum Cabinets, Delta Rolling Tables, Small Corp Pull out Art Storage

Contact: David Dempsey, Associate Director Museum Services
(413) 585-2766

8. Name: NATIONAL ARCHIVES II (Worlds Largest Powered System)

Address: 8601 Adelphi Road
College Park, Maryland 20740-6001

No./Length of Movables: 2000+ @ 12' – 75'

Material Stored: Archive boxes, books, film, etc.

Date Installed: 1991 - 1994

System Features: Safety Sweep, Aisle Entry Sensors, 4-Post Shelving

Contact/Phone#: Pat Alexander
(202) 219-0720





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9. DEYOUNG MUSEUM
San Francisco, CA

32 - Carriages @ 9' 6" – 19' 6"

Installed: 2004

Scope: Mechanical Assist, Steel End Panels
Delta Cabinets, Flat Files, Painting Bins, Textile Rolled Storage Racks
Penco Wide Span

Contact: David Black
(415) 750-3549

10. GLENBOW MUSEUM
Calgary, Alberta, Canada

33 Carriages @ 24' – 28'

Installed: Phase 1 – 2004, Phase 2 - 2005

Scope: Mechanical Assist, Steel End Panels, 4-Post Shelving, Delta glide panel inserts

Contact: Camille Owens
(403) 268-4179

11. CANADIAN WAR MUSEUM
Ottawa, Ontario Canada

124 Carriages @ 8' – 45' 6"

Installed: 2004 / 2005

Scope: Mechanical Assist, Steel End Panels, Spacesaver 4-Post,
90 - Manual lateral aluminum art rack 16' & 18' double screen.
Delta cabinets, textile racks
Penco wide span & Pallet rack

Contact: John Corneil
(819) 776-8646

12. CHICAGO FIELD MUSEUM
Chicago, IL

278 - Carriages @ 8' – 49'

Installed: 2005 / 2006

Scope: Mechanical Assist, Steel End Panels, Tri-Boro clip type uprights & shelves
Spacesaver 4-Post, earthquake bars, trays, art panels, textile cant racks, gutters, sliding
art panels.
Delta doors, vertical storage units and wall hung textile racks
Lyon Wide span & Pallet Rack and industrial cantilever racking

Contact: Scott Demel
(312) 665-7831





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13. AMERICAN ANTIQUARIAN SOCIETY

185 Salisbury Street
Worcester, MA 01609

113 - Carriages @ 6' – 21'

Installed: 2001

Scope: Dual Flange, Mechanical Assist, B Anti-tip Rail, Case Type Shelving

Contact: Ed Harris, Director of Administration
(508) 755-5221

14. MASHANTUCKET PEQUOT MUSEUM

110 Pequot Trail
Mashantucket, Connecticut 06338

Spacesaver Mobile: 2 Floors

Spacesaver Cantilever in Library

Delta Cabinets in Museum

Complete: February 1999

Contact/Phone#: Stan Driuzynski
(860) 572-6800

15. NEW YORK BOTANICAL GARDENS

Bronx, NY

Spacesaver Mechanical Assist

✓ 6 Floors Herbarium Cabinets

✓ 1 Floor Library

Cabinet Purchased by New York Botanical

Completion: Phase 1 - 2000

Contact: Bill Fitzgerald
(718) 329-0212

16. Name: AMON CARTER MUSEUM

Address: 3501 Camp Bowie Road
Fort Worth, TX 76107

No./Length of Movables: 50 Carriages @ 9' – 18'

Installed: Complete 2000

Scope: Mechanical Assist, Delta Cabinets and Shelving

Contact/Phone#: Bob Workman
(817) 738-1933





S t o r a g e S o l v e d ®

17. J. PAUL GETTY INSTITUTE

1200 Getty Center Drive
Los Angeles, CA

Storing: Historical Materials on shelving and in cabinets

Installed: 1996

Scope: 24 systems, Delta Cabinets, etc.

Contact: Jan Barnett Radigan
(310) 440-6410

18. AKRON ART MUSEUM

One South High
Akron, OH

Storing: Paintings, artwork

Installed: 2005

Scope: Pull out art racks

Contact: Arnold Tunstall, Collections Manager
(330) 376-9186 x 228





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SPACE MADE SIMPLE.

Contractor's Reference List

RFQ# DCH12046

References

1. Virginia Museum of Natural History – 21 Starling Ave, Martinsville VA 24112. Nancy Moncrief, curator – 276-634-4141. Installation completed in the spring of 2007. Project value - \$1.2 million.
2. University of Virginia – Bayly Art Museum – Charlottesville, VA 22904. Jean Collier, curator – 434-962-3748. Multiple installations over the past 10 years. Project value is over \$200,000.
3. Mint Museum of Charlotte – 2730 Randolph Rd, Charlotte NC 28207. Martha Mayberry – 704-337-2005. Installation completed in the fall of 2009. Project value - \$350,000.
4. African American Cultural Center – 551 S. Tryon St, Charlotte NC 28202. Carolyn Mints – 704-374-1565. Installation completed in the fall of 2009. Project value - \$100,000.



Certificate of Compliance

Certification Details:

Mechanical Assist Mobile System Spacesaver

This product has been certified according to the GREENGUARD Indoor Air Quality (IAQ) Certification Program for Low Emitting Products

Certificate No: 982-17

Status: Certified

Period: 08/2011 - 07/2012

Restrictions: Excludes Wood Overlays and Veneer Options and Anchorite Grout

Reference Standard: GGPS.001 GREENGUARD IAQ Standard for Building Materials, Finishes, and Furnishings

Product Type: General Products

Criteria	Allowable Limits
TVOC ¹	≤ 0.5 mg/m ³
Formaldehyde	≤ 0.05 ppm
Total Aldehydes ²	≤ 0.1 ppm
Individual VOCs ³	≤ 0.1 TLV
Listing of measured carcinogens and reproductive toxins as identified by California Proposition 65, the U.S. National Toxicology Program (NTP), and the International Agency on Research on Cancer (IARC) must be provided.	
Any pollutant regulated as a primary or secondary outdoor air pollutant must meet a concentration that will not generate an air concentration greater than that promulgated by the National Ambient Air Quality Standard (U.S. EPA, code of Federal Regulations, Title 40, Part 50).	

See referenced standard for a complete technical explanation.

¹ Defined to be the total response of measured VOCs falling within the C₆-C₁₆ range, with responses calibrated to a toluene surrogate.

² Defined to be the total response of a target list of aldehydes (2-butenal; acetaldehyde; benzaldehyde; 2, 5-dimethylbenzaldehyde, 2-methylbenzaldehyde; 3-and/or 4-methylbenzaldehyde; butanal; 3-methylbutanal; formaldehyde; hexanal; pentanal; propanal), with each individually calibrated to a compound specific standard.

³ Any pollutant not listed must produce an air concentration level no greater than 1/10 the Threshold Limit Value (TLV) industrial work place standard (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, Cincinnati, Ohio 45211-4438).

GREENGUARD Certification affirms that products meet the criteria of the referenced standard and the requirements of the specific certification program. Certification testing is conducted according to a consistent, defined protocol. The testing does not evaluate emissions under usage conditions other than those defined in the protocol and does not address potential environmental impact other than chemical and particle emissions.

The GREENGUARD Environmental Institute (GEI) is an industry independent, third-party certification organization that qualifies products for low chemical emissions. GREENGUARD Certification programs use defined product standards, test methodologies, product sample collection and handling procedures, program application processes and on-going verification procedures. GREENGUARD standards, methods, and procedures are available at www.GREENGUARD.org.



Steve Kerr
Industrial Division Regulatory Manager

PO Box 1461
Minneapolis, MN 55440

T 612.851.7665
F 612.465.2676
skerr@valspar.com

August 13, 2009

Subject: VOC Emissions from Valspar Powder Coating Products

To Whom It May Concern:

It is the Valspar Corporation's position that powder coatings do not contain or generate appreciable concentrations of volatile organic compounds (VOC) as determined in accordance with EPA Test Method 24.

EPA Method 24 incorporates ASTM 2369 for determination of volatile content. This analytical method determines volatile content under conditions set at 110 degrees centigrade, which is below typical cure temperatures for powder coatings. With the exception of e-caprolactam blocked urethane products, typical powder coatings can be expected to have about 0.5% volatile content as determined by EPA Method 24. However, the majority of this volatile content is in the form of absorbed water released during the cure process. A very small amount of the volatile content would probably consist of traces of low molecular weight resin components.

Urethane based powder products typically generate e-caprolactam levels during the cure process, which could be in the range of 1-5%. However, e-caprolactam and most low molecular weight resin components are room temperature solids, and may not be considered VOC, as defined.

Sincerely,

A handwritten signature in dark ink, appearing to read "Steve Kerr".

Steve Kerr, CIH, CSP, CHMM
Industrial Division Regulatory Manager
The Valspar Corporation

Certificate US99/1861, continued

SGS

Spacesaver Corporation

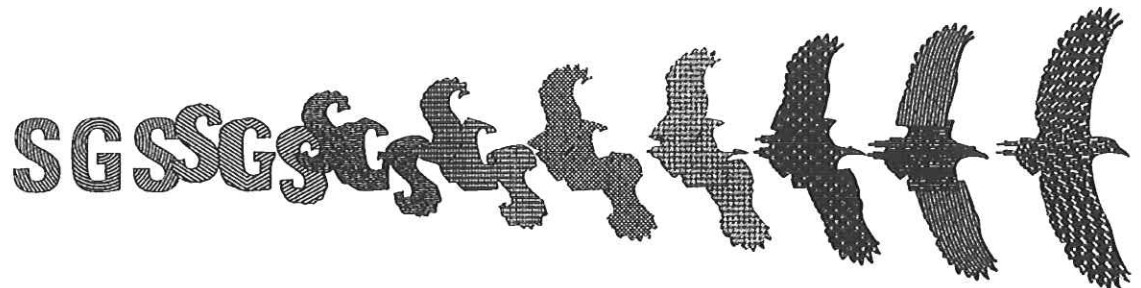
ISO 9001:2008



Issue 7 : 3 November 2011

Additional facilities:

1700 Janesville Avenue, Fort Atkinson, WI 53538, United States



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Certificate US99/1861

SGS

The management system of

Spacesaver Corporation

1450 Janesville Avenue
Fort Atkinson, WI 53538, United States

has been assessed and certified as meeting the requirements of

ISO 9001:2008



For the following activities:

The design, development, manufacture and installation of high density mobile and stationary storage systems.

Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2008 requirements may be obtained by consulting the organization

This certificate is valid from 14 November 2011 until 14 November 2014 and remains valid subject to satisfactory surveillance audits.
Recertification audit due a minimum of 60 days before the expiration date.
Issue 7 : 3 November 2011. Certified since October 1999.

This is a multi-site certification.
Additional site details are listed on subsequent pages.

Authorized by

Zachary C. Pivarnik
Director of Accreditation, North America



Systems and Services Certification, a Division of SGS North America, Inc.
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