

Part 1 General

1.1 SCOPE OF WORK

- .1 This Bid Opportunity defines minimum design standards for the following furnishings:
 - .1 Storage Cabinets
 - .2 File Tops.

1.2 REFERENCES

- .1 American Society for Testing and Materials (ASTM)
 - .1 ASTM D3363 – Standard Test Method for Film Hardness by Pencil Test.
- .2 American National Standards Institute (ANSI)/Business and International Furniture Manufacturers Association (BIFMA) International
 - .1 ANSI/BIFMA X5.3-[12], American National Standard for Office Furnishings – Vertical Files.
 - .2 ANSI/BIFMA X5.9-[10], American National Standard for Office Furnishings - Storage Units.
- .3 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-44.227-[2008], Freestanding Office Desk Products and Components.
- .4 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS).
- .5 The Master Painters Institute (MPI)
 - .1 Architectural Painting Specification Manual - current edition.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets for storage cabinets and include product characteristics, performance criteria, physical size, finish and limitations.
 - .2 Submit 2 copies of WHMIS MSDS in accordance with Section D8 Material Safety Data Sheets.
- .2 Furniture Plan:
 - .1 Submit PDF of furniture plan populated with accurate sized items being provided as part of the Contractors quotation for the Work.
 - .2 Plan must clearly identify conflicts with minimum dimensions requested on Furniture Plans F-1 and F-2 provided with Part E – Specifications of the Bid Opportunity.

1.4 CLOSEOUT SUBMITTALS

- .1 Operation and Maintenance Data: submit operation and maintenance data for furniture for incorporation into manual.
- .2 Supply part numbers of furniture to allow for replacement of worn or damaged furniture parts.
- .3 Supply instructions detailing procedures for repairing or replacing worn furniture parts.

1.5 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with manufacturer's written instructions.
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
 - .1 Store materials indoors, in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - .2 Store and protect furniture from nicks, scratches, and blemishes.
 - .3 Replace defective or damaged materials with new.

1.6 WARRANTY

- .1 Submit written assurance that replacement parts will be available for minimum of 10 years following discontinuation of product manufacture.
- .2 Ensure warranties provide for repair rather than replacement.

1.7 SPECIFIC INFORMATION FOR CONTRACTORS

- .1 Work to the building is expected to be completed prior to the delivery of furnishings to the site.
- .2 Contractors are required to site confirm dimensions of spaces scheduled to receive furnishings prior to placing order.
- .3 Storage cabinets will be installed to three distinct areas of the building inclusive of the main floor, intermittent floor and second floor.
- .4 There is no elevator in the building. Access to the upper floor areas will be via dog leg stairs with a finished width of +/- 48".
- .5 Contractors shall confirm the clear path of travel to individual rooms and areas to ensure furniture can be moved without constraint.
- .6 Contractors are required to remove all packaging once delivered and installed. Packaging is to be removed from site at completion of installation.

Part 2 Products

2.1 MATERIALS

- .1 Metal components are to be finished with low VOC emitting technology and shall meet the following performance requirements.
 - .1 The adhesion rating of the painted metal finish shall be at least 4B when tested in accordance with ASTM D 3359, Method B.
 - .2 The finishes shall not show a change in colour greater than grey scale 4 contrast by reference to AATCCP EP.
 - .3 The finish shall be scratch resistant in accordance with ASTM D3363 hardness H.
 - .4 Finish to be baked enamel over rust inhibitor phosphate pre-treatment.
- .2 Adhesives used to apply plastic laminates capable of achieving tensile strength of 552 kPa minimum when tested to ASTM C297.

2.2 STORAGE CABINETS

- .1 General
 - .1 Storage cabinets shall be uniform in quality, style, material and workmanship; clean and free from defects that may affect appearance, serviceability or safety.
 - .2 Where applicable cabinets shall be equipped with knock outs for ganging units side to side or back to back. Hardware to be included.
 - .3 Cabinets to be constructed of 18 to 22 gauge cold rolled steel.
 - .4 Edges with which the user or persons maintaining the cabinets may come in contact with shall have eased or radius corners and edges.
 - .5 Storage cabinet cases, top and bottom front corners shall be welded construction.
 - .6 Welds shall be structurally sound, free from cracks and surface voids. They shall be clean, smooth and uniform inclusive of the top and bottom in appearance and free from scale, flux, trapped foreign matter or any other inclusions that may be detrimental to the application of the primer or final finish.
 - .7 Glides – all cabinets shall be equipped with 4 glides with a minimum vertical adjustment of 0.75 inches. The glides shall be adjustable from the interior of the cabinet.
 - .8 All storage cabinet doors shall be capable of opening a minimum of 100 degrees and be equipped with welded stiffeners.
 - .9 Storage cabinet shelves shall be adjustable on increments of not more than two inches. Shelves within the same cabinet compartment shall be interchangeable and shall extend the full width and depth of the interior cabinet compartment.
 - .10 Locks – all storage cabinets are to be equipped with a locking device capable of securing all doors or drawers simultaneously. Each cabinet shall be supplied with two keys. Locks or cylinders shall be designed to

allow for easy installation or replacement by the user in the field. The locks shall have a minimum of 50 key changes.

- .11 Sound reducing bumpers shall be provided where necessary to reduce noise when opening or closing the doors / drawers.
- .12 Counter weights shall be supplied and installed with all cabinets when required through ANSI/BIFMA x5.3 and ANSI/BIFMA x5.9.
- .13 Dimensions:
 - .1 Storage Cabinets - to be available in widths of 30", 36" or 42" and depths of 18" and 24".
 - .2 Heights of storage cabinets to be as indicated below +/- 1".
 - .1 One shelf – 27 1/8"
 - .2 Two shelf – 40 1/2"
 - .3 Three shelf – 54"
 - .4 Four shelf – 65 1/4"
 - .5 Five shelf – 72"

2.3 STORAGE CABINETS

- .1 STOR – 1:
 - .1 Storage cabinet with one adjustable shelf and bottom fixed shelf, swing doors with lock. Cabinet to be ganged together and have one continuous file top mounted with Velcro to cabinet top to provide the appearance of a credenza unit.
 - .2 Dimensions:
 - .1 36" W. x 18" D x 27 1/8" H.
 - .3 Finish:
 - .1 Paint finish to be selected from manufacturer's full range of colours.
 - .4 Quantity and Tagging
 - .1 Total of 5
 - .1 1 to be installed to Main Floor Boardroom.
 - .2 2 to be installed to Procurement Office.
 - .3 2 to be installed to Asset Engineer's Office
 - .5 Acceptable Products:
 - .1 Hon
 - .1 Flagship Storage Cabinets
 - .2 Global Contract Interiors
 - .1 Delisted Storage Cabinets
 - .3 Or an approved equal in accordance with B7.
 - .4
- .2 STOR-2:
 - .1 Metal storage cabinet with 5 adjustable shelves and one fixed shelf at the bottom. Cabinet to have swing doors.

- .2 Dimensions:
 - .1 36W. x 24"D. x 72" High.
- .3 Finish:
 - .1 Paint finish to be selected from manufacturer's full range of colours.
- .4 Quantity and Tagging:
 - .1 Total of 1 installed to Foreman 1 Office.
- .5 Acceptable Products:
 - .1 Hon
 - .1 Flagship Storage Cabinets
 - .2 Global Contract Interiors
 - .1 Delisted Storage Cabinets
 - .3 Or an approved equal in accordance with B7.

2.4 STORAGE CABINET TOP

- .1 Storage cabinet top to be fabricated of 45 lb. medium density particleboard to ANSI A208.1. Finish to be .028 high density plastic laminate finish to top and four sides.
- .2 Dimensions:
 - .1 Cabinet width x 18"D. x 1 ½" H. +/- ½".
- .3 Plastic laminate finish to be selected from manufacturer graded into file line or where not applicable the finish will be selected from one of the major laminate companies considered to be Wilsonart, Formica, Pionite, Nevamar or Arborite. Finish will be a standard matte or flat finish.
- .4 Quantity and Tagging
 - .1 Total of 3 tops.
 - .1 1 - 36" width to be installed to Main Floor Boardroom
 - .2 1 - 72" width to be installed to Procurement Office.
 - .3 1 – 72" width to be installed to Asset Engineer's Office.

2.5 FABRICATION

- .1 Fabricate in accordance with ANSI BIFMA
 - .1 Fabricate furniture to allow for remanufacturing or refurbishing of furniture following first use.
 - .2 Seal exposed surfaces of particleboard constructed with urea formaldehyde adhesives to contain formaldehyde emissions.

Part 3 Execution

3.1 INSTALLATION

- .1 Contractor shall make arrangements to access the site for purpose of delivery and installation
 - .1 through contacting the City of Winnipeg Contract Administrator identified in the Bid Opportunity or
 - .2 where the Prime Contractor for the Building is still carrying out Work on site through contacting the site supervisor. Contact information will be provided if required.
- .2 Contractor shall deliver the goods to the location within the building using access doors and routes as identified by the City of Winnipeg Contract Administrator.
- .3 Contractor to review locations to receive goods at the start of the installation and identify conflicts which will disallow him / her from carrying out their Work.
- .4 Contractor shall report identified conflicts (which may include but not be limited to mechanical and electrical devices mounted on walls, insufficient wall space or aisle space that could not be determined during pre order walk through) to the City of Winnipeg Project Coordinator.
- .5 Contractor shall install goods straight and level to locations indicated on Furniture Plans F-1 and F-2 provided in Part E - Specifications of the Bid Opportunity.

END OF SECTION