NOTE TO SPECIFYING ARCHITECT REGARDING
SECTION 11074
CONTOUR CURTAIN AND MOTOR

1. This curtain provides a beautiful scalloping Austrian appearance.
2. Contour curtain rises vertically forming a valance in the stacked position.
3. Contour curtain is appropriate for restoration theatres.
4. This type of drapery makes a dramatic statement in major church installations, especially congregations with TV origination facilities.
5. Call 800-548-8982 for further information. No charge, of course.

NOTE TO SPECIFYING ARCHITECT REGARDING
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PART 1—GENERAL

1.01 SCOPE

A. Furnish and install an Austrian style stage curtain that is motorized and rises from the bottom to stack at a high elevation.

B. This section of specifications includes all labor, supervision, equipment, tools, materials and all other means of construction necessary to perform the equipment work as shown on the drawings, described in this specification, or as is necessary to complete the work in a first class manner.

C. Miscellaneous items necessary for a proper installation of the stage curtains and equipment shall be supplied and correctly installed by the Contractor. The Contractor shall be held responsible for the quality of materials and labor furnished to insure the proper installation of the specified materials.

1.02 RELATED WORK IN OTHER SECTIONS OR CONTACTS

A. Structural Steel – Section 05120

B. Finish Painting – Section 09900

C. Electrical Work - Electrical Contract

1.03 QUALITY

A. All materials hereinafter specified shall be first quality. All curtains shall be fabricated of standard width in full length. No horizontal splicing will be allowed or accepted. Horizontal dimensions of finished curtains shall be determined by reference to the scale plan drawing. Width of finished curtain sections measured horizontally at the bound tops shall be equal in horizontal dimension to the lengths of track and battens indicated in plan plus additional width as required for laps.

1.04 SUBMITTALS

A. Product Data: Submit manufacturer's technical data, product specifications, installation instructions, and other pertinent information as applicable for each product or material specified.

B. Test Reports: Submit certified laboratory test reports as necessary to show compliance with specified requirements.

C. Shop Drawings: Shop drawings shall meet requirements of applicable portions of General and Supplemental Conditions. Shop drawings shall show gages, profiles, sections of materials, details of construction, hardware, and methods of attachment and/or anchoring, all as applicable for specified materials.

PART 2—PRODUCTS

2.01 MANUFACTURER

A. All materials shall be as manufactured by Janson Industries, Canton, Ohio 44706 (800 548 8982; FAX 330-455-5919).

2.02 MATERIALS

A. Fabrics specified below are standard products of K-M Fabrics (Greenville, SC); Frankel Associates (NYC, NY); J.L. deBall (NYC, NY); or Valley Forge (Miami, FL). The following schedule indicates the fabric to be used for the various curtain items. Proposed substitutes must be similar, equal in quality, and have approval of the Architect. Fabric shall be 21-ounce napped velour.

2.03 FLAMEPROOFING

A. All fabrics shall be either inherently flame resistant or shall be flameproofed by vat immersion process in accordance with standard industry practice and the requirements of the fire codes and regulations of both state and local jurisdictions. All fabrics shall comply with the standards established in Bulletin 701, National Fire Prevention Association. Notarized certificates of flameproofing shall be furnished by this contractor attesting that the fabrics used in manufacturing comply with the regulations. The flame retardant chemical which produces a Flame Spread Rating of 10, a Smoke Density of 15 and Fuel Contributed of 0 when tested in accordance with ASTM E-84 (Tunnel Test) shall be used

2.04 CONSTRUCTION

A. The tops of all fabric items shall be bound with 3 ½ inch jute webbing secured by three complete runs of number 24 glace thread. Fullness at the top shall be added by box pleating to the jute webbing, with pleats of equal size located on each vertical seam and at equal intervals between the seams, not to exceed 12 inches. Brass grommets, number 3, shall be centered on each box pleat. Drapery shall be finished at all edges. Fullness at each seam shall be accomplished by Austrian pleating to 2 inch polypropylene webbing on 8 inch centers. Contour curtain shall be fabricated with 300 percent fullness along the seams and 30 percent fullness along the top.

B. The finished vertical dimension of the divider shall be as required to extend from supporting structural elements to the finished floor, with a tight fit to the floor. Grommets and heavy duty "S" hooks or tielines shall be inserted approximately 12 inches on centers into the bound top (3 ½ inch jute webbing) for connection to supporting structural element. Drapery shall be provided with a bottom hem and a chain pocket for inserting 3/16-inch proof coil welded chain. The bottom hem shall provide the seal to the floor. Divider shall have a finished appearance from the perspective of the audience. "D" rings will be exposed on the reverse side of the drapery and shall be installed on 8-Inch centers along the seams.

2.05 CONTOUR CURTAIN AND MOTOR

A. The drapery shall be made in single section extending to the edges of the stage. The contour drapery shall be capable of rising vertically to a storage position where it may function as a decorative valance. The operation of the drapery shall be by means of a motor operated hoisting machine with capability of stopping at any point to reverse direction. The vertical dimensions of the contour drapery shall be as required to extend from floor to roof steel

B. All miscellaneous structural elements required for the support of loft blocks, muling blocks, head blocks, machinery mounts and the like shall be furnished and erected by this contractor. The motorized equipment shall be set in place by this contractor. The control stations shall be provided by this contractor and shall be furnished free to the prime electrical contractor who will furnish and install the electrical wiring and conduit and shall make the electrical connections. Setting of limit switches and testing of all equipment shall be the responsibility of this contractor. Lifting cables shall be provided at 10-foot centers (approximately).

C. Top supporting member shall be extruded 2-inch o.d. aluminum or equivalent secured by means of bolting or clamping at intervals not to exceed 12 feet. The extrusion shall be reinforced as required to support the loft blocks. All loft blocks shall consist of and conform to the following requirements. The sheaves (4 inch diameter) shall be manufactured so that each ball bearing assembly shall be precisely

fitted into place. Side pleats to the sheaves shall provide rigid support. Loft blocks shall be attached to supporting angle by clamping or by bolting. Loft blocks shall be Janson Industries, or approved equal, modified to fit the structure. The head blocks shall be in proper alignment with the loft blocks or muling blocks to coordinate with the clew and the winch drum. Idler blocks shall be furnished as required. Blocks for reversing the direction of the loft block cables shall have special brackets as required to eliminate fouling with the traveling clew.

D. The head blocks shall be manufactured in the same manner specified above for the loft blocks except that multiple sheaves shall be used to correspond to the quantity of loft locks. Head blocks shall be designed and manufactured to positively prevent jumping of cable from the grooves. Head blocks shall be Janson Industries, or approved equal, modified to fit the structure. The head blocks shall be in proper alignment with the loft blocks and muling blocks to coordinate with the clew and winch drum.

E. Contour curtain shall be raised by means of steel cables operating through vertical rows of "D" rings located on 8 inch centers. A vertical row of rings shall be furnished corresponding to each loft block and vertical rows shall be on 10 ft. centers, approximately. Hoisting cables shall be preformed galvanized steel aircraft cable having a breaking strength not less than 1200 pounds of proper construction for the application. Each hoisting cable shall be secured to the bottom chain in a manner to assure a snag-proof, neat assembly and shall pass through "D" rings to the loft block sheave located directly above. All loft block cables shall ultimately connect to a traveling clew manufactured from 1/4 inch plate to which the hoist cable shall connect. The clew shall travel in an unobstructed movement equal to the vertical dimension of the drapery. The clew shall be provided with 2 guide cables.

F. Furnish and install Janson number 7007 or approved equal, high torque electric hoist (base mounted) built to the highest standards of quality, delivering full rated power capacities and including the following features: Curtain machine shall be fully automatic type equipped the 1 HP right angle gearmotor, with built-in magnetic brake. On the output drive shaft an elevator-type grooved cable drum shall be mounted with an outboard bearing to support and align the extended shaft. Drum shall deliver a lifting speed of25 feet per minute, approximately. Mechanism shall include magnetic contactor to provide reversing action at any point along the travel and shall include a three-button control switch mounted on the unit and another one for remote control. Control switch wiring shall be accomplished through full voltage system running from control switch on mechanism to remote control switch. Special limit switch shall be driven by the output shaft of the gear reduction unit. Machine shall be equipped with disconnect switch, overload protective breaker and emergency hand crank for conversion to hand operation. The entire mechanism shall be mounted on heavy base. Power characteristics shall conform to 208 volt three phase service.

G. The winch assembly shall be designed so that all cables are fully extended when the drapery is in the down position. When in the raised position the drapery shall be stored in a neatly stacked position where it may function as a decorative valance.

H. Furnish miscellaneous structural angles and channels required to support head blocks, loft blocks, muling blocks, and motor winch in a secure and safe manner. The motorized winch shall be located in an approved place. All welded connections shall be painted with a rust inhibitor paint. Final coat of paint shall be in color approved by owner.

PART 3—EXECUTION

3.01 INSTALLATION

A. Pipe battens shall be connected to the building structure in a secure and approved manner. Anchoring devices, miscellaneous angles and hangers required for proper installation shall be erected at the appropriate time to coordinate with the work of other trades, and completed installation shall be tested, adjusted, and left ready for use.

B. Installation shall be made in accordance with manufacturer's instructions. The electrical contractor shall provide the power and shall make the electrical connections.

C. Locate and install in accordance with specification adjusted to accord with approved shop drawings. Original installation shall be performed by the manufacturer of the contour curtain.

END OF SECTION