

**NOTE TO SPECIFYING ARCHITECT REGARDING
SECTION 11087-96
PERFORMANCE LIGHTING SYSTEM
(96 DIMMERS)**

Large complete performance lighting system (dimmers, control, distribution, and lighting fixtures).

This system is recommended for most high school auditoriums.

Reasonable budget based on extensive market and manufacturing economics.

A total of 96 dimmers for performance lighting allows considerable scope for the director for lighting design.

Phone 800-548-8982 for clarification or assistance. No charge, of course.

SECTION 11087-96
PERFORMANCE LIGHTING SYSTEM
(96 DIMMERS)

PART 1-GENERAL

- 1.01 Furnish and deliver a stage lighting control system described hereinafter. Equipment shall conform to all applicable provisions of local electrical code, National Electric Code, and NBFU current issue. The lighting control system specified as the standard is Janson-ETC digital lighting system. (Janson Industries 800 548 8982; FAX 330-455-5919)
- 1.02 Provide and install dimmers and controls as specified herein and as shown on the drawings. Contractor is to receive, mount, connect, and place all equipment in operation. Contractor will furnish all conduit, wire, connectors, and hardware, and other incidental items necessary for a complete and properly functioning lighting and dimming system.
- 1.03 Shop drawings shall be submitted for approval within 30 days after receipt of contract. No fabrication of equipment is to proceed prior to approval of these drawings. Submittal package shall contain six (6) sets of the following.
- A. Complete material list.
 - B. Sets of catalog cut sheets of standard equipment.
 - C. Sets of shop drawings detailing all mechanical and electrical equipment including riser diagrams, wire counts, internal wiring and physical dimensions of each item.
- 1.04 Prime electrical contractor shall furnish and install new dimmer panel and connect the power and the load circuits to the new dimmer panel. Furnish and install and connect all circuits that terminate in gridiron junction boxes, wall boxes, outlet boxes, etc, as well as all dimmable circuits that home-run to dimmer rack SR

PART 2-MATERIALS

- 2.01 LIGHTING CONTROL SYSTEM TO CONSIST OF:
- A. Unison Dimmer Rack-Model DR12-48-120-3-ML-N-CMEd-W-wall mounted cabinet to contain:
 - 1-SR48 Dimmer enclosure for 48 modules-designed for 3 phase 4 wire and ground operation at a maximum of 800 A, 1120/208V, 60Hz AC
 - 48-D20 Dual dimmer modules (96 dimmers)
 - 0-AFM Air Flow modules or constant breaker modules
 - 1-CME 48 Electronic modules (Microprocessors interface with DMX)
 - 1-locking door with filter
 - B. Express 24/48 Control Console-96 channels x 1,024 dimmers-to contain:
 - 24-Channel two-scene operation
 - 48-Channel one-scene operation
 - 96-Maximum channel count
 - 600-Cues
 - 500-Groups
 - 1-Set effects with 100 steps each
 - 2,000-Macros/Regions
 - 24-Submaster
 - 2-Timed/Manual fader pairs
 - 1-3 1/2" Diskette drive
 - 1-Single VGA output
 - C. ER Series Control Rack (for Unison Controls) (symbol SM on drawing)

D. WYSI Paper Software program-an application to build, edit, sort and store all lighting paperwork, instrument and patch data-software box to contain:

- 1-Software CD
- 1-USB Hardware Key (dongle)

E. Accessories

- 1-CD-25DMX Digital control cable
- 2-ECPB-DMX Console plug-in stations
- 1-Color VGA Monitor
- 1-Control console dust cover
- 1-Monitor dust cover

F. Module U 10001 Panic Station with lockable cover (2 required) House light control "on-off" (6 required)

G. Model U407111F-(2 required)-Unison Control Station with each as follows:

- 1-White faceplate assembly to include the following: (in booth and on stage)
- 1-"Master" Slider Assembly
- 6-"Zone X" Slider Assembly
- 9-"Preset X" Select Switch
- 1-"Off" Select Switch
- 1-"Manual" Select Switch
- 1-"Record" Select Switch

H. Model U2RSP-11F-(2 required)- PC Interface Station for plugging-in control console with:

- 1-White faceplate assembly to include the following:
- 1-"Computer" Unison PC Connector (symbol PIS on drawings)

2.02 DISTRIBUTION EQUIPMENT

A. Connector Strips

1 CS-40-12BPR31 Connector strip 40'-0" Long with 24-18" pigtails and 20A PIN connectors wired on 12-20A circuits plus 9 hanging brackets complete with D-JB8 Gridiron junction box 1-45 ft run of 12/30, SO multi-conductor cable, cradles and standard Kellems strain relief(circuit aabb....)

1-CS-40-8BPR31 Connector strip 40'-0" Long with 16-18" pigtails and 20A PIN connectors wired on 8-20A circuits plus 9 hanging brackets complete with D-JB5 Gridiron junction box, 1-45' run of 12/26 SO multi-conductor cable, cable cradles and standard Kellems strain relief (circuit aabb....)

1-CS40-10BPR31 Connector strip 40'-0" Long with 20-18" pigtails and 20A PIN connectors wired on 10-20A circuits plus 9 hanging brackets complete with D-JB6 Gridiron junction box, 1-45' run of 12/20 SO multi-conductor cable, cable cradles, and standard Kellems strain relief. (Circuit aabb....)

NOTE: All pipe and rigging is specified in a different section of the specifications.

B. Pigtail and Outlet Boxes

Surface mounted junction boxes at stage roof steel (3) D-JBO5-30

- (1) 12 circuit gridiron junction box

- (1) 8 circuit gridiron junction box

- (1) 10 circuit gridiron junction box

18 Pipe mounted outlet boxes each with 2-20A PIN connector complete with U-bolts for mounting. (Each box has 2 outlets; 1 circuit) These front-of-house boxes shall be wired using conduit. Connector strip is not required.

D-OB-4-B-U

4 flush outlet boxes each with connectors for use at front of stage on vertical surface under the trim or as directed by architect

2 flush outlet boxes each with 4-20A pin connectors for use at boom locations at auditorium sides. Install approx. 5 ft below the elevation defined by the top of the proscenium opening

4 flush or surface outlet boxes each with 3-20A pin connectors. Install approx. 24 in. above finished stage floor. 2 shall be located on rear wall of the stage located approx. 10-ft from the centerline of the stage opening. The other 2 shall be located on the proscenium wall approx. 6 ft from the edge of the proscenium opening.

2.03 THEATRE FIXTURES AND ACCESSORIES

A. Focusing Units

4-ETC Source Four 19 degree ellipsoidal with HPL 575 lamp, installed 2 P&G connector, c-clamp, colorframe and safety cable

4-ETC Source Four 26 degree ellipsoidal with HPL 575 lamp, installed 2 P&G connector, c-clamp, colorframe, and safety cable

4-ETC Source Four 50 degree ellipsoidal with HPL 575 lamp, installed 2 P&G connector, c-clamp, colorframe, and safety cable

24-ETC S4PAR-EA-B Source Four PAR spotlights complete with c-clamp, colorframe, safety cable, 4 lens set, 1M lead with 20A pin connector and HPL 575 lamp

12-ETC 426J-B Source Four JR ellipsoidal spotlights complete with c-clamp, colorframe, safety cable, 1 M lead with 20A pin connector and HPL 575 lamp

12-ETC 450J-B Source Four JR ellipsoidal spotlights complete with c-clamp, colorframe, safety cable, 1M lead with 20A pin connector and HPL 575 lamp

12-Altman 165Q 6" fresnels complete with c-clamp, colorframe, safety cable, 1M lead with 20A pin connector and 500W BTL lamp

10-Altman Sky cyc-01 complete with c-clamp, safety cable, 1M lead with 20A pin connector and 1500W FDB lamp

B. Follow Spotlight

1-Altman Follow Spotlight, Comet with lamp, and 25 ft of feed cable, iris, color boomerang, tripod, and dolly

2.04 MANUFACTURER'S SERVICES

A. Seven sets of B size drawings for approval submitted within 2-6 weeks of receipt of order.

B. Two-year limited warranty on parts and workmanship.

C. Services of a factory engineer to energize system and instruct user personnel. Such services shall be supplied on 21 days notice.

D. Production requires 1-6 weeks for delivery of equipment after receipt of written approval and release.

E. Four sets of Operation Manuals.

PART 3—EXECUTION

- 3.01 Furnish all of the above equipment complete with all lamps, color frames, plastic color mediums, cords, plugs, cradles, pipe clamps and all other equipment necessary for a complete installation ready for use. All equipment shall be furnished and installed completely, and shall be left ready for use. All equipment furnished and installed shall be consistent with requirements of the National Electric Code.

END OF SECTION

11087-96-4