

SECTION 11065 – STAGE LIGHTING FIXTURES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1, apply to work specified in this Section.

1.02 GENERAL REQUIREMENTS

- A. Bid proposal must include a complete bill of materials (indicating manufacturer, model and quantity), list of services, exclusions (if any) and terms of the proposal.

1.03 WORK INCLUDED

- A. Work of this section includes all labor, materials, equipment and services to furnish, deliver, unpack and install the Theater fixtures package.
- B. The Lighting Package shall be delivered, assembled, , and stored as directed by the owner.
- C. Submissions of shop drawings and cutsheets.
- D. Delivery to the job site.
- E. Unpacking, assembly, bench focusing, installation and field adjust (focusing) of all units as defined by the lighting plot.
- F. Removal of debris from site.
- G. The package shall basically be comprised of the following:
 - 1. Stage lighting fixtures.
 - 2. Stage lighting fixture accessories.
 - 3. Extension cable assemblies.
 - 4. Followspots (ADD/ALT #1)
 - 5. Moving Lights (ADD/ALT #2)
 - 6. Color Scrollers (ADD/ALT #3)
 - 7. Foggers/Hazers (ADD/ALT #4)
 - 8. Hardware.
 - 9. Lamps.

1.04 RELATED DOCUMENTS

- A. Related work specified under other sections of the specifications:
 - 1. Stage Lighting System (See Division 11)
 - 2. Electrical Systems (See Division 16 and Electrical drawings).

1.05 QUALITY ASSURANCE

- A. All equipment, materials and services shall be provided new and in their original packages.
- B. Equipment shall be as manufactured by the following:
 - 1. ETC
3030 Laura Lane
Middleton, WI 53562
(608) 831-4116

2. SSRC
2171-A River Road
Greer, SC 29650
(864) 848-9770
3. Altman Stage Lighting
57 Alexander Street
Yonkers, NY 10701
(914) 476-7987
4. Lycian Stage Lighting
Kings HWY P.O. Box D
Sugar Loaf, NY 10981
5. High End Systems Inc.
2105 Gracy Farms Lane
Austin, TX 78758
6. Apollo
4130 Fourier Drive
Fort Wayne, IN 46818
7. Selecon
500 A Bynum Road
Forrest Hill, MD 21050

1.06 REFERENCES

A. Regulatory Agencies:

1. Electronics Industries Association
2. National Electrical Code
3. National Electrical Manufacturers Association
4. National Fire Protection Association
5. Underwriter's Laboratories
6. Occupational Safety and Health Act of 1970

1.07 SUBMITTALS

- A. Provide manufacturer's data sheets and catalog cut sheets for each item specified.

1.08 DELIVERY

- A. Deliver all materials to the job site in the manufacturer's original crate or carton. Deliver products as directed by the Owner.
- B. Unpack, assemble and install fixtures per lighting plot and owner's instructions.
- C. Remove all debris and crating from the job site.

1.09 WARRANTY

- A. All products and equipment shall be provided with a one (1) year manufacturers warranty.

1.010 SUBSTITUTIONS

- A. Provide all components, equipment and materials strictly as specified herein. Substitutions of the specified manufacturers are not acceptable.

PART 2 - PRODUCTS

2.01 EQUIPMENT

- A. Each lighting fixture shall be provided with the following:
1. 2P+G, 20A, stage pin connector installed on a 36", three wire Teflon lead encased in black fiberglass tubing.
 2. (1) Lamp installed, plus 10% spares for each type. Lamps as specified per fixture.
 3. Malleable iron C-Clamp unless otherwise noted.
 4. One (1) gel color frame as required by fixture type.
 5. One (1) wire rope safety cable with spring clip.
 6. All ellipsoidal spotlights shall be provided with slot for drop-in pattern holder and iris.
- B. Provide the following units as the BASE BID FIXTURE PACKAGE (provide per unit pricing for each fixture type):
1. 60 – ETC Source 4 (26) Ellipsoidal Spotlights Model 426. Lamp HPL 575.
 2. 40 – ETC Source 4 (36) Ellipsoidal Spotlights Model 436. Lamp HPL 575.
 3. 40 – ETC Source 4 (50) Ellipsoidal Spotlights Model 450. Lamp HPL 575.
 4. 24 – ETC Source 4 PARs Model S4PAR-EA-FFR. Lamp HPL 575.
 5. 24 – Altman 75Q Fresnels. Lamp Q1000 T7/CL/MP 1000 BVT.
 6. 12 – Altman PAR64 – 1000 watt Narrow Spot. Lamp Q1000 PAR64/NSP.
 7. 12 – Altman PAR64 – 1000 watt Medium Flood. Lamp Q1000 PAR64/MFL.
 8. 12 – Altman PAR64 – 1000 watt Wide Flood. Lamp Q1000 PAR64/WFL.
 9. 10 – Aurora 4 Way Batten Cyc Light. Lamp (4) FFT 1000W. Provide with yoke, pipe clamp and color frames.
- C. Provide the following units as the BASE BID ACCESSORIES PACKAGE (provide per unit pricing for each unit type):
1. 36 – Source 4 Top Hats – ETC #400TH
 2. 20 – Source 4 Half Hat – ETC #400HH
 3. 24 – Source 4 Pattern Holders – ETC #400PHA
 4. 24 – Source 4 Donut – ETC #400DN
 5. 4 – Source 4 Drop-in Iris Kits – ETC #400RS
 6. 100 – Source 4 Gel Extender – ETC #400GE
 7. 24 – Altman 8" Fresnel 4-leaf Barndoors – Altman 8-BD-4
 8. 24 – Single side arms 12" long with sliding tee – Altman #509-12-1
 9. 8 – Altman B-50 Boom Base.
 10. 8 – Boom Pipes - 10' length of 1 1/2" SCH. 40 Pipe. Threaded on both ends with Boom Tie off on one end.
 11. 8 – Altman 4 Rung Ladder with Heavy Duty Pipe Clamp – Model 264.
- D. Provide the following units as the BASE BID CABLE ASSEMBLIES PACKAGE (provide per unit pricing for each unit type):
1. 50 - 6' long (2P+G) Type SO cable jumper cables.
 2. 50 - 12' long (2P+G) Type SO cable jumper cables.
 3. 15 - 25' long (2P+G) Type SO cable jumper cables.

4. 36 - 36" 2-20A (2P+G) females to one male twofers.
5. 48 – ETC Dimmer Doublers
- E. Provide the following units as ADD/ALTERNATE #1 (provide per unit pricing for each unit type):
 1. 2 – Lycian Super Arc 400 Followspot with base and universal tray Model 1267 – Lamp HTI 400/24.
- F. Provide the following units as ADD/ALTERNATE #2 (provide per unit pricing for each unit type):
 1. 3 – High End Systems Studio Spots MSD575 automated hard-edged fixture with (2) Mega-claw clamps, and safety cables with spring clip, and 2P&G plug – Lamp 575 watt MSD575.
 2. 3 – High End Systems Studio Colors MSD575 automated wash fixture with (2) Mega-claw clamps, and safety cables with spring clip, and 2P&G plug – Lamp 575 watt MSD575
 3. 6 – Male 5 pin XLR DMX terminator plugs.
 4. 6 – NEUTRIK 5/3 Pin and 3/5 pin XLR converter sets.
 5. 6 – 50' 5 pin XLR DMX cables.
 6. 6 – 25' 5 pin XLR DMX cables.
 7. 6 – 10' 5 pin XLR DMX cables.
- G. Provide the following units as ADD/ALTERNATE #3 (provide per unit pricing for each unit type):
 1. 36 – 7.5" Apollo Smart Color with 7.5" mounting plate, and Apollo 16 Frame Gel String.
 2. 36 – 6.25" mounting plate for Source 4 19°-50°.
 3. 3 – Smart Move DMX Gobo Rotators.
 4. 7 – 150W Smart Power power supplies with power cable and C-clamp for mounting.
 5. 7 – Female Edison to Male 2 P&G Adapters.
 6. 24 – 10' Proplex 4 pin XLR data cable.
 7. 12 – 25' Proplex 4 pin XLR data cable.
 8. 12 – 50' Proplex 4 pin XLR data cable.
 9. 3 – 25' 5 pin XLR DMX cables.
 10. 6 – 50' 5 pin XLR DMX cables.
- H. Provide the following units as ADD/ALTERNATE #4 (provide per unit pricing for each unit type):
 1. 1 – LeMaitre Stage Fogger Model CLF4500.
 2. 1 – LeMaitre Fog Fluid 4 Litre.
 3. 1 – LeMaitre Neutron XS Hazer Model CLF2411.
 4. 1 – LeMaitre Neutron Haze 4 Litre.
 5. 3 – Diversitronics ESM DMX S4 Ellipsoidal Strobe with lamp.

PART 3 - EXECUTION

3.01 ASSEMBLY

- A. Assemble all fixtures at the site. Assembly shall include unpacking, attachment of C-clamp, installation of lamp, bench focusing and on-site testing of fixture. It shall be the responsibility of this supplier to install fixtures per light plot.

END OF SECTION - 11065