

December 3, 2014

Beth Montelone
Associate Dean of Arts and Sciences
113 Eisenhower Hall
Manhattan, KS 66506
bethmont@k-state.edu

RE: **PRIORITIZED** Larger Equipment and Renovation Funds for the Theatre Program

Dean Montelone:

I would like to request funding for **essential and critical audio/visual and lighting equipment omitted from the West Stadium/Purple Masque Renovation.**

The requested amount of funding is **\$273,534** the cost of Group 1 as outlined below.

The newly renovated West Stadium Purple Masque has outstanding potential to not only replace the old space in East Stadium, but to serve as a brilliant example of current theatre technology and the University's continuing commitment to the arts and arts research. The project, however, was not given the appropriate funding to include many essential elements; as a result, the space, as currently planned, will be virtually unusable for formal productions. The primary areas of concern are the AV equipment and lighting inventory. Following are the bids and equipment broken into four groups.

Group 1 is essential equipment that exists in the current East Stadium space but is not planned to be replaced.

Group 2 represent projects that, while equally essential, they are within the scope of funding that the School of Music, Theatre, and Dance may provide.

Group 3 represents select equipment that could be omitted for the time being and installed at a later date.

Group 4 represents equipment and services that would allow the West Stadium Purple Masque to live up to its potential.

Group 1-Essential Equipment and Services- \$273,534

- A. AV package with select equipment taken out (Group 3) provided by Ford AV - **\$210,950**
 - Sound playback system (speakers, amplifiers, etc.) - \$27,667
 - Production/Backstage Communication Systems (paging mics, headsets, etc.) - \$9130
 - Production Data Network Communication System (sound and lighting Ethernet) - \$7432
 - Racks, wire, and storage components for the above systems - \$61,170
 - Installation Labor for the above components (Stark estimate by separating out Group 1A, must be confirmed by Ford AV) - \$105,551
- B. The playback system requires an updated console and accessories- **\$26,906**

It should be noted that the current East Stadium console will not function with the new AV package due to its age and technical specification.

- C. Given that this aspect of the West Stadium project was cut quite some time ago, the project will require updating the attached bid, however, after speaking with Ed Knoll, bid manager at Ford AV, he seemed to think it would not have drastically changed in a year. That said, I would like to add an additional 15% to the above systems and console to account for price fluctuations, cost-overruns, and minimal supplemental wiring infrastructure – **\$35,678**

The above equipment and services will most likely be provided by **Ford AV** (the lowest bidder on the project when it went to bid in September 2013). Additional vendors may include **Barbizon**, and **TSI**.

Group 2- Essential Equipment and Services Possibly Supported by SCH Funding- \$17,178

- A. The new layout of the lighting grid makes many lighting positions unusable without a personnel lift - **\$12,504**
- B. Likewise, lighting positions upstage and around the house require the use of ladders to access them - **\$768**
- C. With all lighting equipment, new or transferred from East Stadium, the instruments will need to have their connectors swapped out to code-compliant connectors. The connectors attached to the lighting infrastructure are included in the current West Stadium project. The labor and connectors for the new instruments are not - **\$3906**

The above equipment and services may include **Grainger, Little Giant, McMaster, Barbizon**, and **TSI**. The latter two may be used to supply accessories such as electrical connectors.

Group 3-Select Essential Equipment and Services that could be provided later- \$36,444

Select Components from AV package provided by Ford AV

- A. Audience hearing-assist system – \$4330
- B. Production Video Monitoring infrastructure - \$7257
- C. Video Monitoring Remote Control - \$3900
- D. Video Monitoring Camera and Installation wiring \$5448
- E. Installation Labor (Stark estimate, must be confirmed by Ford AV) - \$15,509

It should be noted that item A does, potentially, alienate older patrons or those of harder hearing which is less desirable.

A Note on the Labor Estimates: The labor estimates (Group 1, item A and Group 1A, item D) were based on the proportion of equipment that each included. That is, Group 1 equipment represented 87.2% of the total equipment cost, therefore I included 87.2% of the labor (non-equipment total) for Group 1. THESE LABOR FIGURES MUST BE REWORKED AND CONFIRMED BY FORD AV. THESE BREAKOUT ESTIMATES ARE ONLY PROVIDED AS A REFERENCE.

Group 4-Educationally Critical, though not Essential, Equipment and Services- \$175,000

- A. The following equipment in Group 2 incorporates the recommendations from Heather McAvoy from Landry and Bogan, theatre consultants. The instruments outlined on page 18 take full advantage of the AV networking noted in the Ford AV quote (Group 1, item A) and provide both our productions and, more importantly, our students with state of the art equipment pushing them further in their education - **\$175,000**

As outlined, Option #2 would still provide for enhanced usefulness, but the noted different fixture is not as bright as the one in Option #1.

Group 4 equipment and services will be provided by **Ford AV, Barbizon, TSI, and McMaster.**

In the course of a year, the Purple Masque is used by THTRE 270 – Introduction to Theatre, THTRE 566 – Rehearsal Techniques, THTRE 664- Creative Drama, THTRE 710-Practicum in Theatre, THTRE 765 – Practice in Directing, THTRE 770-Creative Arts Therapies, THTRE 864 – Workshop in Playwriting. The proposed funding would be used, on average 8-12 hours per week by an average of 85 students each semester. **That is about 12,750 student-use-hours per semester.**

In production work, the space is in use six days a week, five to eight hours per day, for six weeks per production. Each of our Second-Stage productions performed in the Purple Masque averaged 17 students per production. **That is equivalent to just under 4000 student-use-hours for EACH production**, of which we perform two per semester.

In total, each semester the space is at approximately 16,750 student-use-hours.

Both academic and production work prepare our students to entertain an audience of close to 1000 patrons each semester for our public performances. Truly the space is in great demand and will only continue to grow in popularity with the updated facilities; however, that may not be as successful without additional funding.

Lastly, it should be noted that the project, as quoted by Ford AV, requires approximately 16 weeks to complete: 6 weeks for drawings/planning, 6 weeks for equipment ordering/arrival, and 4 weeks for installation. This work will need to be coordinated with the general contractor and current production and academic schedule.

I sincerely hope that you will fund this proposal to aid in maintaining the University's commitment to the arts.

Sincerely,






Ben Stark
Managing and Technical Director/Associate Professor

BID QUOTATION

Project / Bid Information					
Project	KSU West Memorial Stadium Renovation				
Bid Date	09/23/13	Bid Time	2:00pm CST	Ford AV Ref#	B139939

Ford AV Contact Information					
From	Ford Audio-Video Systems, LLC	Phone	918-664-2420	Fax	918-664-0592
Contact	Ed Knoll	Email	knole@fordav.com		
	Mary Steil	Email	Mary.steil@fordav.com		

BASE BID Section Pricing		
Spec Section	Section Description	Price
N/A	None (All AV Work is Alternate)	
<u>Note:</u> Pricing does not include payment or performance bonds. <u>ADD 1%</u> for P&P bond costs, if required.		

ALTERNATE BID Section Pricing			
Alternate	Alternate Description	Add/Deduct	Price
	Section 115200 – Audio/Visual Systems (Complete)	ADD	\$241,946.00
	Primary audio console and playback	ADD	\$26,906.00
	Camera for Production Monitoring	ADD	\$5,448.00
<u>Note:</u> Pricing does not include payment or performance bonds. <u>ADD 1%</u> for P&P bond costs, if required.			

Scope of Work Summary*							
Per Plans/Specs	Yes*	Provide Cable	Yes	Install Cable	Yes	P & P Bonds	No
Sales/Use Tax	No	Minority Status	No	Prevailing Wage	No	Union Labor	No
Acknowledging Addenda		#1, #2 & 3					
*Note: Ford AV's attached <u>Bid Clarifications</u> letter detailing Ford AV's scope of work, technical clarifications, inclusions, exclusions, and conditions, is an integral attachment to this Bid Quotation (4 pages total, including this cover page).							

Ford Audio-Video Systems, LLC (Ford AV) appreciates the opportunity to provide the following Bid Clarifications for the **KSU West Memorial Stadium Renovation** project, located in **Manhattan, KS**. We offer the following Scope of Work (SOW) Inclusions, and Exclusions for your use in evaluating our understanding of the SOW required for this project. Should you have questions, please contact us as soon as possible.

Section I – Scope of Work Inclusions / Exclusions

Bid Quotation Inclusions

1. **Complete System** - All low voltage system related materials and labor to install a complete Audiovisual Systems including all engineering, submittals, design, testing, system commissioning, on-site superintendence, project management, owner training, warranty, and service as specified, per the following bid documents prepared by Gould Evans and McKay Conant Hoover.
 - a. **Specifications** - "A-011776-Rev., West Memorial Stadium Renovation", dated July 2013; Specifically Section 115200 – Audiovisual Systems.
 - b. **Drawings** - All AV series drawings, as listed on drawing #G000, dated 07/05/13.
 - c. **Addenda** - No.1 dated 08/22/13, No.2 dated 09/10/13, No.2 plus attachments dated 09/11/13 & No.3 plus attachments dated 09/17/13.

Ford AV's Bid Quotation does not include costs for work that may be described within any drawings or specifications not included within the specifications described above, and not provided with the bidding documents.

Bid Quotation Exclusions

1. **Union Installation Labor or Prevailing Wage Rates** - Should Union installation labor or prevailing wage rates become a requirement of Ford AV in order to perform the on-site low-voltage installation of the work, Ford AV reserves the right to adjust its labor pricing accordingly.
2. **Owner Furnished Equipment** - Service, repair, or warranty services for Owner Furnished Equipment (OFE). All service, repair, and warranty services for OFE will be provided on a time and materials basis, at Ford AV's normal shop and field repair rates, upon receipt of a written approved change order.
3. **AC Power/Conduit/Terminations** - 120-volt AC. power, AC. conduit, or high voltage AC. power terminations and work external to the Audiovisual Systems equipment racks. It is understood that the project electrical contractor will provide all 120 volt AC. circuits and related terminations as required.
4. **Ceiling Speaker Backcan Installation** – In areas where a conduit system is required for ceiling speakers, Ford AV will provide the ceiling speaker backcans to the Electrical Contractor (EC) for installation by the EC.
5. **Conduit/Cable Tray/Wireway** - Audiovisual Systems cabling systems conduit, wireway, J hooks, junction boxes, or other low voltage system related conduit/wireway requirements.
6. **Correcting Work by Others** - Testing, troubleshooting and installation confirmation of electrical contractor installed wire and cabling. Only on a time and materials basis will Ford AV troubleshoot, test, tone, and correct cabling installation errors caused by mislabeled, misrouted, or improperly installed cabling circuits installed by others.
7. **Architectural Infrastructure** - Architectural construction of, or modifications to, building walls, floors, or ceilings, as required to accommodate the installation of the Audiovisual Systems loudspeakers, wall panels, microphones, equipment racks, etc. All architectural rough in and final finish trim, painting, staining, grill cloth, grill cloth structures, firestopping, etc. as required for a complete Audiovisual Systems installation, to be provided by others.
8. **Custom Painting** – Audiovisual Systems Equipment will be provided with manufacturers' standard colors. Custom painting is not included.
9. **Architectural Construction** - Architectural millwork and/or cabinet work construction, installation, or modification as required for integration of Audiovisual Systems control consoles and related system

processing and distribution equipment. All millwork and cabinet work to be provided and installed by others.

10. **Cutting and Patching** - Cutting, coring, patching, removal, firestopping, or replacement.
11. **Structural Accommodations** - Cutting, structural welding, or reinforcement of structural steel members required for support of loudspeaker assemblies, display mounts, projector mounts, etc as required.
12. **Ceiling Access Panels** – Ford AV excludes the provision and installation of any ceiling access panels, if required.
13. **Permits & Fees** - Any applicable permits or fees.
14. **Bond** - Performance or payment bonds, if desired, may be purchased at the rate of \$10.00/\$1000.00.
15. **Taxes** - Sales or Use taxes of any kind. If required, Sales or use taxes will be added to the project billings.

Section II – Terms & Conditions of Sale

1. **Conditional Offer to Sell** - Ford AV's quotation is contingent upon the review and acceptance of the terms and conditions contained within your subcontract agreement. Ford AV's quotation is based upon Ford AV entering into an agreement equal to an Industry Standard AIA agreement; any other agreements will require review and acceptance by Ford AV's legal council/owners.
2. **Subcontract Scope of Work** - All scope of work items detailed within this quotation must be addressed within any subcontract agreement entered into between Ford Audio-Video Systems, LLC and your company.
3. **Withdrawal** - This quotation is valid for **30** days. Ford AV reserves the right to modify our quotation pricing if not accepted within 30 days of this quotation date.
4. **Insurance** – Ford AV's quotation includes Worker's Compensation coverage at state mandated limits, and Commercial General Liability and Automobile Liability at an aggregate total of \$10,000,000.00. Higher cover limits are available and will be provided at additional charge over and above the cost of this quotation.
5. **Warranty:**
 - A. Materials furnished by the Owner (OFE), to be included within the Scope of Work, shall be done with no warranty or guarantee by Ford AV. Use of these materials is solely for the convenience and benefit of the Owner. Ford AV will take reasonable care in handling this OFE and will install according to standard industry practices. However, Ford AV takes no responsibility for the operation, performance, appearance, or effects of the OFE before, during, or after its integration into the system. If troubleshooting, modifications or repairs are required to make OFE function as needed, Client agrees to reimburse Ford AV for all work related to the service and/or troubleshooting and integration of OFE.
 - B. The Warranty as described herein will be voided if personnel not authorized by Ford AV, either before or during the warranty period, perform repairs, modifications, or other work on the system.
6. **Schedule/Coordination** – Your firm will work with Ford AV to schedule the times of installation for this system.
7. **Temporary Provisions** - Adequate temporary elevators, temporary water, electricity, heat, air conditioning, and toilets will be available for Ford AV's use at no charge.
8. **Waste Receptacles** - Waste receptacles for removal of all job related debris will be available for Ford AV's use at no charge.
9. **Asbestos** - In the event Ford AV encounters on the job site material reasonably believed to be asbestos or polychlorinated biphenyl (PCB) which has not been rendered harmless, Ford AV shall immediately stop Work in the area affected and report the condition to the General Contractor/Construction Manager (GC/CM). The Work in the affected area shall not be resumed by Ford AV, except by written agreement of the GC/CM and Ford AV, until notification is provided which clarifies that the area has been rendered harmless. Said notification to be provided by an organization regularly involved in the removal and abatement of asbestos or polychlorinated biphenyl (PCB) materials. To the fullest extent of the law, the GC/CM shall indemnify and hold harmless Ford AV, its agents, employees and subcontractors from and

against claims, damages, losses and expenses, including but not limited to attorney's fees, arising out of or resulting from performance of the Work in the affected area if in fact the material is asbestos or PCB and has not been rendered harmless.

10. **Electronic Drawing Files** - This quotation is based upon the condition that electronic CAD files of all floor plans, reflected ceiling plans, appropriate architectural details, and system schematic system drawings are provided to Ford AV at no cost. These drawings are necessary for the purpose of generating shop drawings and/or as-built drawings. Ford AV reserves the right to modify this bid quotation should these electronic CAD files not be provided for Ford AV's use as outlined herein.
11. **Properly Installed Wireway** - Ford AV's quotation is based upon the condition that the conduit systems which the electrical contractor has installed have been properly installed, and provided with properly labeled pull strings as indicated by Ford AV approved conduit submittal drawings. Charges for troubleshooting incorrectly installed conduit or raceway systems is not included within this quotation, and will be provided on a time and materials basis upon receipt of a written change order.
12. **Project Length** - We estimate that the on-site portion of the project installation will require a minimum of 30 working days (not including weekends and holidays) once Ford AV has received confirmation that all millwork, rough-in, raceway, conduit, and electrical work for the Audiovisual Systems is complete. This time period is for on-site installation and termination work only and does not include the four to six week period typically necessary for the preparation, and approval, of engineering submittal and fabrication drawings. An additional four to six week period is needed for the acquisition of all materials, in-shop fabrication, and testing of all equipment rack and custom panel assemblies, which must be completed before the on-site system equipment installation begins. During the substantial completion phase of Ford AV's scope of the project, an additional two to three weeks is generally necessary for final system testing, customer training, and the final documentation portion of the work.
13. **Overtime** – Ford AV's quotation is prepared fully staffing and manning the project based upon a standard 40-hour workweek, in compliance with the project construction schedule discussed above. Overtime work or liquidated damages required due to the failure of other trades responsible for rough-in of our work in accordance with the project schedule and deadlines is not included in this quotation, and will be provided only upon written change order.
14. **Non-Hire** - Customer and Ford AV mutually agree that because of the high cost of employee training, that neither party shall solicit the employment of an employee of the other party, and shall not employ an employee or any person who was an employee of other party at any time during the relationship between the parties or for a period of one (1) year following the termination of any relationship between the parties. In the event of a breach of this section, the breaching party agrees to pay the other party an amount equal to the hired employee's annual wages as an agreed upon cost to replace the employee.

Please review this quotation and its conditions for completeness. We would appreciate your regarding this quotation as confidential. Should you have questions or need additional information, please feel free to call me at 918-664-2420.

Submitted by,
FORD AUDIO-VIDEO SYSTEMS, LLC



Ed Knoll, CTS
Bid Division Manager
Enclosures: None

Kansas State University West Memorial Stadium Renovation

SECTION 115200 - Audio And Visual Systems

Manufacturer	Model	Description	ID	Qty	Unit Price	Extended Price
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Section 115200 - AV Equipment - Alternate #2 - AV Systems

B139939

Auditorium

2.2 Audio Amplifiers And Signal Processors					\$ -	\$ -
A. (AMP1) Amplifier, Type 1					\$ -	\$ -
QSC	CX404	4- Channel Power Amplifier, Type 1	AMP1	1	\$ 1,104.81	\$ 1,104.81
					\$ -	\$ -
B. (AMP2) Amplifier, Type 2					\$ -	\$ -
QSC	CX-254	4- Channel Power Amplifier, Type 2	AMP2	1	\$ 1,104.81	\$ 1,104.81
					\$ -	\$ -
C. (AMP4) Amplifier, Type 4					\$ -	\$ -
QSC	CX204V	4- Channel Power Amplifier, Type 4	AMP4	1	\$ 1,104.81	\$ 1,104.81
					\$ -	\$ -
D. (DSP1) Digital Signal Processor Type-1					\$ -	\$ -
BSS	London BLU-160	(DSP1) Digital Signal Processor, Type 1	DSP1	1	\$ 2,176.95	\$ 2,176.95
BSS	BLUCARD-IN	4 Analog Input Mic/Line Card For Soundweb London Chassi		2	\$ 216.20	\$ 432.40
BSS	BLUCARD-OUT	4 Analog Output Card For Soundweb London Chassis		2	\$ 216.20	\$ 432.40
					\$ -	\$ -
E. (DSP2) Digital Signal Processor Type-2					\$ -	\$ -
BSS	London BLU-120	(DSP2) Digital Signal Processor, Type 2	DPS2	1	\$ 1,567.45	\$ 1,567.45
BSS	BLUCARD-IN	4 Analog Input Mic/Line Card For Soundweb London Chassi		2	\$ 216.20	\$ 432.40
BSS	BLUCARD-OUT	4 Analog Output Card For Soundweb London Chassis		2	\$ 216.20	\$ 432.40
					\$ -	\$ -
F. (Chime) Digital Audio Playback Unit					\$ -	\$ -
Alcom McBride	AM4/E/B	(Chime) Digital Audio Playback Unit	CHIME	1	\$ 858.19	\$ 858.19
Alcom McBride	DMM	Remote Management Software	CHIME	1	\$ 85.39	\$ 85.39
Alcom McBride	RMAM4	Rack Kit	CHIME	1	\$ 42.26	\$ 42.26
SanDisk	SDCFXP-016G-P91	16 GB ExtremePro 600x Mediadisk	CHIME	1	\$ 101.19	\$ 101.19
					\$ -	\$ -
2.3 Audio Transducers					\$ -	\$ -
A. Direct Box For Ipod Interface					\$ -	\$ -
Radial Engineering	Pro AV2	Direct Box For Ipod Interface		3	\$ 195.49	\$ 586.47
					\$ -	\$ -
B. (S1) Loudspeaker, Ceiling Recessed, 70V					\$ -	\$ -
JBL	Control 24 CT	Loudspeaker, Ceiling Recessed, 70V	S1	35	\$ 100.71	\$ 3,524.85
Fav Misc	Custom	Mounting Hardware		35	\$ 2.30	\$ 80.50
					\$ -	\$ -
C. (S2) Loudspeaker, Pendant, 70V					\$ -	\$ -
JBL	Control 65 P/T	Loudspeaker, Pendant, 70V	S2	9	\$ 162.15	\$ 1,459.35
Fav Misc	Custom	Mounting Hardware		9	\$ 11.50	\$ 103.50
					\$ -	\$ -
D. (FR1) Loudspeaker, Full Range					\$ -	\$ -
JBL	AM7212/26	Loudspeaker, Full Range	FR1, 2, 3	3	\$ 1,656.00	\$ 4,968.00
JBL	229-00009-01	Set of Three M10 x 35mm Forged Shoulder Steel		3	\$ 27.60	\$ 82.80
Fav Misc	Custom	Mounting Hardware		3	\$ 287.50	\$ 862.50
					\$ -	\$ -
E. (SUB) Subwoofer					\$ -	\$ -
JBL	ASB 6115	(SUB) Subwoofer	SUB	1	\$ 1,064.90	\$ 1,064.90
JBL	229-00009-01	Set of Three M10 x 35mm Forged Shoulder Steel		1	\$ 27.60	\$ 27.60
Fav Misc	Custom	Mounting Hardware		1	\$ 287.50	\$ 287.50
					\$ -	\$ -
F. (HAS) FM Hearing Assistance System					\$ -	\$ -
Listen Technologies	LT-800-072	Transmitter	HAS	2	\$ 515.03	\$ 1,030.06
Listen Technologies	LA-122	Antenna Kit		2	\$ 66.53	\$ 133.06
Listen Technologies	LA-326	Rack Mount Kit		2	\$ 44.85	\$ 89.70
Listen Technologies	LR-500-072	Receiver, Programmable		8	\$ 156.23	\$ 1,249.84

Kansas State University West Memorial Stadium Renovation

SECTION 115200 - Audio And Visual Systems

Manufacturer	Model	Description	ID	Qty	Unit Price	Extended Price
Listen Technologies	LA-164	Ear Speakers		8	\$ 10.47	\$ 83.76
Listen Technologies	LA-165	Stereo Headphones		8	\$ 13.44	\$ 107.52
Listen Technologies	LA-166	Neck Loop		4	\$ 41.11	\$ 164.44
Listen Technologies	LA-362	High Capacity NiMH Rechargeable Batteries		16	\$ 7.46	\$ 119.36
Listen Technologies	LA-324	8-Unit Receiver Storage/Charging Case		2	\$ 370.01	\$ 740.02
Listen Technologies	LA-325	16-Unit Receiver Storage/Charging Case		1	\$ 482.14	\$ 482.14
Listen Technologies	LA-304	ADA Compliance Kit		1	\$ 14.20	\$ 14.20
Fav Misc	Custom	Mounting Hardware		2	\$ 57.50	\$ 115.00
					\$ -	\$ -
G. Paging Microphone, Handheld, Noise Cancelling					\$ -	\$ -
Shure	577B	Paging Microphone, Handheld, Noise Cancelling		4	\$ 103.50	\$ 414.00
					\$ -	\$ -
2.4 Production Communications					\$ -	\$ -
A. (PC Main) Main Station					\$ -	\$ -
Clear-Com	MS702	Production Communications	PC Main	1	\$ 1,022.35	\$ 1,022.35
					\$ -	\$ -
B. Remote Station					\$ -	\$ -
Clear-Com	RM-702	Remote Station	PCRM	2	\$ 877.45	\$ 1,754.90
Clear-Com	PS-702	Remote Power, Station		2	\$ 688.28	\$ 1,376.56
Clear-Com	GM-18	Gooseneck Microphone		2	\$ 160.20	\$ 320.40
SKB	1SKB-R904U20	Portable Case		2	\$ 385.96	\$ 771.92
					\$ -	\$ -
C. Belt Packs					\$ -	\$ -
Clear-Com	RS-601	Belt Pack, Single Channel		4	\$ 241.50	\$ 966.00
Clear-Com	RS-602	Belt Pack, Two Channel		2	\$ 326.03	\$ 652.06
Proco	EXM-15	15 ft. XLR Cable		6	\$ 10.02	\$ 60.12
					\$ -	\$ -
D. Headsets					\$ -	\$ -
Clear-Com	CC-300	Headset		6	\$ 233.45	\$ 1,400.70
					\$ -	\$ -
E. Accessories					\$ -	\$ -
Clear-Com	FL-7	Call Flasher		1	\$ 293.83	\$ 293.83
Clear-Com	HS-6	Handset		2	\$ 115.12	\$ 230.24
Clear-Com	SP-3	Splitter		2	\$ 61.99	\$ 123.98
Clear-Com	YC-36	Combiner		2	\$ 78.09	\$ 156.18
					\$ -	\$ -
2.5 Video					\$ -	\$ -
C. (HDMI/AUD) HDMI Audio Deembedder					\$ -	\$ -
Extron	HAE-100, 60-1075-01	HDMI Audio Deembedder	HDMI/AU	2	\$ 454.25	\$ 908.50
Extron	RSF 123, 60-190-20	Rack Shelf Kit For 3.5 in. Deep Products	HDMI/AU	1	\$ 74.75	\$ 74.75
					\$ -	\$ -
D. (HDMIRX1) HDMI Over Twisted Pair Receiver					\$ -	\$ -
Extron	DTP HDMI 301 RX, 60-1212-1	HDMI Over Twisted Pair Receiver	HDMIRX	3	\$ 310.50	\$ 931.50
Extron	60-190-01	Rackmount	HDMIRX	1	\$ 74.75	\$ 74.75
					\$ -	\$ -
E. (HDMISW) HDMI Matrix Switcher					\$ -	\$ -
Extron	DXP48HDMI, 60-1010-01	HDMI Matrix Switcher	HDMISW	1	\$ 3,099.25	\$ 3,099.25
					\$ -	\$ -
F. (HDMITX1) HDMI Over Twisted Pair Transmitter					\$ -	\$ -
Extron	DTP HDMI 301 TX, 60-1212-1	HDMI Over Twisted Pair Transmitter	HDMITX1	3	\$ 310.50	\$ 931.50
					\$ -	\$ -
G. (SD/HDMI) HDSDI to HDMI Converter					\$ -	\$ -
Black Magic	BMD-CONVMBSH	Mini Converter, HDSDI To HDMI Converter	SDI/HDM	1	\$ 339.25	\$ 339.25
					\$ -	\$ -
H. (USBTX) USB Extender - Transmit					\$ -	\$ -
Extron	USBTX, 60-871-12	USB Extender - Transmit	USBTX	1	\$ 373.75	\$ 373.75
Extron	RSF 123, 60-190-20	Rack Shelf Kit For 3.5 in. Deep Products	USBTX	1	\$ 74.75	\$ 74.75

Kansas State University West Memorial Stadium Renovation

SECTION 115200 - Audio And Visual Systems

Manufacturer	Model	Description	ID	Qty	Unit Price	Extended Price
I. (USBX) USB Extender - Receive					\$ -	\$ -
Extron	USBX, 60-871-22	USB Extender - Receiver	USBX	1	\$ 373.75	\$ 373.75
Extron	RSF 123, 60-190-20	Rack Shelf Kit For 3.5 in. Deep Products	USBX	1	\$ 74.75	\$ 74.75
2.6 Remote Control System					\$ -	\$ -
F. (RC1) Remote Control System, Type 1					\$ -	\$ -
Extron	IPL-250, 60-1026-81	Remote Control System, Type 1	RC1	2	\$ 684.25	\$ 1,368.50
G. (RC2) Serial Control Expansion					\$ -	\$ -
Extron	IPL T S2, 60-544-81	Serial Control Expansion	RC2	1	\$ 419.75	\$ 419.75
H. (TP1) Touch Panel Table Top					\$ -	\$ -
Extron	TLP710TV, 60-1208-02	Touch Panel Table Top	TP1	1	\$ 2,064.25	\$ 2,064.25
Whirlwind	ENC2010	Category Cable Interface With Ethercon Connectivity, 10 ft.		1	\$ 35.68	\$ 35.68
Fav Misc	Custom	Mounting Hardware		1	\$ 11.50	\$ 11.50
2.7 A/V Data Network Distribution System					\$ -	\$ -
A. (DSWITCH) 24 Port Managed LAN Switch					\$ -	\$ -
Cisco	WS-C2960S-24PD-L	24 Port Managed LAN Switch	DSWITC	1	\$ 3,674.78	\$ 3,674.78
Cisco	1000BASE-SX SFP	SFP Module	DSWITC	1	\$ 409.65	\$ 409.65
B. (D-#) Data Patch Panel					\$ -	\$ -
Leviton	Extreme 6+ 69586-U48	QuickPort Patch	D-#, 1,2	2	\$ 393.14	\$ 786.28
Leviton		CAT6 Patch Cable, 6ft, w/Boot		50	\$ 5.04	\$ 252.00
Leviton		CAT6 Patch Cable, 7ft		48	\$ 5.73	\$ 275.04
C. (AVCPU) Control & Monitoring Computer					\$ -	\$ -
Dell	Optiplex 990	Workstation and Ancillary Components/Options	AVCPU	1	\$ 1,725.00	\$ 1,725.00
Middle Atlantic	RSR-4A	Custom CPU Rack Kit	AVCPU	1	\$ 102.48	\$ 102.48
Dell	E2213H	20 in. Min. Vesa 100 Compatible		1	\$ 206.99	\$ 206.99
2.9 Racks, Wire, Connectors, And Miscellaneous Hardware					\$ -	\$ -
A. (ER): Full Height Stationary Equipment (ER1-Control)					\$ -	\$ -
Middle Atlantic	SR-40-28	Full Height Stationary Equipment Rack	ER	1	\$ 811.45	\$ 811.45
Middle Atlantic	PD-2420SC-NS	Power Distribution		1	\$ 89.08	\$ 89.08
Middle Atlantic	FAN	FAN		2	\$ 31.48	\$ 62.96
Middle Atlantic	FC-4-1CA	Thermostatic Control		1	\$ 114.69	\$ 114.69
Middle Atlantic	EB-1	(1) RU	Blank, 1RU	10	\$ 5.25	\$ 52.50
Lowell	GBB-72	Grounding Bus Bar		1	\$ 127.12	\$ 127.12
Fav Misc	Custom	Misc. Rack Hardware	ER	1	\$ 287.50	\$ 287.50
B. (RRA,RRB): Rolling Racks In Control Booth					\$ -	\$ -
Middle Atlantic	RFR 1628BR	Rolling Racks In Control Booth	RRA	1	\$ 557.97	\$ 557.97
Middle Atlantic	RFR-CABCOOL50	Blower Kit	RRA	1	\$ 144.38	\$ 144.38
Middle Atlantic	RFR-ERRK-16	Rear Rack Rail Kit	RRA	1	\$ 23.75	\$ 23.75
Middle Atlantic	MMB-1x1-12	Monitor Mount for RRA Rack	RRA	1	\$ 223.56	\$ 223.56
Middle Atlantic	EB-1	Blank, 1RU	RRA	10	\$ 5.25	\$ 52.50
Lowell	GBB-72	Grounding Bus Bar		1	\$ 127.12	\$ 127.12
Fav Misc	Custom	Misc. Rack Hardware	RRA	1	\$ 287.50	\$ 287.50
C. (RRB): Rolling Racks In Control Booth					\$ -	\$ -
Middle Atlantic	RFR 1628BR	Rolling Racks In Control Booth	RRB	1	\$ 557.97	\$ 557.97
Middle Atlantic	RFR-CABCOOL50	Blower Kit	RRB	1	\$ 144.38	\$ 144.38
Middle Atlantic	RFR-ERRK-16	Rear Rack Rail Kit	RRB	1	\$ 23.75	\$ 23.75
Middle Atlantic	MMB-1x1-12	Monitor Mount for RRA Rack	RRB	1	\$ 223.56	\$ 223.56
Middle Atlantic	EB-1	Blank, 1RU	RRB	5	\$ 5.25	\$ 26.25
Middle Atlantic	EB-2	Blank, 2RU	RRB	5	\$ 7.05	\$ 35.25

Kansas State University West Memorial Stadium Renovation

SECTION 115200 - Audio And Visual Systems

Manufacturer	Model	Description	ID	Qty	Unit Price	Extended Price
Middle Atlantic	EB-3	Blank, 3RU	RRB	1	\$ 8.59	\$ 8.59
Middle Atlantic	D4LK	(4) RU Drawer	RRB	1	\$ 131.84	\$ 131.84
Lowell	GBB-72	Grounding Bus Bar		1	\$ 127.12	\$ 127.12
Fav Misc	Custom	Misc. Rack Hardware	RRB	1	\$ 287.50	\$ 287.50
					\$ -	\$ -
C. Console Table In Control Booth					\$ -	\$ -
Raxess	SCD-42B	Console Table In Control Booth, 30X42 Work surface		1	\$ 293.25	\$ 293.25
Fav Misc	Custom	Mounting Hardware		1	\$ 287.50	\$ 287.50
					\$ -	\$ -
D. Backbox For Video Panels (V)					\$ -	\$ -
FSR	PWB 200	Video Backbox	V	12	\$ 153.24	\$ 1,838.88
Fav Misc	Custom	RJ-45 Plate for FSR PWB 200 Video Backbox		12	\$ 28.75	\$ 345.00
					\$ -	\$ -
E. Mount, Monitor, Fixed (FPD)					\$ -	\$ -
Chief	RxF2 Series	X-Large FIT Fixed Wall Mount	FPD	1	\$ 80.63	\$ 80.63
FSR	PWB-200		FPD	1	\$ 153.24	\$ 153.24
Fav Misc	Custom	Mounting Hardware	FPD	1	\$ 11.50	\$ 11.50
					\$ -	\$ -
F. Mount, Projector, Wall Cantilever					\$ -	\$ -
Peerless	WMJ022	Single Wall Arm		1	\$ 81.65	\$ 81.65
Chief	RPMu	Universal Projector Mount		1	\$ 158.01	\$ 158.01
Fav Misc	Custom	Mounting Hardware		1	\$ 115.00	\$ 115.00
					\$ -	\$ -
I. (BAL/UBAL) Line Input Transformer +4dB Output to -10dB Input					\$ -	\$ -
Jensen	ISO-Max PC-2XR	Transformer		4	\$ 241.44	\$ 965.76
					\$ -	\$ -
K. Line Level Amplifier Interface					\$ -	\$ -
Aphex	Model 124	Line Level Amplifier Interface		4	\$ 258.75	\$ 1,035.00
					\$ -	\$ -
L. (VC) Manual Volume Control for Ceiling Speakers					\$ -	\$ -
Lowell	LVC Series	Manual Volume Control for Ceiling Speakers	VC	20	\$ 21.79	\$ 435.80
Panel	Custom	Rack Volume Control	VC	1	\$ 172.50	\$ 172.50
					\$ -	\$ -
M. Rack Power Conditioner					\$ -	\$ -
SurgeX	SX1120-RT	Rack Power Conditioner		3	\$ 573.85	\$ 1,721.55
					\$ -	\$ -
N. (A-#) Audio Patch Panel					\$ -	\$ -
Bittree	B96DC-FNSST/E3-M2OU12B	Audio Patch Panel	A-#, 1,2,3	4	\$ 1,078.13	\$ 4,312.52
Bittree	BPC3600-110	36 in. Patch Cord	A-#, 1,2,3	192	\$ 14.49	\$ 2,782.08
Bittree	PCHA	Patch Cable Hangers	A-#, 1,2,3	4	\$ 20.93	\$ 83.72
					\$ -	\$ -
O. (V-#) Video Patch Panel					\$ -	\$ -
Bittree	B64T-2MWNHD	Video Patch Panel	V-#, 1,2,	2	\$ 953.06	\$ 1,906.12
Bittree	VPCM2400-75	24 in. Patch Cable	V-#, 1,2,	64	\$ 18.52	\$ 1,185.28
Bittree	PCHV	Patch Cable Hangers	V-#, 1,2,	2	\$ 20.93	\$ 41.86
					\$ -	\$ -
R. Installed Wiring (NOTE:Non-Plenum Versions Listed, Furnish Plenum Equivalents as Required By Code)					\$ -	\$ -
West Penn	HA210	10 AWG, Low Z		14,000	\$ 0.66	\$ 9,240.00
West Penn	226	14 AWG, High Z		6,000	\$ 0.23	\$ 1,380.00
West Penn	2454	Mic/Line, Twisted Pair #22		40,000	\$ 0.09	\$ 3,600.00
West Penn	6350	Video 75 Ohm COAX		5,000	\$ 0.37	\$ 1,850.00
West Penn	819	Video 75 Ohm COAX		500	\$ 0.28	\$ 140.00
West Penn	224	DC Contol Lines, Med. Current Loads (Relays, Switch, Lamp		2,000	\$ 0.10	\$ 200.00
West Penn	4246F-BK	Shielded, Twisted Pair CAT6		11,000	\$ 0.33	\$ 3,630.00
West Penn	4246	Shielded, Twisted Pair CAT6		7,000	\$ 0.16	\$ 1,120.00
					\$ -	\$ -

Kansas State University West Memorial Stadium Renovation

SECTION 115200 - Audio And Visual Systems

Manufacturer	Model	Description	ID	Qty	Unit Price	Extended Price
In-Rack Wire					\$ -	\$ -
West Penn	2454	Mic/Line, Twisted Pair #22		7,000	\$ 0.09	\$ 630.00
West Penn	224	DC Control Lines, Med. Current Loads (Relays, Switch, Lamp		500	\$ 0.10	\$ 50.00
West Penn	4246F-BK	Shielded, Twisted Pair CAT6		1,500	\$ 0.33	\$ 495.00
West Penn	4246	Unshielded, Twisted Pair CAT6		1,500	\$ 0.16	\$ 240.00
Pre-Terminated Cable					\$ -	\$ -
Extron	HDMI Pro/25, 26-650-25	HDMI, 25 ft.		10	\$ 109.25	\$ 1,092.50
Extron	HDMI DVI-D/25	DVI-HDMI, 25 ft.		4	\$ 69.00	\$ 276.00
Whirlwind		NL4 to NL2 "Y" Cable, 10 ft.		4	\$ 40.25	\$ 161.00
					\$ -	\$ -
S. Portable Cables					\$ -	\$ -
Whirlwind	NL4-003	Loudspeaker Extension and Patch Cable, 3 ft.		8	\$ 22.36	\$ 178.88
Whirlwind	NL4-025	Loudspeaker Extension and Patch Cable, 25 ft.		6	\$ 56.86	\$ 341.16
Whirlwind	NL4-050	Loudspeaker Extension and Patch Cable, 50 ft.		4	\$ 94.04	\$ 376.16
Whirlwind	SK225G12	Loudspeaker adapter, NL4 to 1/4 in., 12 AWG, 25 ft.		4	\$ 39.97	\$ 159.88
Whirlwind	NLMMX	In-Line NL4 to NL4 Extension Adapters		4	\$ 4.60	\$ 18.40
Proco	EXM-15	12 ft. XLR Mic Cable		8	\$ 10.02	\$ 80.16
Proco	EXM-25	25 ft. XLR Mic Cable		8	\$ 11.05	\$ 88.40
Proco	EXM-50	50 ft. XLR Mic Cable		8	\$ 15.96	\$ 127.68
Whirlwind	BNCRG6HD-12	Digital Video Extension Cable, RG6/U w/ BNC Connectors, 1		4	\$ 27.54	\$ 110.16
Whirlwind	BNCRG6HD-20	Digital Video Extension Cable, RG6/U w/ BNC Connectors, 2		4	\$ 47.73	\$ 190.92
Whirlwind	BNCRG6HD-50	Digital Video Extension Cable, RG6/U w/ BNC Connectors, 5		4	\$ 85.25	\$ 341.00
Blue Jeans Cable	Belden Series-1	HDMI Extension Cable, 12 ft.		4	\$ 292.39	\$ 1,169.56
Blue Jeans Cable	Belden Series-1	HDMI Extension Cable, 25 ft.		4	\$ 362.25	\$ 1,449.00
					\$ -	\$ -
W. UPS Uninterruptible Power Supply (Control Room)					\$ -	\$ -
SurgeX	SU-2000-Li	Uninterruptible Power Supply	Control R	3	\$ 1,838.85	\$ 5,516.55
					\$ -	\$ -
Middle Atlantic	WL-60	Work Light		3	\$ 41.60	\$ 124.80
					\$ -	\$ -
					\$ -	\$ -
Other					\$ -	\$ -
Panel	CUSTOM	Loudspeaker Patch Panel, (8) NL2	Utility	1	\$ 172.50	\$ 172.50
Panel	CUSTOM	Loudspeaker Patch Panel, (18) NL2	HL-A	1	\$ 287.50	\$ 287.50
Plate	Custom	(8) FXLR, (6) MXLR, (2) NL4, (4) Ethercon, (2) BN	SP1	1	\$ 264.50	\$ 264.50
Plate	Custom	(4) FXLR, (6) MXLR, (2) NL4, (4) Ethercon, (2) BN	SP2	1	\$ 232.30	\$ 232.30
Plate	Custom	(4) FXLR, (6) MXLR, (2) NL4, (4) Ethercon, (2) BN	SP3	1	\$ 232.30	\$ 232.30
Plate	Custom	(8) FXLR, (6) MXLR, (2) NL4, (4) Ethercon, (2) BN	SP4	1	\$ 264.50	\$ 264.50
Plate	Custom	(8) FXLR, (6) MXLR, (2) NL4, (4) Ethercon, (2) BN	WP1	1	\$ 264.50	\$ 264.50
Plate	Custom	(8) FXLR, (4) MXLR, (2) NL4, (4) Ethercon, (2) BN	WP2	1	\$ 264.50	\$ 264.50
Plate	Custom	(8) FXLR	WB1	1	\$ 264.50	\$ 264.50
Plate	Custom	(8) FXLR	WB2	1	\$ 264.50	\$ 264.50
Plate	Custom	(2) FXLR, (2) MXLR, (2) NL4, (2) Ethercon, (1) BN	CAT1	1	\$ 133.40	\$ 133.40
Plate	Custom	(2) FXLR, (2) MXLR, (2) NL4, (2) Ethercon, (1) BN	CAT2	1	\$ 133.40	\$ 133.40
Plate	Custom	(2) FXLR, (2) MXLR, (2) NL4, (2) Ethercon, (1) BN	CAT3	1	\$ 133.40	\$ 133.40
Plate	Custom	(2) MXLR, (1) Ethercon, (1) NL4	L	1	\$ 70.15	\$ 70.15
Plate	Custom	(2) MXLR, (1) Ethercon, (1) NL4	C	1	\$ 70.15	\$ 70.15
Plate	Custom	(2) MXLR, (1) Ethercon, (1) NL4	R	1	\$ 70.15	\$ 70.15
Plate	Custom	(2) MXLR, (1) Ethercon, (1) NL4	SUB	1	\$ 70.15	\$ 70.15
Plate	Custom	(2) FXLR, (4) MXLR, (3) Ethercon	SMP	1	\$ 135.70	\$ 135.70
Plate	Custom	(1) FXLR, (1) MXLR, (3) Ethercon, (1) PCA, (1) P	SPC	1	\$ 118.45	\$ 118.45
Plate	Custom	(16) FXLR, (18) MXLR, (11) Ethercon, (2) BNC, (1	MIX	1	\$ 580.75	\$ 580.75
Plate	Custom	(3) Ethercon, (1) BNC	CAM	1	\$ 92.00	\$ 92.00
Plate	Custom	(4) Ethercon	VP	2	\$ 92.00	\$ 184.00
Plate	Custom	(2) MXLR	PC	1	\$ 29.90	\$ 29.90
Plate	Custom	(2) MXLR	PC	1	\$ 29.90	\$ 29.90

Kansas State University West Memorial Stadium Renovation

SECTION 115200 - Audio And Visual Systems

Manufacturer	Model	Description	ID	Qty	Unit Price	Extended Price
Plate	Custom	(2) MXLR	PC	1	\$ 29.90	\$ 29.90
Plate	Custom	(2) MXLR	PC	1	\$ 29.90	\$ 29.90
Plate	Custom	(2) MXLR	PC	1	\$ 29.90	\$ 29.90
Plate	Custom	(2) MXLR	PC	1	\$ 29.90	\$ 29.90
Plate	Custom	(2) MXLR	PC	1	\$ 29.90	\$ 29.90
Plate	Custom	(2) MXLR	PC	1	\$ 29.90	\$ 29.90
Plate	Custom	(2) MXLR	PC	1	\$ 29.90	\$ 29.90
Plate	Custom	(2) MXLR	PC	1	\$ 29.90	\$ 29.90
Plate	Custom	(2) MXLR	PC	1	\$ 29.90	\$ 29.90
Plate	Custom	(2) MXLR	PC	1	\$ 29.90	\$ 29.90
Plate	Custom	(2) MXLR	PC	1	\$ 29.90	\$ 29.90
Plate	Custom	(2) MXLR	PC	1	\$ 29.90	\$ 29.90
Plate	Custom	(1) Pass-Through	RRA	1	\$ 49.45	\$ 49.45
Plate	Custom	(12) FXLR, (12) MXLR, (1) Ethercon	RRB	1	\$ 257.60	\$ 257.60
Plate	Custom	(2) FXLR	B&LP	1	\$ 407.10	\$ 407.10
Plate	Custom	(2) FXLR	B&LP	1	\$ 407.10	\$ 407.10
Plate	Custom	(2) FXLR	B&LP	1	\$ 407.10	\$ 407.10
Plate	Custom	(2) FXLR	B&LP	1	\$ 407.10	\$ 407.10
Plate	Custom	(1) RJ45, (1) Ethercon	FPD	1	\$ 115.00	\$ 115.00
Plate	Custom	(4) Ethercon	CAM	1	\$ 92.00	\$ 92.00
					\$ -	\$ -
					\$ -	\$ -
Fav Misc	Custom	Misc. Terminal Hardware		1	\$ 575.00	\$ 575.00
Fav Misc	Custom	General Hardware & Connectors		1	\$ 1,150.00	\$ 1,150.00

\$ 120,885.87

EQUIPMENT TOTAL \$ 120,885.87

IN-EQUIPMENT TOTAL \$ 121,060.13

GRAND TOTAL \$ 241,946.00

Kansas State University West Memorial Stadium Renovation

SECTION 115200 - Audio And Visual Systems

Manufacturer	Model	Description	ID	Qty	Unit Price	Extended Price
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Section 115200 - AV Equipment - Alternate #2 - AV Systems

B139939

Additive Alternate 1

2.1 D - Additive Alternate 1					\$ -	\$ -
Midas	Pro2C	Digital Audio Console	MIX1	1	\$ 17,071.75	\$ 17,071.75
Midas	DL251	Fixed I/O	MIXIO	1	\$ 3,861.70	\$ 3,861.70
					\$ -	\$ -
Echo	Audiofire 12	FireWire Digital Audio Recording Interface	FIRE	1	\$ 678.44	\$ 678.44
					\$ -	\$ -
Denon	DN-C640	CD Player	CD	2	\$ 859.04	\$ 1,718.08
					\$ -	\$ -
Stage Research	SFX Sound Playback Software		SFX	1	\$ 458.85	\$ 458.85
					\$ -	\$ -
					\$ -	\$ -
Fav Misc	Custom	General Hardware & Connectors		1	\$ 230.00	\$ 230.00

EQUIPMENT TOTAL \$ 24,018.82

NON-EQUIPMENT TOTAL \$ 2,886.98

GRAND TOTAL \$ 26,905.80

Additive Alternate 2

					\$ -	\$ -
Marshall	VS 541 HD SDI	Camera	CAM 1	1	\$ 2,758.85	\$ 2,758.85
Marshall	V-PS12-1000	Power Supply For VS 541 HD SDI	CAM 1	1	\$ 19.54	\$ 19.54
Fav Misc	Custom	Mounting Hardware	CAM 1	1	\$ 28.75	\$ 28.75
					\$ -	\$ -
Axis	T90A40	IR-LED	CAM 1	1	\$ 1,900.23	\$ 1,900.23
Fav Misc	Custom	Misc Mounting Hardware - Marshall	CAM 1	1	\$ 28.75	\$ 28.75
					\$ -	\$ -
					\$ -	\$ -

EQUIPMENT TOTAL \$ 4,736.12

NON-EQUIPMENT TOTAL \$ 711.64

GRAND TOTAL \$ 5,447.76

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Catalog Page # 1642Shipping Weight 777.0 lbs.

Country of Origin USA | Country of Origin is subject to change.

How can we improve our Product Images?

☐ Compare

Technical Specs

Item	Aerial Work Platform	Base Width	29"
Drive	No	Stowed Height	78"
Power Source	AC	Casters	Yes
Overall Height	78"	Drive Wheel	No
Work Height	35-1/2 ft.	Ground Clearance	1-51/64"
Outrigger Footprint L	69-1/4"	Mast	Vertical Aluminum Mast
Outrigger Footprint W	61-1/4"	Batteries Included	No
Overall Length	53"	Gross Vehicle Weight	777 lb.
Overall Width	29"	Standards	ANSI A92.3, CSA B354.1, EN 280, AS1418.10
Platform Height	44-3/4"	Includes	Outriggers
Platform Width	26"	Green Environmental Attribute	Product Operates with No Direct Use of Fossil Fuels
Base Length	53"		

How can we improve our Technical Specifications?

Compliance and Restrictions

Green Product - This item has been designated by the manufacturer as an environmentally preferable product (EPP) because this item has one or more environmentally preferable attributes. For additional information, see the Tech Specs tab on the product description page.

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Step 5

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PRODUCT	PRICE	QTY	SUBTOTAL
 TYPE 1A REVOLUTION XE - MODEL 22 - BUILT IN DUAL RATCHET LEVELERS <i>SKU: 12022-809</i>	\$384.00	2	\$768.00
 LITTLE GIANT WORK PLATFORM <i>SKU: 10104-free</i>	\$0.00	2	\$0.00
 FREE SHIPPING	\$0.00		\$0.00

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#1 Wiring Labor [REQUIRED]

Description/Notes

Whether we purchase new or bring over the old instruments from the Purple Masque in East Stadium, each connector (plug) will need to be swapped out to work with the new style connector to meet electrical code.

BUILD				NUMBER OF		TOTAL
				HOURS	INSTRUMENTS	MANHOURS
1	Removal of old style connectors			0.25	126	31.5
2	Installation/Wiring of new connectors			0.5	126	63
3	Testing of new connectors/instruments			0.25	126	31.5
TOTAL PERSON-HOURS					126	
Labor Rate					\$10/hr	
TOTAL LABOR					\$1,260.00	
MATERIAL		VENDOR	UNIT	QUANTITY ESTIMATE	UNIT PRICE ESTIMATE	COST ESTIMATE
1	Male Connector (NEMA L5-20 Twistlock) - McM# 9081T12		McMaster	ea	126	\$21.00
2						
TOTAL Materials					\$2,646.00	

GRAND TOTAL \$3,906.00

Purple Masque Portable Stage Lighting Equipment Options - November 12, 2014

Prepared by Heather McAvoy, Principal, Landry and Bogan Theatre Consultants

Option # 1- \$175,000

Includes: \$87,000- 108 ETC Source 4 ERS, 18 ETC Source 4 PAR EA, 18 ETC D40 LED wash unit, 27 A-size pattern holders, 54 top hats for Source 4 ERS, 18 barn-doors for Source 4 PAR EA, 10 twistlock two-fers, 10 twistlock 25' cables, 10 twistlock 10' cables, 10 twistlock 5' cables, 6 DMX 5-pin 25' cables, 6 DMX 5-pin 10' cables, 6 DMX 5-pin 5' cables,
\$40,000- (10) Chroma-Q Colorforce 48 LED cyc lights with DMX and power cables.
\$48,000- (8) Martin Mac Quantum Profile LED Moving Light

Option #2 - \$160,000

Same as Option #1 only replace D40 LED wash units with ETC Colorsource PAR LED units.

Assumptions:

1. 8.4% sales tax applicable to equipment purchases
2. Equipment delivered only. KSU will unpackage, install lamps and c-clamps, etc.
3. Area light assumes 9 areas on stage with 6 lights per area (per John Uthoff)
4. Area light assumes 9 areas in moat with 3 lights per area (per John Uthoff)
5. Back light assumes 18 total areas (moat and stage combined) with 2 lights per area
6. Gobo washes - 3 washes at 9 areas each wash (total of 27 ERS units) per John Uthoff
7. Cyc lighting not a high priority (per John Uthoff)
8. All Source 4 PAR (Tungsten) to have barn-doors
9. No barn doors for LED wash units (they are not effective on LED units)
10. Each package includes 34 Leviton black NEMA L5-20 (twistlock) male connectors to replace "old style" connectors on existing lights. Deliver only. *[Stark Note: WILL REQUIRE ADDITIONAL LABOR TO WIRE]*
11. Each tungsten halogen fixture includes c-clamp, lamp, safety cable and twistlock connector (connector installed)
12. Each LED fixture includes c-clamp, safety cable, Powercon input cable with NEMA 5-20 male connector (Non-dim outlets are Edison.)
13. 10% spare lamps included