### Addendum No. 2 March 15, 2017

Project: Canton High School Performing Arts Center Addition

Canton, South Dakota

Arch Project No.: 2621

Architect: Architecture Incorporated

Construction Manager at Risk: Henry Carlson Construction, LLC

Letting: Thursday, March 23, 2017

2:00 PM

Henry Carlson Construction, LLC 1205 West Russell Street

Sioux Falls, SD 57104

### Scope of this Addendum:

To all bidders and all others to whom drawings and specifications have been issued by Architecture Incorporated.

Acknowledge receipt of this addendum by listing its number and date in the bidders Form of Proposal. Failure to do so may subject bidder to disqualification. This Addendum forms a part of the Contract Documents. It modifies them as follows:

### **GENERAL ITEMS:**

- 1) SECTION 00-04 INDIVIDUAL SCOPE OF WORK
  - a) By receipt of this addendum all bidders shall replace original *Bid Package* #1.09A *Drywall and EIFS* bid scope description with <u>revised</u> **Bid Package** #1.09A **Drywall and EIFS** (**Revised Addendum** #2) bid scope description attached to the end of this addendum; 2 pages total.
- 2) <u>SECTION 095113 ACOUSTICAL PANEL CEILINGS</u>
  - a) CLARIFICATION: Species of wood veneer for ceiling panels specified as ACT-4 (ref: ADD Alternate No. 3) shall be **WALNUT**.
- 3) SECTION 123216 INSTITUTIONAL CASEWORK
  - a) CLARIFICATION: **ALL** plastic-laminate <u>and</u> solid-surface countertops shall be fabricated with rounded edge; disregard all references to edge banded countertops.
  - b) CLARIFICATION: **ALL** plastic-laminate <u>and</u> solid-surface countertops shall receive <u>applied</u> backsplashes wherever backsplashes are indicated; disregard all references to integral backsplashes.

### 4) SHEET 4.61 – GROUND LEVEL - FURNITURE PLAN

a) Replace General Furniture Plan Note '*Note b*.' with the following:

REMOVABLE SEATS (SHOWN IN GRAYSCALE) <u>SHALL</u> BE FURNISHED AND INSTALLED BY THE CONTRACTOR PER HIS BASE BID. REMOVABLE SEAT UNITS SHALL BE FINISHED TO MATCH FIXED SEATING UNITS - AS SPECIFIED PER SECTION 126100.

### 5) <u>SHEET 4.62 – MEZZANINE – CONTROL ROOM - FURNITURE PLAN</u>

a) Replace General Furniture Plan Note 'Note b.' with the following:

REMOVABLE SEATS (SHOWN IN GRAYSCALE) <u>SHALL</u> BE FURNISHED AND INSTALLED BY THE CONTRACTOR PER HIS BASE BID. REMOVABLE SEAT UNITS SHALL BE FINISHED TO MATCH FIXED SEATING UNITS - AS SPECIFIED PER SECTION 126100.

### 6) <u>SHEET 4.63 – BALCONY LEVEL - FURNITURE PLAN</u>

a) Replace General Furniture Plan Note 'Note b.' with the following:

REMOVABLE SEATS (SHOWN IN GRAYSCALE) <u>SHALL</u> BE FURNISHED AND INSTALLED BY THE CONTRACTOR PER HIS BASE BID. REMOVABLE SEAT UNITS SHALL BE FINISHED TO MATCH FIXED SEATING UNITS - AS SPECIFIED PER SECTION 126100.

### 7) SHEET 6.13 – BALCONY LEVEL REFLECTED CEILING PLAN

- a) Modify the length, width, and spacing of the southernmost (i.e. nearest Grid 3) row of 'acoustic clouds' as indicated per supplemental architectural drawing SD-1 (dated 3-15-17) which is attached to the end of this addendum.
  - i) Coordinate 'acoustic cloud' modifications with mechanical, electrical and audio-visual subcontractors as necessary.

### **MECHANICAL ITEMS:**

### 1) <u>SECTION 230800 – VENTILATION AND AIR CONDITIONING</u>

- a) Reference SUBSECTION 1.06 ROOFTOP AIR HANDLING UNIT:
  - i. **Delete**: "Treadplate" requirement.
  - ii. **Revise**: Stainless steel coil casing to galvanized steel.
- b) Reference SUBSECTION 1.17 PACKAGED SCREW CHILLER:
  - i. Add: The chiller shall be able to control to a discharge chilled water setpoint.
  - ii. **Revise**: Sound performance data.

-	OWER LEVE quipped with U								Hz	
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100.0	95.0									94
75.0	80.0									91
50.0	65.0									85
25.0	55.0									83

1	ESSURE LE				nd Blanket	kit and Pe	rimeter So	ound Kit )		
Load %	Ambient	63	125	250	500	1K	2K	4K	8K	dBA
	(°F)									
100.0	95.0									66
75.0	80.0									63
50.0	65.0									55
25.0	55.0									53

<sup>\*\*</sup> Chiller is assumed to be a point source on a reflecting (hemispherical radiation)

### 2) SECTION 230900 – AUTOMATIC TEMPERATURE CONTROL/BAS

- a) Reference SUBSECTION 1.21 SEQUENCE OF OPERATIONS:
  - i. Chiller Control:
    - 1. **Add**: In the ice making mode the BAS shall monitor the CHS and CHR to the ice tanks and shall stage the chiller down as the CHS and CHR differential begins to come together to maximize ice storage.

### 3) <u>SHEET 8.10 – LEGENDS AND SCHEDULES</u>

- a) Air Cooled Chiller Schedule: Reference supplemental mechanical drawing Sheet R8.10, dated 3-15-17, attached to the end of this addendum for Air Cooled Chiller Schedule revisions.
- b) RAHU Schedule: Add to Remarks: Provide adapter curb to mate to existing curb and have piping vestibules. RAHU's shall have factory installed VFD's and be wired for single point power connection.

### **ELECTRICAL ITEMS:**

### 1) <u>SECTION 260933 – THEATRICAL DIMMING CONTROLS</u>

- a) CLARIFICATION: The intelligent breaker system specified in Article 2.06 is for the theatrical lighting relay panel "R".
- b) The emergency lighting transfer system (ELTS) is not required for this project as the emergency lighting is fed from panel "EH" through relay panel "RP". Delete the provision of this component from the specification.
- c) Add the provision of a house lighting feed-thru relay panel "RP". The relay panel shall be ETC ERP24-FT12-NET-LVD.
- d) Add the provision of a DMX Emergency Bypass Controller. The controller shall be ETC DEBC-6.

### 2) <u>SECTION 287210 – FIRE ALARM</u>

a) The fire alarm system shall accept a mic/line level input from the existing school intercom system for all-call (emergency) paging announcements in the performing arts center addition. Coordinate the interface with the existing intercom system supplier.

### 3) SHEET 9.13 – ORIENTATION PLAN – ELECTRICAL

a) The existing school intercom system shall be interfaced with the fire alarm system to broadcast all-call (emergency) paging announcements over the voice evacuation system in the performing arts center addition. Coordinate the interface with the fire alarm system supplier.

### 4) SHEET 9.32 – GROUND LEVEL – LIGHTING

- a) Room 122: Provide connection to the index strip lighting fixtures (provided by the rigging contractor) at the outrigger batten located at the east wall (see elevation on sheet 10.21). Connect to LP3-23 and provide a dimmer switch at the east side of door 122-3 for control.
- b) CLARIFICATION: Room 122: The type "TB1" luminaires at the south wall of the stage area shall be connected to the type "TS" luminaires at the front of the seating area.
- c) Room 129: Connect the switch shown east of the type "V10" luminaire to the east "V10" luminaire. Provide a switch at the west side of the west type "V10" luminaire and connect to the west "V10" luminaire.

### 5) SHEET 9.33 – GROUND LEVEL – POWER & SIGNAL

- a) Room 101: Floor boxes shall be equal to Steel City #664-CST-SW-ALM.
- b) Room 102: Provide power connections to the power assist doors at doors 102-2 and 102-4 (connect to LP1-1). Provide rough-in for an exterior card reader and door strike at door 102-2. Install and provide connections to the power assist door pushbutton operators. Coordinate locations of the pushbutton operators and the card reader with the architect.

- c) Room 118: The note at the floor box with the isolated ground receptacle on the stage only applies to the two floor boxes on the stage.
- d) Room 127: Delete the intercom paging trumpet.
- e) Room 129: Provide an additional 120V/20A branch circuit from panel "LP3" (circuit #22) to serve the plug strips at the makeup area (one dedicated circuit for each makeup station).
- f) Room 130: Both fire alarm notification devices shall be speaker/strobes.
- g) Room 133: Both fire alarm notification devices shall be speaker/strobes.

### 6) SHEET 9.34 – CONTROL ROOM – LIGHTING

- a) Room 205: Connect the two type "TA1" luminaires to the type "TB1" luminaire below on ground level.
- b) Room 206: The two switches at the east wall shall be dimmer switches, delete the switches at the west wall.
- c) Room 206A: Delete the two switches at the west wall.
- d) Room 209: The type "H" luminaire at the entry to the house seating area shall be connected to the other type "H" luminaires hallway 207 that are connected to the emergency lighting circuit.

### 7) SHEET 9.35 – CONTROL ROOM – POWER & SIGNAL

- a) Room 206: Provide a ceiling mounted TV outlet (note #3) and an isolated ground ceiling mounted duplex receptacle at the projector location (see AV drawings). Connect the duplex receptacle to AV-2.
- b) Room 206: Provide a fourplex isolated ground receptacle at the east end of the north wall (see sheet 11.02 for location). Connect to AV-11.
- c) Room 206A: Delete the TV outlet. Move the isolated ground fourplex receptacle to the east of the shown location so it is located at sound rack #2 (see sheet 11.02 for location). The circuit shall be routed through the power sequencer.
- d) Rooms 206 and 206A: Provide a fourplex receptacle in room 206A adjacent to the communications outlet on the north wall. Connect the fourplex receptacle (not circuited on drawing) in room 206, the added fourplex receptacle in room 206A and the duplex receptacle (not circuited on drawing) in room 206A to LP1-2.
- e) Room 210: Add a fire alarm speaker/strobe at south wall.
- f) Room 210: Add a TV outlet (note #3) at the sound rack at the north wall. Note that the sound rack (rack #1) and power sequencer (Lyntech Relay Panel) shall be located as shown on this sheet (not where shown on sheet 11.02).

- g) Room 210: See sheet 11.51. for circuits feeding receptacles at the sound rack that are to be routed through the power sequencer (six of the circuits).
- h) Room 213: Delete the intercom paging trumpets.

### 8) <u>SHEET 9.36 – BALCONY LEVEL – LIGHTING</u>

a) Balcony Seating: For clarification, the type "TS" luminaire at the east house seating area with the DN designation shall be connected to the type "TB1" luminaire shown on sheet 9.32 at the southeast entry to the house seating area.

### 9) SHEET 9.39 – FOLLOW SPOT – POWER & SIGNAL

- a) Room 402: Delete the emergency lighting transfer system "ELTS". The added DMX emergency bypass controller shall locate at that location.
- b) Room 402: The home run circuits from the DMX emergency transfer device, emergency bypass detection kit, and house light relay panel shall be as detailed on the theatrical lighting control riser diagram and revised panelboard schedules issued with this addendum. The dimming equipment rack "DER" shall be fed from feed-thru lugs on panel LP1 in lieu of from a 225A/3P circuit breaker in panel LP1.

### 10) SHEET 9.50 – GRID LEVEL – ELECTRICAL

a) 6 GRID LEVEL – POWER & SIGNAL: Change the 18 each termination boxes at the center area of the grid iron with the "D" designation (shown with one dimming circuit) to type "E" termination box associated with the type "E" plug box detail on sheet 9.75.

### 11) SHEET 9.60 – ENLARGED PLANS – ELECTRICAL

- a) Note #9: The new circuit breaker shall be 70A/3P in lieu of 60A/3P.
- b) Note #10: The new circuit breaker shall be 60A/3P in lieu of 30A/1P.

### 12) SHEET 9.70 – SCHEDULES & DETAILS

a) All bidders shall replace original electrical drawing Sheet 9.70 with *revised* Sheet 9.70 (dated 3-15-17) that is attached to the end of this addendum. *Revised* Sheet 9.70 has updated panelboard schedules shown; disregard electrical Item #7 issued per Addendum #1.

### 13) SHEET 9.71 – SCHEDULES & DETAILS

a) All bidders shall replace original electrical drawing Sheet 9.71 with *revised* Sheet 9.71 (dated 3-15-17) that is attached to the end of this addendum. *Revised* Sheet 9.71 has updated panelboard schedules shown; disregard electrical Item #8 issued per Addendum #1.

### 14) SHEET 9.72 – SCHEDULES & DETAILS

a) All bidders shall replace original electrical drawing Sheet 9.72 with *revised* Sheet 9.72 (dated 3-15-17) that is attached to the end of this addendum. *Revised* Sheet 9.72 shows a revised power riser diagram; disregard electrical Item #9 issued per Addendum #1.

### 15) SHEET 9.73 – SCHEDULES & DETAILS

- a) Equipment Schedule:
  - i. Item #1 (chiller CH-1) will have a MCA of 460 amps in lieu of 396 amps. The main disconnect switch shall be fused at 600 amps in lieu of 500 amps.
  - ii. Item #26 (pump P-8) shall be 20HP in lieu of 10HP.
  - iii. Item #27 (pump P-9) will be 25HP in lieu of 20HP.

### 16) SHEET 9.76 – THEATRICAL LIGHTING DETAILS

a) All bidders shall replace electrical drawing Sheet 9.76 that was issued with Addendum #1 with *revised* electrical drawing Sheet 9.76 (dated 3-15-17) that is attached to the end of this addendum. *Revised* Sheet 9.76 has revised theatrical lighting control riser diagram and revised electrical notes.

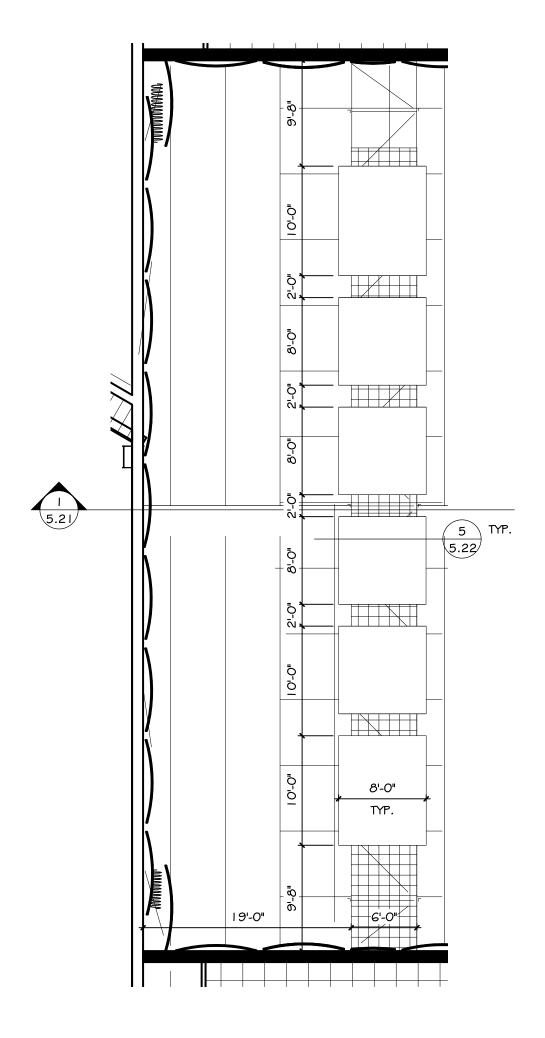
### **GENERAL APPROVALS:**

The following material or equipment furnished by the manufacturer's listed, may be substituted as equivalent providing that each item, material, and piece of equipment conforms to the design and requirement of the specifications.

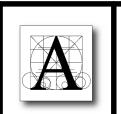
SECTION	ITEM	MANUFACTURER
095113	Wood Acoustical Ceiling Panels	Acoustigreen - Fusion Tegular
230800	Fiberglass Ductwork	Monoxivent
230800	Rooftop Air Handling Units	Carrier
230800	Variable Frequency Drives	Danfoss, Schneider Electric
230800	Duct Mounted Coils	Coil Company, Greenheck
230800	Spiral duct and fittings	Eastern Sheet Metal
230800	Double Wall Spiral Duct and Fittings	Eastern Sheet Metal
230800	Power Roof Ventilators	Aerovent, Penn Barry, Rupp Air
230800	Square Centrifugal Inline Fan	Aerovent, Penn Barry, Rupp Air
230800	Combination Fire and Smoke Dampers	NCA Manufacturing
230800	Louvers	NCA Manufacturing
230800	PRV Backdraft Dampers	Aerovent, Penn Barry
230800	Roof Curbs	CDI

230800	Silencers	VAW Systems, Price
230800	Roof Relief Hoods	Acme
230900	Automatic Temperature Control/BAS	Schneider Electric

### END OF ADDENDUM No. 2



# ACOUSTIC CLOUD SPACING SCALE: 1/8" = 1'-0"



project CANTON HS PERFORMING ARTS CENTER

 number
 0706.2621.15
 drawn
 LBD
 checked
 SRJ

date March 15, 2017 revision

Architecture Incorporated
sioux falls and rapid city, south dakota

DRAWING

SD1

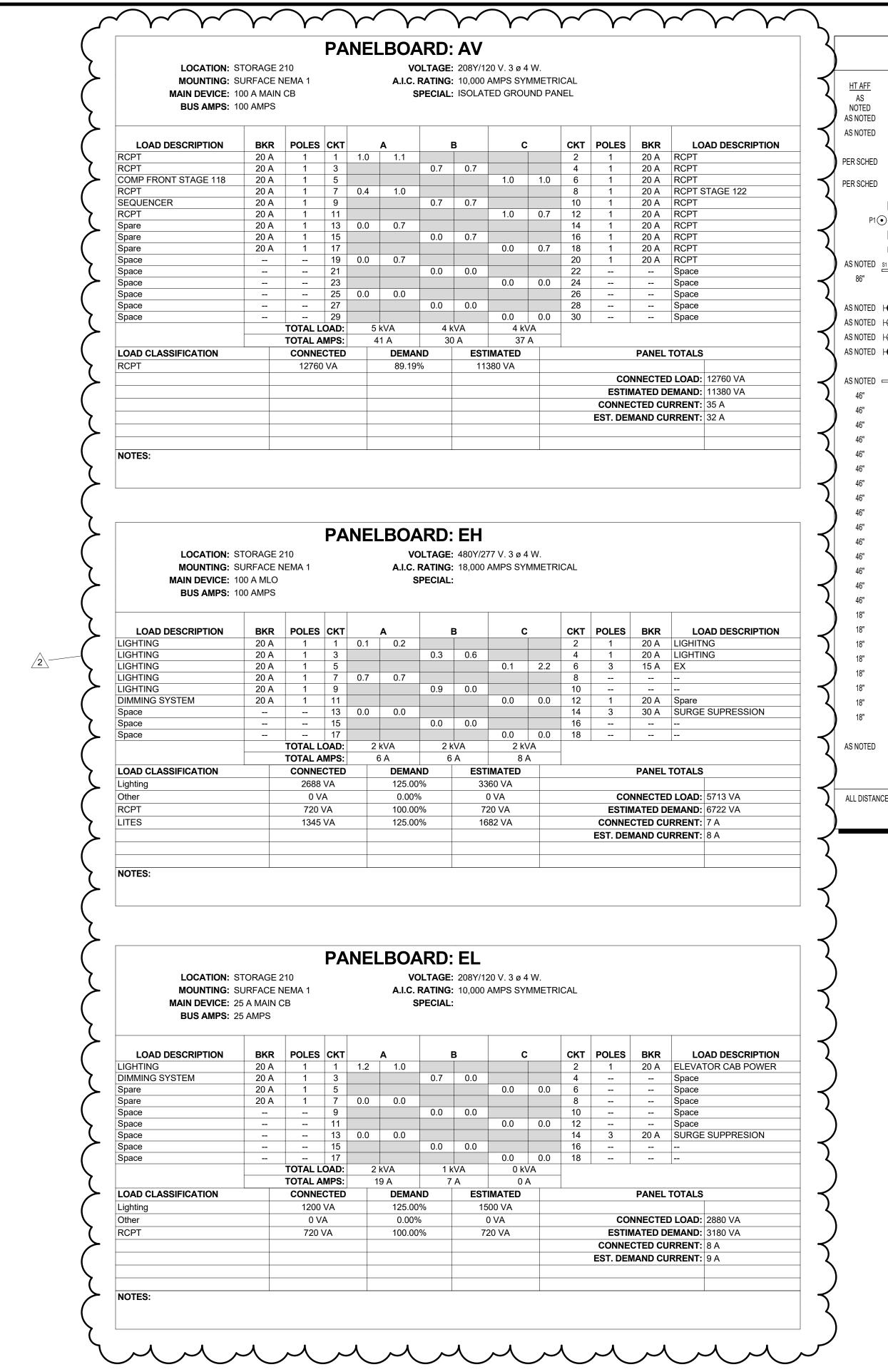
## AIR COOLED CHILLER SCHEDULE

UNIT		MODEL	MBH	AMBIENT	EVAP	ORATO	R BUN	DLE	ELECT	RIC	٩L		STEPS			SOUND	SOUND	WEIGHT	
NO	MANUFAC.	NO	CAPACITY	AIR TEMP	EWT	LWT	GPM	WPD	VOLT	PH	MCA	MOCP	UNLOAD	EER	IPLV	POWER	PRESSURE	(LBS.)	REMARKS
CH-1	TRANE	RTAC-225	1852	75	31	24	560	25	460	3	460	600	10-100% VARI	10.0	13.8	94db	66db	14966	1,2,3,4,5,6,7

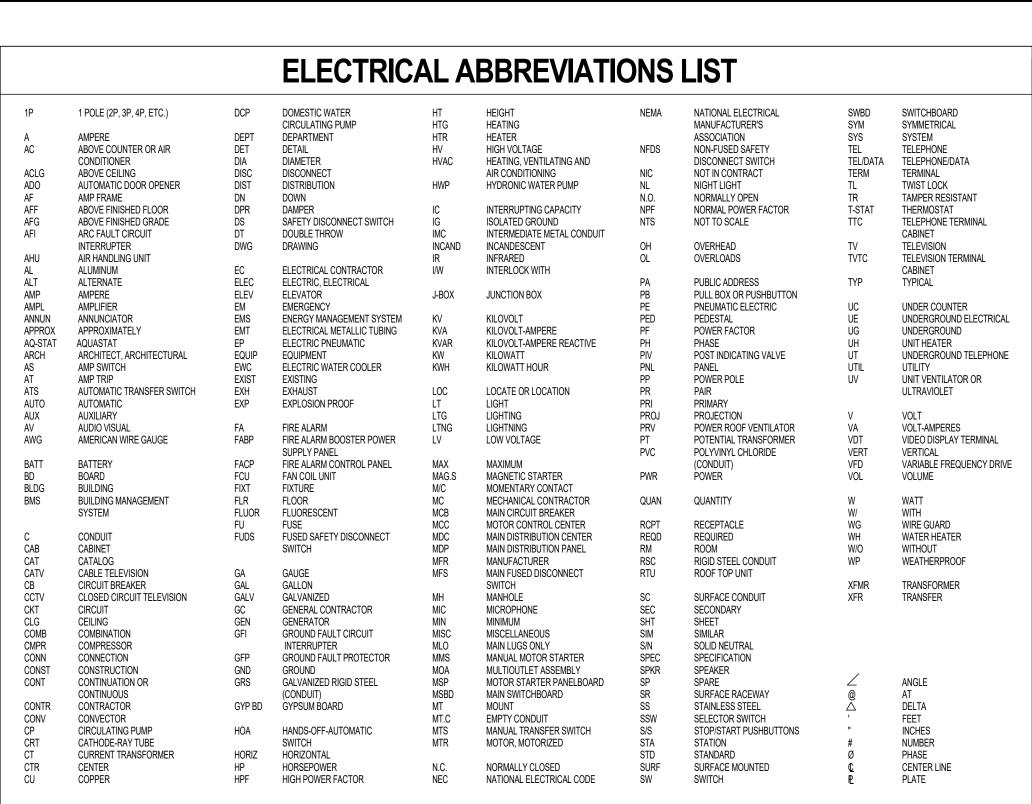
### REMARKS:

- 1. CAPACITY IS BASED ON 70% WATER/30% PROPYLENE GLYCOL.
- 2. EER IS BASED ON ARI STANDARD CONDITIONS.
- 3. SOUND POWER RATING IS BASED ON ARI-370 OVERALL "A" WEIGHTED SOUND POWER LEVEL. SEE SPEC FOR DETAIL.
- 4. SOUND PRESSURE RATING IS BASED ON "A" WEIGHTED SOUND PRESSURE AT 30 FEET IN A FREE FIELD. SEE SPEC FOR DETAIL.
- 5. UNIT SHALL BE MOUNTED ON NEOPRENE OR SPRING TYPE VIBRATION ISOLATORS AS DESIGNED BY THE MANUFACTURER.
- 6. PERFORMANCE OF CHILLER WHEN MAKING ICE.
- 7. PROVIDE LOUVERED HAIL GAURDS.





)					ELECTRICAL SY	<b>YMBO</b>	L LEG	END			
HT AFF	SYMBOL	DESCRIPTION	HT AFF	SYMBOL	<u>DESCRIPTION</u>	HT AFF	SYMBOL	<u>DESCRIPTION</u>	HT AFF	SYMBOL	<u>DESCRIPTION</u>
AS	HA B	SURFACE INCANDESCENT LIGHT (TYPE DENOTED)	18"	A	MULTIOUTLET ASSEMBLY (TYPE DENOTED)			CONDUIT CONCEALED IN WALL OR OVERHEAD	86"	<del></del> HE⋈	FIRE ALARM HORN
NOTED AS NOTE		SURFACE H.I.D. LIGHT (TYPE DENOTED)	18"	Ф <b>▼</b> в	MULTIOUTLET ASSEMBLY (TYPE DENOTED)			CONDUIT CONCEALED BELOW FLOOR	86"	- <b>↓</b> - HE⊠ 110cd	FIRE ALARM HORN W/STROBE (CANDELAS)
AS NOTE		WALL MOUNTED FLOODLIGHT (TYPE DENOTED)	94"	H <b>⊝</b> A	CLOCK (TYPE DENOTED)			CONDUIT EXPOSED	86"	HED 11000	FIRE ALARM BELL
7.01011	Ø R	RECESSED LIGHT (TYPE DENOTED)		P	POWER POLE (OPEN OFFICE STYLE)		— SR —	SURFACE RACEWAY	86"	- <b>-</b>	FIRE ALARM BELL W/STROBE (CANDELAS)
PER SCH	_	POLE MOUNTED LIGHT (TYPE DENOTED)			SURGERY SERVICE COLUMN			CONDUIT TRANSITION UP	86"	HEE	FIRE ALARM CHIME
1		·		<b>©</b>	STATIC GROUND RECEPTACLE (TYPE DENOTED)			CONDUIT TRANSITION DOWN	86"	- <b>-</b>	FIRE ALARM CHIME W/STROBE (CANDELAS)
PER SCH	ED AAAA PRINCE	POLE MOUNTED FLOODLIGHT (TYPE DENOTED)		<b>⊚</b>	LIGHTNING PROTECTION AIR TERMINAL			CONDUIT STUBBED OUT	86"		FIRE ALARM STROBE (CANDELAS)
	O G	SURFACE FLUORESCENT LIGHT (TYPE DENOTED)			LIGHTNING PROTECTION CONDUCTOR SPLICE		LV	LOW VOLTAGE POWER WIRING	86"	-FD 110cd 	FIRE ALARM SPEAKER W/STROBE (CANDELAS)
	P1 • P2	SUSPENDED OR PENDANT LIGHT (TYPE DENOTED)		Φ	GROUND ROD (PLAN VIEW)		EX~	EXISTING CONDUIT	46"	HEIS 110cd	FIRE ALARM REMOTE ANNUNCIATOR
	# H	RECESSED FLUORESCENT LIGHT (TYPE DENOTED)		)	GROUND CONNECTION TO STEEL OR STRUCTURE		UE	UNDERGROUND ELECTRICAL	40	FA ANNUN	SMOKE DETECTOR (TYPE DENOTED)
	ST1	FLUORESCENT STRIP LIGHT (TYPE DENOTED)		•	GROUND CONNECTION - EXOTHERMIC WELD		UHVE	UNDERGROUND HIGH VOLTAGE ELECTRICAL			HEAT DETECTOR (TYPE & TEMP DENOTED)
∆S NI∩TE	D <u>\$1 \rightarrow</u> \$1 \rightarrow T1	, , , , , , , , , , , , , , , , , , ,		<b>-</b> ®-	UTILITY SERVICE POWER POLE (SITE)		UT	UNDERGROUND TELEPHONE		R/F135 R/F135	LINEAR HEAT DETECTOR
86"	D ST V ST V IT	EMERGENCY BATTERY LIGHT (TYPE DENOTED)	AS NOTED	_ <del>_</del>	SPECIAL RECEPT. OR CONN. (SEE SCHEDULE)		UCOM	UNDERGROUND COMMUNICATIONS		<b>⊕</b> ②  □	DUCT SMOKE DETECTOR (TYPE DENOTED)
00	EM H∰E ∰E	EXIT SIGN (TYPE DENOTED)	AS NOTED	(2)—•	SPECIAL CONNECTION (SEE SCHEDULE)		UTV	UNDERGROUND CABLE TELEVISION (CATV OR CCTV)	46"	O <sub>P</sub> —	REMOTE TEST/STATUS STATION
AS NOTE		LIGHT FIXTURE ON (EM) LIFE SAFETY BRANCH	AS NOTED	(2)—● H① ①	JUNCTION BOX		UFIBR	UNDERGROUND FIBER OPTIC	40		FLAME DETECTOR (TYPE DENOTED)
		-	MO NOTED	PB	PULL BOX		OHE	OVERHEAD ELECTRIC		UV/IR UV/IR	GAS DETECTOR (TYPE DENOTED)
AS NOTE	V			<u>(' B)</u>	CIRCUIT BREAKER PANEL			OVERHEAD TELEPHONE	461		F.A. PULLSTATION
AS NOTE	<b>V</b>	LIGHT FIXTURE ON EMERGENCY CIRCUIT			POWER OR DISTRIBUTION PANEL		—— OHT ——	BRANCH CIRCUIT HOME RUN	46"	HF <sub>P</sub>	F.A. ZONE ADDRESSABLE MODULE
AS NOTE				(777)			0.0			Z	
		LIGHT ON CORD REEL (TYPE DENOTED)			SPECIAL CABINET (TYPE DENOTED)		00	FLEXIBLE CONDUIT OR FIXTURE WHIP			F.A. INDIVIDUAL ADDRESSABLE MODULE
AS NOTE	D — — —	LIGHTING CHANNEL WIRE (TYPE DENOTED)		T1	TRANSFORMER (TYPE DENOTED)		NZ	UNDERFLOOR RACEWAY SYSTEM		H <b>⊙</b> ⊭	F.A. DOOR HOLDER
46"	<del>\(\frac{\lambda}{2}\)</del>	SINGLE POLE SW.		25 KVA	GENERATOR (KVA DENOTED)			CABLE TRAY (TYPE DENOTED)		\ <u>\</u>	F.A. DOOR CLOSER
46"	<del>(</del>	2 POLE SINGLE THROW SW.		SF-1	MOTOR (SEE SCHEDULE)	1	<b></b>	CONDUIT SLEEVE (SIZE DENOTED)		FR O	FIRE ALARM SHUT DOWN RELAY
46"	<del>(</del>	3-WAY SW.		□ <del>/////</del>	DAMPER MOTOR	18"	<b>I</b>	TELEPHONE OUTLET (TYPE DENOTED)		5 <del></del> √	SPRINKLER FLOW SWITCH
46"	₩ 4	4-WAY SW.	46"		MANUAL MTR. STR. (W/OVERLOADS)	46"	<b>⋖</b>	WALL TELEPHONE OUTLET (TYPE DENOTED)		<i></i>	SPRINKLER VALVE TAMPER SWITCH
46"	₩	KEYED SW.		$\boxtimes$	MAG. MOTOR STARTER OR CONTACTOR	18"	$\blacktriangleleft$	INFORMATION OUTLET (TYPE DENOTED)		Ş—— <b>▼</b> ——⊰	SPRINKLER LEVEL SWITCH
46"	<del>  ( )  </del>	SW. W/PILOT		$\boxtimes_1$	COMB. MOTOR STARTER (NON-FUSED)	46"	+(C)	INTERCOM OUTLET LOCATION		Ş <b>♥</b>	SPRINKLER PRESSURE SWITCH
46"	<del> </del> —●	SEPARATE PILOT LIGHT		$\blacksquare$ 1	COMB. MOTOR STARTER (FUSED)	18"	$\bowtie$	TELEVISION OUTLET		,	SPRINKLER TEMPERATURE SWITCH
46"	₩	DIMMER SWITCH		□₁	SAFETY DISC. SW. (NON-FUSED)	18"		MULTIPLE SERVICE OUTLET (TYPE DENOTED)		ELR	END OF LINE RESISTOR
46"	<del>⊬</del> os	OCCUPANCY SENSOR SWITCH		$ ightharpoons_1$	SAFETY DISC. SW. (FUSED)			OUTLET IN FLOOR (MICROPHONE SHOWN)		ES	ELECTRIC STRIKE
46"	<del>(✓)</del> <sup>MC</sup>	MOMENTARY CONTACT SWITCH	AS NOTED		BUS DUCT WITH PLUG UN DISCONNECT (FUSED)			MULTIPLE SERVICE FLR OUTLET (TYPE DENOTED)		ML	MAGNETIC LOCK
46"	₩	TIMER SWITCH			VARIABLE FREQUENCY DRIVE	18"	H®	DICTATION OUTLET LOCATION		H©	COMBINATION LOCK
46"	l <del>⇔</del> ™	TIME DELAY SWITCH		R	RELAY	46"	⊢®	WALL DICTATION OUTLET LOCATION		DC	DOOR CONTACTS
46"	l <del>⇔</del> <sup>SP</sup>	FAN SPEED CONTROL			ENCLOSED CIRCUIT BREAKER	AS NOTED	⊦©	WALL MOUNTED CLOCK	46"	HCR	CARD READER
46"	<del>(</del>	MOTOR HORSEPOWER RATED SWITCH		PS ♀	PRESSURE SWITCH	AS NOTED	⊢⊕ NFV-4x2	X-RAY FILM VIEWER (SEE SPECIFICATIONS)	46"	H <b>::</b>	KEYPAD
46"	H●	PUSH BUTTON		FS O	FLOAT SWITCH	86"	H_D	BELL		HMD →	MOTION DETECTOR (TYPE DENOTED)
18"	Ю	SINGLE RECEPT.		O <sub>S</sub> IR	OCCUPANCY SENSOR - TYPE DENOTED	86"	ı□⁄	BUZZER	46"	+(E)	NURSE CALL EMERG. STATION
18"	<b>₩</b>	DUPLEX RECEPT.		(s) A	LIGHT LEVEL SENSOR - TYPE DENOTED	00	'∟' 	CHIME	46"	+\B	NURSE CALL CODE BLUE EMERG. STATION
18"	<b>₩</b>	SPLIT DUPLEX RECEPT.	AS NOTED	HB	PHOTOCELL	46"	<u>~</u>	DOOR SIGNAL - APT. UNIT	46"	+••	NURSE CALL DUTY STATION
18"	<del>□</del>	ISOLATED GROUND RECEPT (DUPLEX SHOWN)	46"	HTC	TIME CONTROL SWITCH (TIME SWITCH)			SPEAKER (WALL OR CEILING MT.)	46"	+\$	NURSE CALL STAFF STATION
		RECEPT ON EMERGENCY CKT (DUPLEX SHOWN)	46"	HU H	HUMIDISTAT	86"	HS S	HORN TYPE SPEAKER	46"	+\$>	NURSE CALL SINGLE PATIENT STATION
18"	<del> </del>	FOURPLEX RECEPT.	46"		THERMOSTAT	86"	H\$\d (\$\d				NURSE CALL DUAL PATIENT STATION
18"	<b>₩</b>	FOURPLEX RECEPTS. FOURPLEX RECEPTACLE ON EMERGENCY CIRCUIT		T)	BASEBOARD HEATER (TYPE DENOTED)	40"	(S)	SURFACE MT SPEAKER SUSPENDED FROM CEILING	46"	+P <sub>2</sub>	NURSE CALL DOME LIGHT
18"	<b>⊨</b>		PER SCHED	H1	'	46"	<del>Ю</del> <sup>V</sup>	VOLUME CONTROL	86"	HN <sub>2</sub> N <sub>2</sub>	
18"	Ħ	240 VOLT RECEPT.	PER SCHED	H2 - ·	WALL HEATER (TYPE DENOTED)	18"	<b>⊢</b> M	MICROPHONE OUTLET	46"	NCM	NURSE CALL MASTER STATION
		FLOOR RECEPT. (DUPLEX SHOWN)	PER SCHED	<u></u> □1	HAND OR HAIR DRYER (TYPE DENOTED)	18"	₩.	PROJECTOR CONTROL OUTLET		NCC	NURSE CALL EQUIPMENT CABINET
AS NOTE		RECEPT ON DROP CORD (DUPLEX SHOWN)		Â	SOLENOID VALVE		#	ANTENNA	46"	NC ANNUN	NURSE CALL ANNUNCIATOR PANEL
1		RECEPT ON CORD REEL (DUPLEX SHOWN)		<b>⊧</b> €)	DASHED SYMBOL INDICATES EXISTING		•Œ	WEATHERHEAD	AS NOTED		CCTV CAMERA
1	Œ	EQUIPMENT PLUG	_	₩	HATCHED SYMBOL INDICATES REMOVED	-	$\langle 1 \rangle$	KEYED NOTE (SEE SCHEDULE)	AS NOTED		CCTV CAMERA WITH PAN/TILT DRIVE



Celebrating 40 Years: 1976 - 2016

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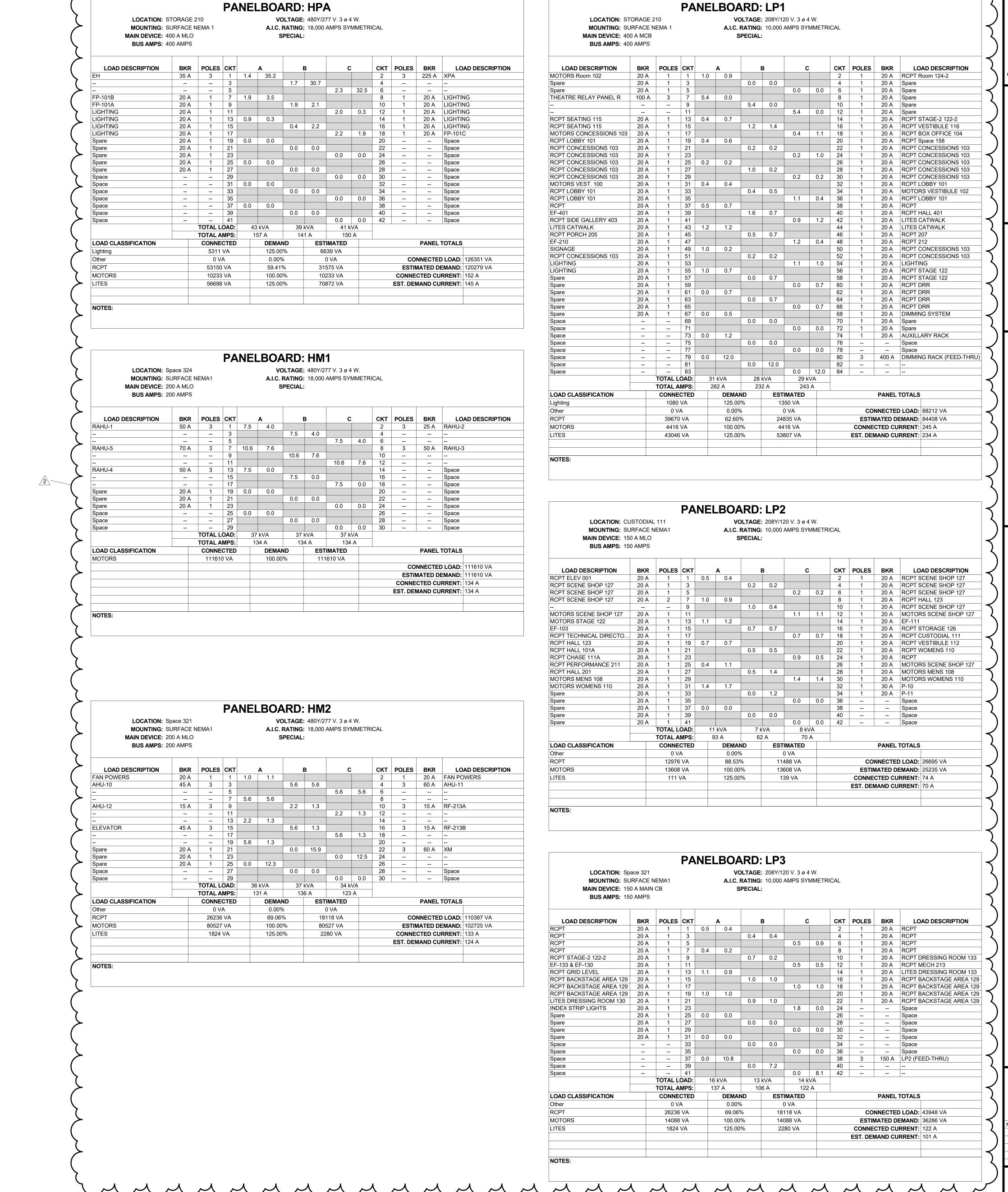
CANTON HS PERFORMING ARTS CENTE

umber 116083
late 3-3-17
evision
lrawn MCH checked BJS

D. DATE DESCRIPTION

3-10-17 ADDENDUM 1

2 3-15-17 ADDENDUM 2



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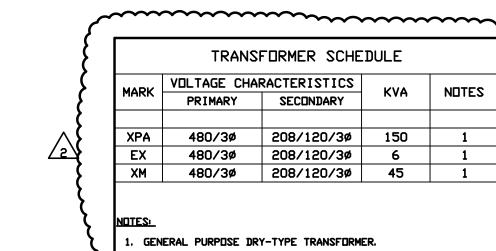
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 NO.
 DATE
 DESCRIPTION

 I
 3-10-17
 ADDENDUM I

9.71

3-15-17 ADDENDUM 2



<u>~~</u>	<b>~~~~</b>		~~~		` —															
	TRANS	FORMER SCHE	DULE		3						F	EEDER	SCHE	DULE						
DI	VOLTAGE CHA	RACTERISTICS	121/4	NETES	) MAI	RK	-	4-WIRE	FEEDER	₹	;	3-WIRE	FEEDER	₹	<b>"</b> K	* RATE	D 4-WIR	E FEEI	)ER	MARK
RK	PRIMARY	SECONDARY	KVA	NOTES	<b>∛</b> (AM	·2>	SETS	PH	GND	С	SETS	PH	GND	С	SETS	PH	N	GND	С	(AMPS
					1	5	1	14	14	0. 75	1	14	14	0, 75	1	14	12	14	0. 75	15
ΡΑ	480/3ø	208/120/3ø	150	1	<b>}</b> 20	)	1	12	12	0. 75	1	12	12	0. 75	1	12	10	12	0. 75	20
X	480/3ø	208/120/3ø	6	1	<b>\</b> 2!	5	1	10	10	0. 75	1	10	10	0. 75	1	10	8	10	0. 75	25
M)	480/3ø	208/120/3ø	45	1	₹ 30	)	1	10	10	0. 75	1	10	10	0. 75	1	10	8	10	0. 75	30
					3:	5	1	8	10	0. 75	1	8	10	0. 75	1	8	6	10	0. 75	35
					<b>{</b> 40	)	1	8	10	0. 75	1	8	10	0. 75	1	8	4	10	1. 00	40
<u>ESı</u>					} 4	5	1	6	10	1. 00	1	6	10	0. 75	1	6	4	10	1. 00	45
GEN	ERAL PURPOSE DE	RY-TYPE TRANSFORM	ER.		<b>5</b> 50	)	1	6	10	1. 00	1	6	10	0. 75	1	6	3	10	1. 00	50
_					) 61	)	1	6	10	1. 00	1	6	10	0. 75	1	6	3	10	1. 00	60
~		~~~~~	~~~		71	)	1	4	8	1. 25	1	4	8	1. 00	1	4	1/0	8	1. 25	70
					80	)	1	4	8	1. 25	1	4	8	1. 00	1	4	1/0	8	1. 25	80
					90	)	1	3	8	1. 25	1	3	8	1. 25	1	3	2/0	8	1. 25	90
					10	0	1	3	8	1. 25	1	3	8	1. 25	1	3	2/0	8	1. 50	100
					11	0	1	2	6	1. 25	1	2	6	1. 25	1	2	3/0	6	1. 50	110
					12	5	1	1	6	1. 50	1	1	6	1. 25	1	1	4/0	6	2. 00	125
					15	0	1	1/0	6	2. 00	1	1/0	6	1. 50	1	1/0	300	6	2. 00	150
					17	5	1	2/0	6	2. 00	1	2/0	6	2, 00	1	2/0	350	6	2, 00	175
					20	0	1	3/0	6	2. 00	1	3/0	6	2, 00	1	3/0	500	6	2, 50	200
					22	5	1	4/0	4	2. 50	1	4/0	4	2, 00	1	4/0	2-3/0	4	2, 50	225
					25	0	1	250	4	2. 50	1	250	4	2, 50	1	250	2-4/0	4	2, 50	250
					30	0	1	350	4	3, 00	1	350	4	2, 50	1	350	2-300	4	3, 00	300
					35	0	1	500	3	3, 00	1	500	3	3, 00	1	500	2-400	3	3. 50	350
					40	0	2	3/0	3	2, 00	2	3/0	3	2, 00	2	3/0	500	3	2, 50	400
					45	0	2	4/0	2	2. 50	2	4/0	2	2, 00	2	4/0	2-3/0	2	2, 50	450
					50	0	2	250	2	2. 50	2	250	2	2, 50	2	250	2-4/0	2	2, 50	500
					60	0	2	350	1	3, 00	2	350	1	2, 50	2	350	2-350	1	3, 00	600
					70	0	2	500	1/0	3, 00	2	500	1/0	3, 00	2	500	2-400	1/0	3. 50	700
					80	0	3	300	1/0	2. 50	3	300	1/0	2, 50	3	300	2-4/0	1/0	3. 00	800
					90	0	3	350	2/0	3, 00	3	350	2/0	2. 50	3	350	2-300	2/0	3. 00	900
					100		3	400	2/0	3, 00	3	400	2/0	2. 50	3	400	2-350	2/0	3. 00	1000
					120		4	350	3/0	3, 00	4	350	3/0	2, 50	4	350	2-300	3/0	3. 00	1200
					160		5	400	4/0	3, 00	5	400	4/0	2. 50	5	400	2-350	4/0	3. 00	1600
					200		6	400	250	3, 00	6	400	250	3. 00	6	400	2-350	250	3. 50	2000
					250		7	500	350	3, 50	7	500	350	3. 00	7	500	2-400	350	3. 50	2500
					200		<u> </u>	F00	400	2.50		F00	400	2.00	<u> </u>	F00	2 400	400	4 00	2000

MARK	MOTOR L	JAD (HP)	4-1	WIRE FEE	DER	;	3-WIRE FEED	ER	MAF
(AMPS)	480V	208V	PH	GND	С	PH	GND	С	< AMF
20	7. 5 & LESS	3 % LESS	12	12	0. 75	12	12	0. 75	20
25	10		10	10	0. 75	10	10	0. 75	25
30	15		10	10	0. 75	10	10	0. 75	30
35		5	8	10	0. 75	8	10	0. 75	35
40	15		8	10	0. 75	8	10	0. 75	40
45			6	10	1. 00	6	10	0. 75	45
50		7. 5	6	10	1. 00	6	10	0. 75	50
60	20	10	6	10	1. 00	6	10	0. 75	60
70	25		4	8	1. 25	4	8	1. 00	70
80	30		4	8	1. 25	4	8	1. 00	80
90	40	15	3	8	1. 25	3	8	1. 25	90
100	50	20	3	8	1. 25	3	8	1. 25	10

3000 8 500 400 3.50 8 500 400 3.00 8 500 2-400 400 4.00 3000

- 1. FEEDERS SHALL BE 4-WIRE, UNLESS DENDTED WITH "-3" WHICH SHALL BE 3-WIRE (3W)
  "-IG" WHICH SHALL BE 4-WIRE PLUS INSULATED GROUND AND EQUIPMENT GROUND.
- "-K" WHICH SHALL BE 4-WIRE WITH OVERSIZED NEUTRAL. 2. SERVICE ENTRANCE CONDUCTORS SHALL NOT BE PROVIDED WITH GROUND CONDUCTOR.
- 3. ALL FEEDERS SHALL HAVE EQUIPMENT GROUND CONDUCTOR.
- 5. CONDUCTOR SIZES FOR FEEDERS OVER 40A ARE BASED ON TERMINATIONS TO EQUIPMENT LISTED FOR 75°C, INCREASE FEEDER SIZES AS REQUIRED FOR TERMINATIONS TO EQUIPMENT NOT LISTED FOR 75°C.
- 6. RACEWAY AND CONDUCTOR SIZING IS BASED ON THE USE OF THHN/THWN COPPER CONDUCTORS AND EMT CONDUIT. MODIFY RACEWAY AND CONDUCTOR SIZES AS REQUIRED FOR THE USE OF OTHER RACEWAY AND CONDUCTOR TYPES. SEE SPECIFICATIONS FOR ALLOWABLE CONDUCTOR MATERIAL, INSULATION, AND RACEWAY TYPES.

7. NOT ALL FEEDER SIZES SHOWN IN THIS SCHEDULE ARE USED IN THIS PROJECT.



- GROUND IN ACCORDANCE WITH THE NEC, LOCAL CODE REQUIREMENTS, AND SPECIFICATIONS.
- 600A CT CABINET BY ELECTRICAL CONTRACTOR (EC). NEW UTILITY METER FURNISHED BY UTILITY INSTALLED BY EC.
- 600A/3P FUSED MAIN DISCONNECT SWITCH 'MDS-CH'. FUSE AT 600A.
- REPLACE EXISTING 300A/3P CIRCUIT BREAKER THAT FED RAHU-5 WITH A NEW 400A/3P CIRCUIT BREAKER.

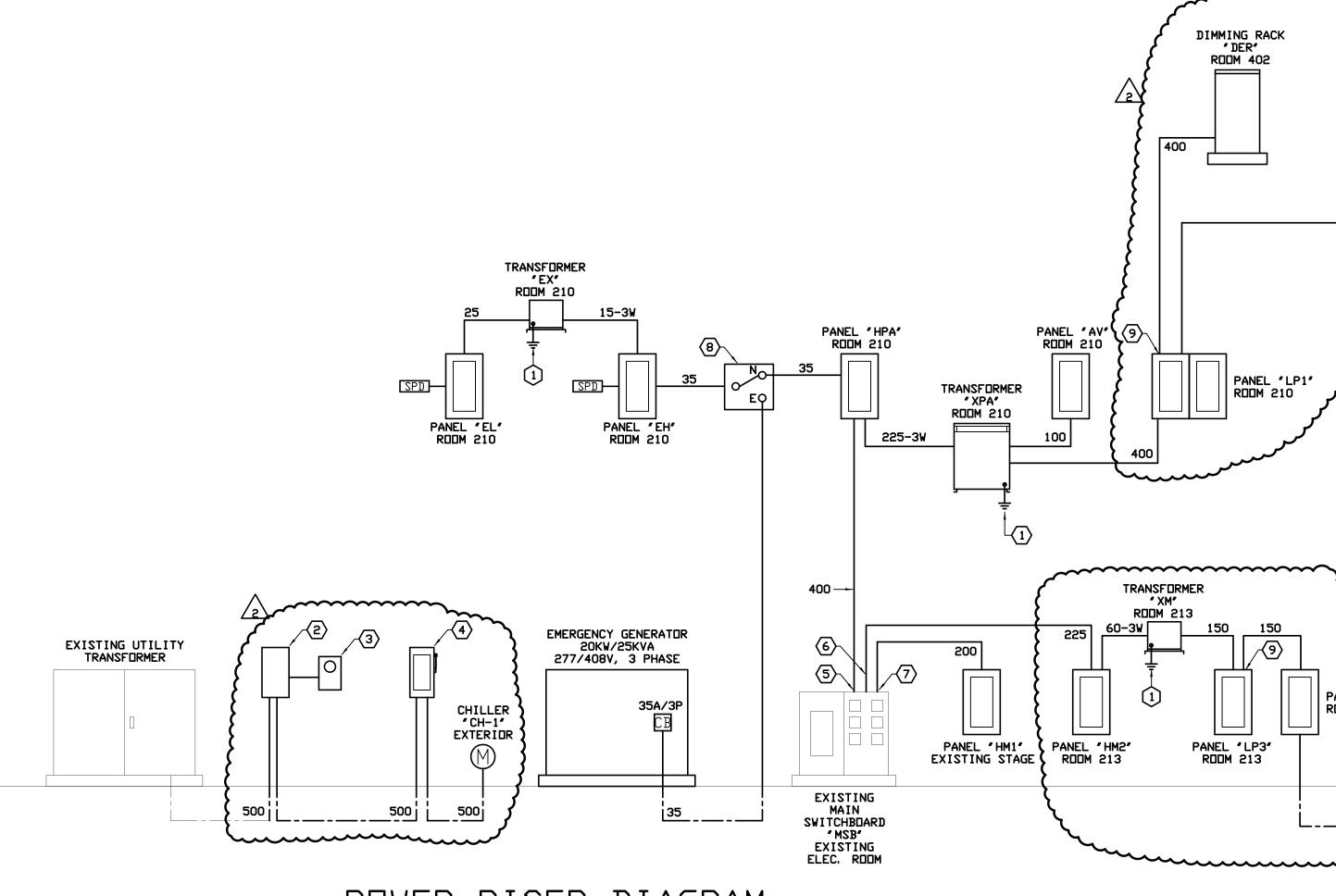
- UNDER THE BASE BID, PROVIDE A NEW 200A/3P CIRCUIT BREAKER (65,000 AIC). UNDER ALTERNATE #5A, UTILIZE THE EXISTING 200A/3P CIRCUIT BREAKER THAT FED RAHU-3.
- UTILIZE THE EXISTING 200A/3P CIRCUIT BREAKER THAT FED RAHU-1. AUTOMATIC TRANSFER SWITCH "ATS-LS", 60A/3P 14,000A AIC, ROOM 210.

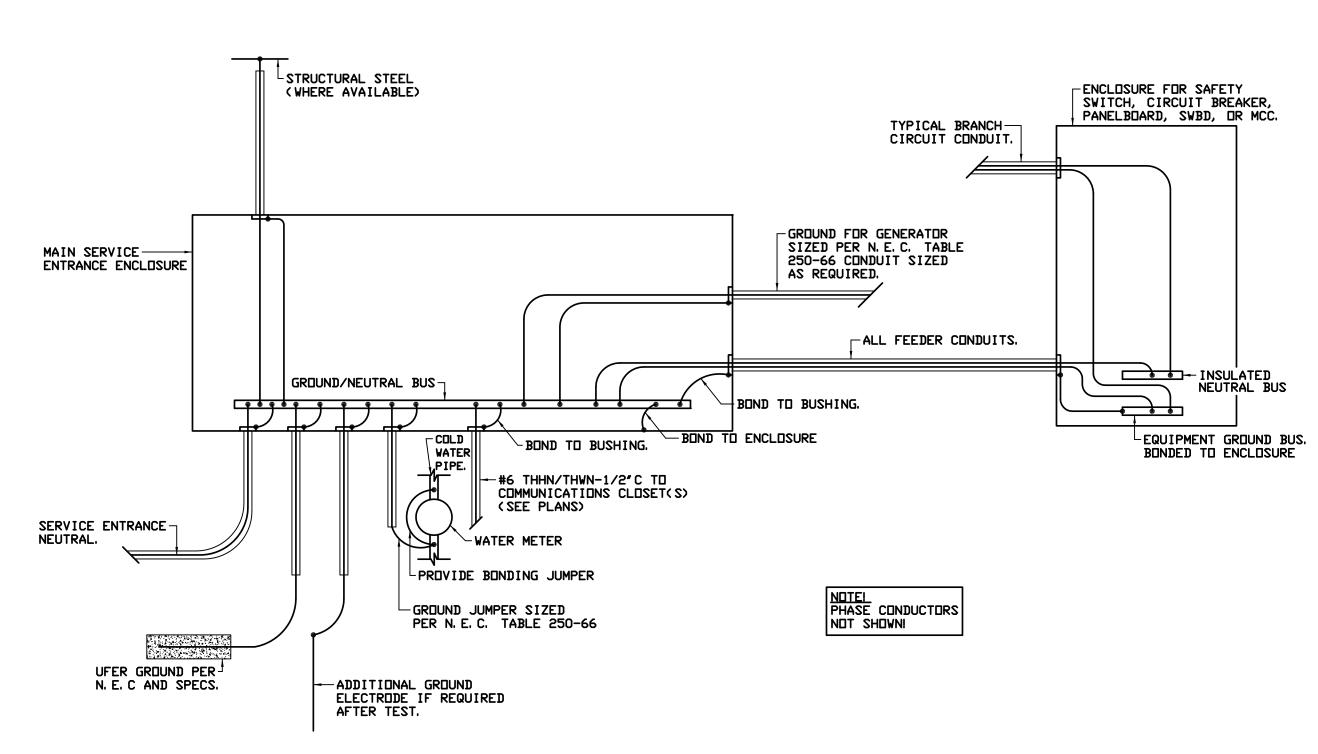
ROOM 210

RELAY PANEL

PANEL "LP2" ROOM 111

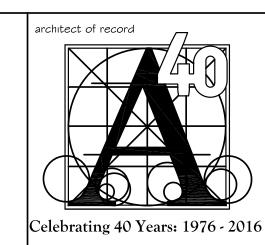
PROVIDE FEED-THRU LUGS.





BUILDING SERVICE ENTRANCE GROUNDING DETAIL

POWER RISER DIAGRAM



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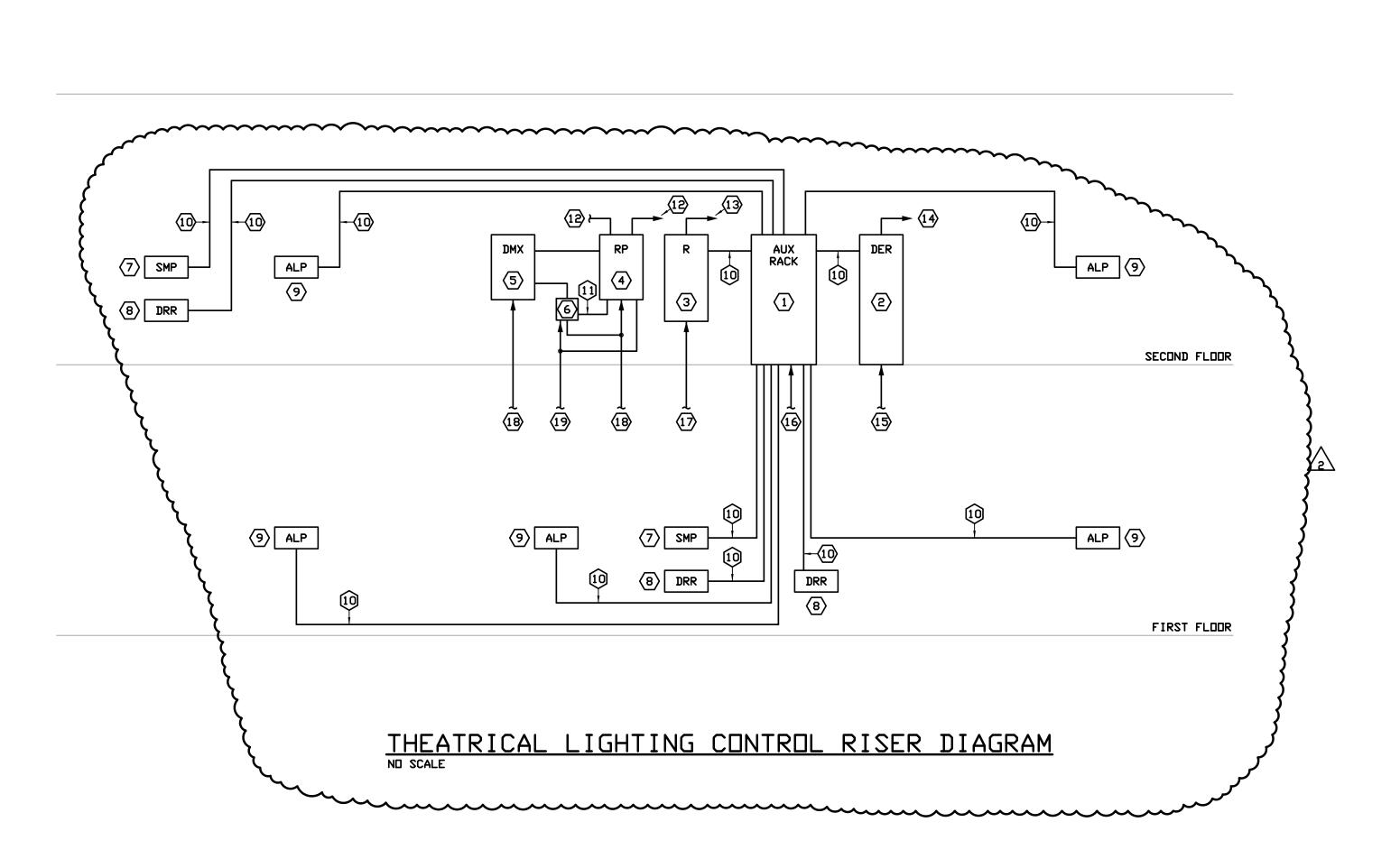
drawn MCH checked BJS | 3-10-17 | ADDENDUM | | 3-15-17 | ADDENDUM 2

9.72

	LOCATION	MOUNTING	MLIUNI LIN	HEIGHT (IN)	DMX I/O	NET I/D	DER CKT	RP CKT	UTILITY CKT	VOLTS	AMPS	POLES	DESCRIPTION	
SMP	CONTROL ROOM	FLUSH	WALL	AC	X	X	-		<b>-</b>	-	-	-	STAGE MANAGER PANEL: 7-INCH TOUCH SCREEN	
SMP	STAGE LEFT	FLUSH	WALL	48	X	X	-	-	-	-	-	-	STAGE MANAGER PANEL: 7-INCH TOUCH SCREEN	
DRR	CONTROL ROOM	FLUSH	WALL	AC	X	X	-	-	LP1-64, 66	120	20	1	DESIGNER'S REMOTE RECEPTACLES	
DRR	STAGE LEFT	FLUSH	WALL	16	X	X	-	-	LP1-56, 58	120	20	1	DESIGNER'S REMOTE RECEPTACLES	+
DRR	HOUSE CONTROL POOM	FLUSH	WALL WALL	STEP RISER COUNTER	X	X	<del>-</del>	<del>-</del>	LP1-60, 62	120	20	1	DESIGNER'S REMOTE RECEPTACLES	+
ALP	UPSTAGE LEFT	FLUSH FLUSH	WALL	48	x	_ x	<u> </u>	-	LP1-45 -	120	20		LIGHTING CONTROL CONSOLE   AUDIENCE LIGHTING PANEL: 7-INCH TOUCH SCREEN	$\overline{}$
ALP	HOUSE LEFT	FLUSH	WALL	48	^ x	x		_	_	_	_	_	AUDIENCE LIGHTING PANEL: 7-INCH TOUCH SCREEN	$\top$
ALP	HOUSE RIGHT	FLUSH	WALL	48	x	X	-	_	_	-	_	_	AUDIENCE LIGHTING PANEL: 7-INCH TOUCH SCREEN	
ALP	BALCONY LEFT	FLUSH	WALL	48	X	X	-	_	-	_	_	_	AUDIENCE LIGHTING PANEL: 7-INCH TOUCH SCREEN	
ALP	BALCONY RIGHT	FLUSH	WALL	48	X	Х	-	-	-	-	-	-	AUDIENCE LIGHTING PANEL: 7-INCH TOUCH SCREEN	
Α	CATWALK 2	SURFACE	RAIL	78	X (2)	X (2)	1 - 17	1, 2, 3	-	120	20	1	60' PLUG STRIP MOUNTED TO CATWALK SUPPORTS	
В	CATWALK 3	SURFACE	RAIL	78	X (2)	X (2)	18 - 29	4, 5, 6	_	120	20	1	50' PLUG STRIP MOUNTED TO CATWALK SUPPORTS	
D	ELECTRIC 1	FLY	RIGGING	-	X (2)	X (2)	38 - 49	12, 13, 14	_	120	20	1	50' PLUG STRIP MOUNTED TO RIGGING. 85' FLEX CABLE.	
D	ELECTRIC 2	FLY	RIGGING	-	X (2)	X (2)	50 - 61	15, 16, 17	-	120	20	1	50' PLUG STRIP MOUNTED TO RIGGING. 85' FLEX CABLE.	
D	ELECTRIC 3	FLY	RIGGING	-	X (5)	X (2)	62 - 73	18, 19, 20	-	120	20	1	50' PLUG STRIP MOUNTED TO RIGGING. 85' FLEX CABLE.	
С	SIDE LITES	FLUSH	WALL	16	X	X	30, 31	7, 7	-	120	20	1	FLUSH PLUG BOX	
С	SIDE LITES	FLUSH	WALL	16	X	X	30, 31	7, 7	-	120	20	1	FLUSH PLUG BOX	
С	SIDE LITES	FLUSH	WALL	16	X	X	32, 33	8, 8	-	120	20	1	FLUSH PLUG BOX	$\rightarrow$
С	SIDE LITES	FLUSH	WALL	16	X	X	32, 33	8, 8	-	120	20	1	FLUSH PLUG BOX	$\dashv$
С	PERFORMANCE DECK	FLUSH	WALL	16	X	X	34	9, 9, 9	_	120	20	1	FLUSH PLUG BOX	$\rightarrow$
С	PERFORMANCE DECK	FLUSH	WALL	16	X	X	34	9, 9, 9	-	120	20	1	FLUSH PLUG BOX	
<u>C</u>	PERFORMANCE DECK	FLUSH	WALL	16	X	X	35	10, 10, 10	_	120	20	1	FLUSH PLUG BOX	-+
<u>C</u>	PERFORMANCE DECK	FLUSH	WALL	16	X	X	35	10, 10, 10	-	120	20	1	FLUSH PLUG BOX	-+
<u>C1</u>	BALK RAIL	SURFACE	RAIL	-	X	X	36	11, 11, 11	-	120	20	1	SURFACE PLUG BOX	
<u>C1</u>	BALK RAIL	SURFACE	RAIL	-	X	X	37	11, 11, 11	-	120	20	1	SURFACE PLUG BOX	-+
C C	STAGE WALL STAGE WALL	FLUSH FLUSH	WALL WALL	16	x x	X	91 92	34, 34, 34 34, 34, 34		120	20	1	FLUSH PLUG BOX FLUSH PLUG BOX	$\overline{}$
C	STAGE WALL	FLUSH	WALL	16	^ x	×	93	35, 35, 35	_	120	20	1	FLUSH PLUG BOX	
C	STAGE WALL	FLUSH	WALL	16	^x	x	94	35, 35, 35	_	120	20	1	FLUSH PLUG BOX	
C	ORCHESTRA PIT	FLUSH	WALL	16	×	x	95	36, 36, 36	_	120	20	1	FLUSH PLUG BOX	$\overline{}$
C	DRCHESTRA PIT	FLUSH	WALL	16	×	x	95	36, 36, 36	_	120	50	1	FLUSH PLUG BOX	
C	ORCHESTRA PIT	FLUSH	WALL	16	x	X	96	37, 37, 37	_	120	50	1	FLUSH PLUG BOX	
С	ORCHESTRA PIT	FLUSH	WALL	16	x	X	96	37, 37, 37	_	120	20	1	FLUSH PLUG BOX	
C1	CATWALK 1	SURFACE	RAIL	78	X	X	-	38, 38, 39, 39	-	120	20	1	SURFACE PLUG BOX	
C1	CATWALK 1	SURFACE	RAIL	78	Х	Х	-	38, 38, 39, 39	-	120	20	1	SURFACE PLUG BEIX	
C1	CATWALK 1	SURFACE	RAIL	78	Х	Х	-	40, 40, 41, 41	-	120	20	1	SURFACE PLUG BEIX	
C1	CATWALK 1	SURFACE	RAIL	78	X	x	-	40, 40, 41, 41	1	120	20	1	SURFACE PLUG BOX	
Ε	SIDE BATTEN	CLAMP-ON	RIGGING	-	X	X	74	21, 21, 21	•	120	20	1	PORTABLE PLUG BOX CONNECTED TO GRID MOUNTED J-BOX	
E	SIDE BATTEN	CLAMP-ON	RIGGING	-	X	X	75	21, 21, 21	_	120	20	1	PORTABLE PLUG BOX CONNECTED TO GRID MOUNTED J-BOX	
Ε	SIDE BATTEN	CLAMP-ON	RIGGING	-	X	X	76	22, 22, 22	-	120	20	1	PORTABLE PLUG BOX CONNECTED TO GRID MOUNTED J-BOX	
E	SIDE BATTEN	CLAMP-ON	RIGGING	-	X	X	77	22, 22, 22	-	120	20	1	PORTABLE PLUG BOX CONNECTED TO GRID MOUNTED J-BOX	
Е	SIDE BATTEN	CLAMP-ON	RIGGING	-	X	X	78	23, 23, 23	-	120	20	1	PORTABLE PLUG BOX CONNECTED TO GRID MOUNTED J-BOX	
E	SIDE BATTEN	CLAMP-ON	RIGGING	-	X	X	79	23, 23, 23	-	120	20	1	PORTABLE PLUG BOX CONNECTED TO GRID MOUNTED J-BOX	
E	SIDE BATTEN	CLAMP-ON	RIGGING	-	X	X	80	24, 24, 24	-	120	20	1	PORTABLE PLUG BOX CONNECTED TO GRID MOUNTED J-BOX	
E	SIDE BATTEN	CLAMP-ON	RIGGING	-	X	X	81	24, 24, 24	-	120	20	1	PORTABLE PLUG BOX CONNECTED TO GRID MOUNTED J-BOX	$\longrightarrow$
<u>E</u>	GRID	CLAMP-ON	RIGGING	-	X	X	82	25, 25, 25	<del>-</del>	120	20	1	PORTABLE PLUG BOX CONNECTED TO GRID MOUNTED J-BOX	
<u>E</u>	GRID	CLAMP-ON	RIGGING	-	X	X	82	25, 25, 25	_	120	20	1	PORTABLE PLUG BOX CONNECTED TO GRID MOUNTED J-BOX	
<u>E</u>	GRID	CLAMP-ON	RIGGING	-	X	X	83	26, 26, 26	_	120	20	1 .	PORTABLE PLUG BOX CONNECTED TO GRID MOUNTED J-BOX	
<u>E</u>	GRID	CLAMP-ON	RIGGING	-	X	X	83	26, 26, 26	-	120	20	1	PORTABLE PLUG BOX CONNECTED TO GRID MOUNTED J-BOX PORTABLE PLUG BOX CONNECTED TO GRID MOUNTED J-BOX	-
<u>Е</u> Е	GRID GRID	CLAMP-UN	RIGGING RIGGING	_	X X	X	84 84	27, 27, 27 27, 27, 27		120	20 20	1	PORTABLE PLUG BOX CONNECTED TO GRID MOUNTED J-BOX	
E	GRID	CLAMP-ON	RIGGING	_	×	x	85	28, 28, 28	_	120	20	1	PORTABLE PLUG BOX CONNECTED TO GRID MOUNTED J-BOX	
E	GRID	CLAMP-ON	RIGGING	_	^ x	×	<u> </u>	28, 28, 28	_	120	20	1	PORTABLE PLUG BOX CONNECTED TO GRID MOUNTED J-BOX	
E	GRID	CLAMP-ON	RIGGING	_	×	×	86	29, 29, 29	<u> </u>	120	20	1	PORTABLE PLUG BOX CONNECTED TO GRID MOUNTED J-BOX	
E	GRID	CLAMP-ON	RIGGING	_	X	X	86	29, 29, 29	-	120	20	1	PORTABLE PLUG BOX CONNECTED TO GRID MOUNTED J-BOX	
E	GRID	CLAMP-ON	RIGGING	-	X	x	87	30, 30, 30	-	120	20	1	PORTABLE PLUG BOX CONNECTED TO GRID MOUNTED J-BOX	
E	GRID	CLAMP-ON	RIGGING	-	×	x	87	30, 30, 30	-	120	50	1	PORTABLE PLUG BOX CONNECTED TO GRID MOUNTED J-BOX	
E	GRID	CLAMP-ON	RIGGING	-	X	X	88	31, 31, 31	-	120	20	1	PORTABLE PLUG BOX CONNECTED TO GRID MOUNTED J-BOX	
E	GRID	CLAMP-ON	RIGGING	-	x	х	88	31, 31, 31	-	120	20	1	PORTABLE PLUG BOX CONNECTED TO GRID MOUNTED J-BOX	
E	GRID	CLAMP-ON	RIGGING	-	X	X	89	32, 32, 32	_	120	20	1	PORTABLE PLUG BOX CONNECTED TO GRID MOUNTED J-BOX	
Ε	GRID	CLAMP-ON	RIGGING	-	X	х	89	32, 32, 32	-	120	20	1	PORTABLE PLUG BOX CONNECTED TO GRID MOUNTED J-BOX	

	ELECTRICAL NOTES
TES	1. AUXILIARY EQUIPMENT RACK. CONTAINS THE SYSTEM CONTROL UNIT, POE SWITCHES, NETWORK GATEWAYS, CABLE MANAGEMENT PANELS AND UPS. SEE SPECIFICATIONS.
	2. THEATRICAL LIGHTING DIMMING EQUIPMENT RACK 'DER' (MLD). CAPABLE OF DIMMING UP TO NINETY-SIX (96) 120V, 20A/1P CIRCUITS. SEE SPECIFICATIONS.
	3. THEATRICAL LIGHTING RELAY PANEL "R" (MLD). CAPABLE OF CONTROLLING POWER FOR UP TO FORTY-EIGHT (48) 120V, 20A/1P CIRCUITS. SEE SPECIFICATIONS.
	4. HOUSE LIGHTING FEED-THRU RELAY PANEL "RP" (ETC ERP24-FT12-NET-LVD). CAPABLE OF CONTROLLING POWER FOR UP TO TWENTY-FOUR (12) 277V, 20A/1P CIRCUITS. SEE SPECIFICATIONS.
	5. DMX EMERGENCY BYPASS CONTROLLER (ETC DEBC-6).
	6. EMERGENCY BYPASS DETECTION KIT. SEE SPECIFICATIONS.
	7. STAGE MANAGER PANEL "SMP". 7-INCH TOUCH SCREEN, SEE SPECIFICATIONS.
	8. DESIGNER'S REMOTE RECEPTACLE2 'DRR'. INCLUDES DMX/NETWORK INPUTS/OUTPUTS AND TWO (2) DUPLEX RECEPTACLES. SEE SPECIFICATIONS.
	9. AUDIENCE LIGHTING PANEL 'ALP' FOR MANUAL CONTROL OF HOUSE/CIRCULATION LIGHTING, 7-INCH TOUCH SCREEN, SEE SPECIFICATIONS.
	10. CONTROL NETWORK CABLING. BELDEN #1583A (CAT 5 SPECIFICATIONS). SEE MANUFACTURE'S INSTALLATION SHOP DRAWINGS FOR QUANTITY/CONFIGURATION. SEE SPECIFICATIONS.
	11. NORMAL POWER SENSE FEED.
	12. UP TO TWELVE (12) 277V, 20A/1P, FEED-THRU NORMAL AND EMERGENCY HOUSE LIGHTING CIRCUITS.
	13. UP TO FORTY-EIGHT (48) 120V, 20A/1P THEATRICAL LIGHTING RELAY CIRCUITS.
	14. UP TO NINETY-SIX (96) 120V, 20A/1P THEATRICAL LIGHTING DIMMING CIRCUITS.
	15. 400A, 208/120V, 3PH, 4W FEEDER FROM PANEL "LP1".
	16. 20A, 120V, 1PH, 2W BRANCH CIRCUIT FROM PANEL "LP1".
	17. 100A, 208/120V, 3PH, 4W FEEDER FROM PANEL "LP1".
	18. 20A, 12OV, 1PH, 2W BRANCH CIRCUIT FROM PANEL "EL".
	19. 20A, 277V, 1PH, 2W BRANCH CIRCUIT FROM PANEL "EH".

20. 30A, 480/277V, 3PH, 4W FEEDER FROM PANEL "EH".



Sioux Falls, South Dakota 57101 Phone: (605) 339-1711 815 St Joseph Street, Suite 203 P.O. Box 8047 Rapid City, South Dakota 57701 Phone: (605) 721-1158 **A**ssociated Consulting Engineering, Incorporated 340 S. Phillips Ave. Sioux Falls, S.D. 57104 (605) 335-3720 Fax 335-6220 F-mail acei@aceinet.com CENTER **DETAILS** ARTS

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Sheet contents

THEATRICAL LIGHTING DETAILS

number | 116083 | date | 3-3-17 | revision |

MCH checked BJS

NO. DATE DESCRIPTION

I 3-10-17 ADDENDUM I

I 3-15-17 ADDENDUM 2