RICHARDSON HIGH SCHOOL RICHARDSON, TEXAS JOB #15027855

				INDEX OF	DRAWING	S		···		
DRAWING	RELE B	ASE C	REVISION	DRAWING DESCRIPTION	DRAWING		EASE C	REVISION	DRAWING DESCRIP	TION
15027855-00A			С	TITLE PAGE / DRAWING INDEX (PAGE 2 OF 2)	15027855–16			В	ETCNet GRIDIRON JUNCTION BOX	- PHYSICAL
15027855-01			А	PROJECT NOTES	15027855-17			В	1st THRU 4th ELECTRIC CONNECTOR STRIP	- PHYSICAL
15027855-02			С	SYSTEM RISER	15027855-18			В	ETCNet DATA PANEL	_ PHYSICAL & ELECTRICAL
15027855-03			В	DISTRIBUTION RISER	15027855-19			В	9103B OUTLET BOX	- PHYSICAL
15027855-04			С	DMX & UNISON CONTROL WIRING DIAGRAMS	15027855-20			В	8503B/1A FLOOR POCKET	- PHYSICAL
15027855-05			С	ETCNet CONTROL WIRING DIAGRAM	15027855-21				DRAWING DELETED	
15027855-06			Α	SENSOR3 SR3-48 (FRONT/SIDE VIEWS) - PHYSICAL DIMMER BANK	15027855-22			А	WALL-MOUNTABLE EQUIPMENT RACK	- PHYSICAL
15027855-07			Α	SENSOR3 SR3-48 (MODULES REMOVED) - PHYSICAL	15027855-23			В	WALL-MOUNTABLE EQUIPMENT RACK	- ELECTRICAL
15027855-08			Α	SENSOR3 SR3-48 - ELECTRICAL DIMMER RACK	15027855-24			А	RETRACTABLE LIGHT PANEL	- PHYSICAL
15027855-09			А	SENSOR3 SR3-12 - PHYSICAL WALL-MOUNTED DIMMER RACK	15027855-25			А	UNISON ERn2 ARCHITECTURAL CONTROL UNIT	- PHYSICAL
15027855-10	. 🗆		А	SENSOR3 SR3-12 - ELECTRICAL WALL-MOUNTED DIMMER RACK	15027855-26			А	UNISON ERn2 ARCHITECTURAL CONTROL UNIT	- ELECTRICAL
15027855-11			В	SENSOR3 (BILL-OF-MATERIALS) - PHYSICAL DIMMER RACK	15027855–27			Α	24-PORT ETHERNET PATCH PANEL	- PHYSICAL
15027855-12			В	DR-1 LOAD SCHEDULÉ	15027855-28			А	FLOOR POCKET LED POWER SUPPLY	_ PHYSICAL & ELECTRICAL
15027855-13			В	DR-2 LOAD SCHEDULE	15027855-29			Α	BRUSH PANEL 2U	- PHYSICAL
15027855–14			Α	DR-3 LOAD SCHEDULE	15027855-30			Α	24-PORT ETHERNET SWITCH WITH POE	- PHYSICAL
15027855–15			В	9735 - PHYSICAL GRIDIRON JUNCTION BOX	15027855-31			Α	CISCO REDUNDANT POWER SYSTEM 2300	- PHYSICAL

IMPORTANT:

PLEASE NOTE THE FOLLOWING INFORMATION:

THE PROJECT MANAGER FOR THIS SYSTEM IS TOM JELLINGS.

ANY QUESTIONS CONCERNING THIS SYSTEM SHOULD BE DIRECTED TO THE PROJECT MANAGER WHO CAN BE REACHED AT OUR FACTORY:

THE TOLL FREE NUMBER IS: 1-800-688-4116
THE FACTORY NUMBER IS: 608-831-4116
THE FAX NUMBER IS: 608-836-1736

FOR SYSTEM ENERGIZATION, CONTACT THE PROJECT MANAGER AT LEAST THREE WEEKS PRIOR TO YOUR REQUESTED DATE.

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RICHARDSON HIGH SCHOOL ANTRACT WITH: RICHARDSON, TEXAS NTRACT WITH: RESENTATIVE: RICHARDSON, TEXAS RICHAR	13 TJ/MP JOB: RICHARDSON HIGH SCHOOL LOCATION: RICHARDSON, TEXAS CONTRACT WITH: TEXAS SCENIC COMPANY REPRESENTATIVE: SPECTRUM LIGHTING REV. TITLE: TITLE PAGE / DRAWING INDEX (PAGE 1 OF 2) INDEX.DWG	TJ/MP JOB: RICHARDSON HIGH SCHOOL TJ/MP LOCATION: RICHARDSON, TEXAS TJ/MP CONTRACT WITH: TEXAS SCENIC COMPANY APPO. SPECTRUM LIGHTING REV. TITLE: TITLE PAGE / DRAWING INDEX (PAGE 1 OF 2) INDEX.DWG INDEX.DWG
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RICHARDSON HIGH SCHOOL RICHARDSON, TEXAS JOB #15027855

		//	IDEX O	F DRAWINGS	
DRAWING	RELE B	ASE C	REVISION	DRAWING DESCRIP	TION
15027855-32			А	Net3 4-PORT GATEWAY	- PHYSICAL
15027855-33			Α	DEMULTIPLEXER/ OPTO PANEL	- PHYSICAL
15027855-34			Α	DEMULTIPLEXER/ OPTO PANEL	- ELECTRICAL
15027855-35			Α	UNINTERRUPTIBLE POWER SUPPLY	- PHYSICAL
15027855-36			А	SMP EQUIPMENT RACK	- PHYSICAL
15027855-37			А	SMP EQUIPMENT RACK	- ELECTRICAL
15027855-38			А	RETRACTABLE LIGHT PANEL	- PHYSICAL
15027855-39			Α	PLCD/Net PARADIGM TOUCHSCREEN	_ PHYSICAL & ELECTRICAL
15027855-40			А	UNINTERRUPTIBLE POWER SUPPLY	- PHYSICAL
15027855-41			В	IDX CONTROL STATION	_ PHYSICAL & ELECTRICAL
15027855-42			Α	UNISON UH10010 PRESET STATION	_ PHYSICAL & ELECTRICAL
15027855-43			Α	UNISON P-LCD-P PORTABLE PARADIGM TOUCHSCREEN	- PHYSICAL
15027855-44			В	ECPB-ETCNet PLUG-IN STATION	_ PHYSICAL & ELECTRICAL
15027855-45			В	CRS PLUG-IN STATION	_ PHYSICAL & ELECTRICAL
15027855-46			В	DIRECTOR'S FLOOR POCKET	_ PHYSICAL & ELECTRICAL
15027855-47			В	ETCNet LAMICOID LABEL	- PHYSICAL
15027855-48			Α	ION 2000 CONTROL CONSOLE	- PHYSICAL
15027855-49			Α	UNIVERSAL 2x20 FADER WING	- PHYSICAL
15027855-50			Α	Net3 RFR RADIO FOCUS REMOTE	- PHYSICAL
15027855-51			Α	NET3 2-PORT OUTPUT TOURING GATEWAY	- PHYSICAL
15027855-52			Α	NET3 2-PORT INPUT TOURING GATEWAY	- PHYSICAL

PROJECT NOTES

SECTION 1 - CONTACTS:

CONTRACT WITH:

Texas Scenic Company 5423 Jackwood Drive San Antonio, Texas 78238 Tel: 800-292-7490 Fax: 210-684-4557

REPRESENTATIVE:

Spectrum Lighting 7810 Jones Maltsberger Road San Antonio, Texas 78216 Tel: 210-822-6140 Fax: 210-822-5367

CONSULTANT:

Wrightson, Johnson, Haddon & Williams 12500 Network Boulevard Suite 402 San Antonio, Texas 78249 Tel: 210-561-9800 Fax: 210-561-9810

DIMMING MANUFACTURER:

Electronic Theatre Controls, Inc. 3031 Pleasant View Road P.O. Box 620979 Middleton, Wisconsin, U.S.A. 53562 Tel: 800-688-4116 Fax: 608-836-1736

PROJECT MANAGER:

Tom Jellings
Direct Tel: 888-908-2143
E-mail: tom.jellings@etcconnect.com

SECTION 2 - GENERAL NOTES:

- A.) Dimmer Rack generates approximately 4% of connected load as heat output. Dimmer Room must have climate control. Maintain between 32 degrees Fahrenheit (0 degrees Centigrade) to 104 degrees Fahrenheit (40 degrees Centigrade), humidity between 30%—95%, non-condensing and an altitude below 6500 feet (2000 meters). Consult ETC for installations above 6500 feet (2000 meters).
- B.) Dimmer Rack requires a minimum of 10" top clearance for proper air ventilation. The Dimmer System also requires a minimum of 6" clearance on the left side to allow door—swing for proper module insertion/removal.
- C.) Only the following Control Wiring substitutions may be used:
 (All network connections to be terminated per TIA/EIA 568B standards.)

Alpha 6076C (6 pair) Carol C0912 ProPlex PC248T West Penn DA2404S Belden 9729:
Carol CO910
ProPlex PC244T
West Penn DA2402

Alpha 1899C Belden 5200UE Carol C2405 West Penn 225 Belden 1583A:
Comm Scope 5504
West Penn 4245
Cat 5 or better

Plenum Versions (when required)

Belden 89728 Be Manhattan M42893 Be

Belden 89729 Belden 82729 West Penn DA252402 Manhattan M42891 Belden 6200UE Belden 1585A West Penn 254245

- D.) Please contact Electronic Theatre Controls, Inc. if deviations from the control riser are necessary.
- E.) ETC, Inc. Distribution Equipment Wire Range:
 All data connection terminals: 22 10 AWG.
 All 20A terminal blocks: 22 8 AWG.
- F.) Load circuit wiring shall have individual neutrals.
- G.) Sensor and Unison Dimming Rack Load Terminations are provided as follows: 50A, 20A, 15A, 10A . . . 4 AWG. Max. 100A 2/Ø Max.
- H.) Line Feeds to be determined by others.
- I.) Primary Feed Terminations are provided as follows:

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All feeder and branch circuit conductors terminating in Sensor dimmer racks must be copper. Utilize 90°C stranded conductors at 75°C ampacity limits specified by the National Electrical Code. For conductor sizing and conduit fill, all branch circuit and feeder neutrals shall be considered current carrying conductors.

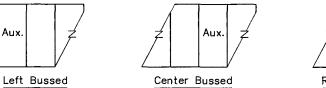
- J.) GFI Load Wiring Requirements:
 - Type XHHW wiring recommended
 - Up to 125' (38.1 meters) load wiring length
 - Load and neutral wires for each circuit installed in same conduit
 - No ganging of neutral (return) wires at any point
- K.) ETC recommends that all flourescent lamps be pre—burned for 100 hours at full. It is our experience that fluorescent lamps will dim correctly and perform for longer hours if this is followed. Shorter periods of burn in may reduce dimming effectiveness and increase the lamp failure rate.

L.) Sensor Auxiliary Rack Feed Terminations are as follows:

Aux. E	Bay Configuration:	Wire Max. Size Per Phase:	Wire Max. Size For Neutral:
Main Lugs	800A. Max. (19" and 30")	2 Conductors 600MCM Max.	2 Conductors 600MCM Max.
	1000–2000A. (30" only)	6 Conductors 600MCM Max.	6 Conductors 600MCM Max.
65K AIC MCB	300–400A. (19" only)	2 Conductors 500MCM Max.	2 Conductors 600MCM Max.
	600A. (19" and 30")	3 Conductors 500MCM Max.	2 Conductors 600MCM Max.
	800A. (19" and 30")	4 Conductors 500MCM Max.	2 Conductors 600MCM Max.

(MCB = Main Circuit Breaker AIC = Amps Interrupt Current)

Please contact Electronic Theatre Controls, Inc. if requirements vary from above listing.





SECTION 3 - SYSTEM ENERGIZATION

NOTIFICATION:

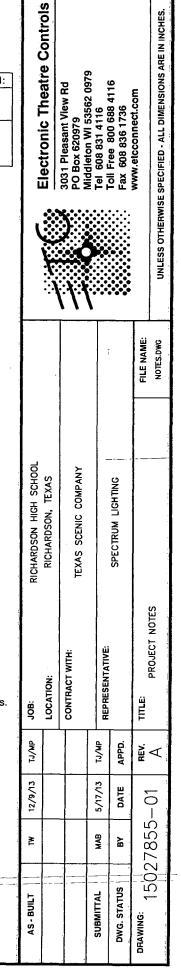
- 1.) Please notify ETC Project Management three weeks prior to needing a system energization.
- 2.) No part of this system shall be energized without the knowledge of Electronic Theatre Controls, Inc.

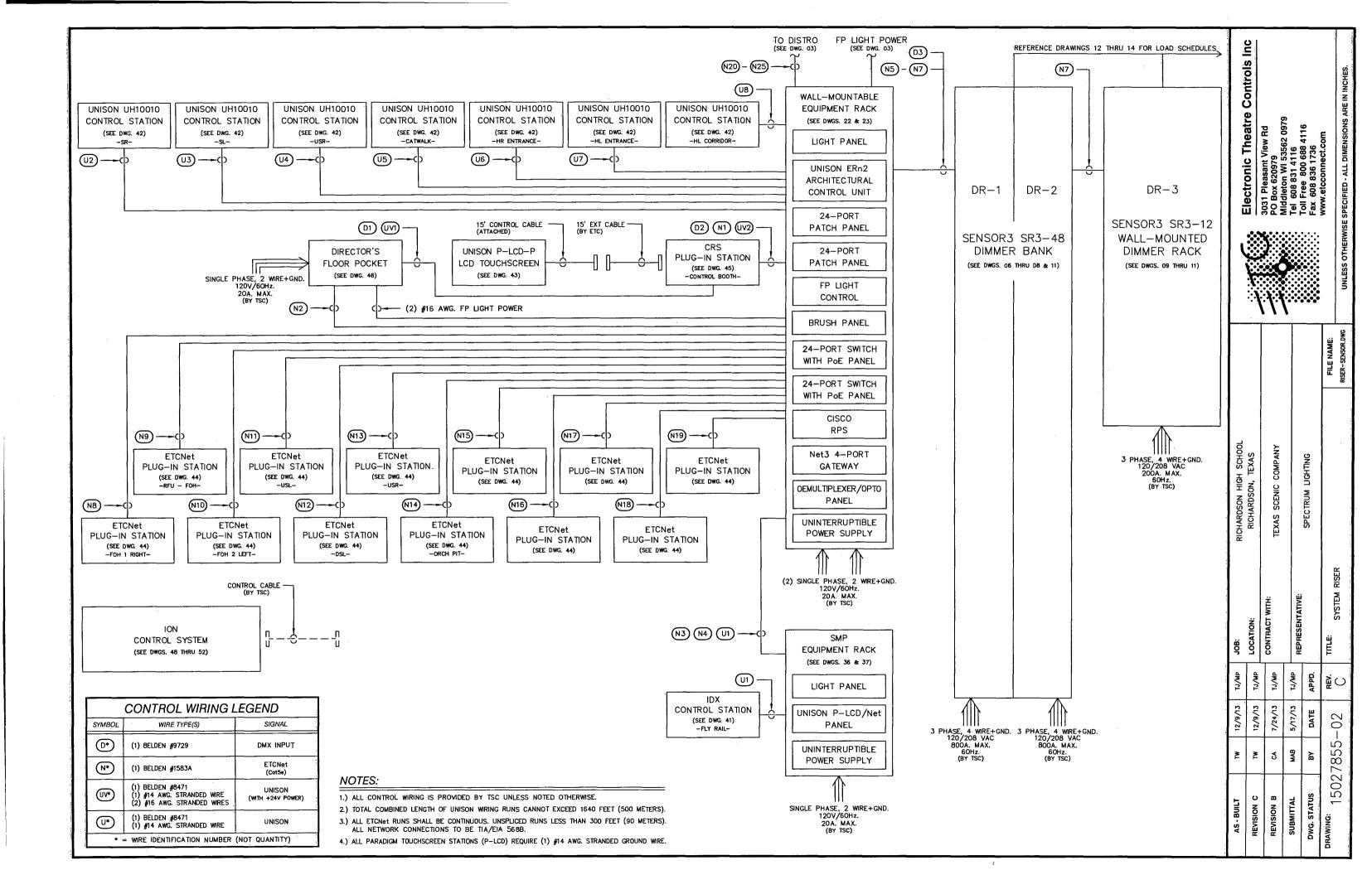
ETC CONTRACTOR CHECKLIST:

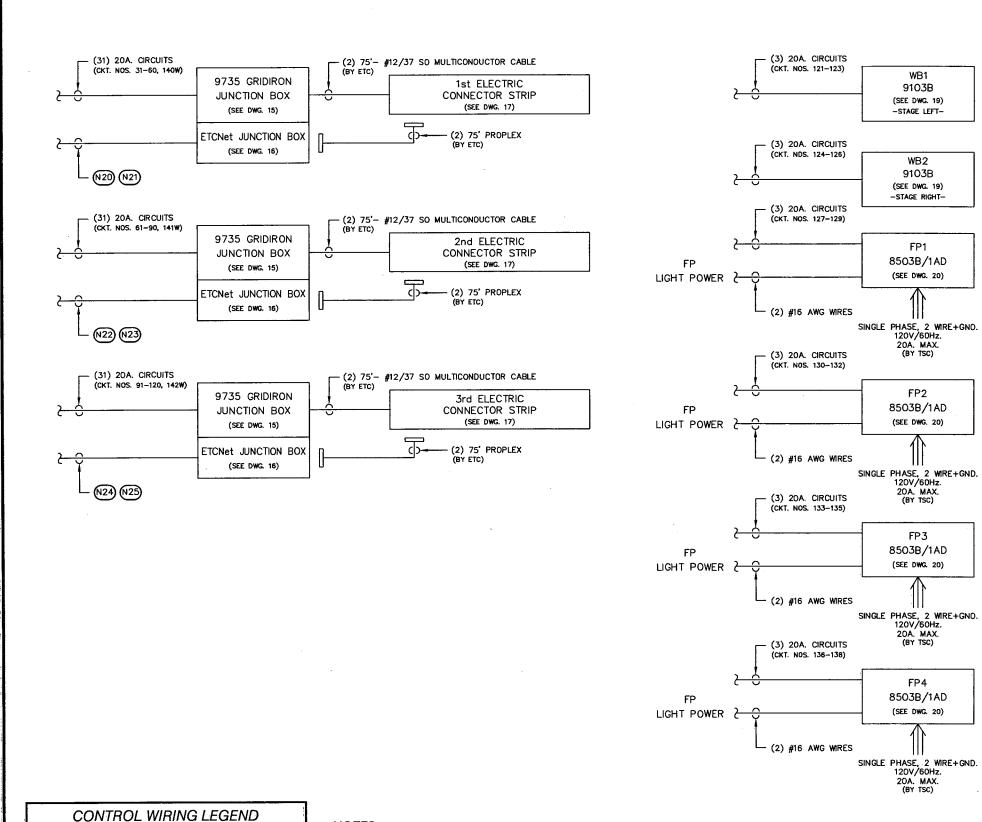
If a System Energization is included with the purchase of the system, the following checklist notes the conditions that must be met before the Field Service Technician can commission the system. Please review the checklist with the Installing Contractor.

These items MUST be completed before the ETC Field Service Technician arrives at the site!

- Feeder cable is terminated and enter through the top or bottom of dimmer rack(s).
- Dimmer rack(s) have sufficient access to the front and left for door clearance.
- Dimmer rack(s) have ten inches of unobstructed clearance above the fan(s).
- Dimmer rack(s) are rigidly attached to the mounting surface.
- All air gaps in the dimmer rack(s) around feeder, load wiring, and between racks are sealed, (e.g. — duct seal or foam) making each dimmer rack section an air—tight enclosure.
- All branched circuits originating from the dimmer(s) are installed and terminated on both ends.
- All branched circuits are installed in back boxes as specified in drawings.
- If system was sold as 'Contractor Termination' all data terminations should be completed.
- All back boxes are mounted and supplied with specified data cable "tails" at least 3 feet in length.
- Control cable is proper type as specified on ETC's installation drawings.
- When using CAT5 for DMX, the cable must be run through grounded conduit.
- All control wiring runs are installed as specified on ETC's installation drawings.
- All control cable is labeled at BOTH ends as specified on the ETC drawings.
- · All appropriate personnel are scheduled and available for training.
- All loads have separate neutrals.







Electronic Theatre Controls In	3031 Pleasant View Rd PO Box 620979	Tel 608 831 4116	IOII Free 800 688 4116 Fax 608 836 1736	www.etcconnect.com	UNLESS DTHERWISE SPECIFIED - ALL DIMENSIONS ARE IN INCHES.
				FILE NAME:	RISER-SENSOR.DWG
RICHARDSON HIGH SCHOOL RICHARDSON, TEXAS	ST WITH: TEXAS SCENIC COMPANY	REPRESENTATIVE	SPECTRUM LIGHTING	The state of the s	USINIBUTION KISEK
12/9/13 TJ/MP JOB: LOCATION:	CONTRACT WITH:	1		/. TITLE:	
13	13 TJ/MP	13 TJ/MP	E APPD.	REV.	n
	7/24/13	5/17/13	DATE	20	
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AS - BUILT	REVISION B	SUBMITTAL	DWG. STATUS	DRAWING: 150	00-

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NOTES:

ETCNet

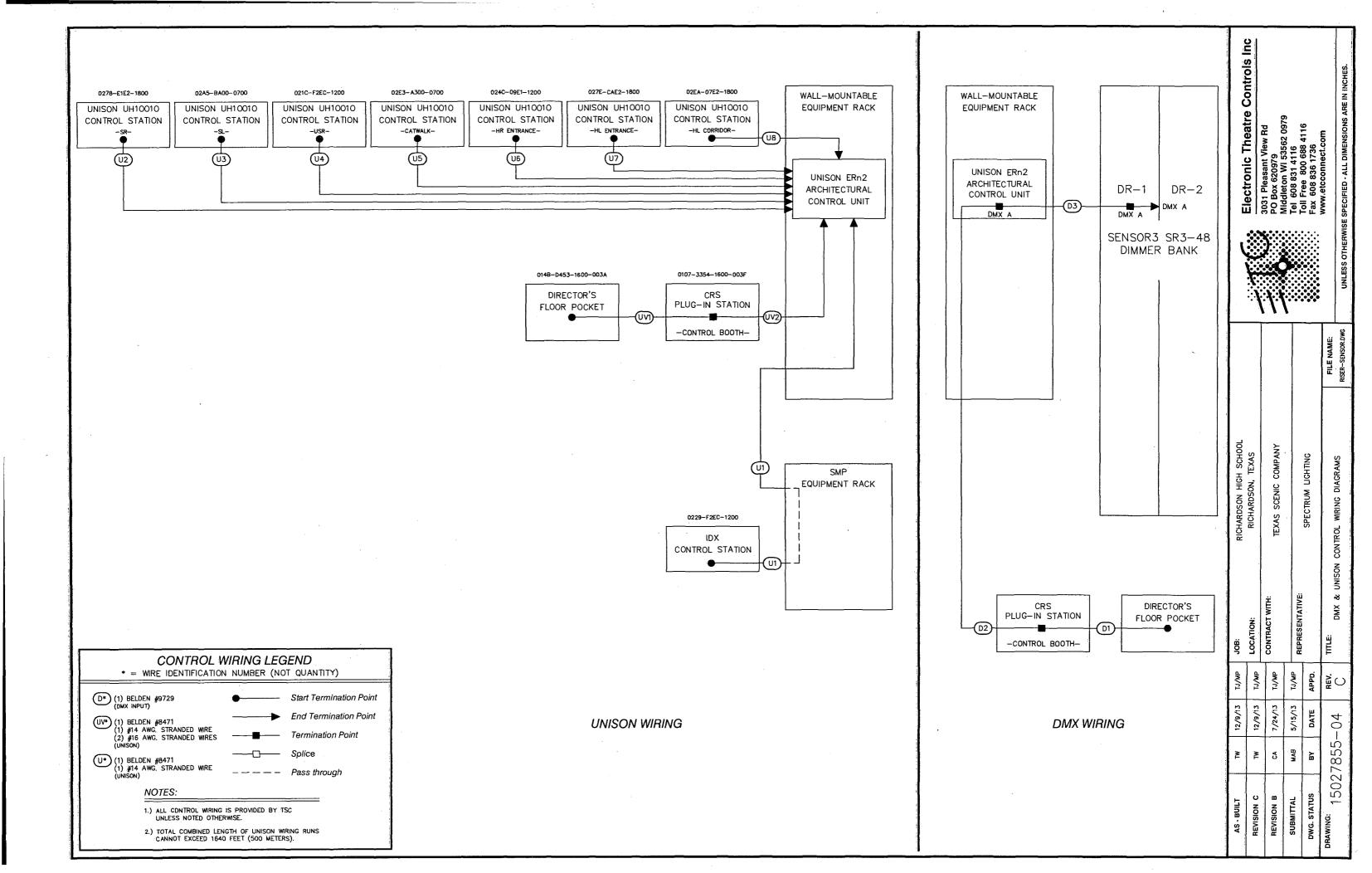
SYMBOL :

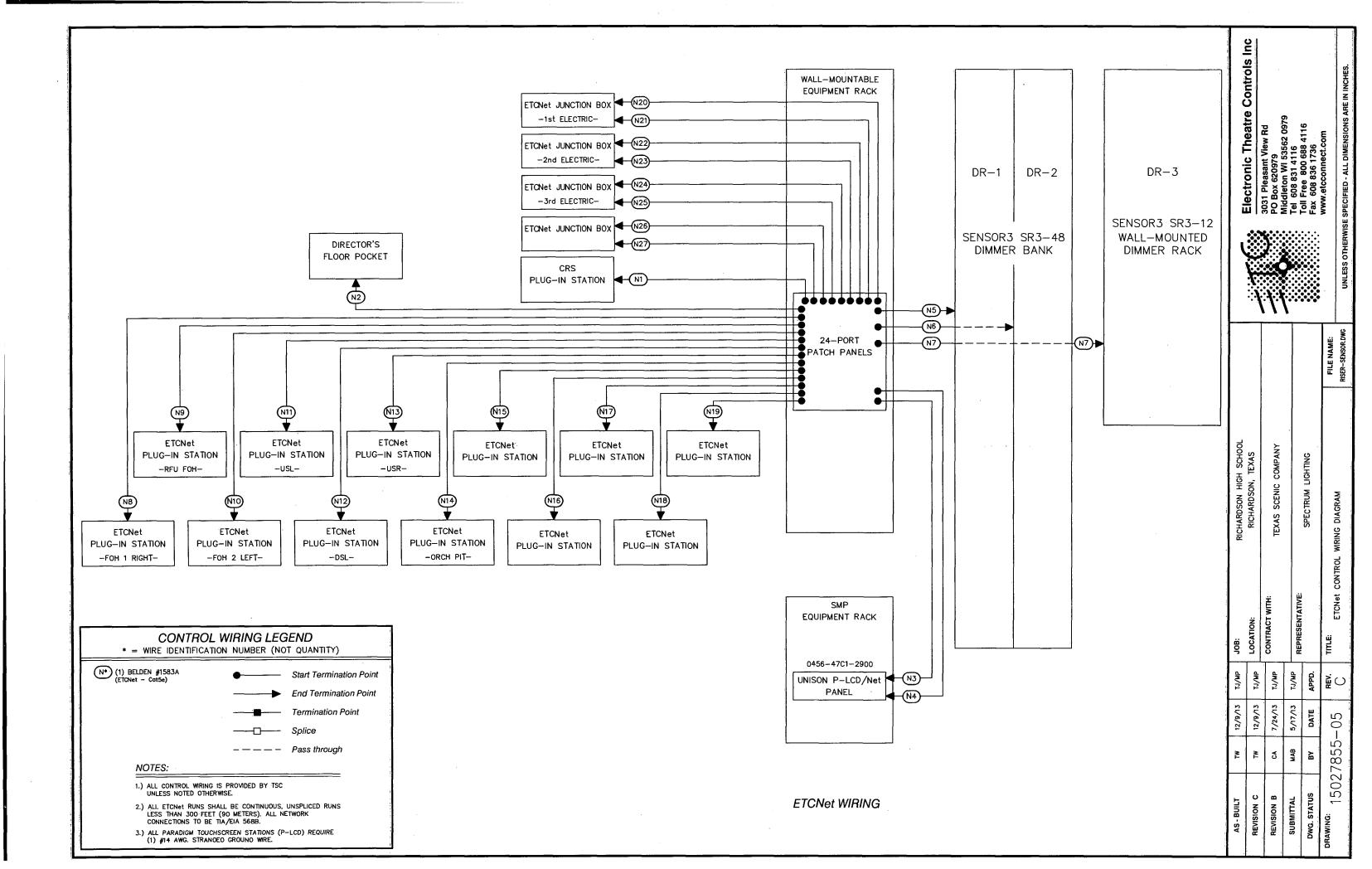
WIRE TYPE(S)

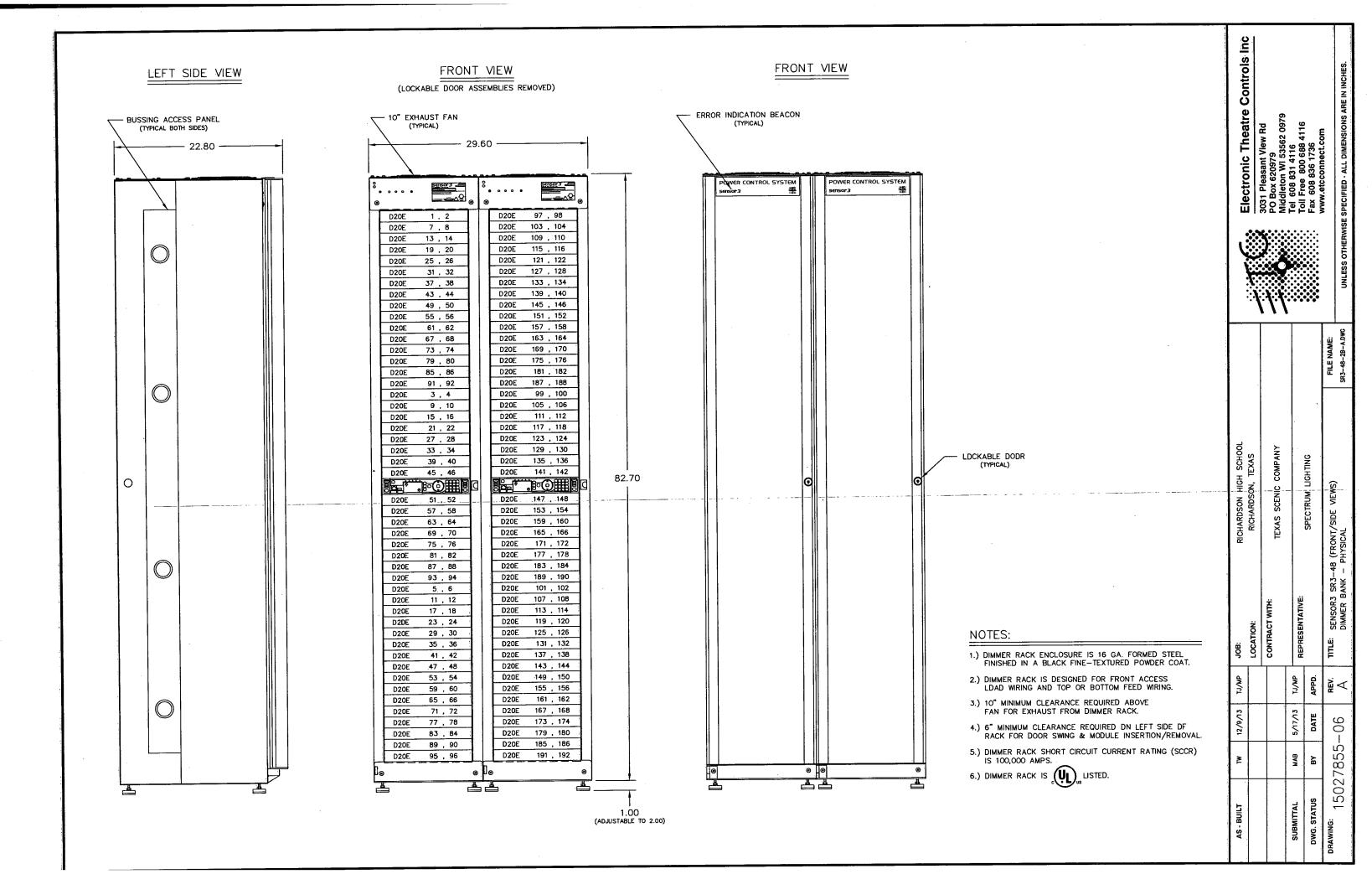
* = WIRE IDENTIFICATION NUMBER (NOT QUANTITY)

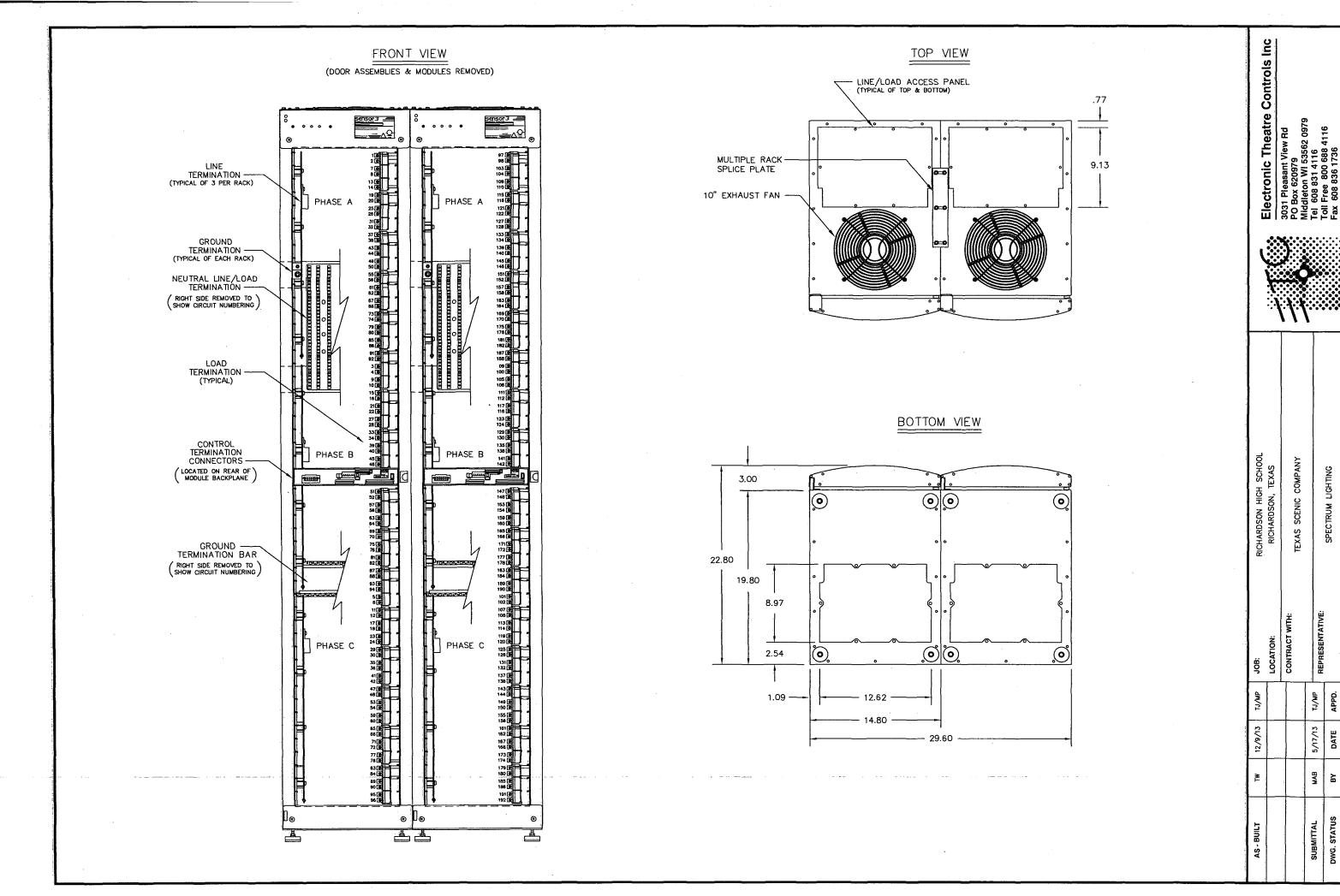
(1) BELDEN #1583A

- 1.) ALL CONTROL WIRING IS PROVIDED BY TSC UNLESS NOTEO OTHERWISE.
- ALL ETCNet RUNS SHALL BE CONTINUOUS. UNSPUCED RUNS LESS THAN 300 FEET (90 METERS). ALL NETWORK CONNECTIONS TO BE TIA/EIA 568B.
- 3.) Z INDICATES TO CONTROL RISER (SEE OWG. 02) UNLESS NOTEO OTHERWISE.







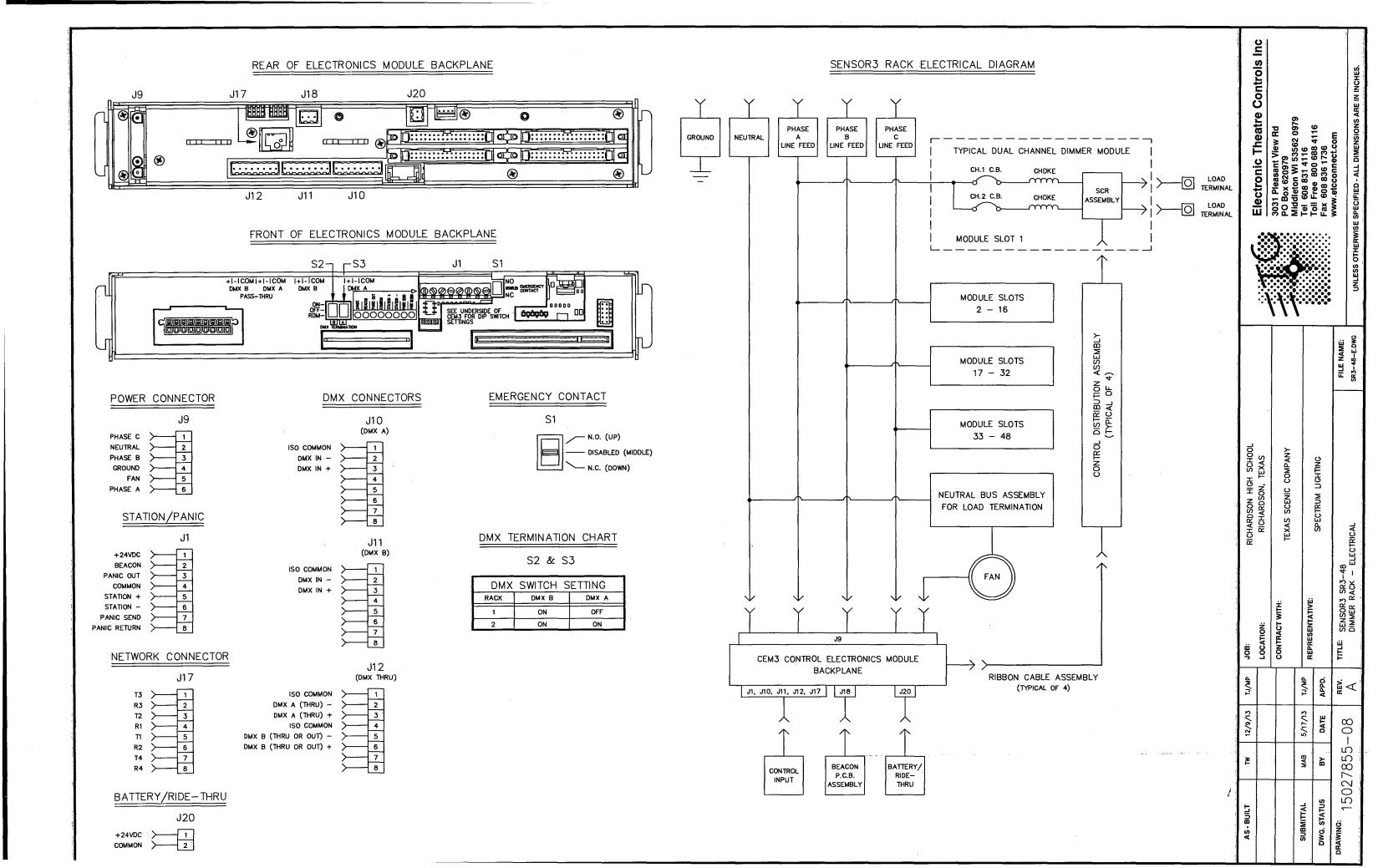


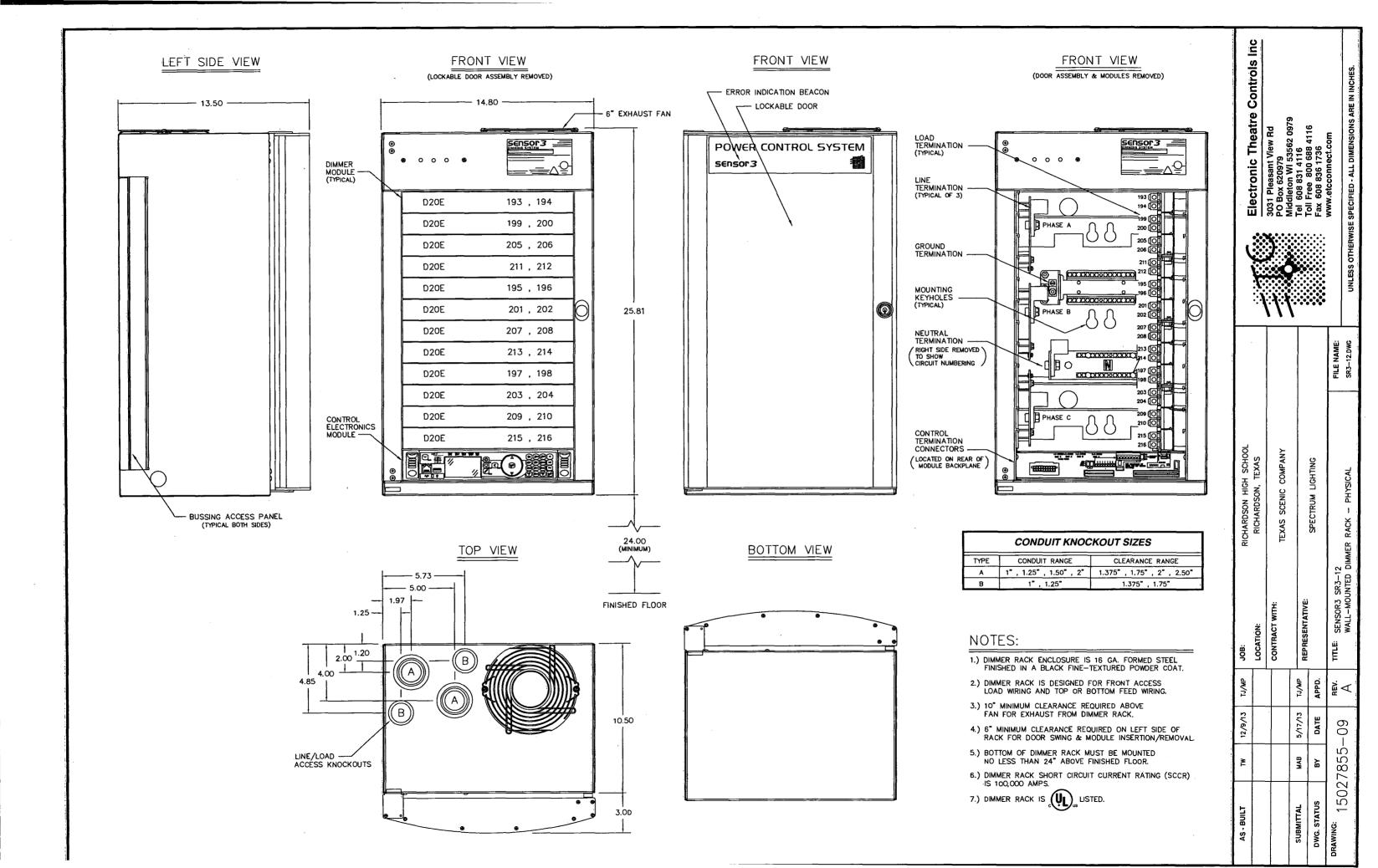
SENSOR3 SR3-48 (MODULES REMOVED) DIMMER BANK - PHYSICAL

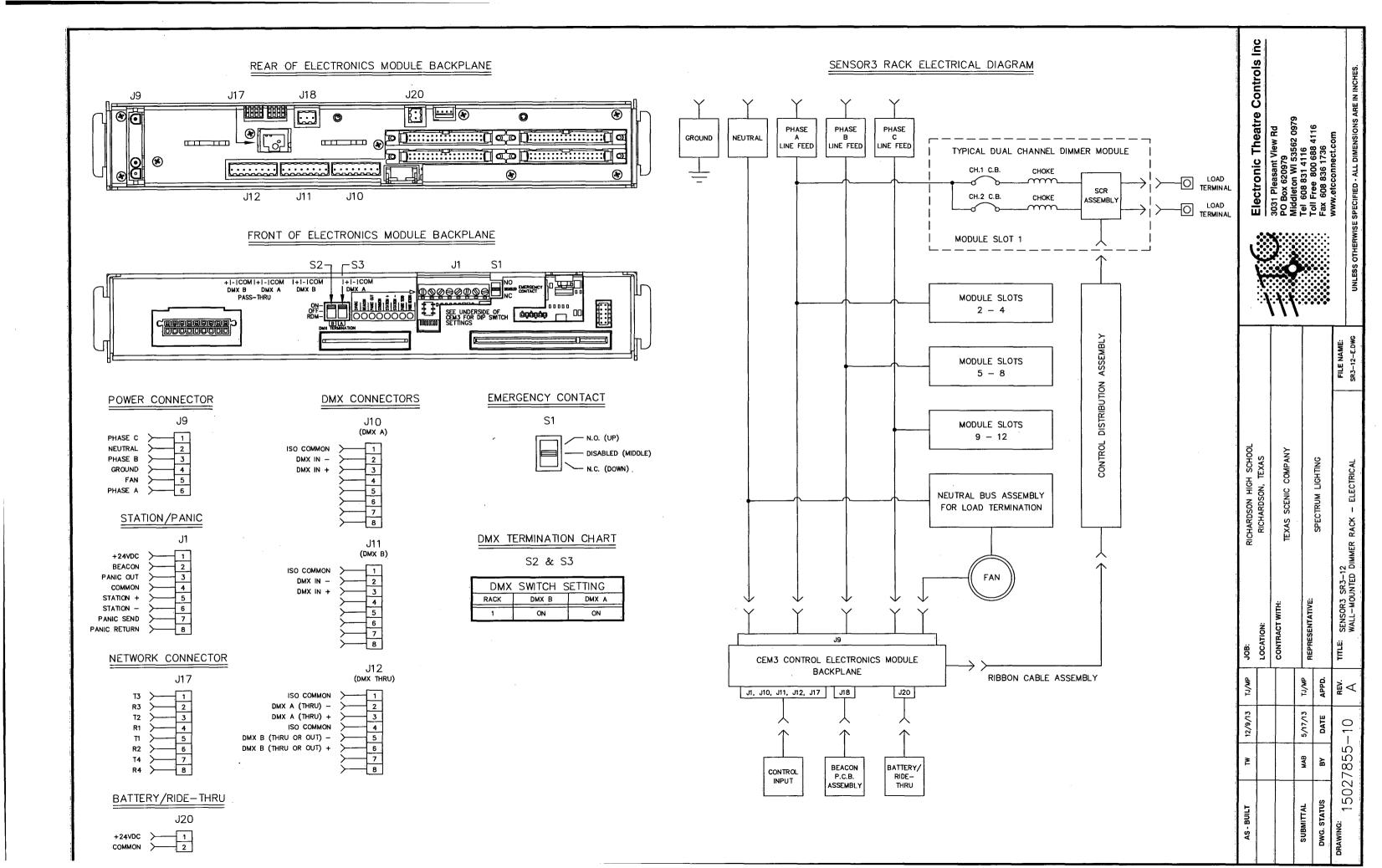
TITLE

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М	QTY.	DESCRIPTION	DESIGNATION	PART NUMBER
	1	SENSOR3 SR3-12 WALL-MOUNTED DIMMER RACK, BLACK		7141A1001-4
1	2	SENSOR3 SR3-48 DIMMER RACK, BLACK		7141A1005-4
	- 1	SENSOR3 SR12 DIMMER RACK DOOR ASSEMBLY, BLACK		7141A20044
1	2	SENSOR3 SR48 DIMMER RACK DOOR ASSEMBLY, BLACK		7141A2006-4
	4	SENSOR3 CEM3 CONTROL ELECTRONICS MODULE	(1 SPARE)	7140A1001
	112	SENSOR D20E DUAL 20A. (2.4 kW) DIMMER MODULE	(4 SPARE)	705DA1031
	3	SENSOR3 CEM3 RIDE THRU POWER KIT		71 40K1001
	-	COURSE COAS AND THE PACK COURSE DIATE VIT BLACK		7151K1001

SENSOR MODULES

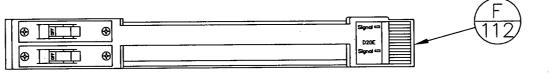
(FRONT VIEWS)

SENSOR CEM3

CONTROL ELECTRONICS MODULE

= DDULE SENSOR D20E

DUAL 20A. (2.4 kW) DIMMER MODULE



Electronic Theatre Controls Inc FILE NAME: SR3-BOM.DWG RICHARDSON HIGH SCHOOL RICHARDSON, TEXAS TEXAS SCENIC COMPANY SPECTRUM LIGHTING SENSOR3 (BILL-OF-MATERIALS) DIMMER RACK - PHYSICAL LOCATION: CONTRACT WITH: TW 12/9/13 7/24/13 5/17/13 DRAWING: 15027855-11 5 REVISION B SUBMITTAL DWG. STATUS AS - BUILT

1150w Temporary
Dimmer
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<u>500 500 500 500 500 500 500 500 500 500</u>
Stage Lighting
2400watts
2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

RICHARDSON, IEXAS	TEXAS SCENIC COMPANY	SPECTRUM LIGHTING	NAD SCHEDULE DIMMER-
LOCATION:	CÖNTRACT WITH:	REPRESENTATIVE:	TITLE: DR-1 LOAD SCHEDULE

7/24/13 TJ/MP 5/17/13 TJ/MP DATE APPD.

SUBMITTAL MAB 5/17/13 DWG, STATUS BY DATE
DRAWING: 15027855-12

AS · BUILT

Electronic Theatre Controls Inc 3031 Pleasant View Rd PO Box 620979 Middleton WI 53562 0979 Tel 608 831 4116 Toll Free 800 688 4116 Fax 608 836 1736 www.etcconnect.com

UNLESS OTHERWISE SPECIFIED - ALL DIMENSIONS ARE IN INCHES.

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LOAD	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	1150w	T.B.D.	T.B.D.	T.B.D.	T.B.D.																														
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TITLE: DR-2 LOAD SCHEDULE	B.	-13	15027855-13	drawing: 1502
SPECTRUM LIGHTING	APPD.	DATE	ВУ	DWG. STATUS
REPRESENTATIVE:	TJ/MP	5/17/13	MAB	SUBMITTAL
CONTRACT WITH: TEXAS SCENIC COMPANY	TJ/MP	7/24/13 TJ/MP	ď	REVISION B
LOCATION: RICHARDSON, TEXAS				
JOB: RIC	dM/f1	TW 12/9/13 TJ/MP	M.L	AS - BUILT

TEXAS SCENIC COMPANY	SPECTRUM LIGHTING
TEXAS	SPI

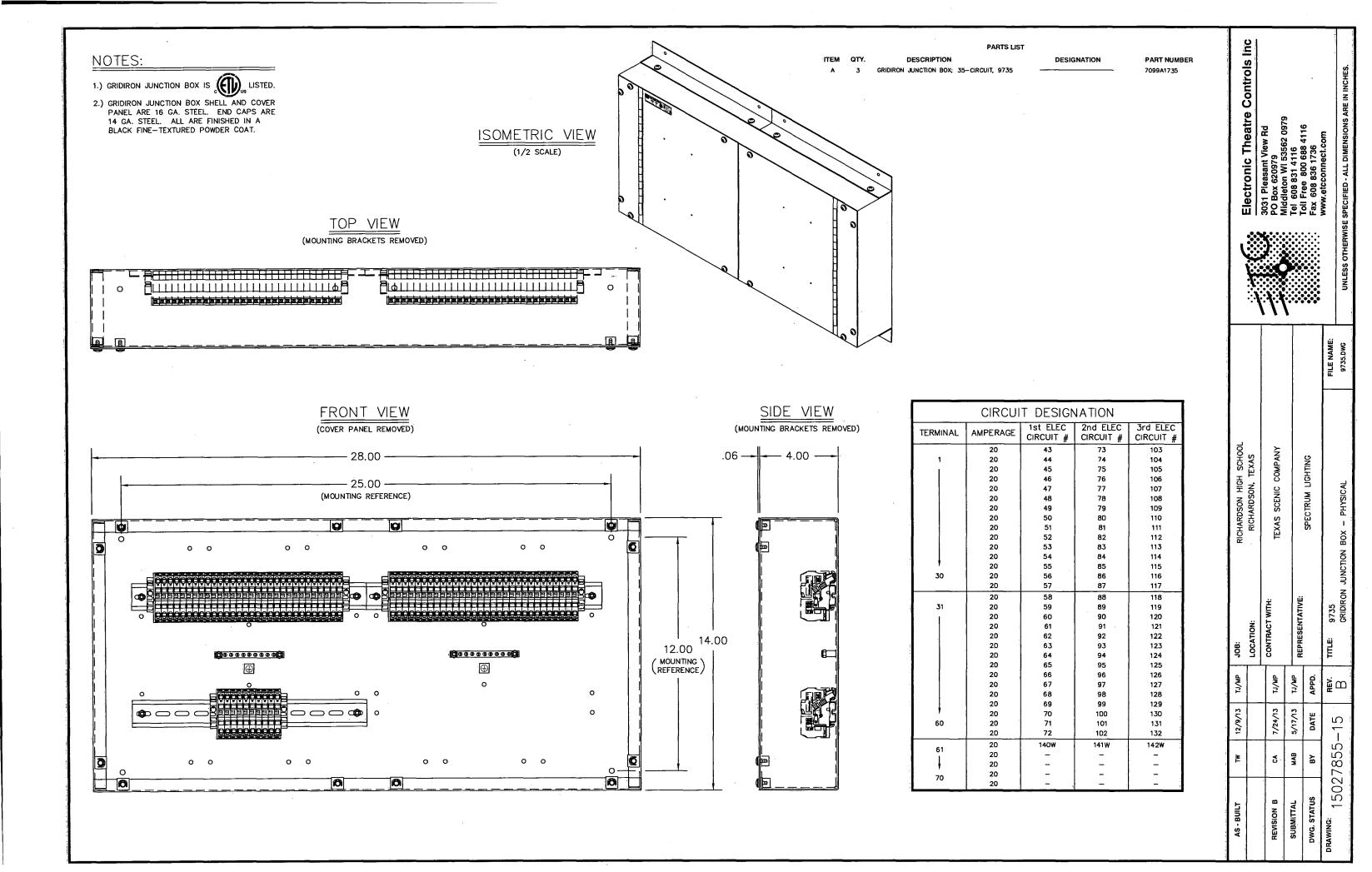
Electronic Theatre Controls Inc	int View Rd	979	VI 53562 0979
Electronic T	3031 Pleasant View Rd	PO Box 620979	Middleton WI 53562 0979

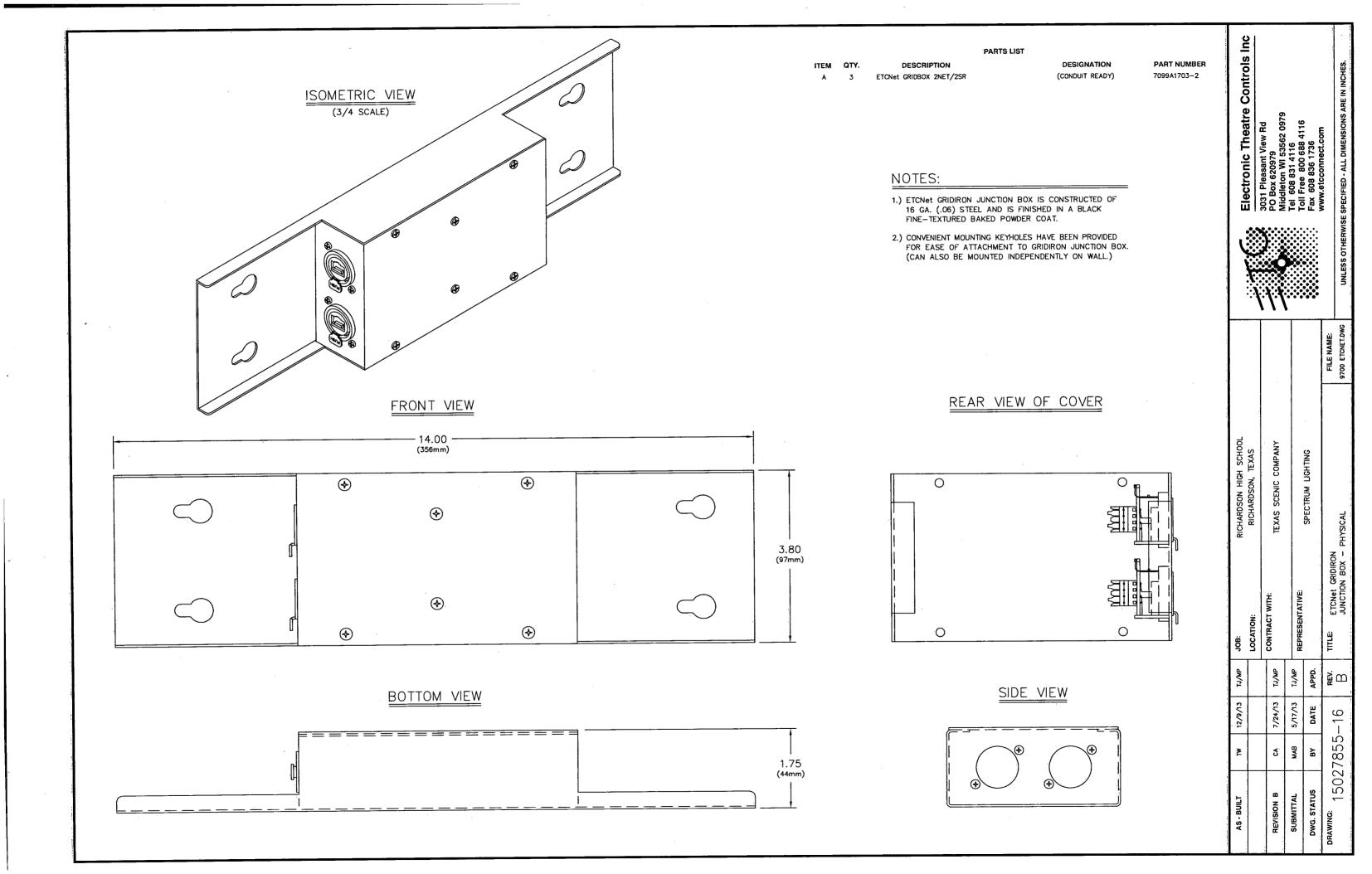
UNLESS OTHERWISE SPECIFIED - ALL DIMENSIONS ARE IN INCHES.

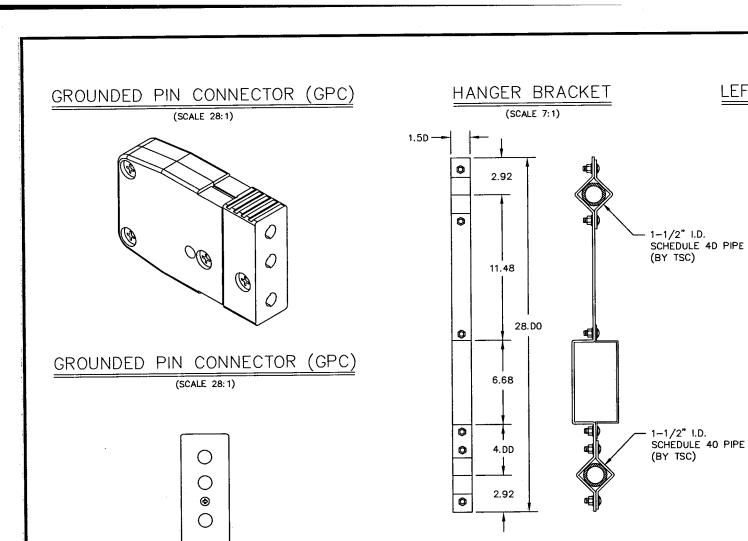
			DIMMER RACK DR-3				:
DIMMER	CIRCUIT	CAPACITY	AREA SERVED	LOCATION	DEVICE	LOAD	FIXED/TEMP
1	193	2400watts	Reserved for Architectural Lighting		Dimmer	T.B.D.	Permanent
2	194	2400watts	Reserved for Architectural Lighting		Dimmer	T.B.D.	Permanent
3	195	2400watts	Reserved for Architectural Lighting		Dimmer	T.B.D.	Permanent
4	196	2400watts	Reserved for Architectural Lighting		Dimmer	T.B.D.	Permanent
5	197	2400watts	Reserved for Architectural Lighting		Dimmer	T.B.D.	Permanent
6	198	2400watts	Reserved for Architectural Lighting		Dimmer	T.B.D.	Permanent
7	199	2400watts	Reserved for Architectural Lighting		Dimmer	T.B.D.	Permanent
8	200	2400watts	Reserved for Architectural Lighting		Dimmer	T.B.D.	Permanent
9	201	2400watts	Reserved for Architectural Lighting		Dimmer	T.B.D.	Permanent
10	202	2400watts	Reserved for Architectural Lighting		Dimmer	T.B.D.	Permanent
11	203	2400watts	Reserved for Architectural Lighting		Dimmer	T.B.D.	Permanent
12	204	2400watts	Reserved for Architectural Lighting		Dimmer	T.B.D.	Permanent
13	205	2400watts	Reserved for Architectural Lighting		Dimmer	T.B.D.	Permanent
14	206	2400watts	Reserved for Architectural Lighting		Dimmer	T.B.D.	Permanent
15	207	2400watts	Reserved for Architectural Lighting		Dimmer	T.B.D.	Permanent
16	208	2400watts	Reserved for Architectural Lighting		Dimmer	T.B.D.	Permanent
17	209	2400watts	Reserved for Architectural Lighting		Dimmer	T.B.D.	Permanent
18	210	2400watts	Reserved for Architectural Lighting		Dimmer	T.B.D.	Permanent
19	211	2400watts	Reserved for Architectural Lighting		Dimmer	T.B.D.	Permanent
20	212	2400watts	Reserved for Architectural Lighting		Dimmer	T.B.D.	Permanent
21	213	2400watts	Reserved for Architectural Lighting		Dimmer	T.B.D.	Permanent
22	214	2400watts	Reserved for Architectural Lighting		Dimmer	T.B.D.	Permanent
23	215	2400watts	Reserved for Architectural Lighting		Dimmer	T.B.D.	Permanent
24	216	2400watts	Reserved for Architectural Lighting		Dimmer	T.B.D.	Permanent

Electronic Theatre Controls Inc 3031 Pleasant View Rd PO Box 620979 Middleton WI 53562 0979 Tel 608 831 4116 Toll Free 800 688 4116 Fax 608 836 1736 www.etcconnect.com UNLESS OTHERWISE SPECIFIED - ALL DIMENSIONS ARE IN INCHES. FILE NAME: DIMMER— SCEDULE—REF. DWG RICHARDSON HIGH SCHOOL RICHARDSON, TEXAS TEXAS SCENIC COMPANY SPECTRUM LIGHTING DR-3 LOAD SCHEDULE REPRESENTATIVE: JOB: LOCATION: CONTRACT WITH: TITLE 5/17/13 1J/MP
DATE APPD.

—14 REV. TW 12/9/13 TJ/MP DWG. STATUS BY DATE DRAWING: 15027855-14 МАВ SUBMITTAL AS - BUILT







PARTS LIST

DESCRIPTION 15027855-17-A 1ST THRU 3RD ELEC

DOUBLE-PIPE HANGER BRACKET ASSEMBLY DOUBLE-PIPE TERMINAL BOX HANGER BRACKET CABLE 12/37 SO CABLE CRADLE, UNIVERSAL CABLE SUPPORT GRIP SINGLE EYE STRAIN RELIEF 1.5D TO 1.70 DIA

(NOT SHOWN) (2 RUNS @ 75') (NOT SHOWN)
(NOT SHOWN)
(NOT SHOWN)
(NOT SHOWN)

DESIGNATION

PART NUMBER TL27855-DIST1 7099A1022 7099A1023 PSE8804 HW6204 HW637 N4030

Controls Inc

NOTES:

- CDNNECTDR STRIP TRDUGH AND CDVER ARE 18 GA. STEEL. END CAPS ARE 14 GA. STEEL. ALL ARE FINISHED IN A BLACK FINE—TEXTURED PDWDER CDAT.
- FINISHED IN A BLACK FINE—TEXTURED POWDER CDAT. INDICATED QUANTITY DF BRACKETS SHALL BE PLACED ND GREATER THAN 5'-D" APART ALDNG THE LENGTH DF THE CONNECTOR STRIP.

2.) HANGER BRACKETS ARE 7 GA. STEEL

3.) CIRCUITS ARE DESIGNATED WITH 2.00" BLACK LEXAN LABELS WITH WHITE TEXT.

4.) CONNECTOR STRIP IS

MODEL #9960-(30BP/30)(4B0/1)(1N31G)(1N)-L

LEFT SIDE VIEW

(SCALE 7:1)

(M)

6.25

6.25

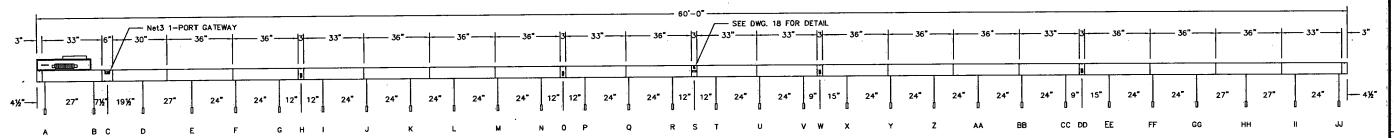
18.DD

- REMOVABLE COVER

REMOVABLE COVER

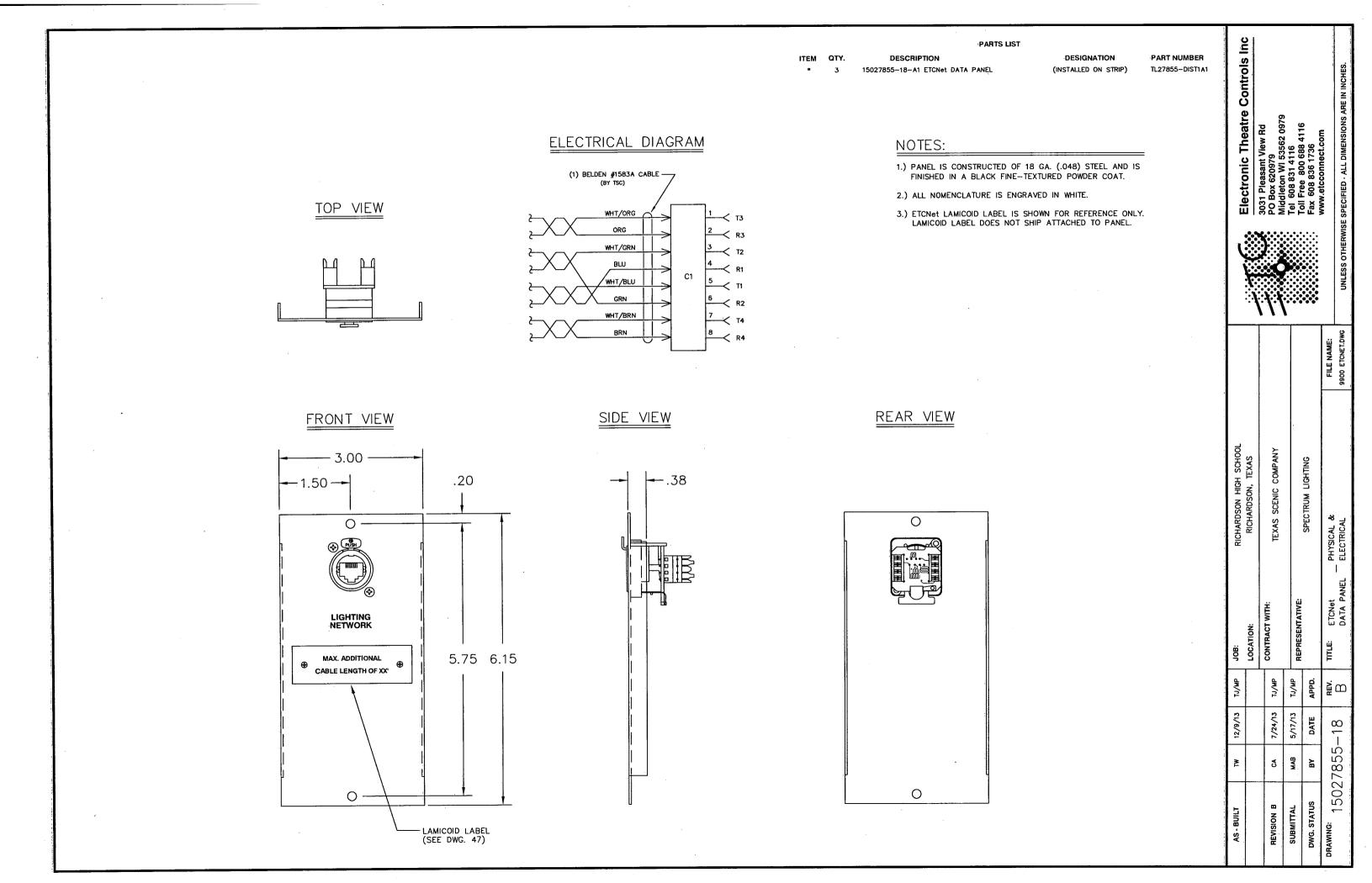
3.25

COVER VIEW



																	CIRC	UIT [)ESIGN	VATIC	N																	
CONNECT	TOP																0	UTLET	DESIGNA	TION						,				T							1	
CONNECT	#	LOCATION	(A)	(B)	(c)	(D)	(E)	(F)	(G)	(H)	(1)	(J)	(K)	(L)	(M)	(N)	(0)	(P)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(x)	(Y)_	(Z)	(AA)	(BB)	(CC)	(DD)	(EE)	(FF)	(GG)	(HH)	(1)	(11)
(1)	*	1st ELECTRIC	31	32	N31G	33	34	35	36	140W	37	38	39	40	41	42	140W	43	44	45	NET	34	35	36	140W	49	50	51	52	53	54	140W	55	56	5/	58	59	60
(2)		2nd ELECTRIC	61	62	N31G	63	64	65	66	141W	67	68	69	70	71	72	141W	73	74	75	NET	76	77	78	141W	79	80	81	82	83	84	141W	85	86	87	88	89	90
(3)		3rd ELECTRIC	91	92	N31G	93	94	95	96	142W	97	98	99 :	100	101	102	142W	103	104	105	NET	106	107	108	142W	109	110	111	112	113	114	142W	115	116	117	118	119	120

3031 Pleasant View Rd PO Box 620979 Middleton WI 53562 0979 Tel 608 831 4116 Toll Free 800 688 4116 Fax 608 836 1736 www.etcconnect.com Electronic Theatre 1st THRU 3rd ELECTRIC. CONNECTOR STRIP – PHYSICA CONTRACT WITH: DATE 7855-₽ 1502 DWG. STATUS



QTY.

DESCRIPTION 2 OUTLET BOX; SURFACE-MOUNT, 9103B, GPC DESIGNATION

PART NUMBER

TOP VIEW

0		0
	Description Training Controls, no	
0		0

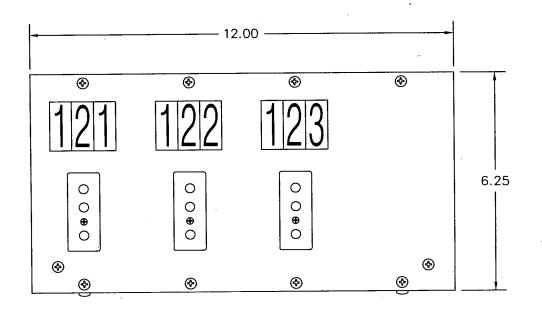
NOTES:

- 1.) OUTLET BOX IS COLUSTED.
- 2.) OUTLET BOX SHELL IS 18 GA. STEEL. END CAPS ARE 14 GA. STEEL AND COVER PANEL IS 16 GA. STEEL. ALL ARE FINISHED IN A BLACK FINE-TEXTURED POWDER COAT.
- 3.) CIRCUITS ARE DESIGNATED WITH 1.40" BLACK LEXAN LABELS WITH 1.25" WHITE TEXT.

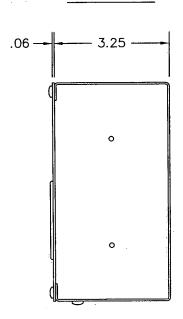
	CIRCUIT DES	SIGNAT	ION	•
DOY #	LOCATION		OUTLET #	
BOX #	LOCATION	(1)	(2)	(3)
WB1	STAGE LEFT	121	122	123
WB2	STAGE RIGHT	124	125	126

MODEL #9103B

FRONT VIEW

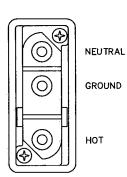


SIDE VIEW

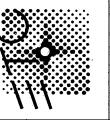


GROUNDED PIN CONNECTOR (GPC)

REAR MEW (SCALE: 2:1)

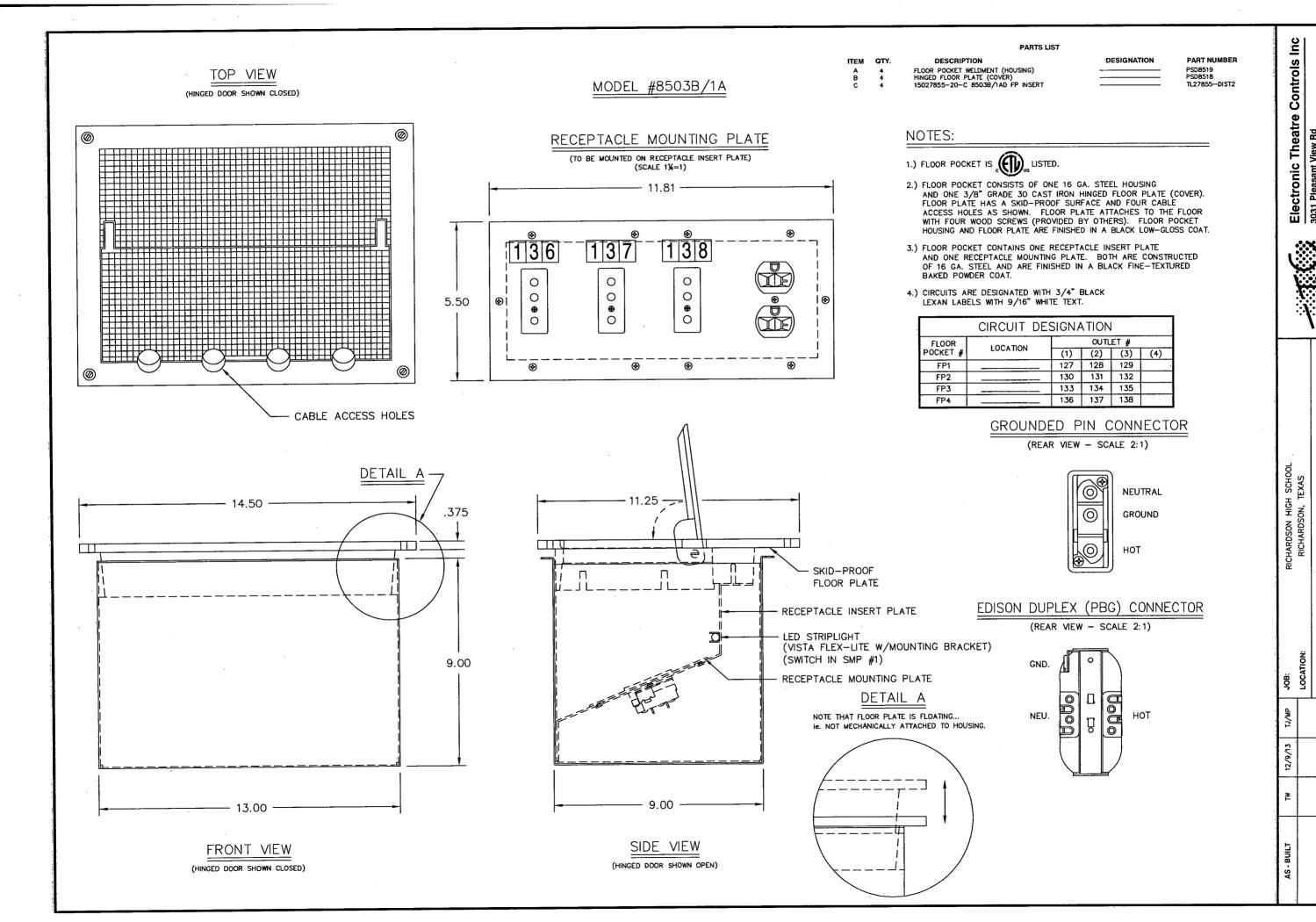


Electronic Theatre Controls Inc



					1
REVISION B	8	CA 7/24/13 TJ/MP	TJ/MP	CONTRACT WITH: TEXAS SCENIC COMPANY	11
					\
SUBMITTAL	МАВ	5/17/13 TJ/MP	TJ/MP	REPRESENTATIVE	
DWG. STATUS	ВУ	DATE	APPD.	SPECTRUM LIGHTING	
DRAWING: 7 F	7 0 1		REV.	TITLE: 9103B	
7061	1502/2051	<u> </u>	മ	OUTLET BOX - PHYSICAL	Ď,

RICHARDSON HIGH SCHOOL



TJ/MP APPD.

5/17/13 DATE

KAB CA

SUBMITTAL

REVISION

B

DWG. STATUS

20

85,

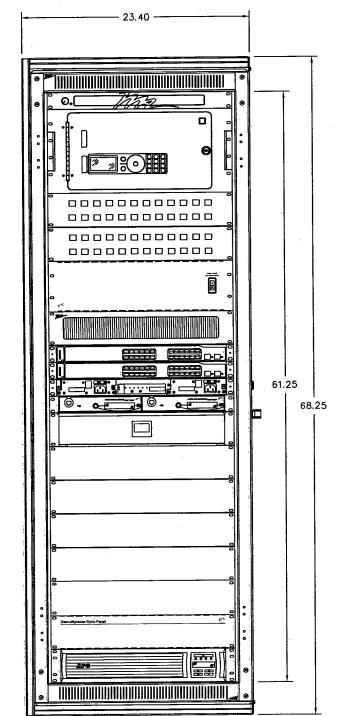
50

NOTES:

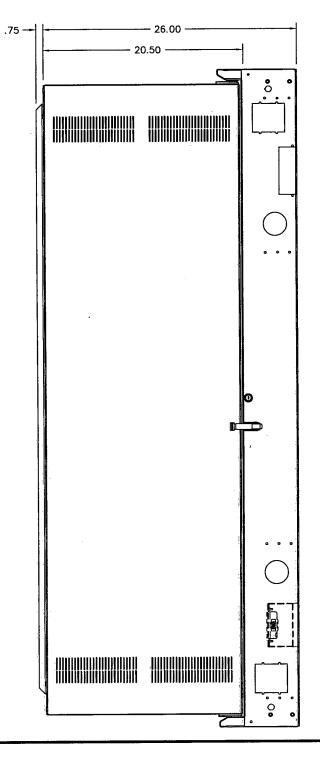
- 1.) EQUIPMENT RACK IS LISTED.
- 2.) EQUIPMENT RACK IS MANUFACTURED BY MIDDLE ATLANTIC PRODUCTS, INC. AND ALL PHYSICAL SPECIFICATIONS SHALL PERTAIN TO MIDDLE ATLANTIC PRODUCTS, INC. MODEL DWR-35-26.
- 3.) EQUIPMENT RACK IS 16 GA. STEEL FINISHED IN A TEXTURED BLACK BAKED ENAMEL.
- EQUIPMENT RACK SHALL BE WALL-MOUNTABLE AND SHALL CONTAIN CONDUIT KNOCKOUTS ON ALL SIDES FOR EASY WIRING ACCESS.

FRONT VIEW

(LOCKABLE DOOR REMOVED)



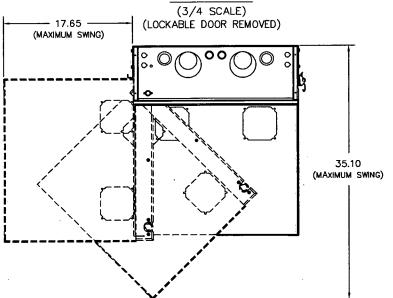
SIDE VIEW



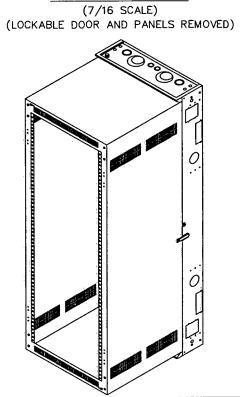
PARTS LIST

ITEM	QTY.	DESCRIPTION	DESIGNATION	PART NUMBER
Α	1	35U WALL RACK CENTER SECTION 20.5" USEABLE		PJE1108
ъ.	1	35U WALL RACK, BACK PAN		PJE1109
Ç	1	15027855-22-C HARDWARE KIT		TL27B55-ARCH1
D	1	LOCKABLE FRONT DOOR; 35U, MAP-FD-35		PJE1029
Ε	1	LIGHT PANEL	(SEE DWG. 24)	
F	1	UNISON ERn2 CONTROL UNIT	(SEE DWG. 25)	
G	2	24-PORT PATCH PANEL	(SEE DWG. 27)	
н	1	FP LED PS	(SEE DWG. 28)	
1	1	BRUSH PANEL 2U	(SEE DWG. 29)	
J	2	24PDRT SWITCH WITH PoE	(SEE DWG. 30)	
ĸ	1	RPS	(SEE DWG. 31)	
Ĺ	1	Net3 4-PORT GATEWAY (DUAL)	(SEE DWG. 32)	
м	1	2U RACK DRWR BLK		PJE1072
N	i	DEMULTIPLEXER/OPTO PANEL	(SEE DWG. 33)	
Ö	1	UPS	(SEE DWG. 35)	

TOP VIEW

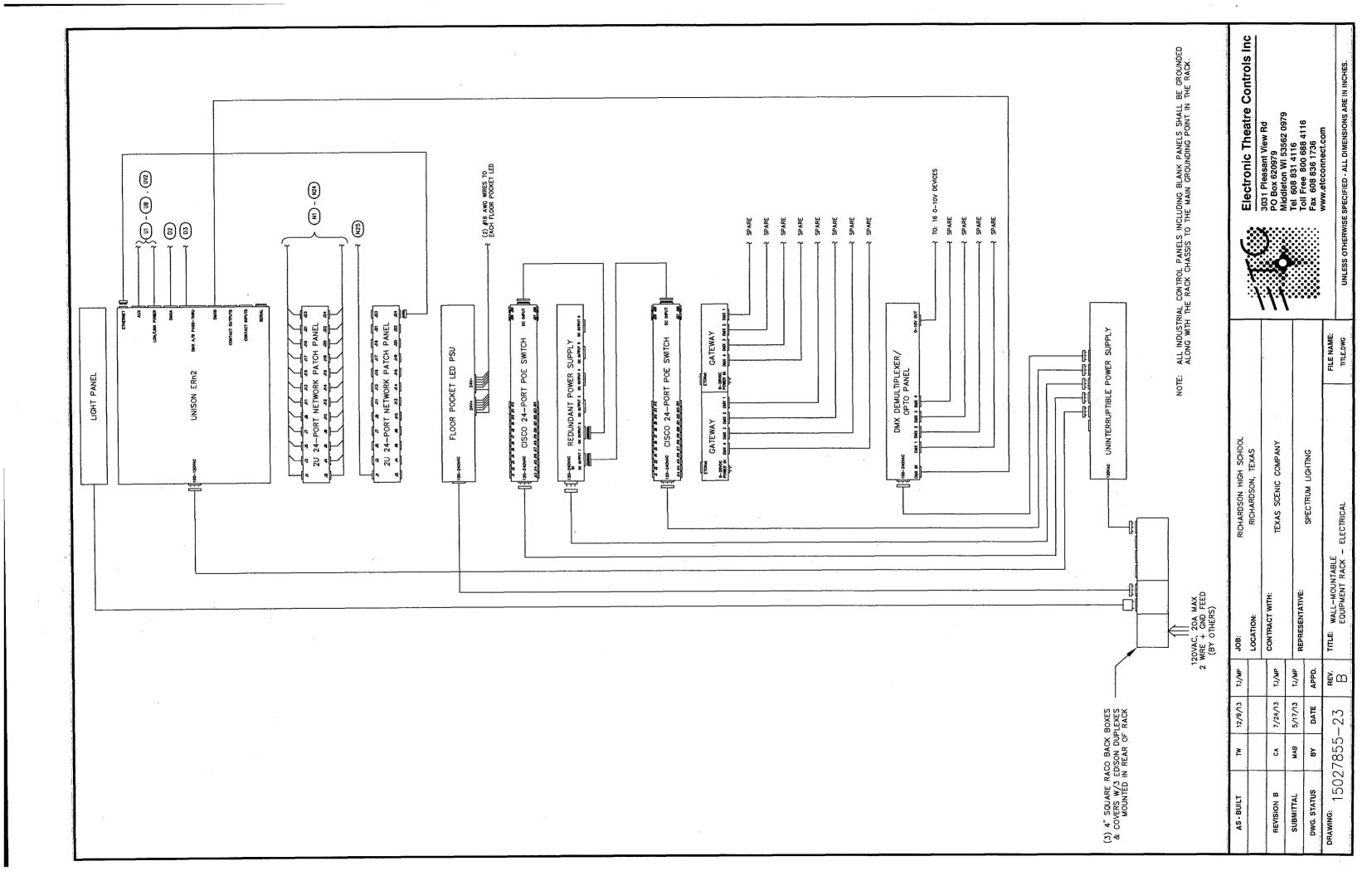


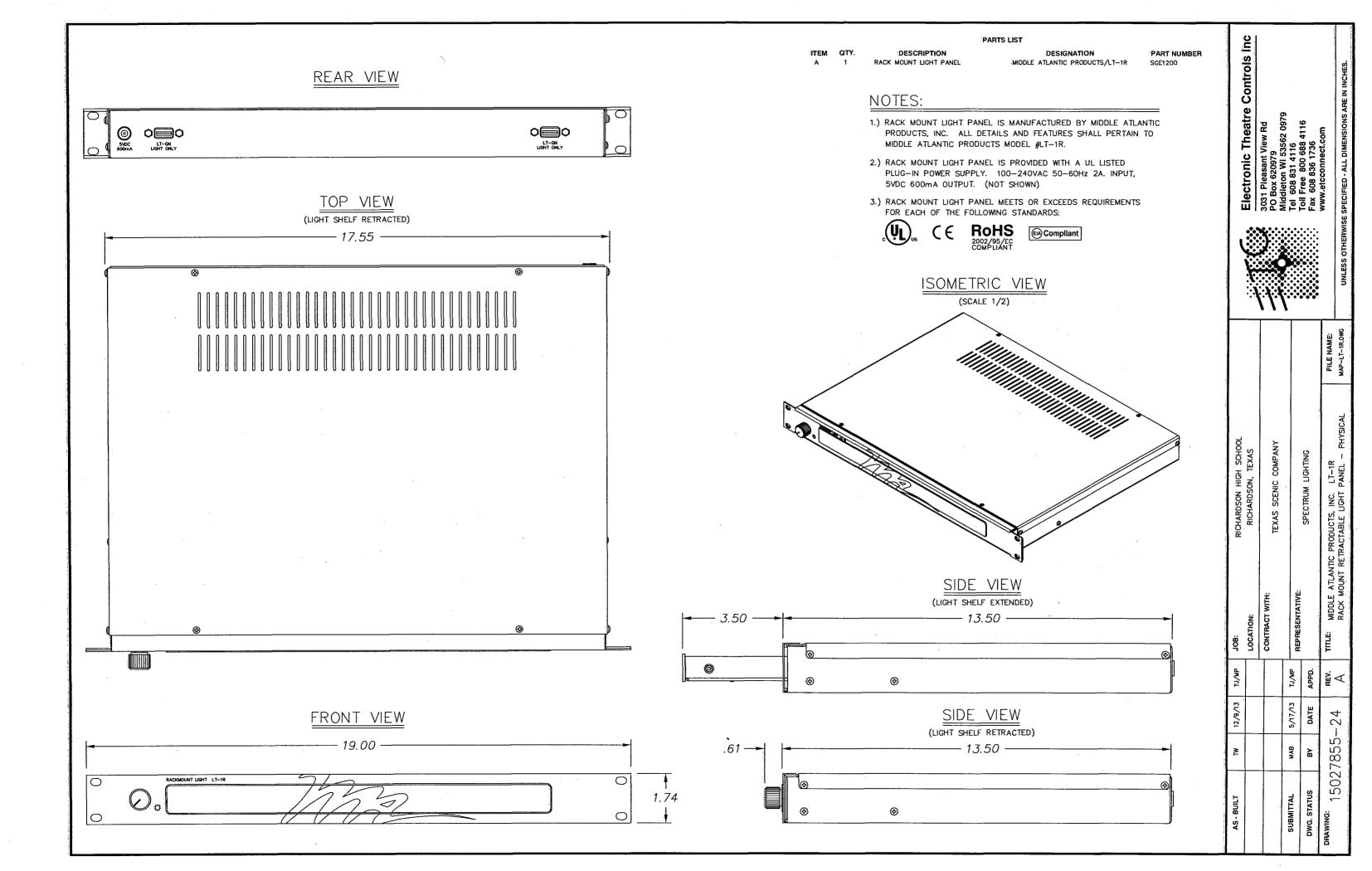
ISOMETRIC VIEW

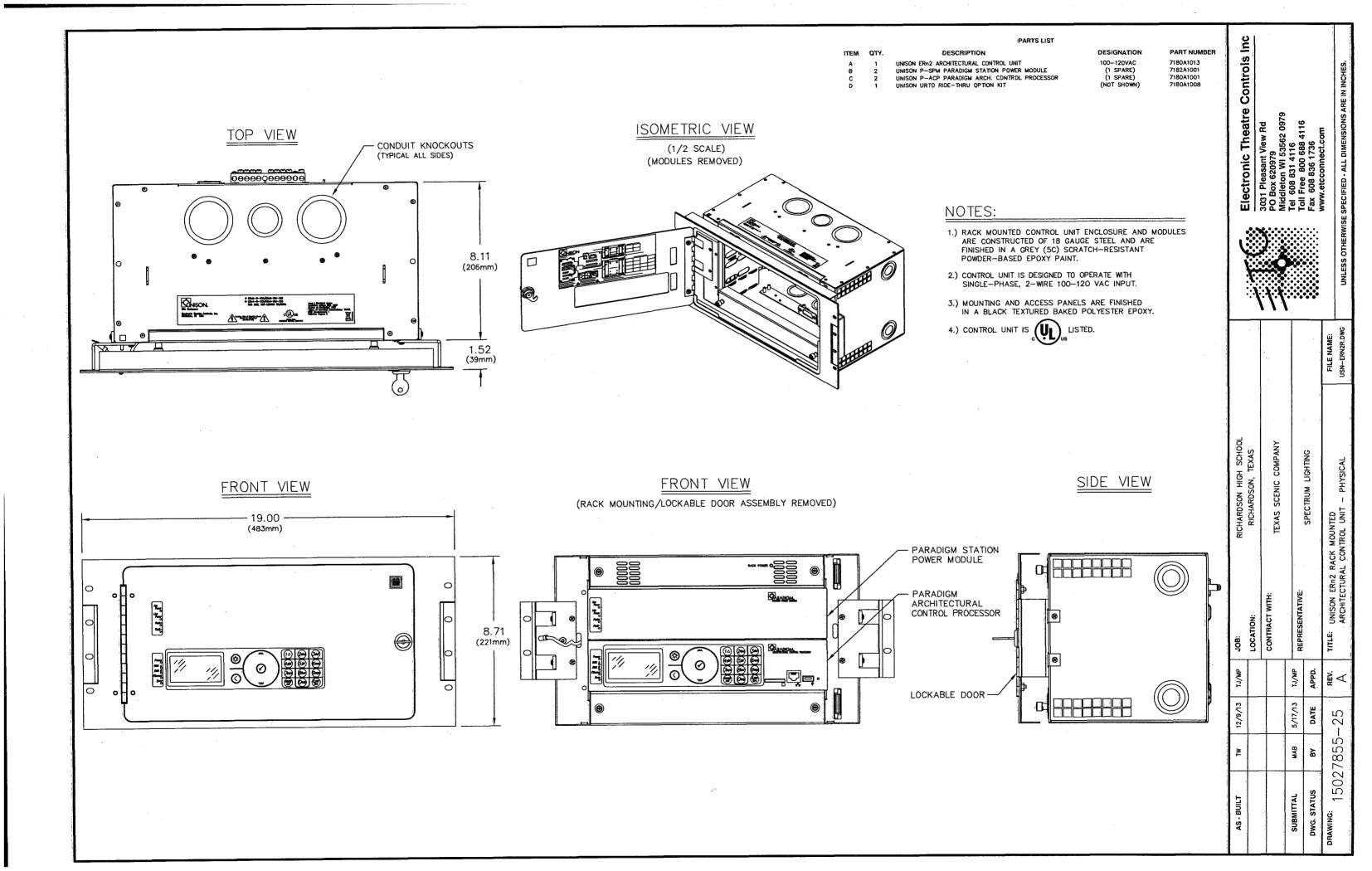


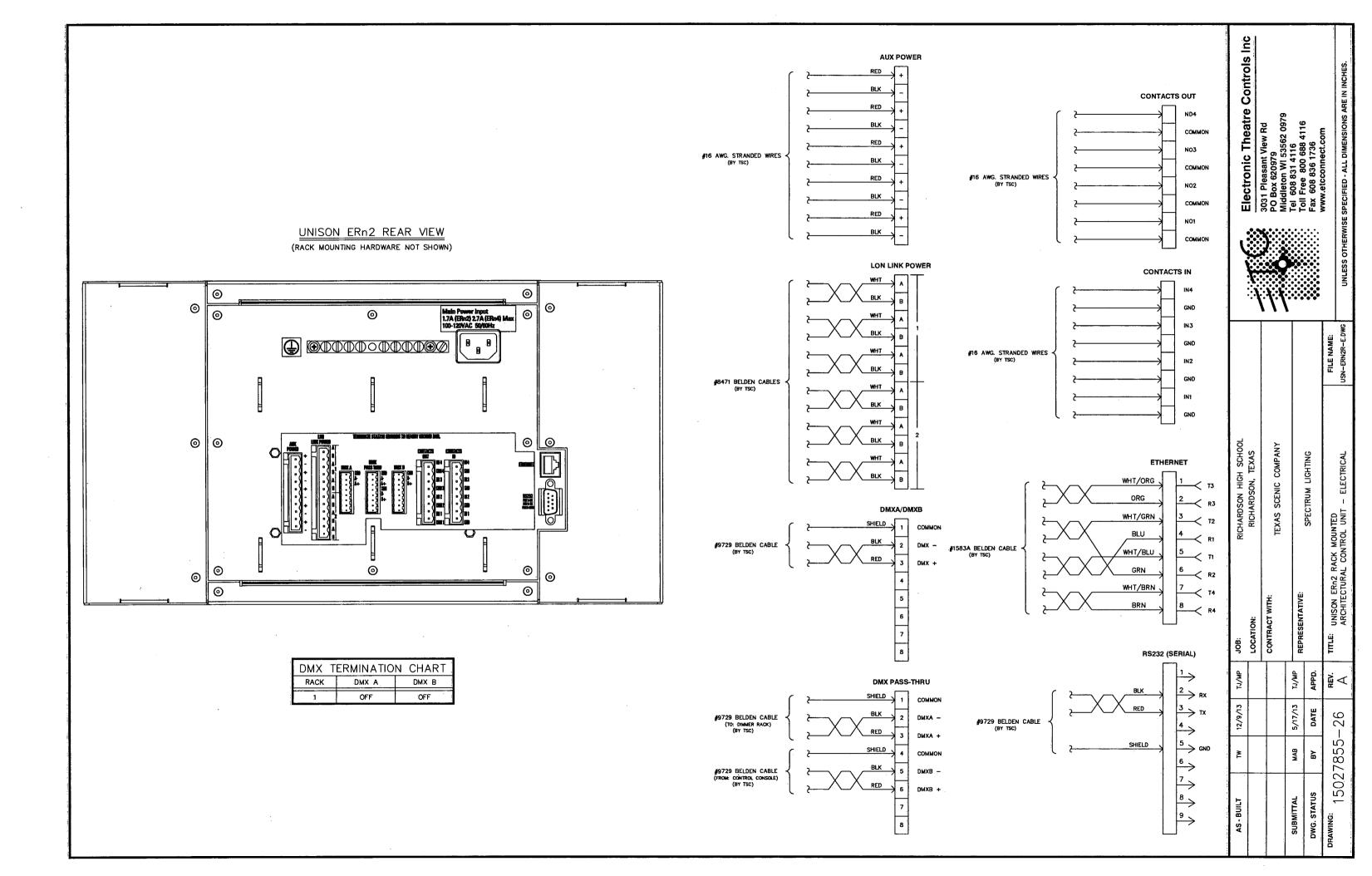
3031 Pleasant View Rd	PO Box 620979	Middleton WI 53562 0979	Tel 608 831 4116	
				:

				LOCATION: KICHARDSON, IEXAS	
				CONTRACT WITH: TEXAS SCENIC COMPANY	
					•
IBMITTAL	MAB	MAB 5/17/13 TJ/MP	TJ/MP	REPRESENTATIVE:	
G. STATUS	ΑB	DATE APPD.	APPD.	SPECTRUM LIGHTING	
ING: 1502	027855	15027855–22	BEV.	TITLE: WALL-MOUNTABLE EQUIPMENT RACK - PHYSICAL	FILE NAME:









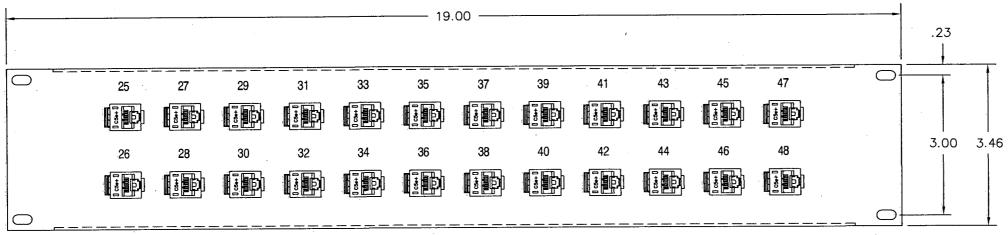
Electronic Theatre Controls Inc PARTS LIST PART NUMBER ITEM QTY. DESIGNATION DESCRIPTION 24-PORT PATCH PANEL 24-PORT PATCH PANEL 2100A2008 1-24 25-48 2100A2008-1 CATSE CONNECTOR, 8-POSITION CATSE INLINE COUPLER, BLACK CATSE CABLE RJ45 UTP 2FT N2027 PJJ1002 (NOT SHOWN) NOTES: 1.) PATCH PANEL IS .06 ALUMINUM FINISHED IN A BLACK FINE-TEXTURED POWDER COAT. 2.) ALL NOMENCLATURE IS ENGRAVED IN WHITE. RICHARDSON HIGH SCHOOL RICHARDSON, TEXAS TEXAS SCENIC COMPANY SIDE VIEW 1.00 .23 .06 3.00 3.46 TJ/MP 12/9/13 5/17/13 DATE 15027855 MAB

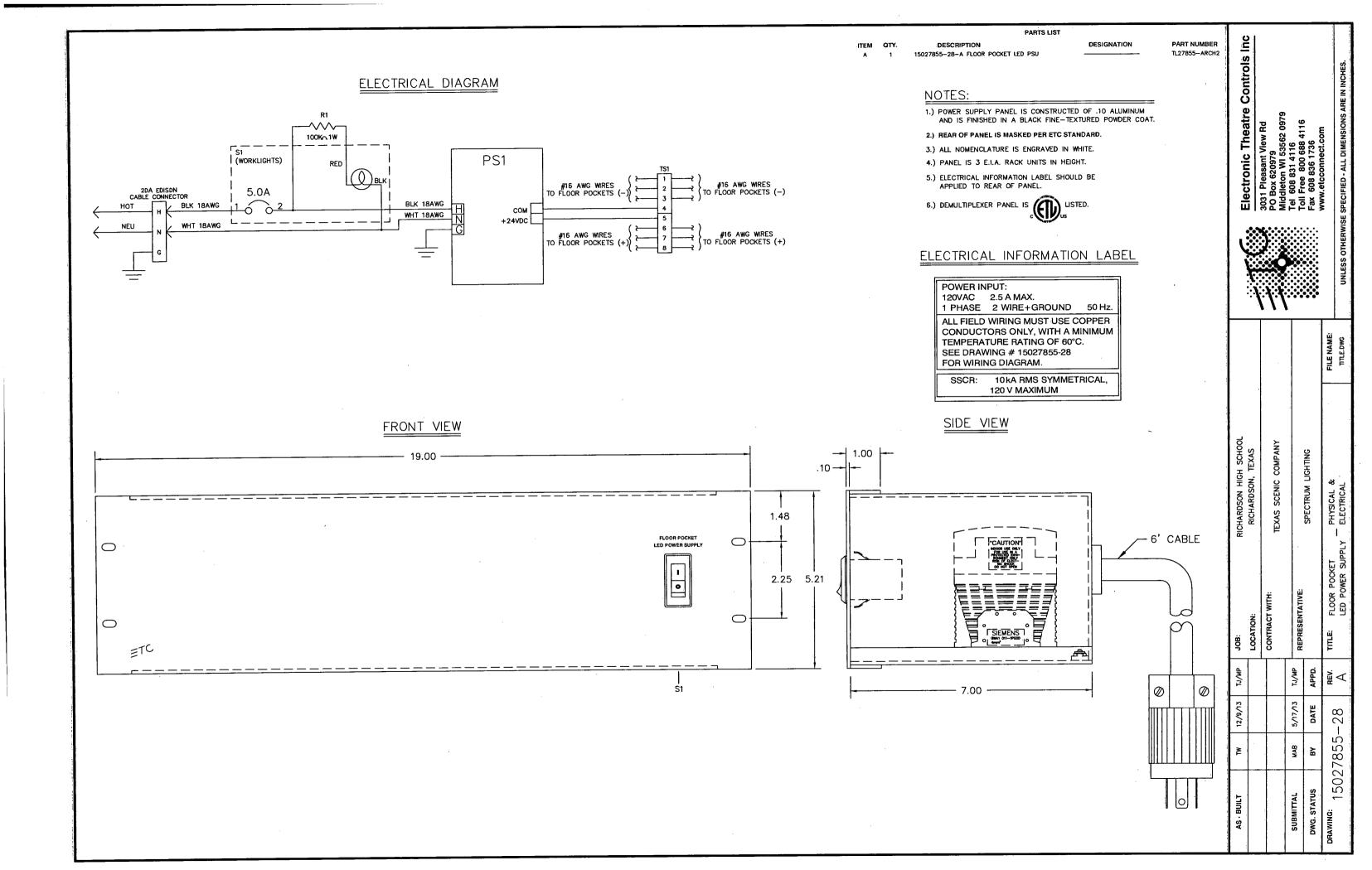
SUBMITTAL

AS - BUILT

REAR VIEW

FRONT VIEW



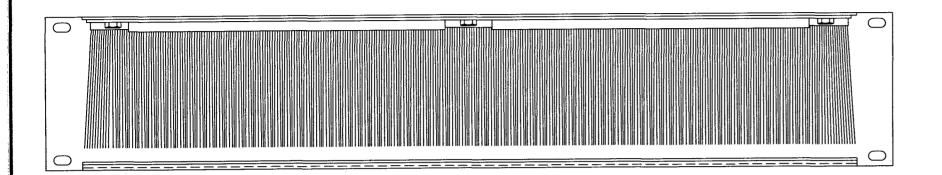


PART NUMBER

Controls Inc

Electronic Theatre

REAR VIEW



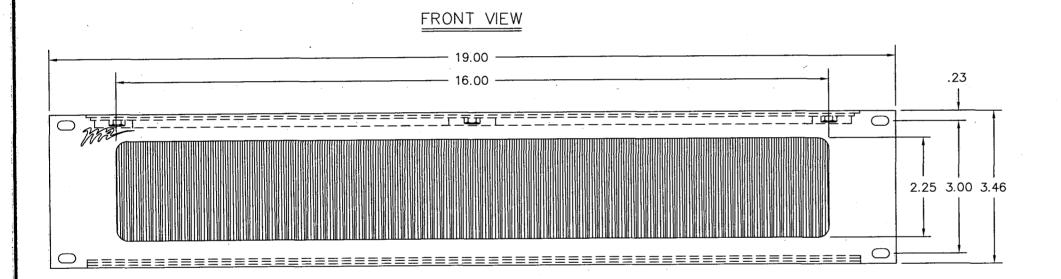
NOTES:

DESCRIPTION

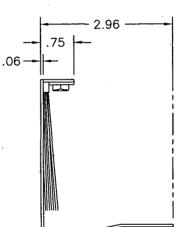
BRUSH PANEL 2U

ITEM QTY.

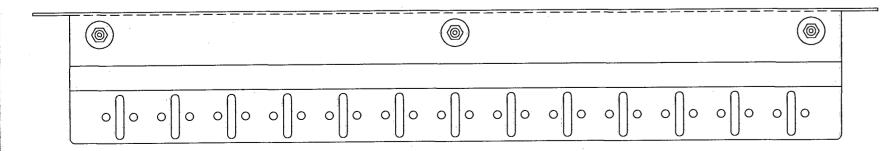
- 1.) BRUSH PANEL IS MANUFACTURED BY MIDDLE ATLANTIC PRODUCTS, INC. AND ALL PHYSICAL SPECIFICATIONS SHALL PERTAIN TO MIDDLE ATLANTIC PRODUCTS, INC. MODEL BR2.
- 2.) BRUSH PANEL IS CONSTRUCTED OF .06 STEEL AND IS FINISHED IN A BLACK FINE—TEXTURED POWDER COAT. ALL NOMENCLATURE IS SILK—SCREENED IN A WHITE EPOXY INK.
- 3.) BRUSH PANEL IS 2 E.I.A. RACK UNITS IN HEIGHT.



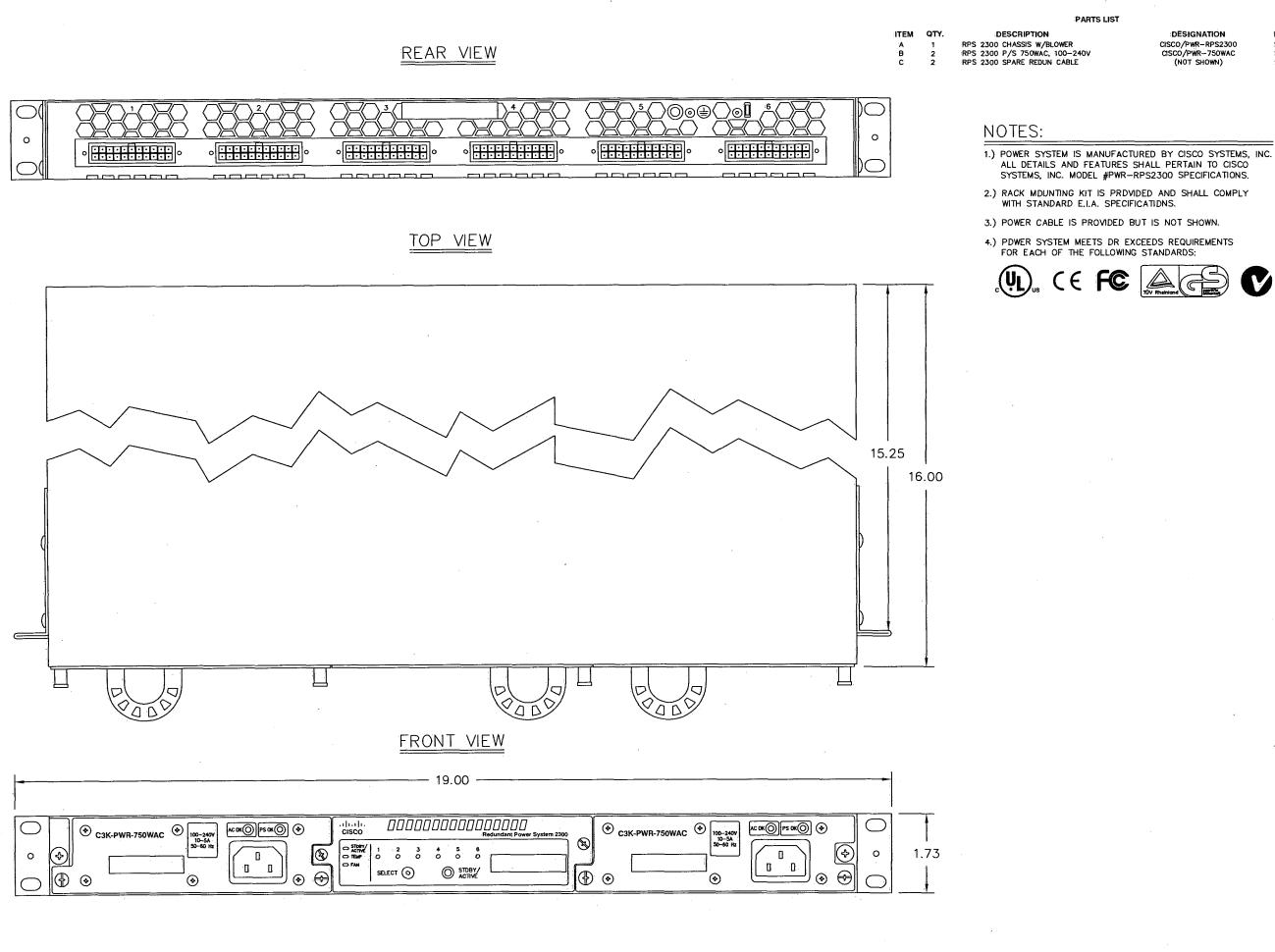
SIDE VIEW



BOTTOM VIEW



Г ₆	FILE NAME: BRUSH-PANEL-20.DWG	TITLE: BRUSH PANEL 2U - PHYSICAL	REV.	-29	15027855-29	DRAWING: 1502
	:	SPECTRUM LIGHTING	APPD.	DATE	ВУ	DWG. STATUS
\ 		REPRESENTATIVE	TJ/MP	5/17/13 TJ/MP	MAB	SUBMITTAL
1 1 1		CONTRACT WITH: TEXAS SCENIC COMPANY				
. '		LOCATION: RICHARDSON, TEXAS				
		JOB: RIC	TJ/MP	TW 12/9/13 TJ/MP	≱	AS - BUILT



DESIGNATION CISCO/PWR-RPS2300 CISCO/PWR-750WAC (NOT SHOWN)

PART NUMBER SGN1077 SGN1078 SGN1080

- 1.) POWER SYSTEM IS MANUFACTURED BY CISCO SYSTEMS, INC. ALL DETAILS AND FEATURES SHALL PERTAIN TO CISCO SYSTEMS, INC. MODEL #PWR-RPS2300 SPECIFICATIONS.
- 2.) RACK MDUNTING KIT IS PRDVIDED AND SHALL COMPLY WITH STANDARD E.I.A. SPECIFICATIONS.
- 3.) POWER CABLE IS PROVIDED BUT IS NOT SHOWN.
- 4.) PDWER SYSTEM MEETS DR EXCEEDS REQUIREMENTS FOR EACH OF THE FOLLOWING STANDARDS:



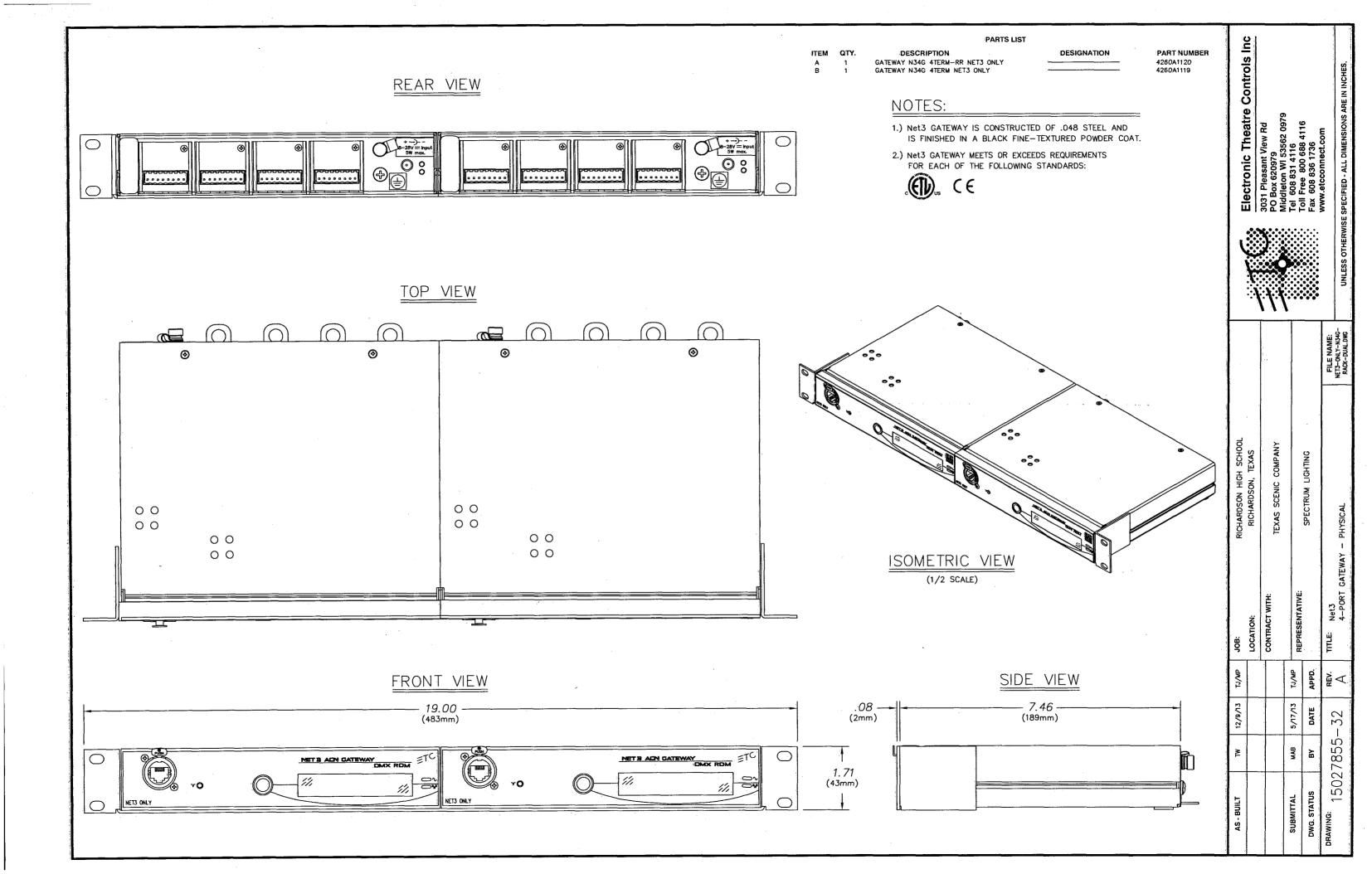


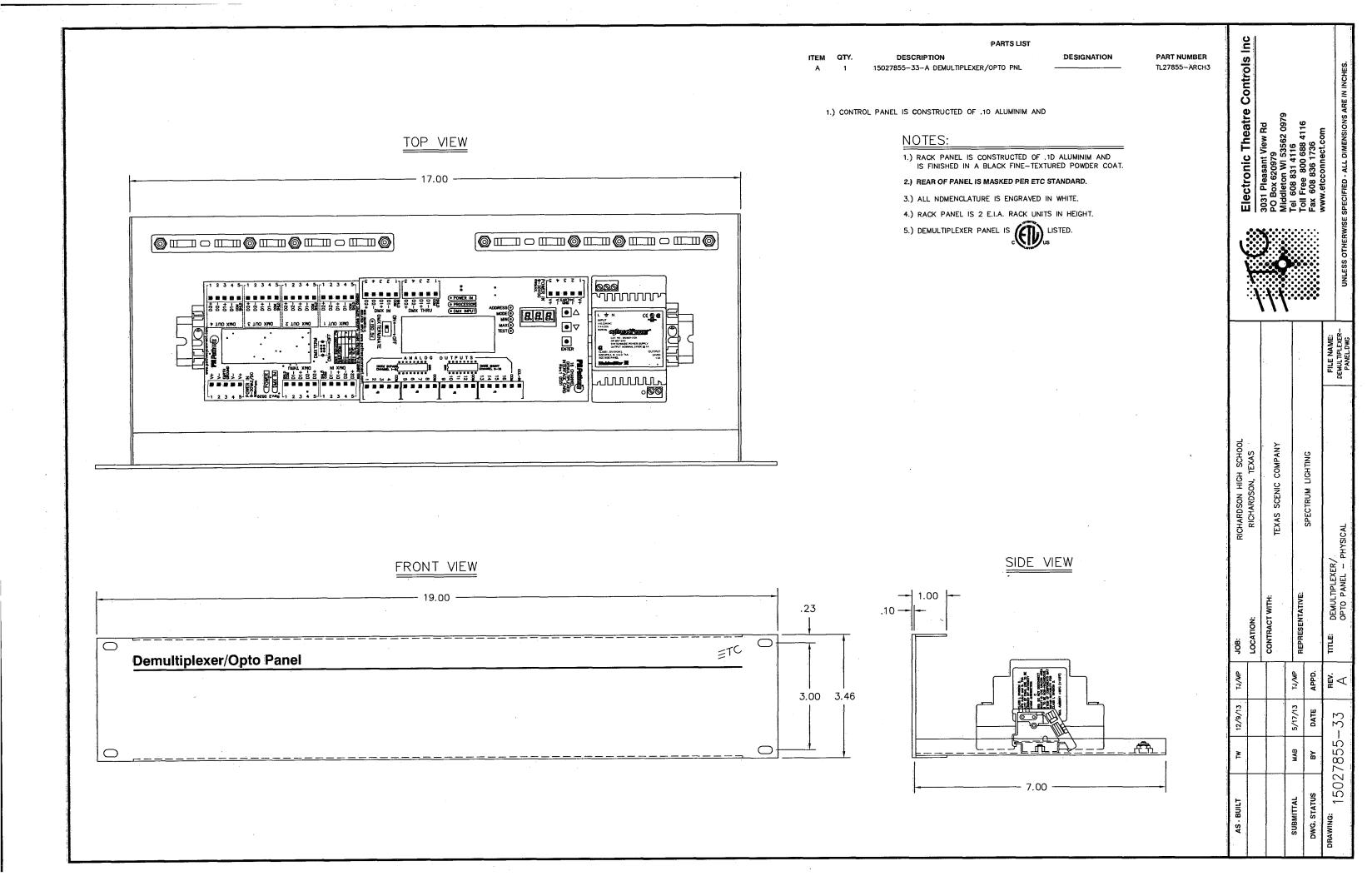


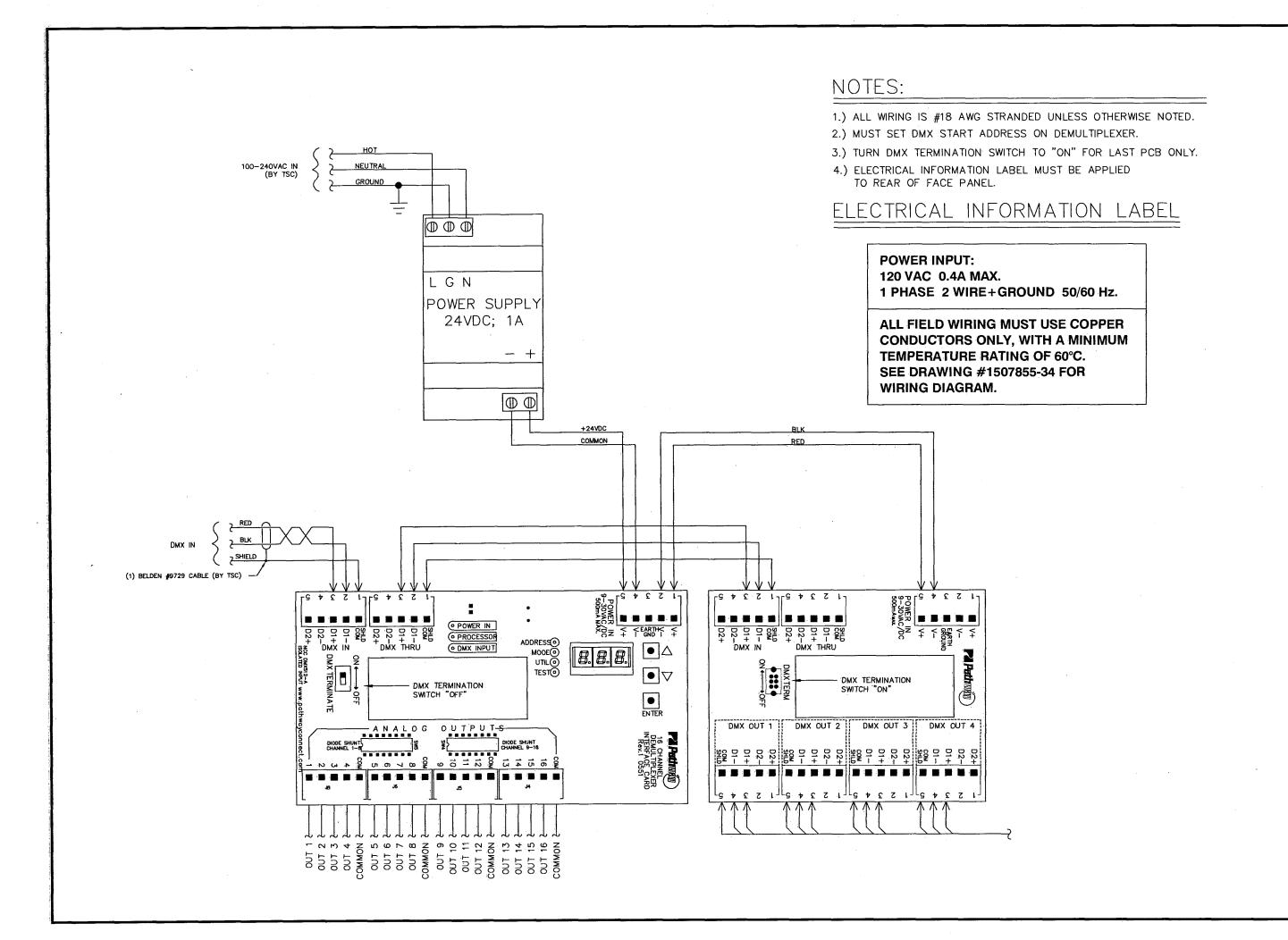
Electronic Theatre Controls Inc	3031 Pleasant View Rd	Middleton WI 53562 0979	Tel 608 831 4116	Toll Free 800 688 4116	Fax 608 836 1736	www.etcconnect.com
)					•

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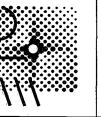
			:	FILE NAME: CISCO RPS-2300.DWG
LOCATION: RICHARDSON, TEXAS	CONTRACT WITH: TEXAS SCENIC COMPANY	REPRESENTATIVE	SPECTRUM LIGHTING	TITLE: CISCO REDUNDANT POWER SYSTEM 2300 - PHYSICAL
		TJ/MP	APPD.	яеч.
		5/17/13 TJ/MP	DATE	-31
		MAB	β	15027855-31
		SUBMITTAL	DWG. STATUS	awing: 1502





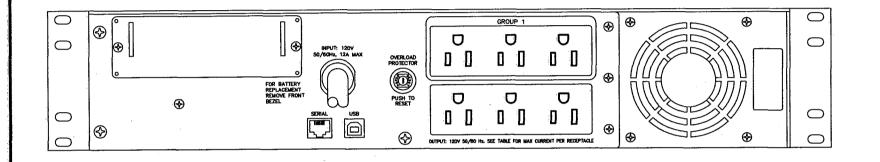


Electronic Theatre Controls Inc
3031 Pleasant View Rd
PO Box 620979
Middleton WI 53562 0979
Tel 608 831 4116
Fax 608 836 1736
www.etcconnect.com



	_		_	_		
						FILE NAME: TILE.DWG
LOCATION: RICHARDSON, TEXAS	CONTRACT WITH:			REPRESENTATIVE: SPECTRUM LIGHTING		TITLE: DEMULTIPLEXER/ OPTO PANEL — ELECTRICAL
				J/MP	APPD.	веv. Д
				5/17/13 TJ/MP	DATE	-34
	4			MAB	ВУ	15027855–34
	the first of the second of the second			SUBMITTAL	DWG. STATUS	drawing: 1502

REAR VIEW



PARTS LIST

ITEM QTY. DESCRIPTION

APC 1500VA UNINTERRUPTIBLE POWER SUPPLY APC SPARE BATTERY SET

DESIGNATION (NOT SHOWN) PART NUMBER

SGPS07 SGPS1008

0

Electronic Theatre Controls Inc

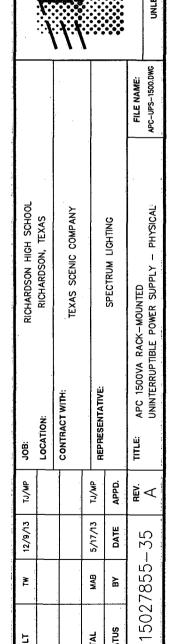
NOTES:

- 1.) UNINTERRUPTIBLE POWER SUPPLY IS MANUFACTURED BY APC. ALL DETAILS AND FEATURES SHALL PERTAIN TO APC SMT1500RM2U SPECIFICATIONS.
- 2.) UNINTERRUPTIBLE POWER SUPPLY IS 2 E.I.A. RACK UNITS IN HEIGHT.
- 3.) UNINTERRUPTIBLE POWER SUPPLY MEETS OR EXCEEDS REQUIREMENTS FOR EACH OF THE FOLLOWING STANDARDS:



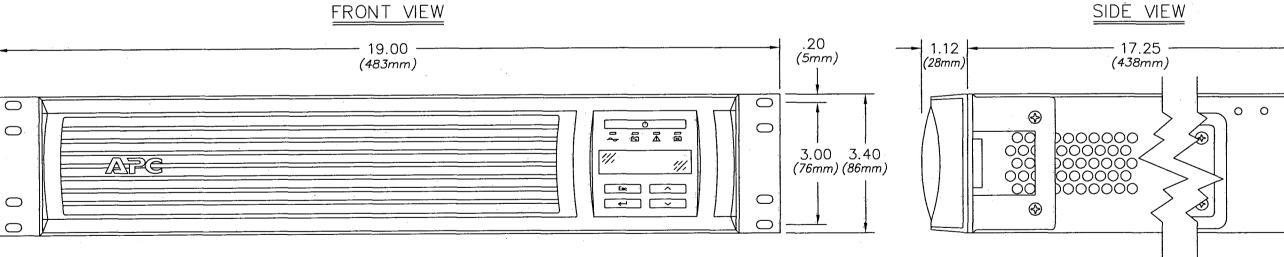


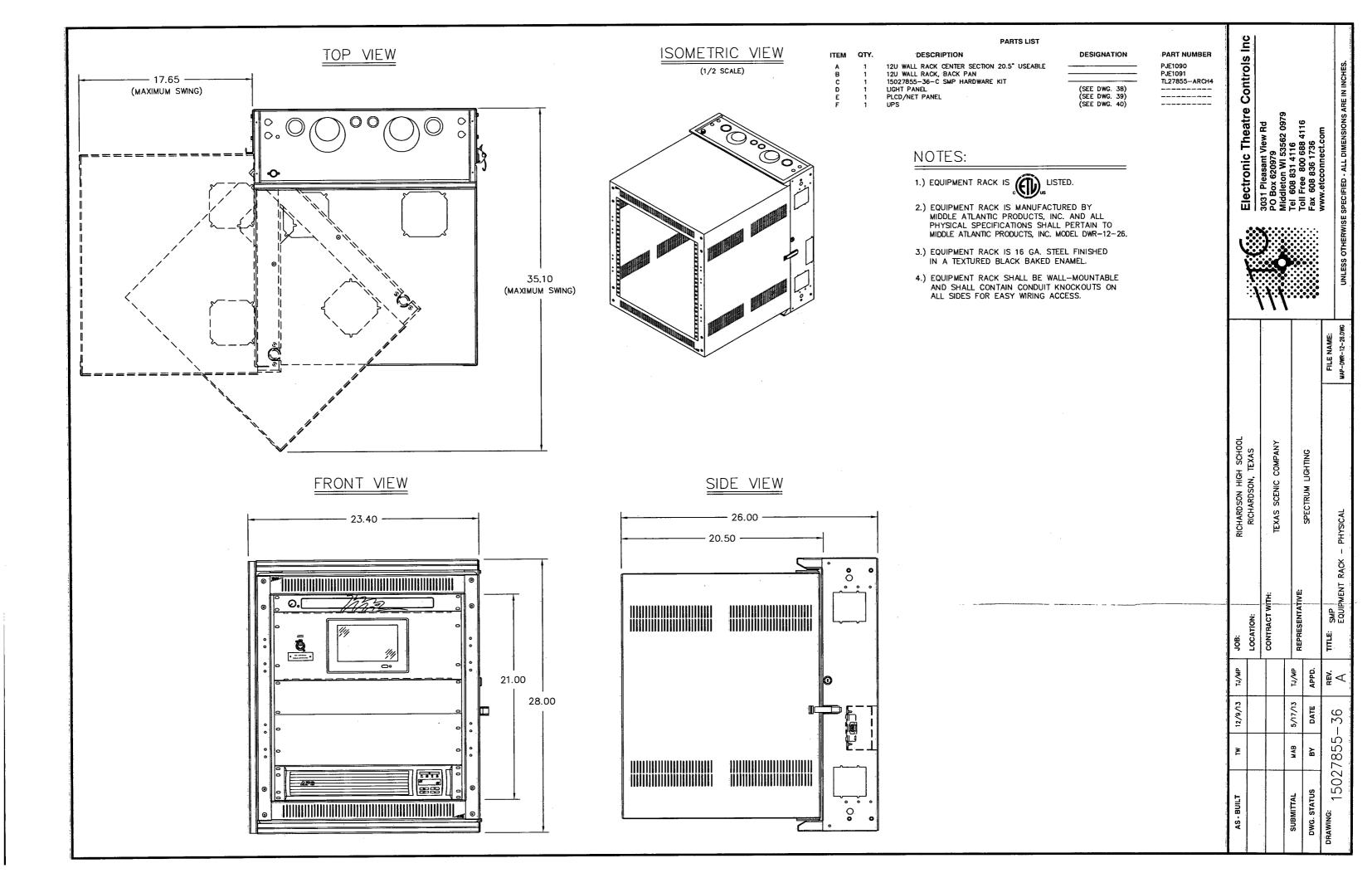


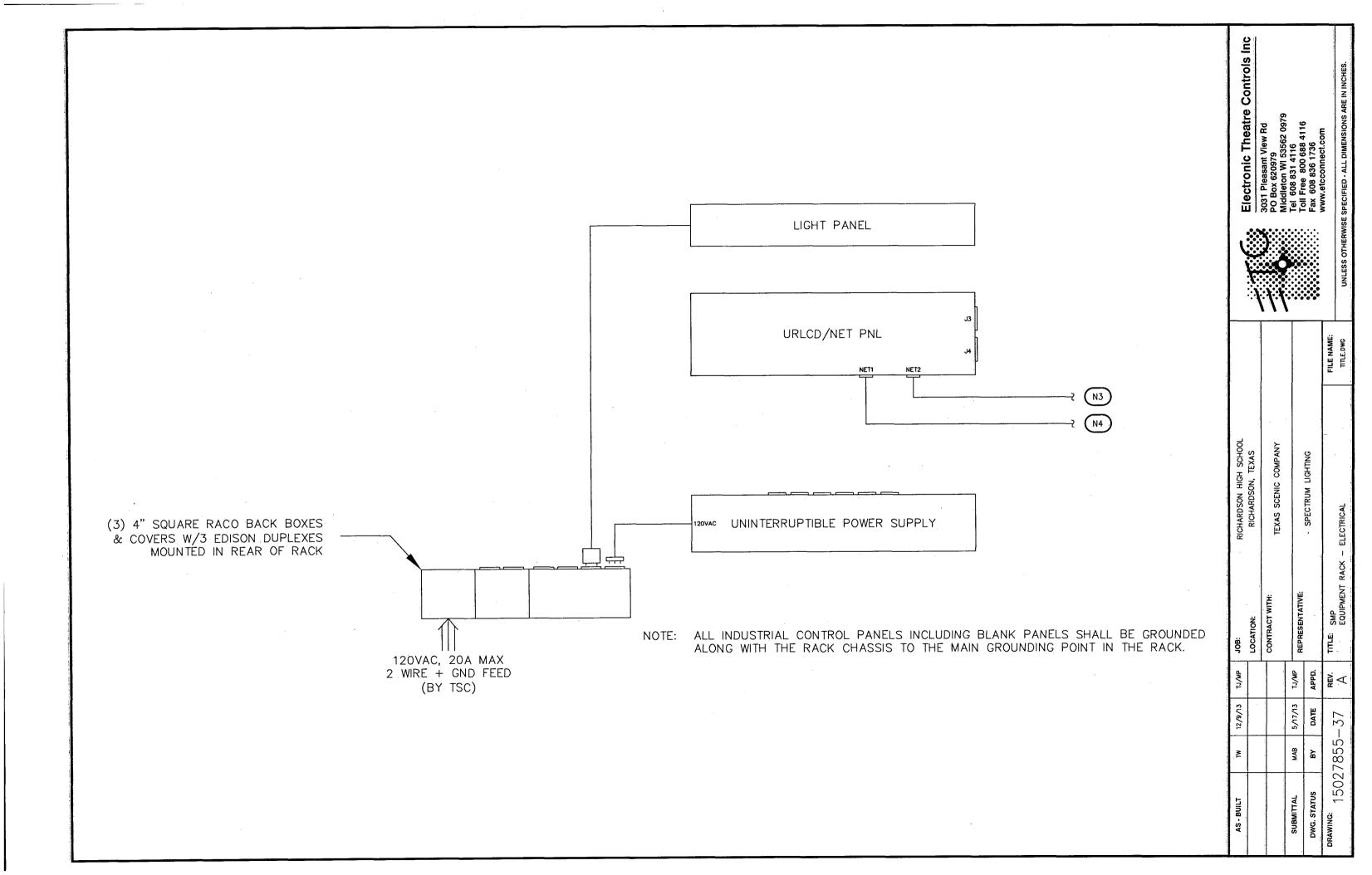


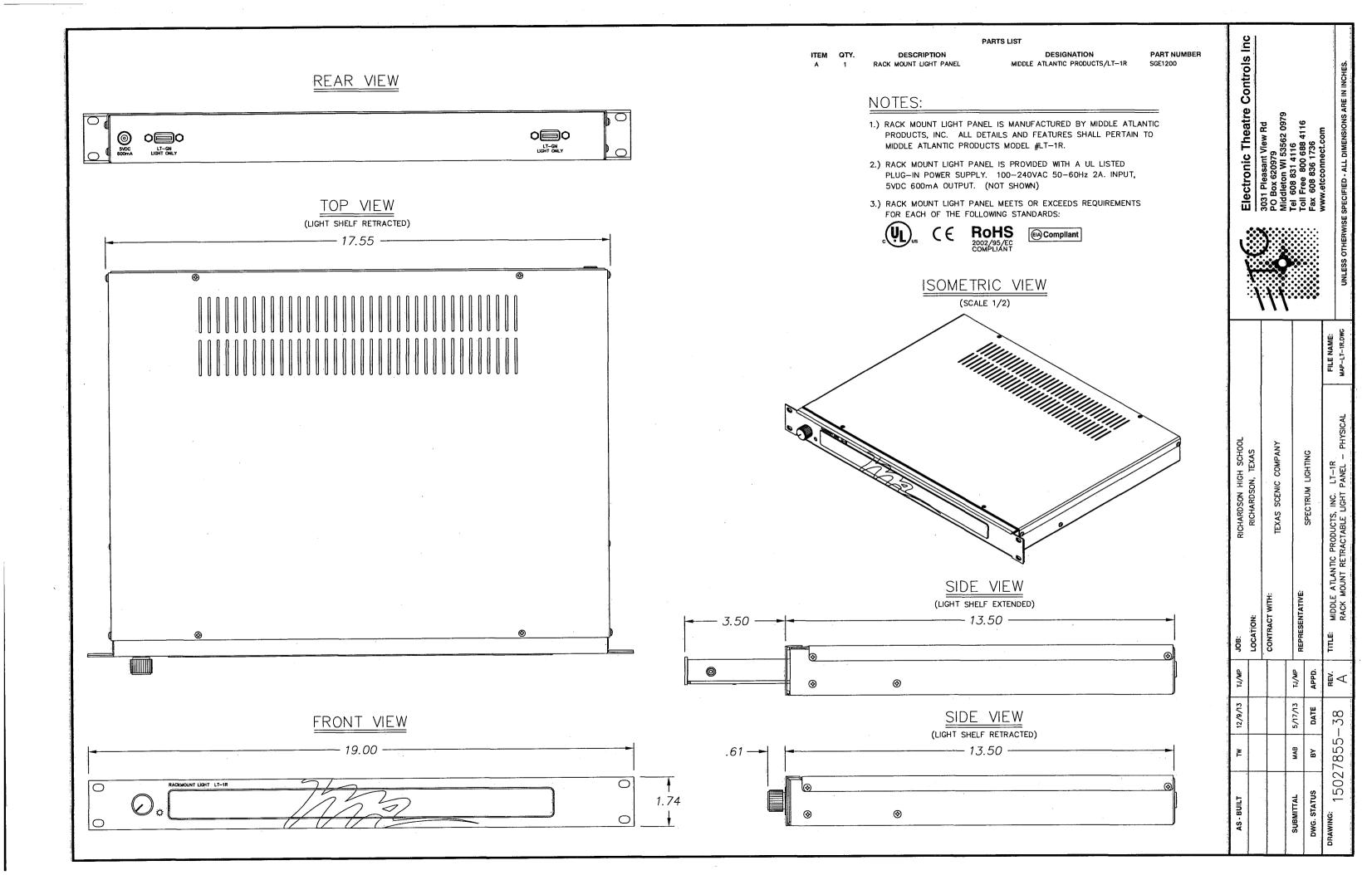
DWG. STATUS

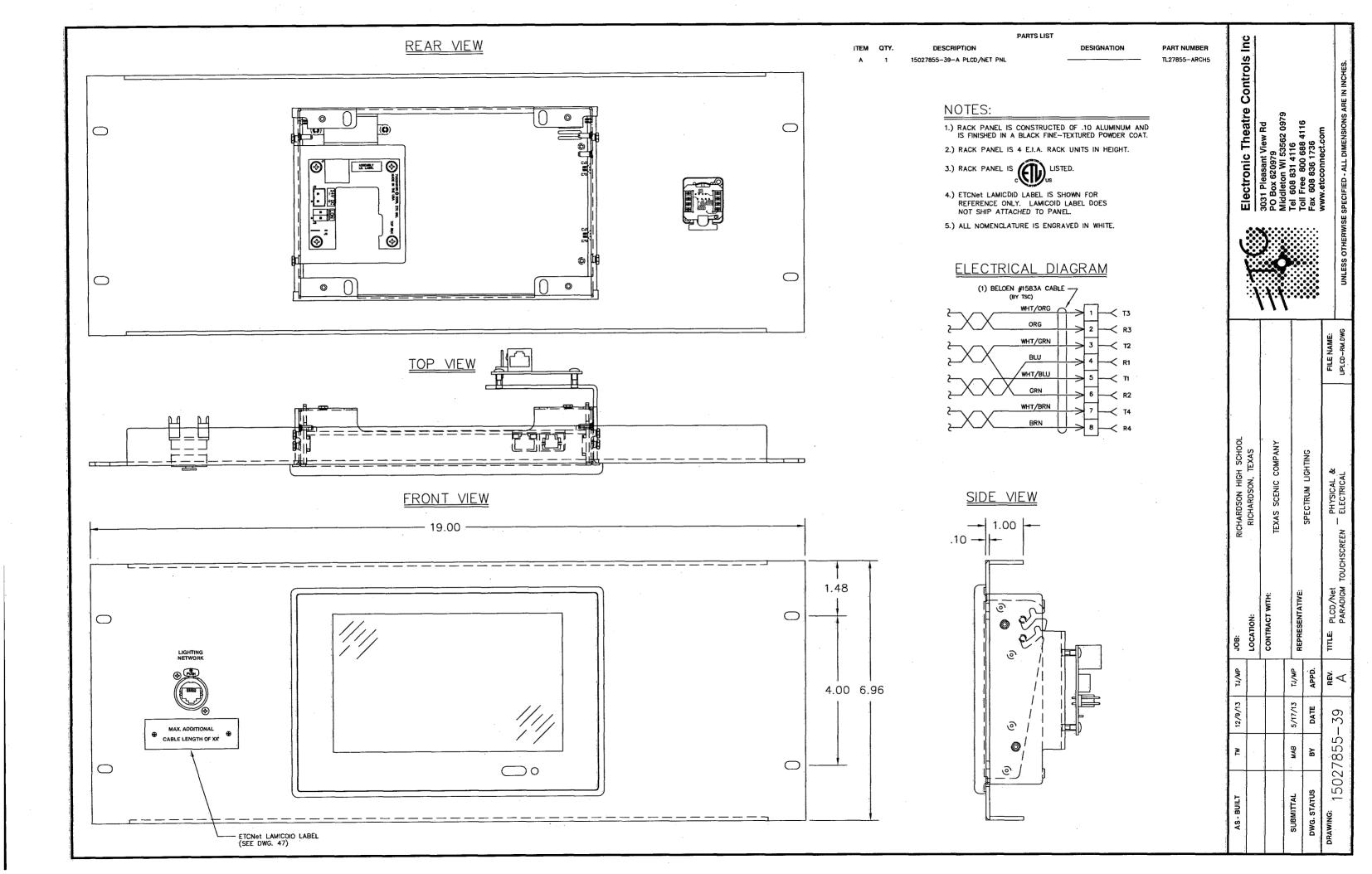
FRONT VIEW



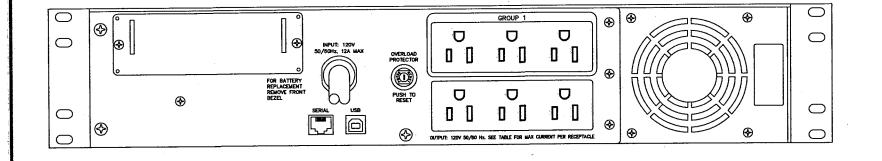








REAR VIEW



FRONT VIEW

19.00

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(483mm)

PARTS LIST

ITEM DESCRIPTION

.20 (5mm)

3.00 3.40 (76mm) (86mm)

Esc ^

APC 1500VA UNINTERRUPTIBLE POWER SUPPLY APC SPARE BATTERY SET

DESIGNATION

PART NUMBER

SGPS07 SGPS1008

Controls Inc

Electronic Theatre

(NOT SHOWN)

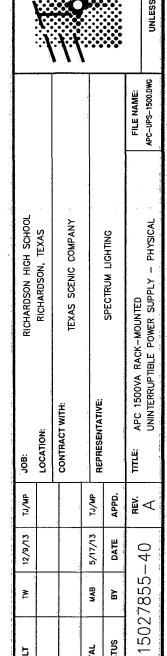
NOTES:

- 1.) UNINTERRUPTIBLE POWER SUPPLY IS MANUFACTURED BY APC. ALL DETAILS AND FEATURES SHALL PERTAIN TO APC SMT1500RM2U SPECIFICATIONS.
- 2.) UNINTERRUPTIBLE POWER SUPPLY IS 2 E.I.A. RACK UNITS IN HEIGHT.
- 3.) UNINTERRUPTIBLE POWER SUPPLY MEETS OR EXCEEDS REQUIREMENTS FOR EACH OF THE FOLLOWING STANDARDS:

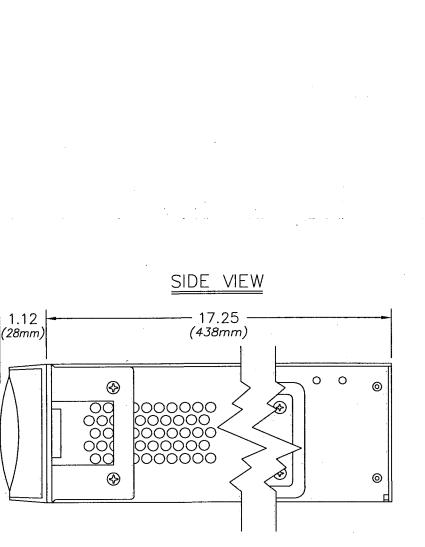




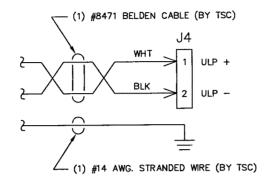




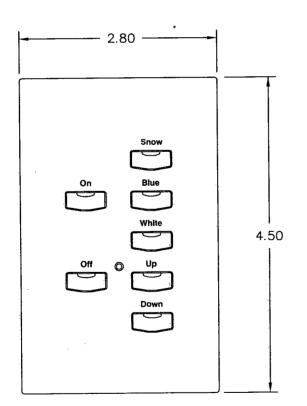
DWG. STATUS



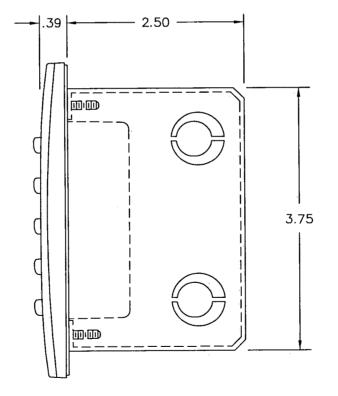
ELECTRICAL DIAGRAM



FRONT VIEW



SIDE VIEW



PARTS LIST

ITEM QTY. DESCRIPTION

15027855-41-A IDX ELECTRONICS ASSEMBLY; UNISON UH10007

DESIGNATION

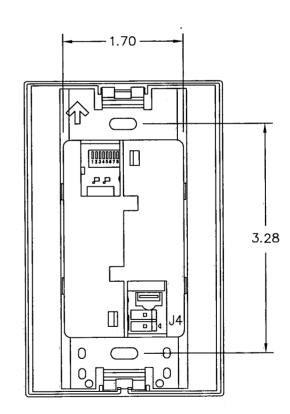
PART NUMBER TL27855-ARCH6 7181B2007

NOTES:

- 1.) FACE PANEL IS A CREAM ABS INJECTION-MOLDED PLASTIC.
- ALL NOMENCLATURE IS LASER MARKED WITH A CONTRASTING COLOR.
- 3.) BACK BOX SHALL BE SINGLE GANG 2.50" DEEP RACO #690 (OR EQUIVALENT) AND IS SUPPLIED BY OTHERS.
- 4.) STATION MEETS OR EXCEEDS REQUIREMENTS FOR THE FOLLOWING MARKINGS:
- 5.) IDX CONTROL STATIONS ARE LOCATED AS FOLLOWS: FLY RAIL

REAR VIEW

(BACK BOX REMOVED)

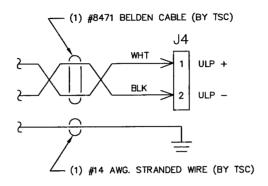


Controls Inc



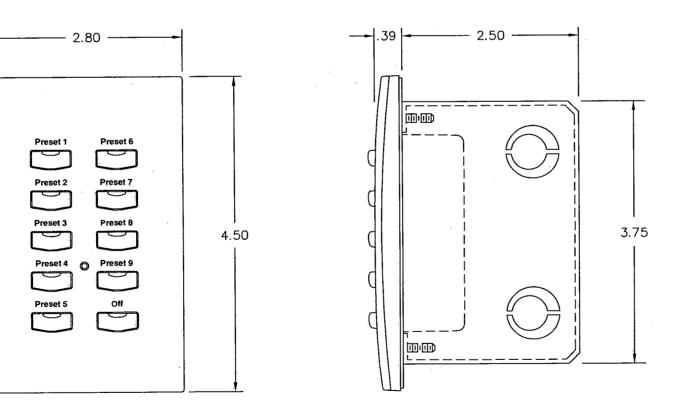
1	\	1	\				NALES
				1		FILE NAME:	UH10007.DWG
LOCATION: RICHAROSON, TEXAS		CONTRACT WITH: TEXAS SCENIC COMPANY		REPRESENTATIVE:	SPECTRUM LIGHTING	TITLE: IOY PHYSICAL &	OL STATION _
	L	TJ/MP		TJ/MP	APPD.	REV.	മ
		7/24/13 TJ/MP		5/17/13 TJ/MP	DATE	;	-41 B
		CA	П	MAB	ВУ	L (7/855-4
	- 3	1 3		- 1		. (N 1

ELECTRICAL DIAGRAM



FRONT VIEW

SIDE VIEW



PARTS LIST

ITEM QTY. DESCRIPTION

FACE PANEL ASSEMBLY; UNISON UH10010 ELECTRONICS ASSEMBLY; UNISON UH10010

DESIGNATION

7181A2205-1A 7181B2008

Controls Inc

Electronic Theatre

NOTES:

- 4.) STATION MEETS OR EXCEEDS REQUIREMENTS FOR THE FOLLOWING MARKINGS:

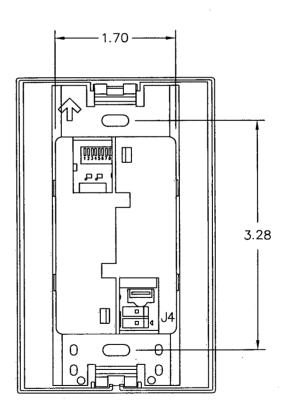




- 5.) STATION LOCATIONS ARE AS FOLLOWS;
- SR SL
- USR
- CATWALK
- HR ENTRANCE HL ENTRANCE
- HL CORRIDOR

REAR VIEW

(BACK BOX REMOVED)

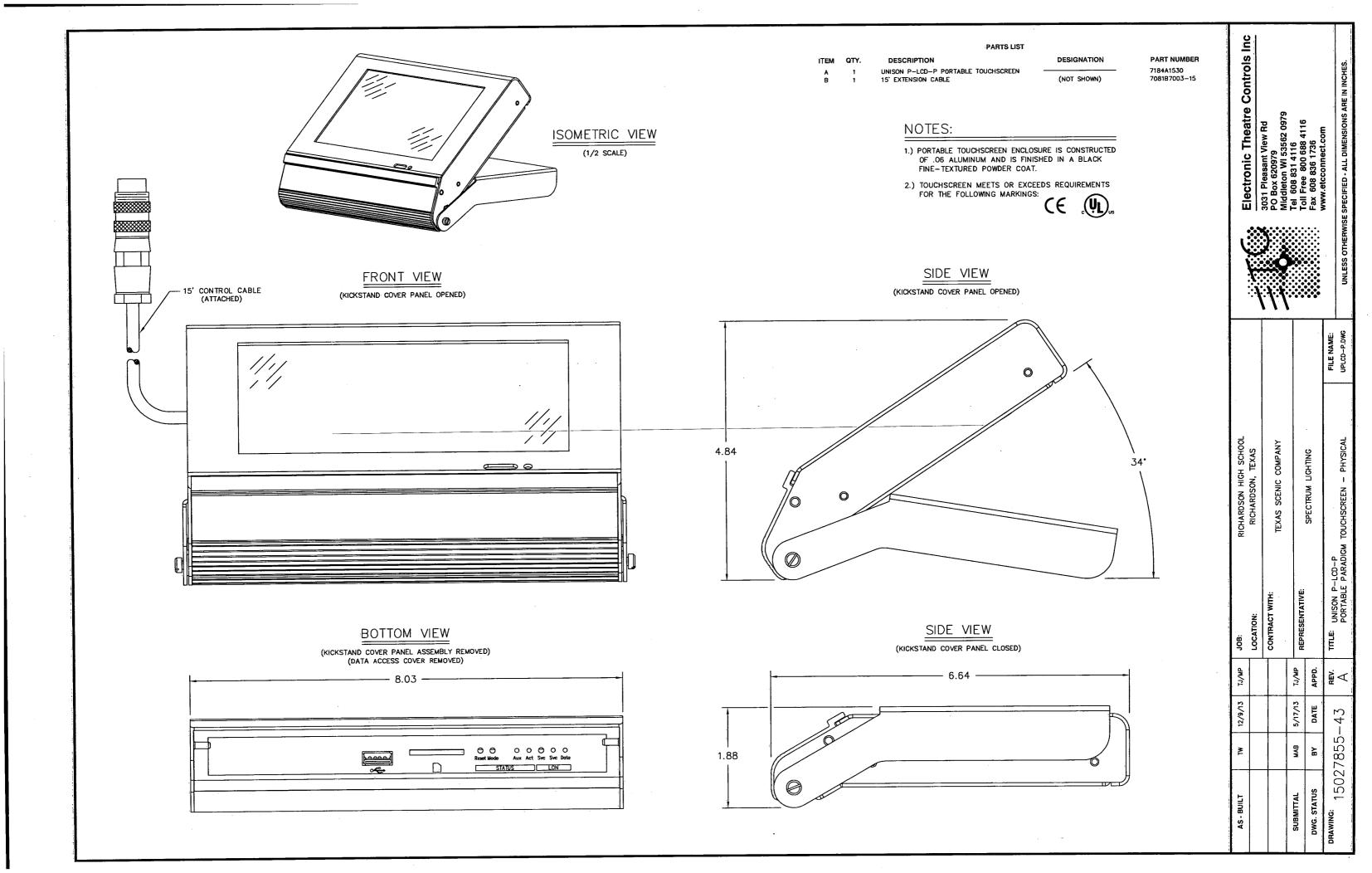


- 1.) FACE PANEL IS A CREAM ABS INJECTION-MOLDED PLASTIC.
- 2.) ALL NOMENCLATURE IS LASER MARKED WITH A CONTRASTING COLOR.
- 3.) BACK BOX SHALL BE SINGLE GANG 2.50" DEEP RACO #690 (OR EQUIVALENT) AND IS SUPPLIED BY OTHERS.



		\ \						UNLESS OT
							FILE NAME:	UH10010.DWG
	RICHARDSON HIGH SCHOOL	LOCATION: RICHARDSON, TEXAS		CONTRACT WITH: TEXAS SCENIC COMPANY	REPRESENTATIVE:	SPECTRUM LIGHTING	UNISON 11H10010 PHYSICAL &	PRESET STATION ELECTRICAL
	JWP JOB:	- FO		NOS	۸,	APPD.	REV. TITL	_ ∢
	12/9/13 TJ/MP	_	_		/13 TJ/MP			
	12/9,		-	-	5/17/13	DATE		822-47
:	≱				MAB	ВУ	L	ά

DWG. STATUS



PARTS LIST

ITEM QTY. DESCRIPTION 15027855-44-NET STN AAS 1 GANG SURFACE BOX 2.5" DESIGNATION

PART NUMBER TL27588-ARCH7 1064A1023 Controls Inc

Electronic Theatre

COMPANY

TEXAS SCENIC

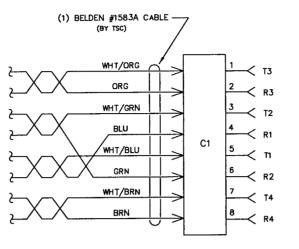
REVISION B

AS - BUILT

PHYSICAL & ELECTRICAL

15027855

ELECTRICAL DIAGRAM



NOTES:

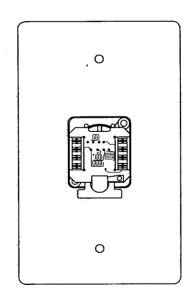
- 1.) FACE PANEL IS .08 ALUMINUM FINISHED IN A BLACK FINE—TEXTURED POWDER COAT.
- 2.) ALL NOMENCLATURE IS ENGRAVED IN WHITE.
- BACK BOX SHALL BE SINGLE GANG 2.50" DEEP RACO #690 (OR EQUIVALENT), AND IS SUPPLIED BY OTHERS. GANGABLE BACK BOX IS NOT ACCEPTABLE.
- 4.) ETCNet LAMICOID LABEL IS SHOWN FOR REFERENCE ONLY. LAMICOID LABEL DOES NOT SHIP ATTACHED TO PANEL.
- 5.) PLUG-IN STATIONS ARE LOCATED AS FOLLOWS:

 CATWALK/FOH1
 (2) FOH2
 DSR
 USL
 DSL
 (2) FOH1
 ORCH PIT
 (2) SIDE LICHTING

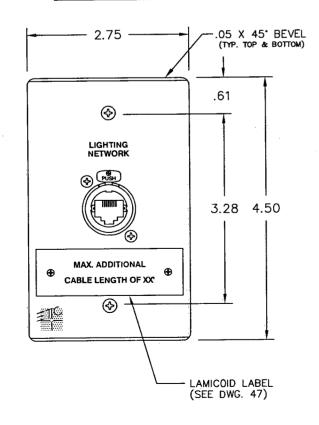
 - (2) SIDE LIGHTING USR

REAR VIEW

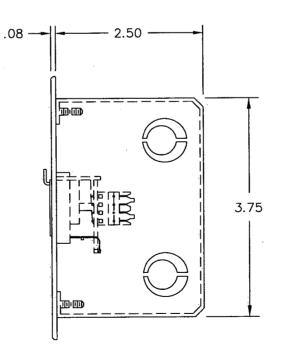
(BACK BOX AND WIRE CONNECTORS REMOVED)



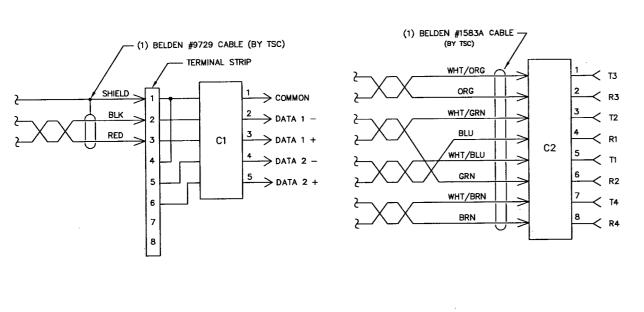
FRONT VIEW

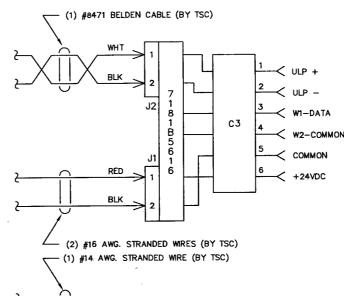


SIDE VIEW



ELECTRICAL DIAGRAM



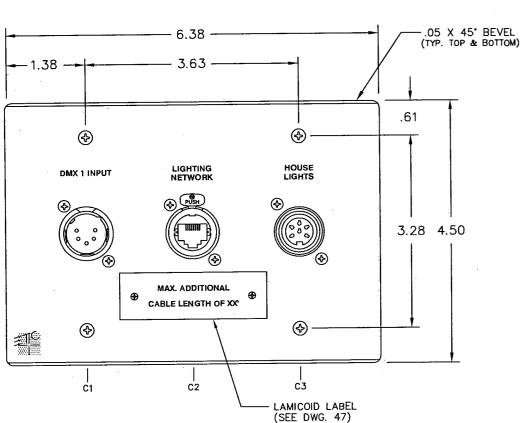


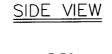
士

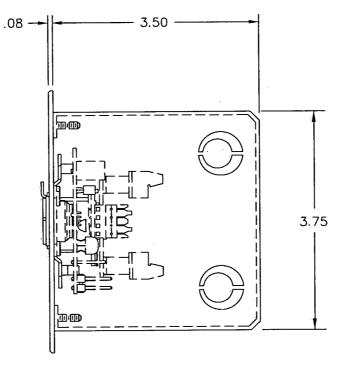
QTY.

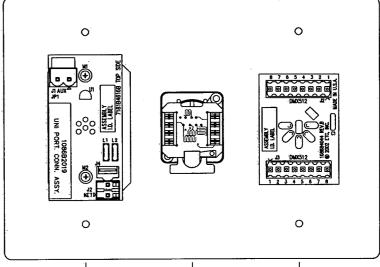
15027855-45-A CRS

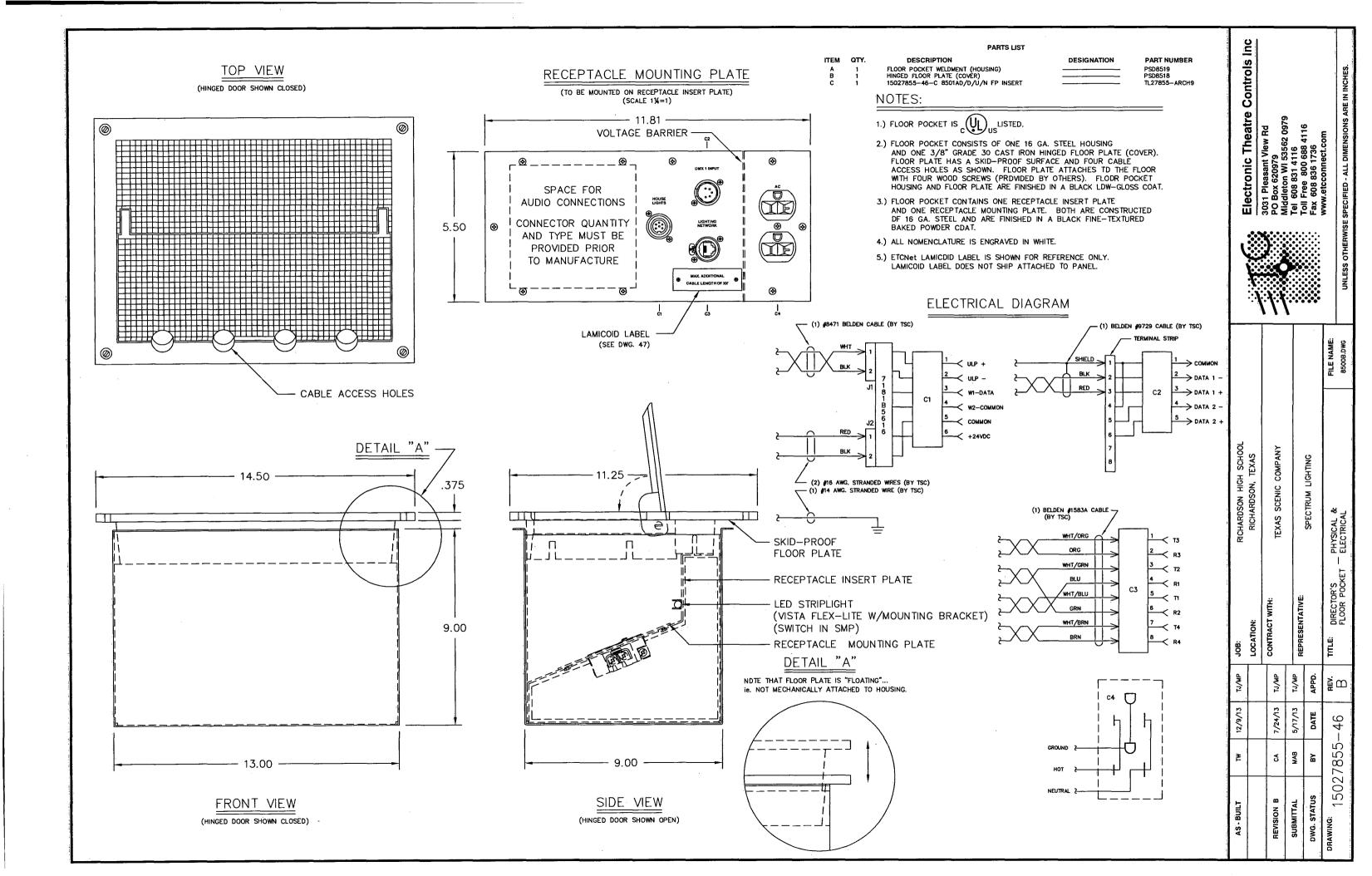
FRONT VIEW











PARTS LIST

ITEM QTY. A 19 DESCRIPTION
CUSTOM LAMICOID LABEL
SCR #4x3/16 PhPHST TYPE B BO

DESIGNATION

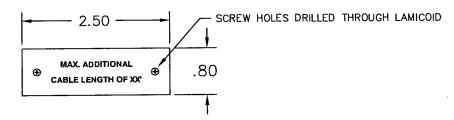
PART NUMBER 1100A4008 HW1235

NOTES:

- 1.) LABEL IS A BLACK LAMICOID WHICH SHALL BE LASER MARKED WITH .10 HIGH WHITE NOMENCLATURE PER CHART.
- 2.) XX' MAXIMUM ADDITIONAL CABLE LENGTH TO BE DETERMINED PRIOR TO MANUFACTURING.

LAMICOID LABEL DETAIL

(DIMENSIONS TYPICAL FOR ALL)



	LAMICO	ID LABEL	DESIGNATION CHA	ART .
DEVICE I.D.	NET RUN I.D. #		MAX. ADDITIONAL CABLE LENG (XX')	REFERENCE DWG.#
1st ELECTRIC	N20 & N21	249'		18
2nd ELECTRIC	N22 & N23	257'		18
3rd ELECTRIC	N24 & 25	260'		18
4th ELECTRIC	N26 & 27			18
PLCD/Net	N3 & N4	89'		39
ETCNet	N8	226'		44
ETCNet	N9	209'		44
ETCNet	N10	194'		44
ETCNet	N11	220'		44
ETCNet	N12	244'		44
ETCNet	N13	130'		44
ETCNet	N14	124'		44
ETCNet	N15			44
ETCNet	N16			44
ETCNet	N17			44
ETCNet	N18			44
ETCNet	N19			44
DIRECTOR'S FP	N2			46
CRS	N1			4 5

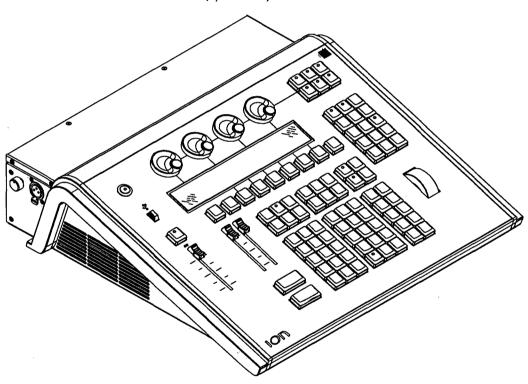
Electronic Theatre Controls Inc
3031 Pleasant View Rd
PO Box 620979
Middleton WI 53562 0979
Tel 608 831 4116
Toll Free 800 688 4116
Fax 608 836 1736
www.etcconnect.com

	·-}	.;	1:1			
					÷	FILE NAME: NET LAMICOD LABEL.DWG
	LOCATION: RICHARDSON, TEXAS		CONTRACT WITH: TEXAS SCENIC COMPANY	REPRESENTATIVE:	SPECTRUM LIGHTING	TITLE: ETCNet LAMICOID LABEL - PHYSICAL
			TJ/MP	TJ/MP	APPD.	.
			TW 12/9/13 TJ/MP	5/17/13 TJ/MP	DATE	-47
:			ML	MAB	ВУ	15027855-47
			REVISION B	SUBMITTAL	WG. STATUS	wing: 1502

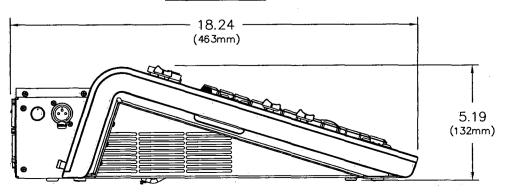
- 1.) CONTROL CONSOLE FACE PANEL IS .075 GALVANIZED STEEL AND CHASSIS IS CONSTRUCTED OF .062 ALUMINUM. BOTH ARE FINISHED IN A BLACK FINE—TEXTURED POWDER COAT.
- 2.) FACE PANEL AND REAR PANEL NOMENCLATURE IS REVERSE—SILKSCREENED ONTO ADHESIVE LEXAN LABELS.
- 3.) APPROXIMATE WEIGHT OF UNIT IS 20.35 lbs. (9.23 kg).
- 4.) CONTROL CONSOLE INCLUDES MOUSE, KEYBOARD, (3) IEC POWER CABLES (US/UK/Schuko), USB FLASH DRIVE AND DUST COVER (NOT SHOWN FOR DRAWING CLARITY).
- 5.) CONTROL CONSOLE MEETS OR EXCEEDS REQUIREMENTS FOR THE FOLLOWING MARKINGS:

ISOMETRIC VIEW

(3/4 SCALE)



SIDE VIEW



PARTS LIST

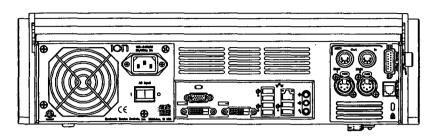
EM CITY.

DESCRIPTION

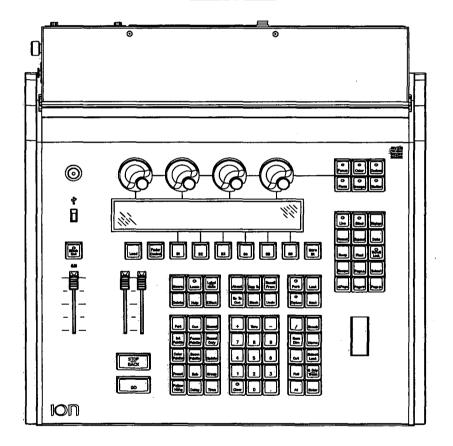
ION 2000 CONTROL CONSOLE
EOS CLIENT SOFTWARE KIT

OESIGNATION (2048 OUTPUTS) (NOT SHOWN) PART NUMBER 4310A1014 4250S1001

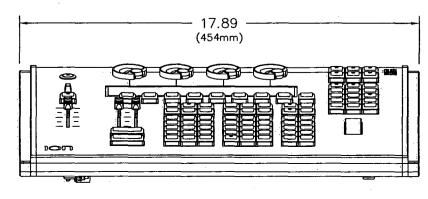
REAR VIEW



TOP VIEW



FRONT VIEW



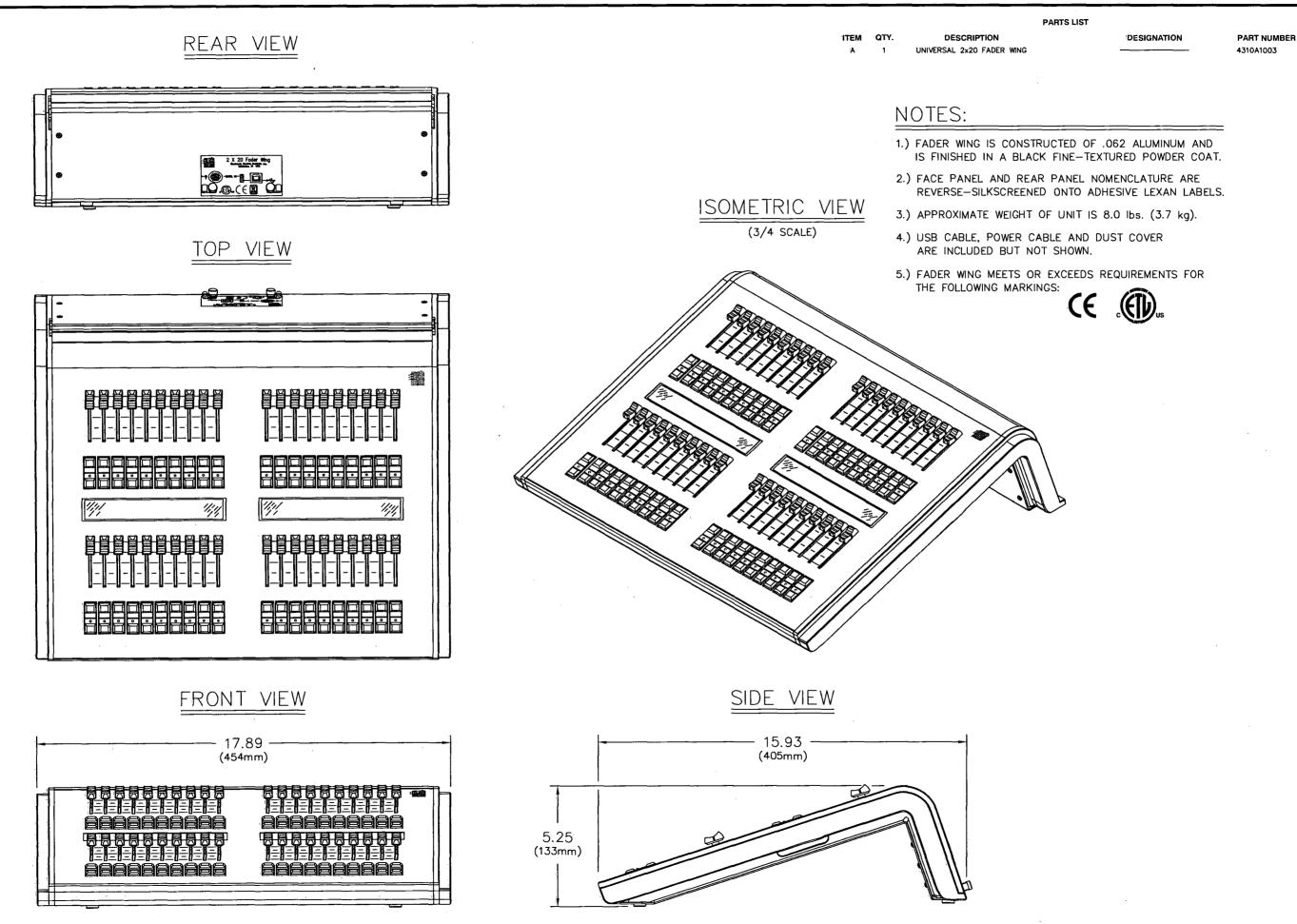
atre Controls Inc

031 Pleasant View Rd
O Box 620979
Middleton WI 53562 0979
el 608 831 4116

3031 Pleasant
PO Box 620978
Middleton WI E
Tel 608 831 41



		_	_		_
				LOCATION: RICHARDSON, TEXAS	
				CONTRACT WITH: TEXAS SCENIC COMPANY	
SUBMITIAL	MAB	MAB 5/17/13 1J/MP	dw/cı	REPRESENTATIVE:	
DWG. STATUS	ВУ	DATE	APPD.	SPECTRUM LIGHTING	-
DRAWING: 1EOO	7055	0 7	REV.	TITLE: ION 2000 FILE NAME:	NAME:
7001	1302/833-48	A 84-cc0/	<	CONTROL CONSOLE - PHYSICAL	DWG



Electronic Theatre Controls Inc

DATE

В

DWG. STATUS

