LAKE HIGHLANDS HIGH SCHOOL - STUDIO RICHARDSON, TEXAS JOB #15064253

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



ETC, Inc.

3031 Pleasant View Rd PO Box 620979 Middleton WI 53562-0979 Tel +1 608 831 4116 Toll Free +1 800 688 4116 Fax +1 608 836 1736 etcconnect.com

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES

ORIGINAL FILE:

INDEX.DWG

CONTRACT WITH:

TEXAS SCENIC COMPANY, INC

REPRESENTATIVE:

HORTON CONTROLS GROUP

PROJECT MANAGER:

LEEAH STICKELMAIER

APPLICATIONS ENGINEER:

DRAWING TITLE:

TITLE PAGE/DRAWING INDEX

TW 10/19/20 SUBMITTA
BY DATE REV.

JC

LAKE HIGHLANDS HIGH SCHOOL — STUDIO

LOCATION:

RICHARDSON, TEXAS

JOB NUMBER

15064253

DRAWING:

CONTACTS:

PROJECT MANAGER:

Direct Tel: 888-908-2148 E-mail: leeah.stickelmaier@etcconnect.com

CONTRACT WITH:

Texas Scenic Company, Inc. 8053 Potranco Road San Antonio, Texas 78251-2915 Tel: 210-684-0091 Fax: 210-256-8887

REPRESENTATIVE:

Horton Controls Group 101 Turtle Creek Boulevard Dallas, Texas 75207-6807 Tel: 214-658-9030 Fax: 469-208-2420

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.) A sample of approved cables that can be substituted in place of the recommended cables are listed below. For a full list, use the link below or use QR code. http://www.etcconnect.com/Support/Cable-Cross-Database.aspx



Scan to see what cables have been approved.

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

Carrage Baralia		Feed Termination					
Sensor Racks	Line Feed	Neutral Feed	Ground Lug(s)	Wire Type			
Sensor SR3-6	1x 2/0 to	14 AWG					
Sensor SR3-12	2x 250 kcm	2x 250 kcmil to 6 AWG		CU / AL			
Sensor SR3-24	2x 350 kcm	il to 4 AWG					
Sensor SR3-48	2x 600 kcm	il to 2 AWG	250 kcmil to 6 AWG	CU / AL*			
Sensor SK3-48		600A with aluminum f		1 00//			

Camaan Assa Baalsa	Feed Termination					
Sensor Aux. Racks	Line Feed	Neutral Feed	Ground Lug(s)	Wire Type		
Main Lug 800A (19" and 30")	2x 600 kcm	il to 2 AWG				
Main Lug 1000-2000A (30")	6x 600 kcm	6x 600 kcmil to 2 AWG				
65K AIC MCB 300-400A (19")	2x 500 kcmil to 3/0		2x 600 kcmil to 2 AWG	CU / AL*		
65K AIC MCB 600A (19" and 30")	3x 500 kcmil to 1					
65K AIC MCB 800A (19" and 30")	AWG	2 6001 11 2 4446				
65K AIC MCB 1000A (30")	4x 500 kcmil to 1/0	2x 600 kcmil to 2 AWG				
65K AIC MCB 1200A (30")	6x 750 kcmil to 1/0					
65K AIC MCB 1600A (30")	5x 600 to 300 kcmil			CU		
* Aluminum fe	eds suitable for 80% ra	ted breakers and main l	ugs at 1200A and less	•		

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

Please contact ETC, Inc. if requirements vary from above listing.





Unison DRd Racks	Feed Termination			
Unison Dra Racks	Line Feed	Neutral Feed	Ground Lug(s)	Wire Type
Unison DRd6	1x 2/0 to 14 AWG	4+- 44 004/6	4 to 14 AWG	CU
Unison DRd12	n DRd12		4 to 14 AWG	

Right Bussed

Unison DRd Aux.	Feed Termination			
Racks	Line Feed	Neutral Feed	Ground Lug(s)	Wire Type
Unison AX6/AX12(X) (1Ø) MCB	2x 400 kcmil to 2/0	2x 500 kcmil to 4	2/0 to 6 AWG	CU / AL
Unison AX6/AX12(X) (3Ø) MCB	1x 350 kcmil to 8 AWG	AWG	350 kcmil to 1 AWG	COTAL
Unison AX12X (1Ø,3Ø) Main Lug	2x 500 kcmil to 4 AWG		2/0 to 6 AWG	CU

Utilize 90°C 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

* Sensor and Unison dimming rack load terminations are provided as follows: 50A, 20A, 15A and 10A Loads 4 - 14 AWG. copper wire 100A Loads . 2/0 to 14 AWG, copper wire

PROJECT NOTES

J.) Echo Relay Panel Feedthrough is provided with terminals as follows:

Relay Line/Load 10 - 14 AWG, copper wire

K.) Echo Room Controllers (4 and 8 channel) and Foundry Mini Panels (4 and 8 channel) have terminals as follows:

Relay IN/THRU/OUT 6 - 20 AWG. copper wire

L) Echo Relay Panel Mains Fed Primary Feed Terminations are provided as follows:

Echo Relay Panel	Feed Termination				
Mains Fed	Feed Wiring	Ground Lug(s)	Wire Type		
Main Lugs (1Ø,3Ø)	300 kcmil to 4 AWG				
MCB 120V/240V 1Ø, 100-200A	300 kcmil to 1 AWG				
MCB 120V/208V 3Ø, 100A	3/0 to 8 AWG	300 kcmil to 4 AWG	CU / AL		
MCB 120V/208V 3Ø, 200A	300 kcmil to 3/0				
MCB 277V/480V 3Ø, 150-200A	350 kcmil to 6 AWG				

* Echo Relay Panel Mains Fed load terminations are provided as follows:

Load Output 6 - 20 AWG. copper wire Load Neutral .6 - 14 AWG, copper wire Circuit breaker outputs accept 10 AWG. copper wire

M.) Sensor IQ Panel Primary Feed Terminations are provided as follows

Concor IO Donolo	Feed Termination					
Sensor IQ Panels	Line Feed	Neutral Feed	Ground Lug(s)	Wire Type		
Main Lugs (1Ø,3Ø)	2x 250 kcmil to 6 AWG					
MCB (1Ø,3Ø), 100A, 22kA	11 +- 1 414/6		12- and 24-channel:			
MCB 277V/480V 3Ø, 100A	1x 1 to 4 AWG	12- and 24-channel:	1x 2/0 to 14 AWG			
MCB (1Ø,3Ø), 200A, 22kA		1x 350 kcmil to 6 AWG				
MCB 277V/480V 3Ø, 200A	1x 300 kcmil to 1 AWG			CU / AL		
MCB 120V/208V 3Ø, 100A, 65kA		48-channel:	48-channel and			
MCB 120V/208V 3Ø, 200A, 65kA	1x 300 kcmil to 4 AWG	2x 350 kcmil to 6 AWG	Iso Ground kits: 1x 350 kcmil to 6 AWG			
MCB (1Ø,3Ø), 400A, 65kA	2 250 2/0		1x 330 kemii to 0 Avv d			
MCB 277/480V 3Ø, 400A	2x 250 kcmil to 3/0					

* Sensor IQ load terminations are provided as follows:

Neutral, Ground, Iso Ground 4 - 14 AWG, copper wire

16 - 6 AWG. solid copper wire, class B, C & K Circuit Breaker Output

or - 2x 12 AWG. or 2x 10 AWG. stranded wire, class B, C & K

* Sensor IQ power accessory kits accept the following wires:

Sensor IO Fuse Kit . . 2x 250 kcmil - 6 AWG. copper/aluminum wire

Sensor IQ 500kcmil Kit 500 kcmil max. copper/aluminum wire

N.) PowerSafe Company Switch Primary Feed Terminations are provided as follows:

PowerSafe Company	Feed Termination				
Switch	Line Feed	Neutral*	Ground Lug(s)	Wire Type	
PowerSafe Pro/Compact 100A	1/0 to 3 AWG		250 kcmil to 6 AWG		
PowerSafe Pro/Compact 200A	300 kcmil to 4 AWG	500 kcmil to 4 AWG	500 kcmil to 4 AWG	CU / AL	
PowerSafe Pro 400A	500 kcmil to 3/0		500 KCMII to 4 AWG		
* PowerSafe Pro enclosures feature a double neutral					

* PowerSafe Pro and PowerSafe Compact output lug specifications are as follows:

PowerSafe Compact 4/0 - 4 AWG. copper wire . . 4/0 - 4 AWG. copper wire with dual neutral Up to 500 kcmil class B or C wire acceptable

O.) ELTS2 Primary Feed Terminations are provided as follows

ELTS2	Feed Termination			
ELISZ	Feed Wiring	Ground Lug(s)	Wire Type	
Type D Inputs (Normal/Emerg.)	8 to 12 AWG	(none provided)		
Type M Inputs (Normal)	8 to 14 AWG	(none provided)		
Type M (2-12 circuit) Emerg.	2/0 to 14 AWG	2/0 to 14 AWG		
Type M (2-24 circuit) Emerg.	350 kcmil to 6 AWG	2/0 to 14 AWG CU		
Emerg. Lighting Loads (D & M)	8 to 22 AWG	(none provided)		
Normal Sense Feed	6 to 20 AWG	(none provided)		

P.) Branch Circuit Emergency Lighting Transfer Switch (BCELTS) terminals are provided as follows:

Line/Load Terminals (1-7) 10 - 18 AWG. copper wire . 10 - 20 AWG. copper wire . 6 - 14 AWG. copper wire Earth Ground

Q.) Automatic Load Control Relay (ALCR) terminals each accept a single copper wire 12 - 30 AWG.

SYSTEM STARTUP

NOTIFICATION:

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

ETC CONTRACTOR CHECKLIST:

If a System Startup is included with the purchase of the system, the following checklist notes the conditions that must be met before the Field Service Technician can startup 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!

- ☐ All dimmer and relay panels are rigidly attached to the mounting surface.
- ☐ Dimmer panel(s) have sufficient access to the front and left for door clearance with TEN INCHES of unobstructed clearance above the fan(s).
- ☐ Feeder cable is pulled into the rack(s) and terminated in accordance with the ETC installation manuals.
- All branch circuits originating from the dimmer or relay panel(s) are installed and terminated on both ends.
- ☐ All loads have separate neutrals.
- ☐ All air gaps in the dimmer panel(s) are sealed, making each dimmer rack section an airtight enclosure.
- ☐ Any equipment racks must be mounted and powered as specified in drawings.
- ☐ Control cables are proper type and are installed as specified in the ETC submittal drawings.
- ☐ All back boxes are mounted and supplied with specified data cable tails at least three feet long.
- ☐ All control cable runs are installed as specified in the ETC submittal drawings.
- ☐ All control cable is labeled at BOTH ends as specified in the ETC submittal drawings
- ☐ If system was sold as "Terminations By Others", all data terminations must be completed.
- ☐ All appropriate personnel are scheduled and available for training. ☐ All 0-10V fixture lines are metered to ensure no line voltage is present between conductors
- or between conductors and ground and are terminated properly
- ☐ All RDM/DMX fixtures are addressed and documentation is available for the ETC technician.

☐ A complete and accurate load schedule is available for the ETC technician

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ORIGINAL FILE:

NOTES.DWG

CONTRACT WITH:

TEXAS SCENIC COMPANY, INC

REPRESENTATIVE:

HORTON CONTROLS GROUP

PROJECT MANAGER:

LEEAH STICKELMAIER

APPLICATIONS ENGINEER:

DRAWING TITLE:

PROJECT NOTES

10/19/20 SUBMITTA BY DATE REV.

JOB:

LAKE HIGHLANDS HIGH SCHOOL - STUDIO

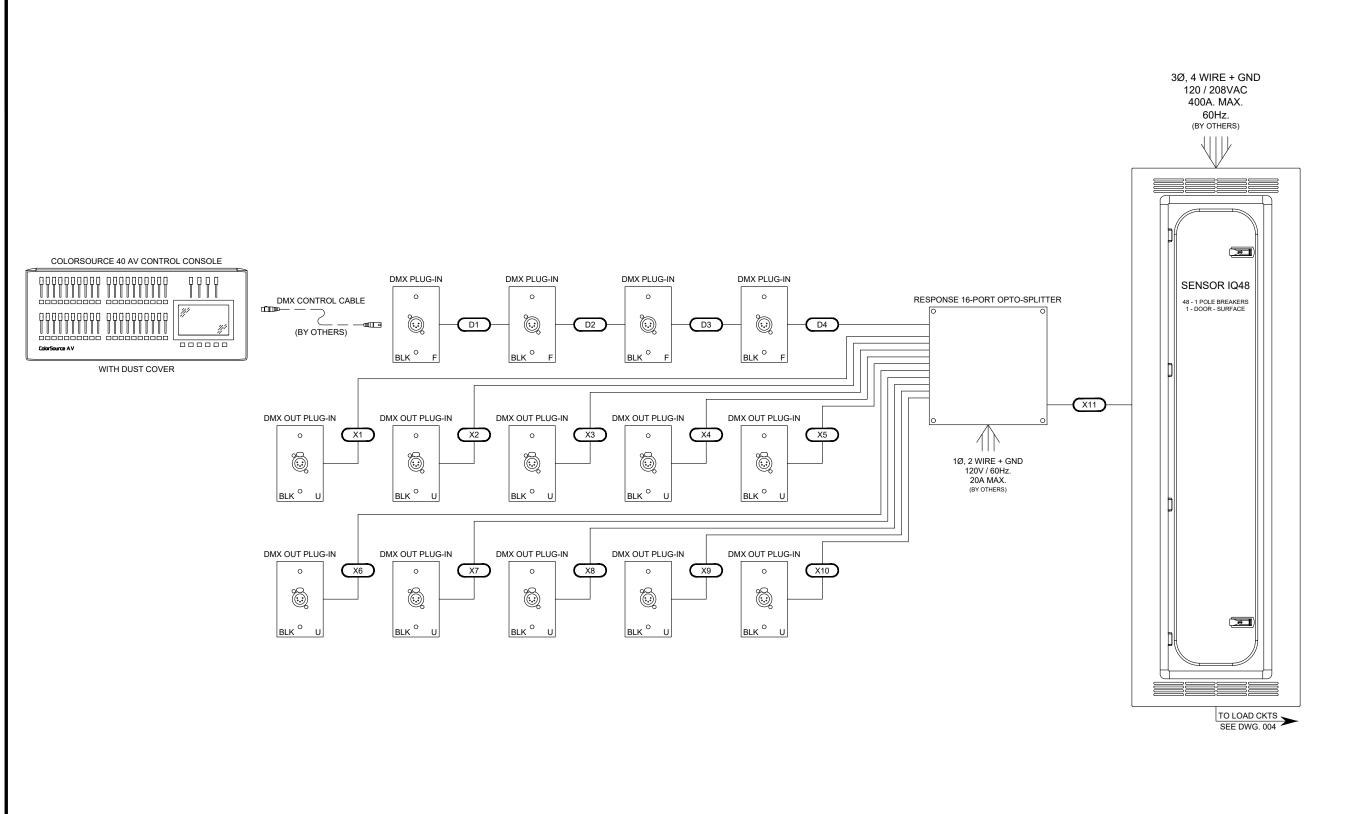
LOCATION:

RICHARDSON, TEXAS

JOB NUMBER:

15064253

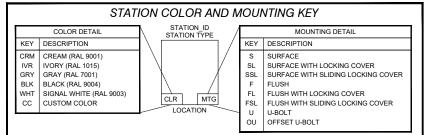
DRAWING:



	CONTROL WIRING LEGEND				
SYMBOL	WIRE TYPE(S)	SIGNAL			
D*	(1) BELDEN #1583A	DMX INPUT (Cat5e)			
<u> </u>	(1) BELDEN #1583A	DMX OUTPUT (Cat5e)			
* :	= WIRE IDENTIFICATION NUMBER	(NOT QUANTITY)			

NOTE:

ALL CONTROL WIRING IS PROVIDED BY OTHERS UNLESS NOTED OTHERWISE.





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ORIGINAL FILE:

RISER-SENSOR ICON.DWG

CONTRACT WITH:

TEXAS SCENIC COMPANY, INC

REPRESENTATIVE:

HORTON CONTROLS GROUP

PROJECT MANAGER:

LEEAH STICKELMAIER

APPLICATIONS ENGINEER:

DRAWING TITLE:

SYSTEM RISER

TW 10/19/20 SUBMITTAL
BY DATE REV.

JOB:

LAKE HIGHLANDS HIGH SCHOOL – STUDIO

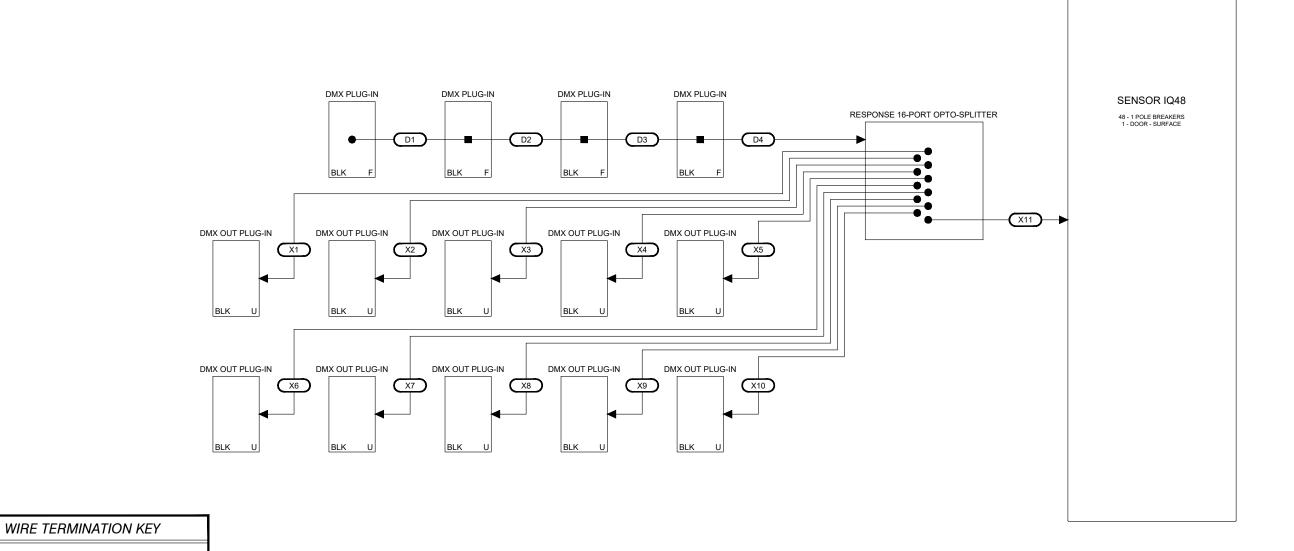
LOCATION:

RICHARDSON, TEXAS

JOB NUMBER:

15064253

DRAWING



ETC.

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UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES

ORIGINAL FILE:

RISER-SENSOR ICON.DWG

CONTRACT WITH:

TEXAS SCENIC COMPANY, INC

REPRESENTATIVE:

HORTON CONTROLS GROUP

PROJECT MANAGER:

LEEAH STICKELMAIER

APPLICATIONS ENGINEER:

DRAWING TITLE:

CONTROL WIRING DIAGRAM

JOB:	•	
ву	DATE	REV.
TW	10/19/20	SUBMITT.

LAKE HIGHLANDS HIGH SCHOOL — STUDIO

LOCATION:

STATION COLOR AND MOUNTING KEY

MOUNTING DETAIL

SURFACE WITH SLIDING LOCKING COVER

SURFACE WITH LOCKING COVER

FLUSH WITH LOCKING COVER

FSL FLUSH WITH SLIDING LOCKING COVER
U U-BOLT
OU OFFSET U-BOLT

KEY DESCRIPTION

S SURFACE

STATION_ID STATION TYPE

CLR

COLOR DETAIL

KEY DESCRIPTION

CRM CREAM (RAL 9001)

IVR IVORY (RAL 1015)

GRY GRAY (RAL 7001)

BLK BLACK (RAL 9004)

CC CUSTOM COLOR

WHT SIGNAL WHITE (RAL 9003)

RICHARDSON, TEXAS

JOB NUMBER

15064253

DRAWING

003

NOTE:

Start Termination PointEnd Termination PointTermination Point

(Cat5e)

— Splice

CONTROL WIRING LEGEND

* = WIRE IDENTIFICATION NUMBER (NOT QUANTITY)

- — — Pass through

(1) BELDEN #1583A

(1) BELDEN #1583A

D*

X*

ALL CONTROL WIRING IS PROVIDED BY OTHERS UNLESS NOTED OTHERWISE.

	SENSOR IQ PANEL COMPONENTS					
ITEM	ITEM MODEL # QUANTITY DESCRIPTION ETC PART #					
A B C	B IQ DOOR 120-48S 1 IQ48 SURFACE MOUNT DOOR 7131A1551					

NOTE:

HYPERLINKS TO PRODUCT DATASHEETS ARE ATTACHED IN THE ITEM DESCRIPTION.

SENSOR IQ 48 3 Ø RELAY PANEL																						
JOB NUMBER: 15064253				JOB NAMI	JOB NAME: Lake Highlands HS - Studio				DATE: 10/1/2020				REVISION: SUB			SUB	PROJECT NOTE:					
SLOT	LOT RELAY / DIMMER	ANAE	AMP ADDRESS UNI ADD		DESCRIPTION	FIXTURE			LOAD PHASING			G	FIXTURE		TURE	DESCRIPTION	ADDRESS AMP		RELAY / DIMMER SLOT			
3101		Aivir				CALL	TYPE	QTY	LOAD		4		В		<u>c </u>	LOAD	QTY	TYPE CALL	DESCRIPTION	ADD UNI	RELAT / DIIVIIVIER SLOT	
1	1P RELAY/BREAKER	20	1	1						0	0		_	_						2 1	20	1P RELAY/BREAKER 2
3	1P RELAY/BREAKER	20	1	3								0	0							4 1	20	1P RELAY/BREAKER 4
5	1P RELAY/BREAKER	20	1	5								_		0	0					6 1	20	1P RELAY/BREAKER 6
7	1P RELAY/BREAKER	20	1	7						0	0			-						8 1	20	1P RELAY/BREAKER 8
9	1P RELAY/BREAKER	20	1	9								0	0							10 1	20	1P RELAY/BREAKER 10
11	1P RELAY/BREAKER	20	1	11								_		0	0					12 1	20	1P RELAY/BREAKER 12
13	1P RELAY/BREAKER	20	1	13						0	0			_						14 1	20	1P RELAY/BREAKER 14
15	1P RELAY/BREAKER	20	1	15								0	0							16 1	20	1P RELAY/BREAKER 16
17	1P RELAY/BREAKER	20	1	17								_		0	0					18 1	20	1P RELAY/BREAKER 18
19	1P RELAY/BREAKER	20	1	19						0	0			-						20 1	20	1P RELAY/BREAKER 20
21	1P RELAY/BREAKER	20	1	21								0	0							22 1	20	1P RELAY/BREAKER 22
23	1P RELAY/BREAKER	20	1	23								_		0	0					24 1	20	1P RELAY/BREAKER 24
25	1P RELAY/BREAKER	20	1	25						0	0			_						26 1	20	1P RELAY/BREAKER 26
27	1P RELAY/BREAKER	20	1	27								0	0							28 1	20	1P RELAY/BREAKER 28
29	1P RELAY/BREAKER	20	1	29								_		0	0					30 1	20	1P RELAY/BREAKER 30
31	1P RELAY/BREAKER	20	1	31						0	0			-						32 1	20	1P RELAY/BREAKER 32
33	1P RELAY/BREAKER	20	1	33								0	0							34 1	20	1P RELAY/BREAKER 34
35	1P RELAY/BREAKER	20	1	35								_		0	0					36 1	20	1P RELAY/BREAKER 36
37	1P RELAY/BREAKER	20	1	37						0	0			,						38 1	20	1P RELAY/BREAKER 38
39	1P RELAY/BREAKER	20	1	39								0	0							40 1	20	1P RELAY/BREAKER 40
41	1P RELAY/BREAKER	20	1	41								,		0	0					42 1	20	1P RELAY/BREAKER 42
43	1P RELAY/BREAKER	20	1	43						0	0		T.	-						44 1	20	1P RELAY/BREAKER 44
45	1P RELAY/BREAKER	20	1	45								0	0							46 1	20	1P RELAY/BREAKER 46
47	1P RELAY/BREAKER	20	1	47										0	0					48 1	20	1P RELAY/BREAKER 48



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ORIGINAL FILE:

BOM-SCHEDULE SENSOR IQ.DWG

CONTRACT WITH:

TEXAS SCENIC COMPANY, INC

REPRESENTATIVE:

HORTON CONTROLS GROUP

PROJECT MANAGER:

LEEAH STICKELMAIER

APPLICATIONS ENGINEER:

DRAWING TITLE:

SENSOR IQ BREAKER SYSTEM BOM & LOAD SCHEDULE

BY	DATE	REV.
TW	10/19/20	SUBMITTAL

JOB

LAKE HIGHLANDS HIGH SCHOOL — STUDIO

LOCATION:

RICHARDSON, TEXAS

JOB NUMBER:

15064253

DRAWING:

ADDITIONAL COMPONENTS								
MODEL#	QUANTITY	DESCRIPTION	ETC PART #					
RSN-OPTO-DBOX	1	RESPONSE DUAL OPTO-SPLITTER DIN BOX	4267K1032					
DMX	4	ECPB DMX IN	1094A1033					
DMX OUT	10	ECPB DMX OUT	1094A1034					
	10	BACKBOX, 1 GANG SURF 2.5" cUL	1064A1023					
	10	SINGLE/DOUBLE GANG U-BOLT BRACKET ASSEMBLY	2100A1302					
CS40AV	1	COLORSOURCE 40 AV CONTROL CONSOLE	7225A1101-US					
CS40-DC	1	COLORSOURCE 40 DUST COVER	7225A4021					

NOTES:

- 1.) SYSTEM COMPONENTS LIST DOES NOT INCLUDE ALL ITEMS ON SYSTEM. SEE SALES ORDER ACKNOWLEDGEMENT FOR ENTIRE BILL OF MATERIALS.
- 2.) HYPERLINKS TO PRODUCT DATASHEETS ARE ATTACHED IN THE ITEM DESCRIPTION.



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ADDITIONAL COMPONENTS.DWG

CONTRACT WITH:

TEXAS SCENIC COMPANY, INC

REPRESENTATIVE:

HORTON CONTROLS GROUP

PROJECT MANAGER:

LEEAH STICKELMAIER

APPLICATIONS ENGINEER:

DRAWING TITLE:

ADDITIONAL COMPONENTS

IOD:		
ву	DATE	REV.
TW	10/12/20	SUBMITTA

LAKE HIGHLANDS HIGH SCHOOL - STUDIO

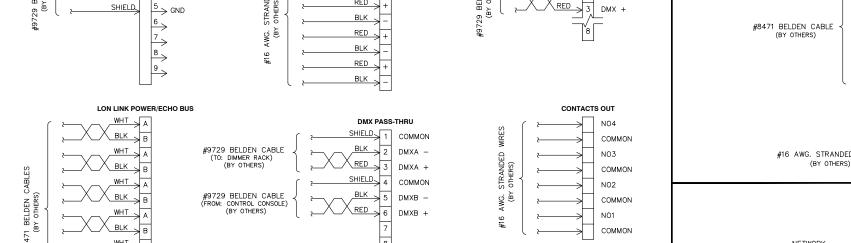
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JOB NUMBER:

15064253

TYPICAL WIRING CONNECTIONS **:::**:= **ECHO DISTRIBUTED** UP TO (12) #24-#12 AWG, STRANDED WIRES (BY OTHERS) ECIO CONTACT OUTPUTS ROOM CONTROLLER UP TO (8) #24-#12 AWG. STRANDED WIRES (BY OTHERS) CONTACT INPUTS ROOM CONTROLLER STATION WIRING ROOM CONTROLLER N.C. ECIL CONTACT INPUTS J3 (EMERGENCY IN) 0-10V OUTPUTS J5 (A/V IN) COMMON INPUT 2 #16 AWG. STRANDED WIRES (BY OTHERS) J11 (STATIONS) INPUT 2 #16 AWG. STRANDED WIRES (BY OTHERS) (TYPICAL OF 4 OR 8) N.O. ⇒l2 I V OUT 24V COM 5 #16 AWG. STRANDED WIRES (BY OTHERS) ≤ N.C. ETC, Inc. J7 (CH1 0-10V OUT) 2 IN EARTH GROUND 4 +24V 3 #14 AWG. STRANDED WIRE (BY OTHERS) #14 DELICE STRANDED WIRE (BY OTHERS) BELLEN 8471 6 COMMON_ v out #16 AWG. STRANDED WIRES (BY OTHERS) 7 N.O. 3 IN 8 N.C. (DEMAND RESPONSE) PO Box 620979 V OUT STATION - 2 BLK STATION + 1 WHT STATION + 1 (BY OTHERS) 9 COMMON_ 10 N.O. INPUT 2 #16 AWG. STRANDED WIRES (BY OTHERS) 7 4 IN ⇒la Iv out 11 N.C. 12 COMMON_ etcconnect.com **DEVICE HAS DEVICE HAS DMX-OVER-CAT5 UNISON FOUNDRY** SEPARATE IN/THRU SINGLE IN/THRU SENSOR SR3 RACKS J10 OR J14 MINI PANEL CONTACT INPUTS -(1) BELDEN #1583A CABLE (BY OTHERS) -(1) BELDEN #1583A CABLE (BY OTHERS) ALL DIMENSIONS ARE IN INCHES DEVICE 1 INPUT 2 4 3 4 16 AWG. STRANDED WIRES (BY OTHERS) DEVICE 2 DMX A/DMX B DMX THRU STATION/PANIC - INSULATION DISPLACEMENT CONNECTOR √whT/BRN 1 ORIGINAL FILE: WHT/BRN 1 ISO COMMON ISO COMMON +24VDC ORG > ORG (1) BELDEN #9729 CABLE (BY OTHERS) BEACON → COMMON DMX A (THRU) -DMX IN -2 WHT/ORG BRN X WHT/ORG DMX IN/THRU — DATA 1 − (DMX −) DMX IN + DMX A (THRU) + PANIC OUT CONTRACT WITH: SHLD 1 COMMON ORG ISO COMMON COMMON — DATA 1 + (DMX +) BLK 2 DATA -(TYPICAL OF 4 OR 8) DMX B (THRU) -STATION + X WHT/ORG RED 3 DATA + J13-16 OR J17-24 (CH1 0-10V OUT) 5 — ≀ DATA 2 – STATION -DMX B (THRU) + SHLD 4 COMMON GRN → DATA 2 + PANIC SEND BLK 5 DATA -X WHT/GRN - 2 #16 AWG. + 1 STRANDED WIRES (BY OTHERS) REPRESENTATIVE: JUMPER TO TERMINATE LAST DEVICE 8 PANIC RETURN 8 RED 6 DATA + . BLU 7 TERM JUMPER TO TERMINATE (NOT ON MINI PANELS) X WHT/BLU LINSULATION DISPLACEMENT CONNECTO PROJECT MANAGER: UNISON DRd & ERn (Paradigm or Echo Processor) LEEAH STICKELMAIER ERP, ERP-FT AND SENSOR IQ (ALL ON I/O INTERFACE ASSEMBLY) RS232 (SERIAL) AUX POWER RED + BLK DMXA/DMXB RED < STATION + DRAWING TITLE: $X \times_{\mathsf{RED}}$. COMMON DMX/DMX PASS-THRU BLK STATION -BLK BLK 2 DMX -SHIELD 1 TYPICAL WIRING TEMPLATE COMMON WHT 3 RED 、 STATION + RED 3 DMX + BLK 2 SHIELD $\stackrel{5}{\longrightarrow}$ GND #9729 BELDEN CABLE (BY OTHERS) DMX -BLK 4 BLK STATION -RED 3 DMX + #8471 BELDEN CABLE WHT 5 RED BLK 6 STATION -BLK 8 WHT 7 RED . STATION + X BLK 8 STATION -BLK J2 ON FRP-FT J3 ON FRP-FT LON LINK POWER/ECHO BUS CONTACTS OUT J3 ON ERP J16 ON SENSOR IQ J2 ON ERP J13 ON SENSOR IQ DMX PASS-THRU (EMERGENCY INDICATOR) (EMERGENCY CONTACT) SHIELD 1 COMMON COMMON BLK #9729 BELDEN CABLE NO3 #16 AWG. STRANDED WIRES #16 AWG. STRANDED WIRES 2 PANIC LAMP OUT 2 PANIC INPUT



ETHERNET

← T2

✓ R2

WHT/ORG

ORG

WHT/GRN.

BLU

WHT/BLU.

GRN

WHT/BRN

PANIC (DRd ONLY)

PANIC

COMMON

BELDEN Y OTHERS)

#1583A | (BY

CONTACTS IN

IN4

GND

IN3

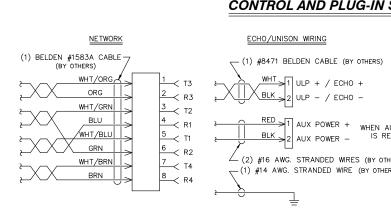
GND

IN2

GND

IN1

GND





3031 Pleasant View Rd Middleton WI 53562-0979 Tel +1 608 831 4116 Toll Free +1 800 688 4116 Fax +1 608 836 1736

UNLESS OTHERWISE SPECIFIED

TYPICAL WIRING TEMPLATE.DWG

TEXAS SCENIC COMPANY, INC

HORTON CONTROLS GROUP

APPLICATIONS ENGINEER:



JOB:

LAKE HIGHLANDS HIGH SCHOOL - STUDIO

LOCATION:

RICHARDSON, TEXAS

JOB NUMBER:

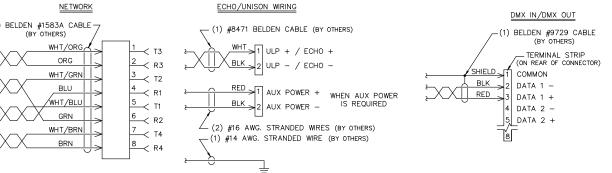
15064253

DRAWING:

006

CONTROL AND PLUG-IN STATIONS

(BY OTHERS)



TYPICAL EMERGENCY WIRING CONNECTIONS

ERP, ERP-FT AND SENSOR IQ (ALL ON I/O INTERFACE ASSEMBLY)

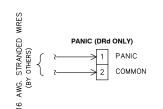
UNISON DRd (Paradigm or Echo Processor)

UNISON FOUNDRY

ECHO ROOM CONTROLLER

SENSOR SR3 RACKS





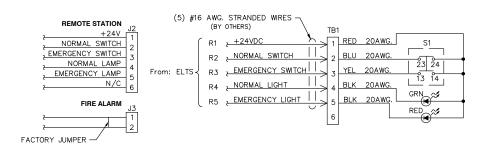
MINI PANEL	J11 OR J15
CONTACT INPUTS	(EMERGENCY IN)
#16 AWG. STRANDED (BY OTHERS)	WIRES { S 2 INPUT COM



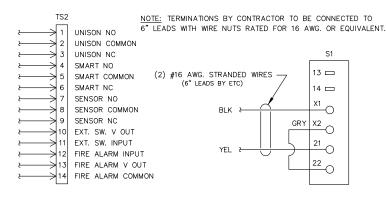
SIAI	ION/F	ANIC
>	1	
\rightarrow	2	
\rightarrow	3	
\rightarrow	4	
\rightarrow	5	
\rightarrow	6	
\rightarrow	7	
>	8	
	>	3 4 5 6 7

POWER CONTROL PANIC CONNECTIONS

ELTS2 & ELTS KEYSWITCH



EBDK & EBDK SWITCH



LEEAH STICKELMAIER APPLICATIONS ENGINEER:

PROJECT MANAGER:

=T

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3031 Pleasant View Rd

Tel +1 608 831 4116 Toll Free +1 800 688 4116 Fax +1 608 836 1736 etcconnect.com

Middleton WI 53562-0979

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES

TYPICAL WIRING TEMPLATE -

TEXAS SCENIC COMPANY, INC

HORTON CONTROLS GROUP

ETC, Inc.

PO Box 620979

ORIGINAL FILE:

EMERGENCY.DWG

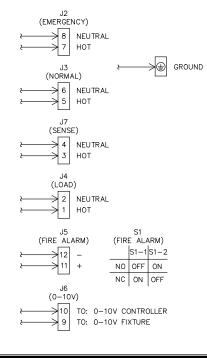
CONTRACT WITH:

REPRESENTATIVE:

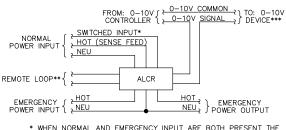
DRAWING TITLE:

TYPICAL EMERGENCY WIRING TEMPLATE

SC1008/BCELTS

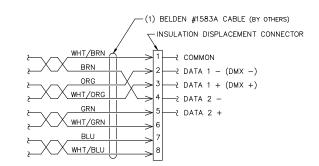


ALCR

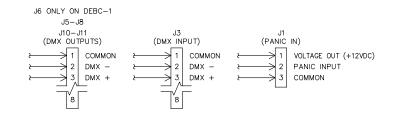


- EMERGENCY OUTPUT IS OFF UNLESS SWITCHED INPUT HAS POWER. ** REMOTE LOOP JUMPER IS INSTALLED BY DEFAULT. BREAKING THE LOOP WILL PLACE ALCR INTO EMERGENCY STATE.
- *** THE 0-10V/FLO CONTACT OPENS IN EMERGENCY STATE. THIS IS ONLY APPLICABLE FOR THE ALCR-DIN MODEL.

DMX-OVER-CAT5 (NOT FOUNDRY)



DEBC



10/19/20 SUBMITTA BY DATE REV.

JOB:

LAKE HIGHLANDS HIGH SCHOOL - STUDIO

LOCATION:

RICHARDSON, TEXAS

JOB NUMBER:

15064253

DRAWING: