

BID Addendum No. Two (2)

PROJECT: Iona Preparatory School
Addition and Alterations to the
Pail Verni Fine Arts Center
255 Wilmot Road
New Rochelle, NY 10804

ADDENDUM NO. Two (2)
Initiation Date: June 11, 2021

Architect's Project No.: 1618
PGA Contact: Danny Lam
dlam@petergisolfiassociates.com
914-478-3677 x 340

TO ALL BIDDERS:

You are directed to make the following changes in this Contract:

- A. General
 - 1. The work at the existing Verni Center building is limited to the summer of 2022. The building will be occupied by the school in the upcoming fall-spring school year.
- B. Architectural
No change.
- C. Structural
No change.
- D. Mechanical
No change.
- E. Plumbing
No change.
- F. Sprinkler
No change.
- G. Electrical
 - 1. The attached theatrical lighting and rigging drawings provided by the school's vendor, are being issued for reference.
- H. Fire Alarm
No change.

Attachments:

- Theatrical Lighting and Rigging drawings (5 sheets) by Swaney Lighting Associates

End of Addendum No. 2

PETER GISOLFI ASSOCIATES

566 Warburton Avenue	Architects
Hastings-on-Hudson NY 10706	Landscape Architects
914 478-3677 914 478-1600 fax	Interior Architects

SUBMITTAL PACKAGE CONTENTS:

- SYSTEM RISER DRAWING(S)
- EQUIPMENT TOPOGRAPHIES AND STANDARD DRAWINGS AS REQUIRED
- PANEL SCHEDULES (IF PREVIOUSLY PROVIDED)
- SYSTEM NOTES AND WIRING RULES
- STATION DETAILS
- SYSTEM COMMISSIONING REQUEST FORM
- CUTSHEETS

ANY QUESTIONS CONCERNING THIS SYSTEM SHOULD BE DIRECTED TO THE PROJECT MANAGER, WHO CAN BE REACHED AT:
THE OFFICE NUMBER IS: 207-883-7100
THE FAX NUMBER IS: 207-885-9606

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

Project Name:	IONA PREPATORY SCHOOL ARTS CENTER
Location:	NEW ROCHELLE, NY
System #:	
Rep:	Swaney Lighting Associates
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SCALE:
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BY: Jay Lehrhaupt
DATE:
4/6/2021
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Swaney Lighting Associates
15 Pleasant Hill Rd
Scarborough, ME 04070
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swaneylighting.com

CONTACTS:

PROJECT MANAGER:

CONTRACT WITH:

REPRESENTATIVE:

Swaney Lighting Associates
15 Pleasant Rd
Scarborough, ME 04070
(207) 883-7100

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>

Belden 9729: General C0910A TMB PC224T West Penn DA2402	Belden 8471: Alpha 1899C Belden 5200UE Carol C8661 TMB PCLP1PT TMB PCLP2PT West Penn 225	Belden 1583A: Comm Scope 5504 West Penn 4245 Cat 5 or better
Plenum Versions (when required)		
Belden 89729 Belden 82729 Manhattan MA2891 West Penn DA252402	Belden 6200UE Carol C8621 TMB PCLP1PTP TMB PCLP2PTP	Belden 1585A West Penn 254245
(All network connections to be terminated per TIA/EIA 568B standards.)		

- 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.

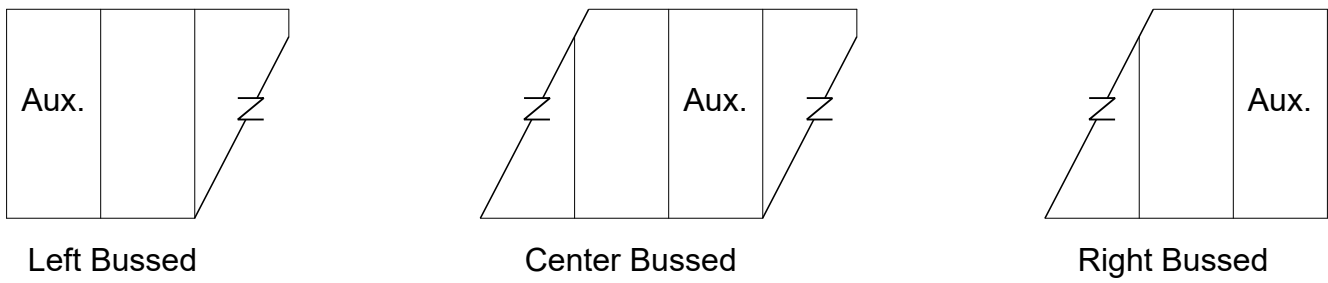
- I.) Sensor & Unison Primary Feed Terminations are provided as follows:

Sensor Racks	Feed Termination			
	Line Feed	Neutral Feed	Ground Lug(s)	Wire Type
Sensor SR3-6	1x 2/0 to 14 AWG		2 to 14 AWG	CU / AL
Sensor SR3-12	2x 250 kcmil to 6 AWG			
Sensor SR3-24	2x 350 kcmil to 4 AWG			
Sensor SR3-48	2x 600 kcmil to 2 AWG		250 kcmil to 6 AWG	CU / AL*
* SR3-48 is rated for 600A with aluminum feeds				

Sensor Aux. Racks	Feed Termination			
	Line Feed	Neutral Feed	Ground Lug(s)	Wire Type
Main Lug 800A (19" and 30")	2x 600 kcmil to 2 AWG		2x 600 kcmil to 2 AWG	CU / AL*
Main Lug 1000-2000A (30")	6x 600 kcmil to 2 AWG			
65K AIC MCB 300-400A (19")	2x 500 kcmil to 3/0	2x 600 kcmil to 2 AWG		
65K AIC MCB 600A (19" and 30")	3x 500 kcmil to 1 AWG			
65K AIC MCB 800A (19" and 30")				
65K AIC MCB 1000A (30")	4x 500 kcmil to 1/0			
65K AIC MCB 1200A (30")	6x 750 kcmil to 1/0			
65K AIC MCB 1600A (30")	5x 600 to 300 kcmil	CU		
* Aluminum feeds suitable for 80% rated breakers and main lugs 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			
	Line Feed	Neutral Feed	Ground Lug(s)	Wire Type
Unison DRd6	1x 2/0 to 14 AWG	4 to 14 AWG	4 to 14 AWG	CU
Unison DRd12	1x 350 kcmil to 6 AWG			

Unison DRd Aux. Racks		Feed Termination		
	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 AWG	2/0 to 6 AWG	CU / AL
Unison AX6/AX12(X) (3Ø) MCB	1x 350 kcmil to 8 AWG		350 kcmil to 1 AWG	
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 current carrying conductors.

- * 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:

Control Power 10 AWG .max copper wire
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:

Control Power/Sense Feed 12 - 20 AWG. copper wire
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 Mains Fed	Feed Termination		
	Feed Wiring	Ground Lug(s)	Wire Type
Main Lugs (1Ø,3Ø)	300 kcmil to 4 AWG	300 kcmil to 4 AWG	CU / AL
MCB 120V/240V 1Ø, 100-200A	300 kcmil to 1 AWG		
MCB 120V/208V 3Ø, 100A	3/0 to 8 AWG		
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:

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

- * 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 IQ 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 Switch	Feed Termination			
	Line Feed	Neutral*	Ground Lug(s)	Wire Type
PowerSafe Pro/Compact 100A	1/0 to 3 AWG	500 kcmil to 4 AWG	250 kcmil to 6 AWG	CU / AL
PowerSafe Pro/Compact 200A	300 kcmil to 4 AWG		500 kcmil to 4 AWG	
PowerSafe Pro 400A	500 kcmil to 3/0			
* 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
PowerSafe Pro 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		
	Feed Wiring	Ground Lug(s)	Wire Type
Type D Inputs (Normal/Emerg.)	8 to 12 AWG	(none provided)	CU
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		
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
Control Terminals (8-1) 10 - 20 AWG. copper wire
Earth Ground 6 - 14 AWG. copper wire

- 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.

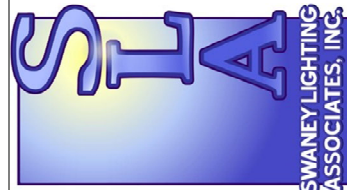
These items MUST be completed before the ETC Field Service Technician arrives

- ☐ All dimmer and relay panels are rigidly attached to the mounting surface.
- ☐ Dimmer panel(s) have sufficient access to the front and left for the 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 sperate neutrals
- ☐ All air gaps in the dimmer panel(s) are sealed, making each rack section an airtight enclosure.
- ☐ Any equipment racks must be mounted and powered as specified in drawings.
- ☐ Control cables are proper type and 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 technicain

Wiring Rules

- Signal path typically flow in the direction of the arrows on the riser diagram(s).
- Wires denoted with (P) after the signal designation pass through the previous box in the signal path without terminating. Boxes with no notation terminate in the previous box in the signal path and continue (touch-and-go wiring).
- DMX (Belden #9729) data runs must be pulled in a daisy-chain topology from start point to end point. See termination sheets shipped with control stations for more details.
- RFU (Belden #9728 + (2) #16 AWG.) data runs must be pulled in a daisy-chain topology from start point to end point. See termination sheets shipped with control stations for more details.
- DMX Out (Belden #9729) data runs must be pulled in an unbroken home-run topology from start point to end point without cuts or splices. See termination sheets shipped with control stations for more details.
- Net (Belden #1583A) data runs must be pulled in an unbroken home-run topology without cuts or splices and per Category 5e specifications. See termination sheets shipped with control stations for more details.
- Unison (Belden #8471) data runs are topology free and may be pulled in any configuration.
- SmartLink (Belden #8471 + (1) # 14 AWG.) data runs are topology free and may be pulled in any configuration. Maximum (4) SmartLink stations per system. (1) Link Power Supply is required per system. Maximum total wire length 1640'.
- Signal types not represented in the wiring rules above typically have specific wiring rules. Please contact you Project Manager with questions about these signals.
- Echo systems consist of 16 power control devices and 16 low voltage controllers (switch, daylight sensor, occupancy sensor) per bus. If more than 16 devices are required, an Echo Expansion Bridge must be provided
- Each Echo system requires a power supply; E-SPS, E-SPM-RM, E-SPM-RM, E-SPM-WM-A, E-SPS-RM-A

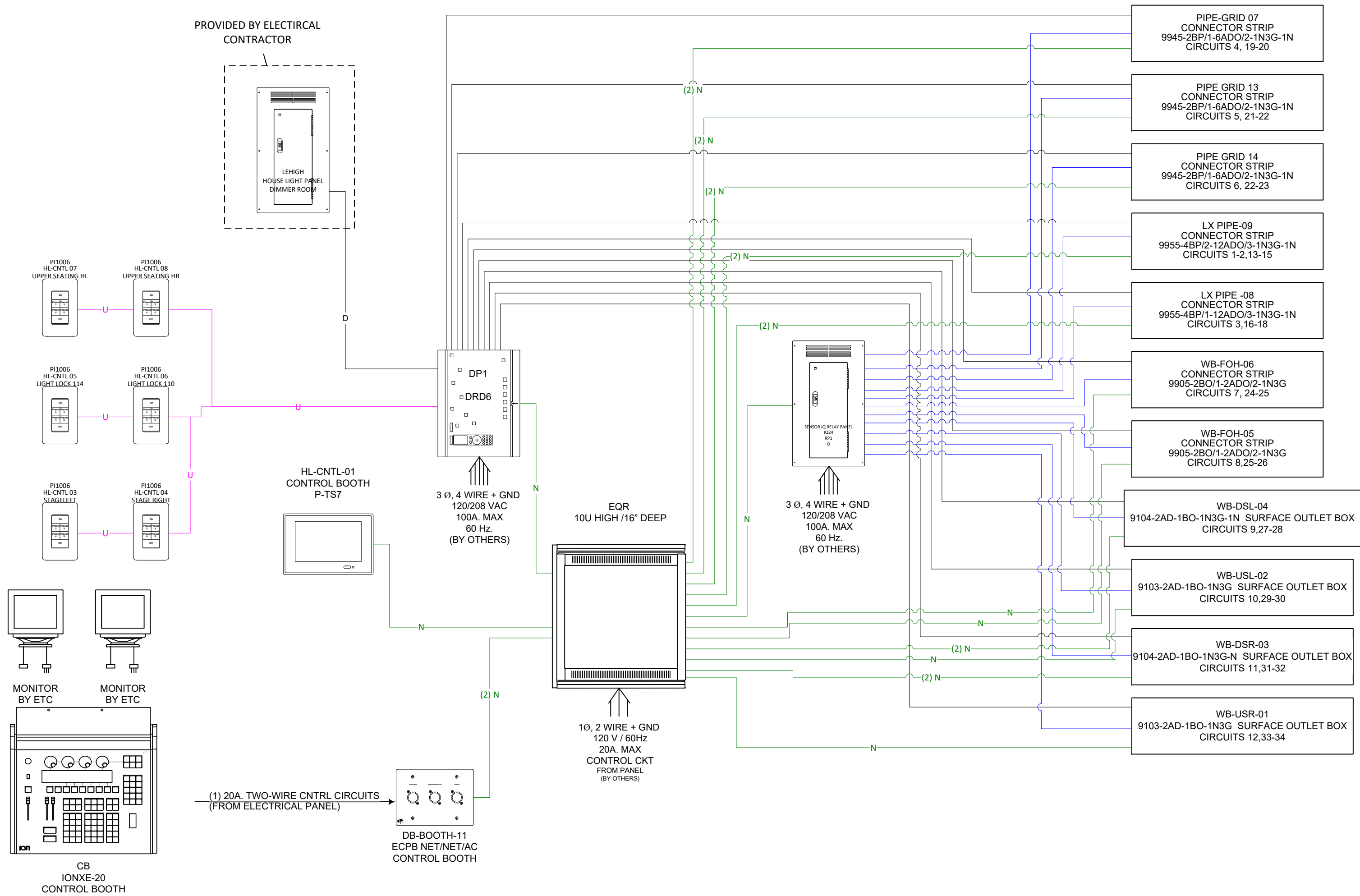
Swaney Lighting Associates
15 Pleasant Hill Rd
Scarborough, ME 04070
(207) 883-7100
swaneylighting.com



Project Name:	IONA PREPATORY SCHOOL ARTS CENTER
Location:	NEW ROCHELLE, NY
System #:	Rep: Swaney Lighting Associates
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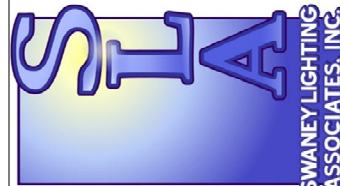
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Wire Designations (contact your project manager for a complete list of approved substitutions)					
◦ D DMX (1) Belden 9729 or (1) TMB PC244T	◦ S Sensor (1) Belden 5301UE 18 AWG 3 conductor	◦ LV (2) #18AWG (Gray and violet pair for 0-10v dimming control)	◦ N ETCNet (1) Belden 1583A (CAT5 or CAT6)	◦ UV Unison (1) Belden 8471 + (2) #16 AWG 24v + (1) #14 AWG (CAT5 or CAT6)	◦ U Unison (1) Belden 8471 (1) #14 AWG-ground Or (1) TMB PCLP1PT (includes ground)
◦ M COM (1) Belden 8760 (2) #18 AWG	◦ SC Sensor RP (1) Belden 5302UE 18 AWG 4 conductor				

GENERAL NOTES

- (U) CABLE SHOWN ON RISER AS DAISY CHAIN. (U) CABLE MAY BE RUN TOPOLOGY FREE WITH MIXED POWER AND CONTROL DEVICES WITH THE FOLLOWING RESTRICTIONS:
 - NO MORE THAN 16 POWER DEVICES PER SEGMENT (ELD, ELVD, ERM, ECT.)
 - NO MORE THAN 16 CONTROL DEVICES PER SEGMENT (SWITCH, SENSOR, ECT.)
 - MAXIMUM CABLE PER SEGMENT MAY NOT EXCEED 1600'
- MULTIPLE SEGMENTS MAY BE INTERCONNECTED THROUGH THE ECHO EXPANSION BRIDGE AS SHOWN ON THE RISER. EACH SEGMENT REQUIRES (1) E-SPM-WM-A
- DEVICES SHALL BE CONNECTED TO SEGMENT INDICATED. IF A DEVICE NEEDS TO BE MOVED TO A DIFFERENT SEGMENT CONFIRM WITH PROJECT MANAGER BEFORE MAKING CHANGES
- ECHO DEVICES REQUIRE TO BE SET TO SPACE AND ZONE/ADDRESS FOR PROPER ROOM SEPERATION. REVIEW INSTALLATION GUIDE FOR DETAILS.
- ALL 2-WIRE CIRCUITS MAY NOT SHARE NEUTRALS.
- ALL LOCATIONS REQUIRE A MINIMUM OF 1 GROUND.
- ALL ETCNET RUNS SHALL BE CONTINUOUS, UNSPLICED RUN LESS THAN 300 FEET (90 METERS). ALL NETWORK CONNECTIONS TO BE IEEE T568B.

Sweeney Lighting Associates
15 Pleasant Hill Rd
Scarborough, ME 04070
(207) 883-7100
swaneylighting.com



Project Name: IONA PREPATORY SCHOOLARTS CENTER
Location: NEW ROCHELLE, NY
System #:
Rep: Sweeney Lighting Associates
NOTICE: THIS DRAWING IS THE EXCLUSIVE PROPERTY OF SWANEY LIGHTING ASSOCIATES. ITS ACCEPTANCE FOR NO PURPOSE OTHER THAN AS DETAILED INFORMATION CONCERNING THE OPERATION OF THE INDICATED LIGHTING CONTROLS INCLUDED IN THIS DRAWING. IT IS PROVIDED USING CONTROL WIRING INFORMATION FURNISHED BY NOT AUTHORIZED BY SWANEY LIGHTING ASSOCIATES.

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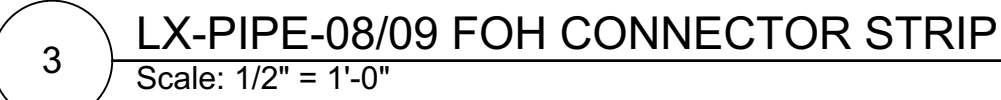
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DRAWN
BY: Jay Lehrhaupt

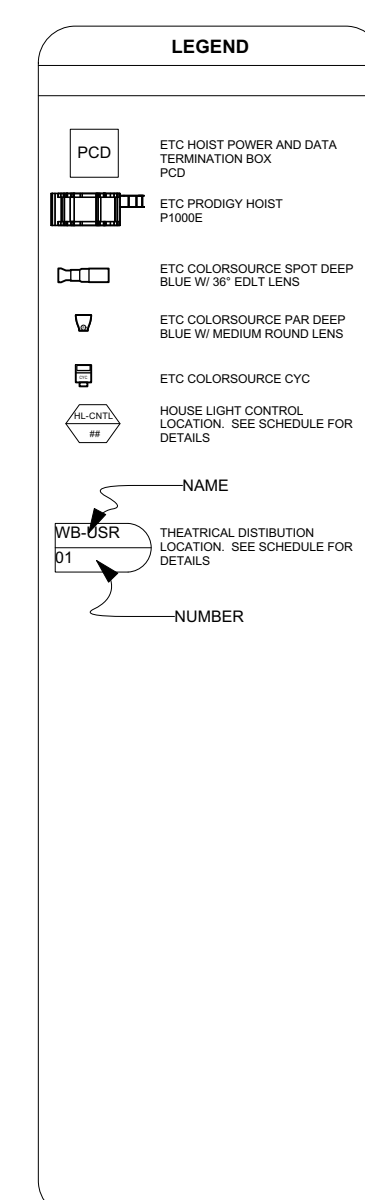
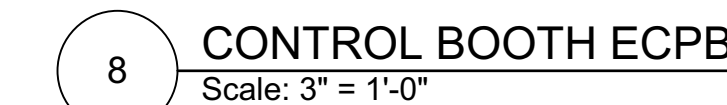
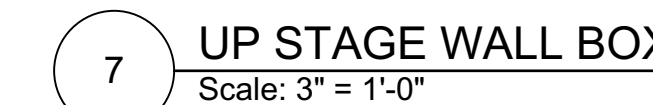
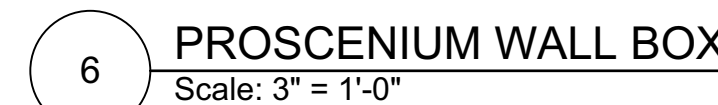
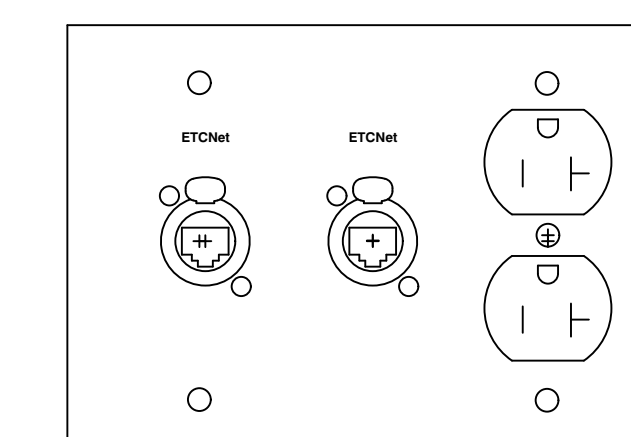
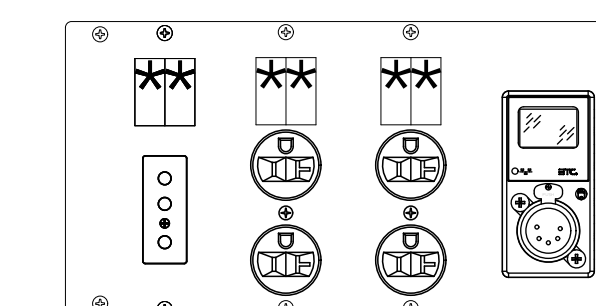
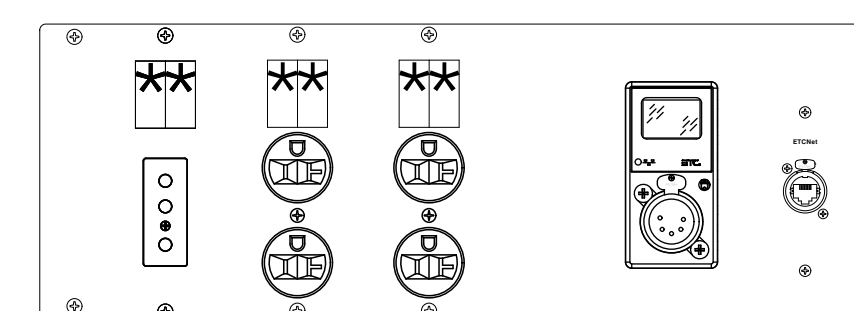
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4/6/2021

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		OUTLET DESIGNATION																	
Connector Strip	Location	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	1 FOH 2		13	14	15	1	13	14	15	2		13	14	15	1	13	14	15	2
LX-PIPE 09	Connector Type	N31G-1F	AOD	AOD	AOD	BO	AOD	AOD	AOD	BO	NET	AOD	AOD	AOD	BO	AOD	AOD	AOD	BO
	2 FOH 1		16	17	18	3	16	17	18	4		16	17	18	3	16	17	18	4
LX-PIPE 08	Connector Type	N31G-1F	AOD	AOD	AOD	BO	AOD	AOD	AOD	BO	NET	AOD	AOD	AOD	BO	AOD	AOD	AOD	BO
	3 Box Boom SL		24	25	7	24	25												
WB-FOH-06	Connector Type	N31G-1F	AOD	BO	AOD	BO													
	4 Box Boom SR		26	8	27	8													
WB-FOH-05	Connector Type	N31G-1F	AOD	BO	AOD	BO													
	5 1st Electric		19	4	20	4													
PIPE-GRID-07	Connector Type	N31G-1F	AOD	BO	AOD	AOD	NET	AOD	BO	AOD	AOD								
	6 2nd Electric		21	5	22	21		22	5	22	21								
PIPE-GRID-13	Connector Type	N31G-1F	AOD	BO	AOD	AOD	NET	AOD	BO	AOD	AOD								
	6 3rd Electric		23	6	24	23		24	6	24	23								
PIPE-GRID-14	Connector Type	N31G-1F	AOD	BO	AOD	AOD	NET	AOD	BO	AOD	AOD								



1 LIGHTING AND RIGGING PLOT
Scale: 1/8" = 1'-0"

Swaney Lighting
Associates
15 Pleasant Hill Rd
Scarborough, ME 04070
(207) 883-7100



PROJECT:	IONA ARTS CENTER
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PROJECT:	
LOCATION:	
SYSTEM #:	

REP: SWANEY LIGHTING ASSOCIATES

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REVISIONS

SCALE: As Noted

DRAWN BY:
Jay Lehrhaupt

DATE: **Apr 6, 2021**

DRAWING:

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