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28	SHEET-1	CURTAINS: SHOP DRAWINGS

SCOPE OF WORK									
The following elements shall be furnished (F) and installed (I) by the AVL Systems Integrator (SI), Electrical Contractor (EC), General Contractor (GC), or Owner (O) according to the following matrix									
ELEMENT	SI		EC		GC		O		
	F	I	F	I	F	I	F	I	
Electrical outlets and receptacles (line voltage)	x	x							
AVL network/data outlets and faceplates (low voltage)	x	x							
Conduit and junction boxes (line voltage)	x	x							
Conduit and junction boxes (low voltage)	x	x							
Cable (line voltage)	x	x							
Cable (low voltage)	x	x							
Cable terminations (line voltage)	x	x							
Cable terminations (low voltage)	x	x							
Theatrical lighting fixtures (with power/data cable and attachment hardware)	x	x							
Theatrical lighting control (console, data/network, upgrade of existing dimmer rack)	x	x							
Theatrical rigging (motorized scenic/electric battens, controls and attachment hardware)	x	x							
Theatrical rigging (chain hoists and box truss)							x	x	
Video screen	x	x							
Video projector		x					x		
Video control system integration/components	x	x							
Architectural ligthing fixtures							x	x	
Architectural ligthing system integration/components (of existing house lights and general lighting presets)		x							
Audio components (wireless microphones/transmitters, receivers)	x	x							
Audio components (speakers, wireless microphones/transmitters, receivers, antennas/RF distribution, dante network, console)							x	x	
Audio system integration/hardware	x	x							
Soft goods (curtains - upstage legs and doorway masking)	x	x							
Soft goods (curtains - main curtain/main valance/track)							x	x	
Control booth upgrades: relocation of existing racks, removal of countertop, new roll-top desks	x	x							
General decomissioning of unused AVL, rigging, curtain, acoustic, and house lighting elements		x							
General systems testing and comissioning		x							
General systems training		x							

UPPER DARBY HIGH SCHOOL



Upper Darby School District
601 N. Lansdowne Ave
Drexel Hill, PA 19026



ILLUMINATED
INTEGRATION
2900 Canby Street
Harrisburg, PA 17103
717-996-4596
www.illuminated-integration.com

CLIENT CONTACT

Marvin Lee
mlee@upperdarbysd.org

REVISIONS

NO.	Date	By	Note
A	3/20/23	KGD	GP, Section & RCP
B	4/19/23	KGD	SUB GRID
C	4/21/23	KGD	RISER, PANEL SCH, GENERAL UPDATES
D	5/22/23	KGD	PANEL SCHEDULE UPDATE
E	6/16/23		LX PLOT
F	7/18/23	KGD	PROGRESS SET

PROJECT ID: ii-1982

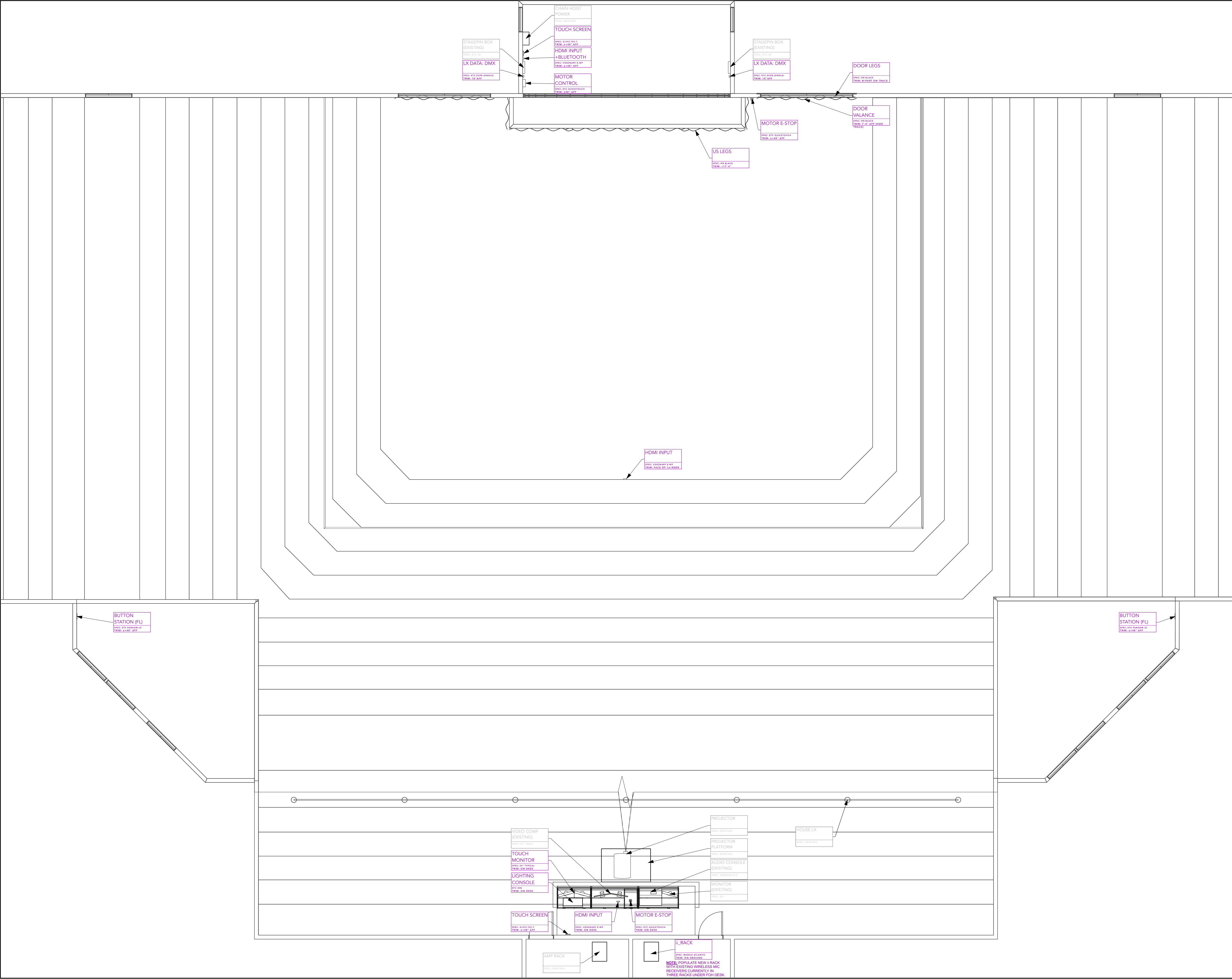
DATE: 4/6/23

SCALE: 3/16" = 1'-0" OR AS NOTED

COVER SHEET

AVL0.000

SHEET NO. 1 OF 29



SYMBOL KEY



Upper Darby School
District
601 N. Lansdowne Ave
Drexel Hill, PA 19026



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D	5/22/23	KGD	PANEL SCHEDULE UPDATE
E	6/16/23		LX PLOT
F	7/18/23	KGD	PROGRESS SET

PROJECT ID: ii-1982

DATE: 4/6/23

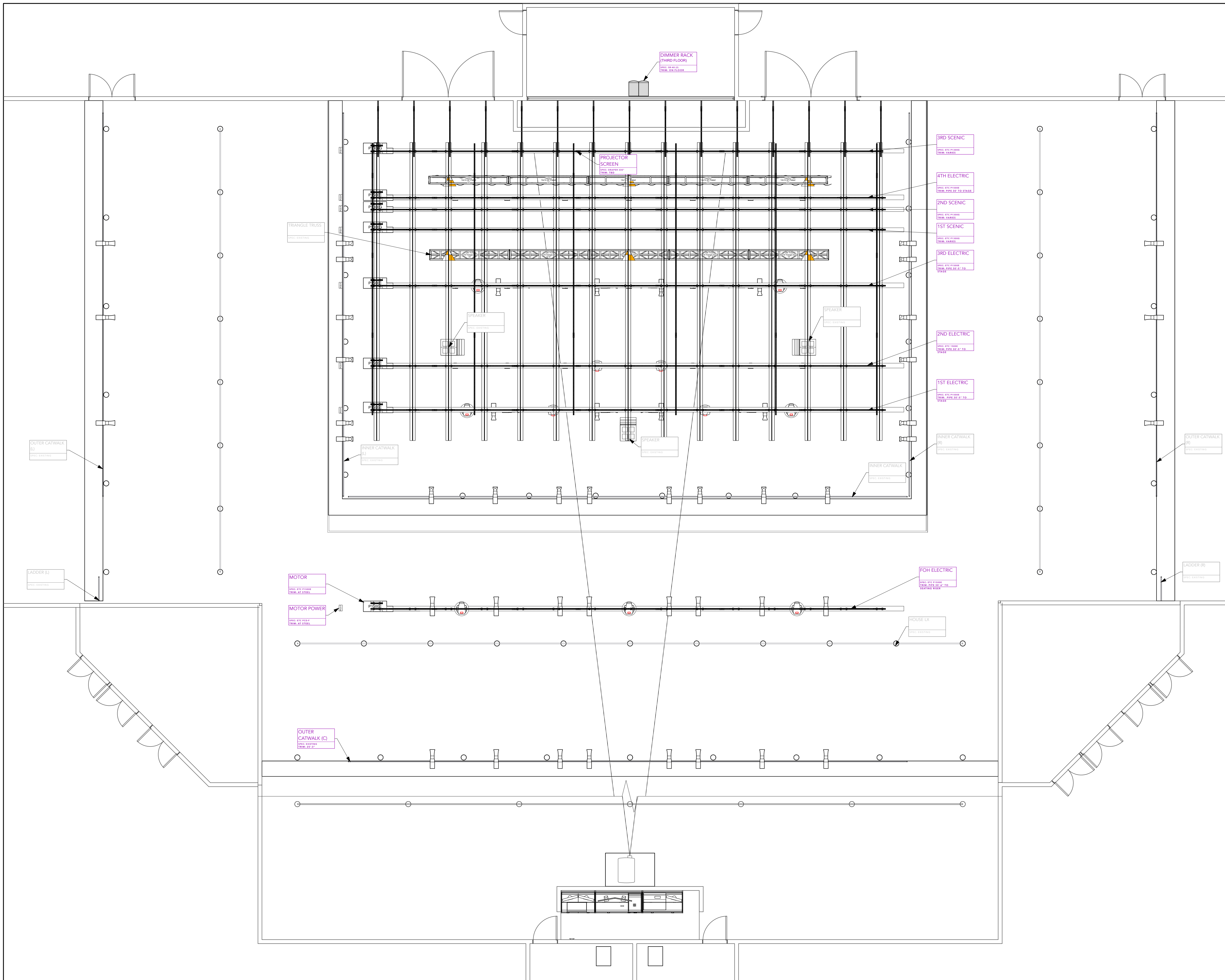
SCALE: 3/16" = 1'-0" OR AS NOTED

AVL FLOOR PLAN
(LEVEL 1)

AVL1.102A

SHEET NO. 2 OF 29

- NOTES
- See Labels to determine Wall Box types
 - Microphones per proposal to be placed as needed
 - All DMX Out locations to be new additions
 - Circuit locations are existing with some being relocated/reallocated
 - Rigging Points TBD from the Manufacturer's Shop Drawings



SYMBOL KEY



Upper Darby School
District
601 N. Lansdowne Ave
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A	3/20/23	KGD	GP, Section & RCP
B	4/19/23	KGD	SUB GRID
C	4/21/23	KGD	RISER, PANEL SCHED, GENERAL UPDATES
D	5/22/23	KGD	PANEL SCHEDULE UPDATE
E	6/16/23		LX PLOT
F	7/18/23	KGD	PROGRESS SET

PROJECT ID: ii-1982

DATE: 4/6/23

SCALE: 3/16" = 1'-0" OR AS NOTED

AVL FLOOR PLAN
(LEVEL 2)

AVL1.102B

SHEET NO. 3 OF 29

NOTES

- See Labels to determine Wall Box types
- Microphones per proposal to be placed as needed
- All DMX Out locations to be new additions
- Circuit locations are existing with some being relocated/reallocated
- Rigging Points TBD from the Manufacturer's Shop Drawings



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REVISIONS

NO.	Date	By	Note
A	3/20/23	KGD	GP, Section & RCP
B	3/23/23	KGD	FOH/SECTION
C	4/19/23	KGD	SUB GRID
D	4/21/23	KGD	RISE, PANEL SCHED, GENERAL UPDATES
E	5/22/23	KGD	PANEL SCHEDULE UPDATE
F	6/16/23		LX PLOT
G	7/18/23	KGD	PROGRESS SET

PROJECT ID: ii-1982

DATE: 4/6/23

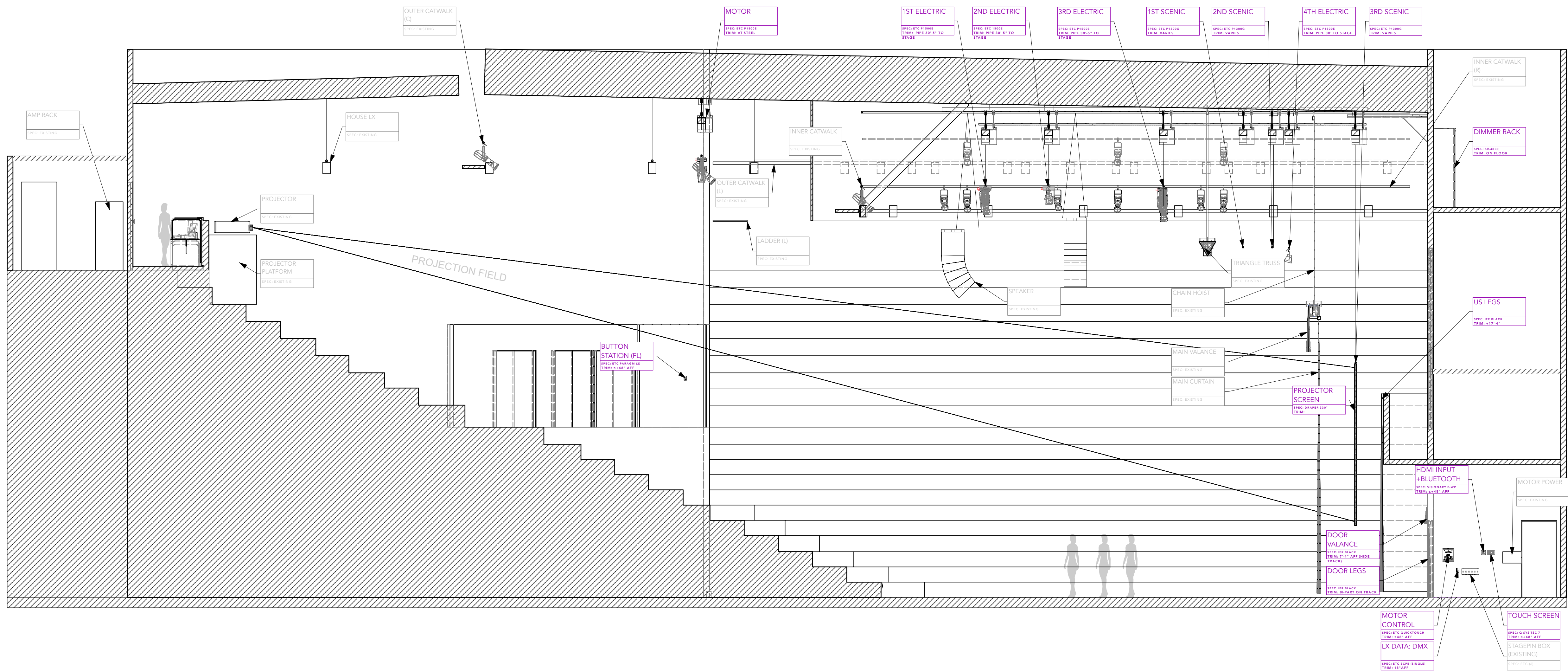
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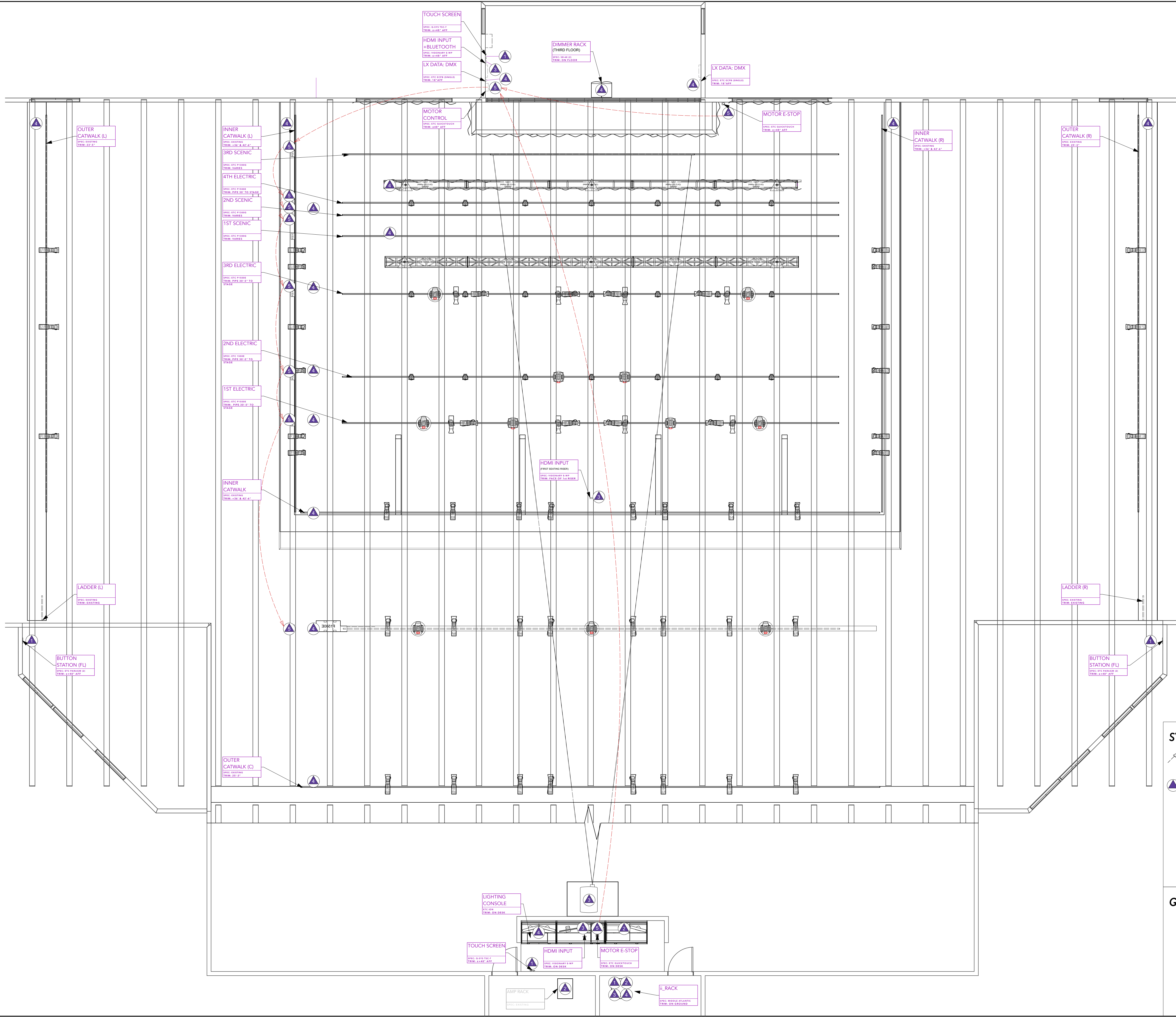
AVL SECTION

AVL1.103

SHEET NO. 4 OF 29

NOTE: LEVEL SUB-GRID STRUT
TO COMPENSATE FOR CHANGE IN
ROOF PITCH.





SYMBOL KEY

↗ CASCADE PATH/CHAIN

▲ LOW VOLTAGE ENDPOINT

- ▲ AVL MULTI-SYSTEM CONTROL OR I/O
REFER TO RISER FOR SPECIFICATIONS
- ▲ AUDIO CONTROL OR I/O
REFER TO RISER FOR SPECIFICATIONS
- ▲ VIDEO CONTROL OR I/O
REFER TO RISER FOR SPECIFICATIONS
- ▲ LIGHTING CONTROL OR I/O
REFER TO ETC DRAWINGS FOR SPECIFICATIONS
- ▲ RIGGING CONTROL OR I/O
REFER TO ETC DRAWINGS FOR SPECIFICATIONS

GENERAL NOTES

1 - ALL CABLE ORIGINATES FROM THE ii EQUIPMENT RACK BEHIND THE FOH BOOTH **EXCEPT** MOTOR CONTROL

REVISIONS

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F	7/18/23	KGD	PROGRESS SET

PROJECT ID: ii-1982

DATE: 4/6/23

SCALE: 3/16" = 1'-0" OR AS NOTED

AVL LOW VOLTAGE PLAN

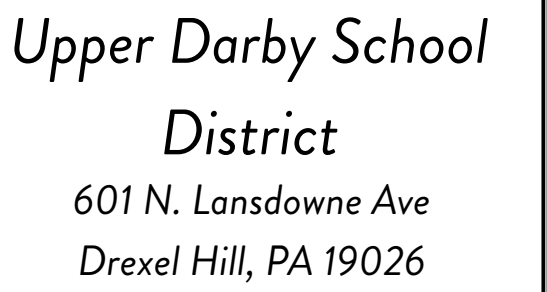
AVL1.104

SHEET NO. 5 OF 29

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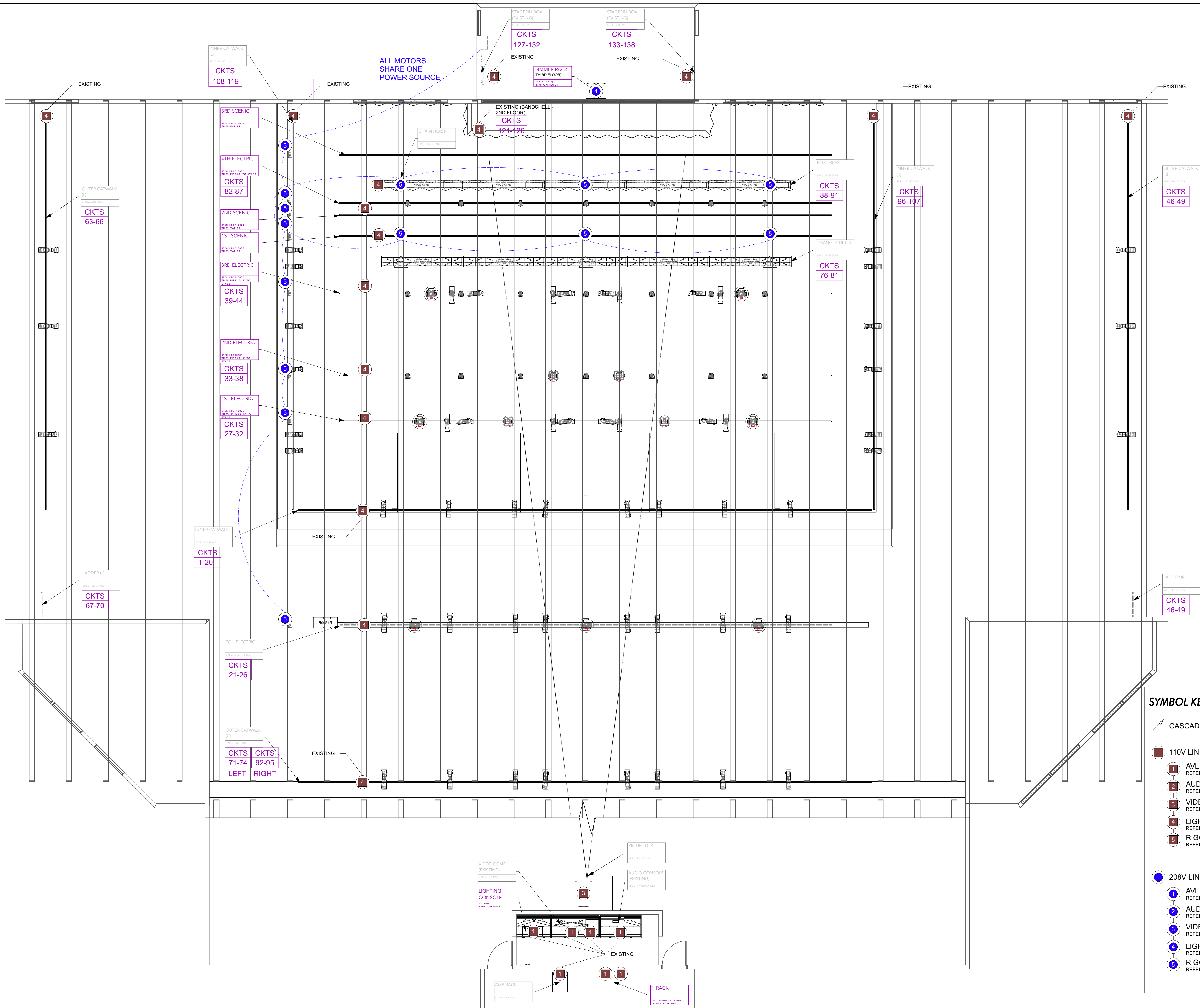
nlee@upperdarbysd.org

NO.	Date	By	Note
A	3/20/23	KGD	GP, Section & RCP
B	4/19/23	KGD	SUB GRID
C	4/21/23	KGD	RISER, PANEL SCHED, GENERAL UPDATES
D	5/22/23	KGD	PANEL SCHEDULE UPDATE
E	6/16/23		LX PLOT
F	7/18/23	KGD	PROGRESS SET

SCALE: 3/16" = 1'-0" OR AS NOTED

AVL1.105

SHEET NO. 6 OF 29





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REVISIONS

O.	Date	By	Note
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B	4/19/23	KGD	SUB GRID
C	4/21/23	KGD	RISER, PANEL SCHED, GENERAL UPDATES
D	5/22/23	KGD	PANEL SCHED. UPDATE
E	6/16/23		LX PLOT
F	7/18/23	KGD	PROGRESS SET

PROJECT ID: ii-1982

DATE: 4/6/23

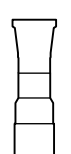
SCALE: 3/16" = 1'-0" OR AS NOTED

THEATRICAL LIGHTING PLAN

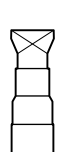
AVL2.102

SHEET NO. 7 OF 29

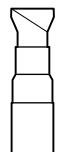
SYMBOL KEY



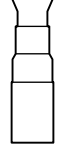
ETC ColorSourceV 14°



ETC ColorSourceV 19°



ETC ColorSourceV 26°



ETC ColorSourceV 36°



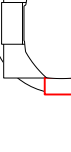
ETC ColorSauce PAR Deep
Blue, Narrow Lens



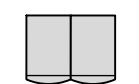
ETC ColorSource PAR Deep
Blue, Medium Lens



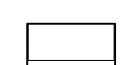
Chauvet Maverick Force 2 Profile



Chauvet Rogue R2 Beam



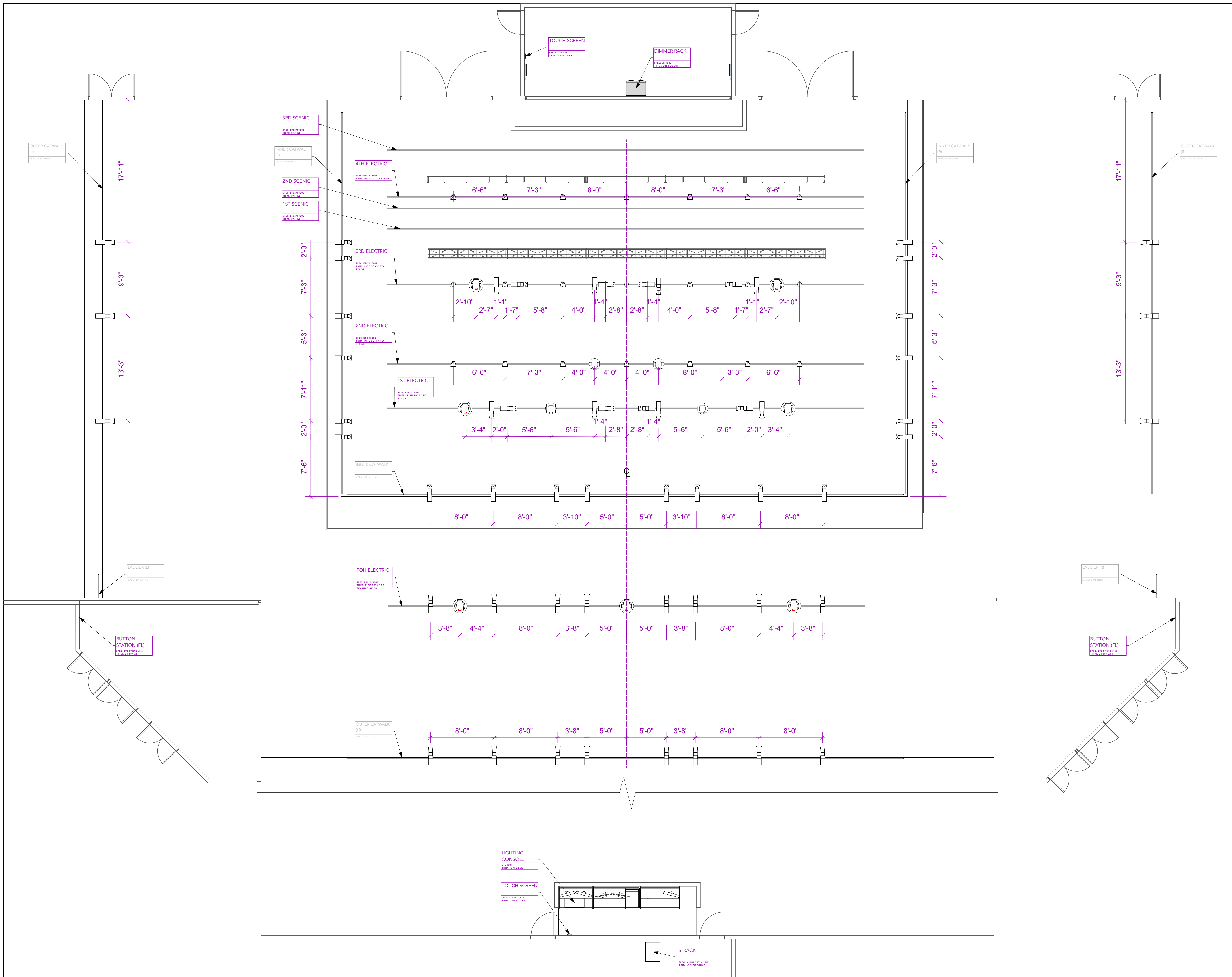
ETC Sensor 48 Rack (2)



ETC Ion XE20 Console

NOTES

- All DMX Out locations to be new additions
- Circuit locations are existing with some being relocated/reallocated
- Hang fixtures with gel clip facing upright
- Unlock all moving lights
- Hang moving lights with screens facing upstage
- Use tie line to secure cables onto the electrics (no zip ties)
- All instruments to be installed with proper safety cable





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D	5/22/23	KGD	PANEL SCHEDULE UPDATE
E	6/16/23		LX PLOT
F	7/18/23	KGD	PROGRESS SET

PROJECT ID: ii-1982

DATE: 4/6/23

SCALE: 3/16" = 1'-0" OR AS NOTED

ETC SHOP DRAWINGS
(LIGHTING)

AVL2.104

SHEET NO. 16 OF 29



ETC, Inc.

3031 Pleasant View Rd
PO Box 620979
Middleton WI 53562-0979
Tel +1 608 831 4116
Toll Free +1 800 686 4116
Fax +1 608 836 1736
etcconnect.com

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES.

ORIGINAL FILE:
RISER-SENSOR.DWG

CONTRACT WITH:
ILLUMINATED INTEGRATION LLC

REPRESENTATIVE:
DIVERSIFIED PHL, INC.

PROJECT MANAGER:
LEA BRANYAN

APPLICATIONS ENGINEER:

DRAWING TITLE:

UPPER DARBY HIGH SCHOOL

SYSTEM RISER

TW 2/10/23 SUBMITTAL

BY DATE REV.

JOB:

UPPER DARBY

SCHOOL DISTRICT

-SENSOR3 UPGRADE

LOCATION:

UPPER DARBY TOWNSHIP, PA

JOB NUMBER:

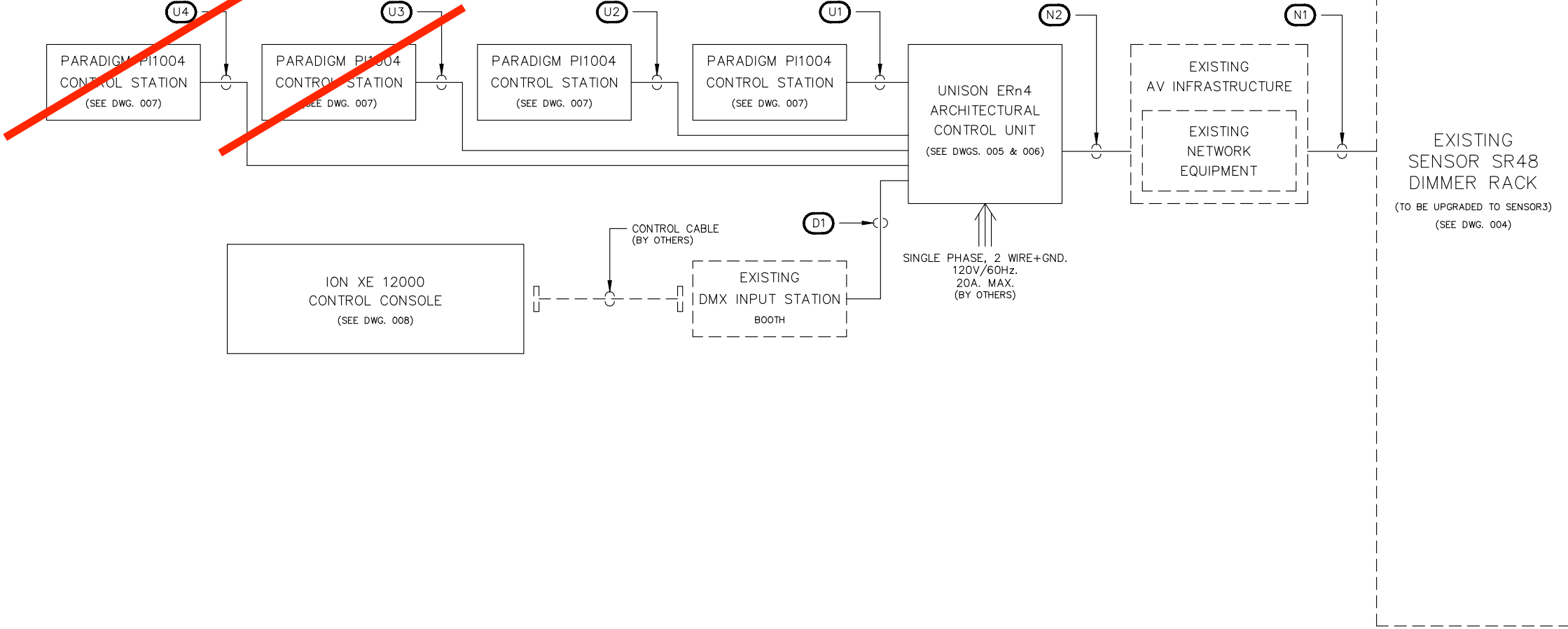
15078687

DRAWING:

002

REMOVED
FROM SCOPE

REMOVED
FROM SCOPE



CONTROL WIRING LEGEND

SYMBOL	WIRE TYPE(S)	SIGNAL
(1) BELDEN #9729		DMX INPUT
(1) BELDEN #1583A		ETCnet (Cat5e)
(1) BELDEN #8471		UNISON
(1) #14 AWG STRANDED GND WIRE		
* = WIRE IDENTIFICATION NUMBER (NOT QUANTITY)		

NOTES:

- 1.) ALL CONTROL WIRING IS PROVIDED BY OTHERS UNLESS NOTED OTHERWISE.
- 2.) ALL ETCnet RUNS SHALL BE CONTINUOUS, UNSPLICED RUNS LESS THAN 300 FEET (90 METERS). ALL NETWORK CONNECTIONS TO BE TIA/EIA 568B.
- 3.) TOTAL COMBINED LENGTH OF UNISON/ECHO WIRING RUNS CANNOT EXCEED 1640 FEET (500 METERS).
- 4.) REFERENCE ETC JOB #01993 FOR EXISTING EQUIPMENT.

UPPER DARBY HIGH SCHOOL



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Toll Free +1 800 686 4116
Fax +1 608 836 1736
etcconnect.com

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES.

ORIGINAL FILE:
WIRE DIAGRAM.DWG

CONTRACT WITH:
ILLUMINATED INTEGRATION LLC

REPRESENTATIVE:
DIVERSIFIED PHL, INC.

PROJECT MANAGER:
LEA BRANYAN

APPLICATIONS ENGINEER:

DRAWING TITLE:

DMX, ETCnet & UNISON

CONTROL WIRING DIAGRAMS

TW 2/10/23 SUBMITTAL

BY DATE REV.

JOB:

UPPER DARBY

SCHOOL DISTRICT

-SENSOR3 UPGRADE

LOCATION:

UPPER DARBY TOWNSHIP, PA

JOB NUMBER:

15078687

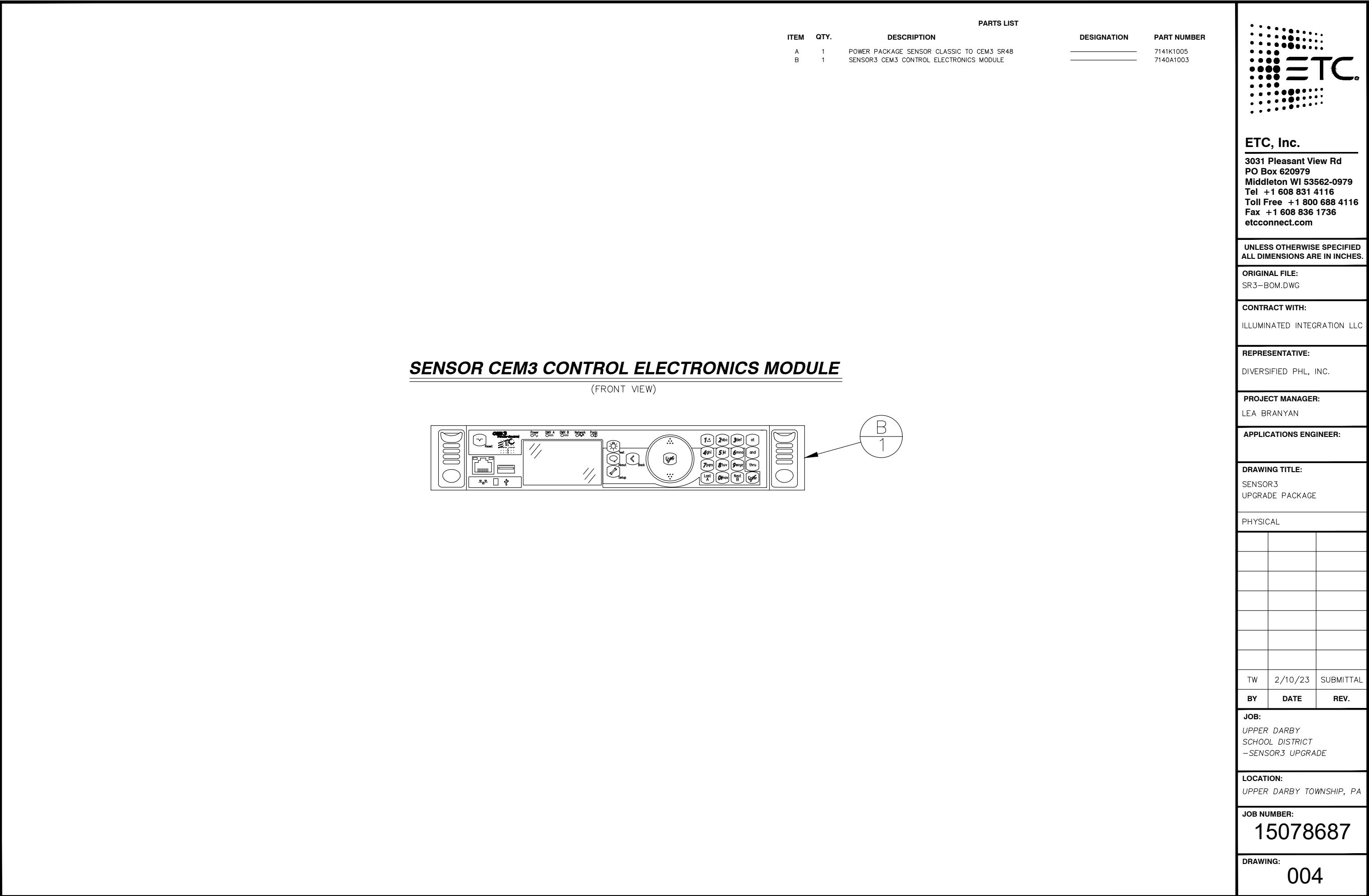
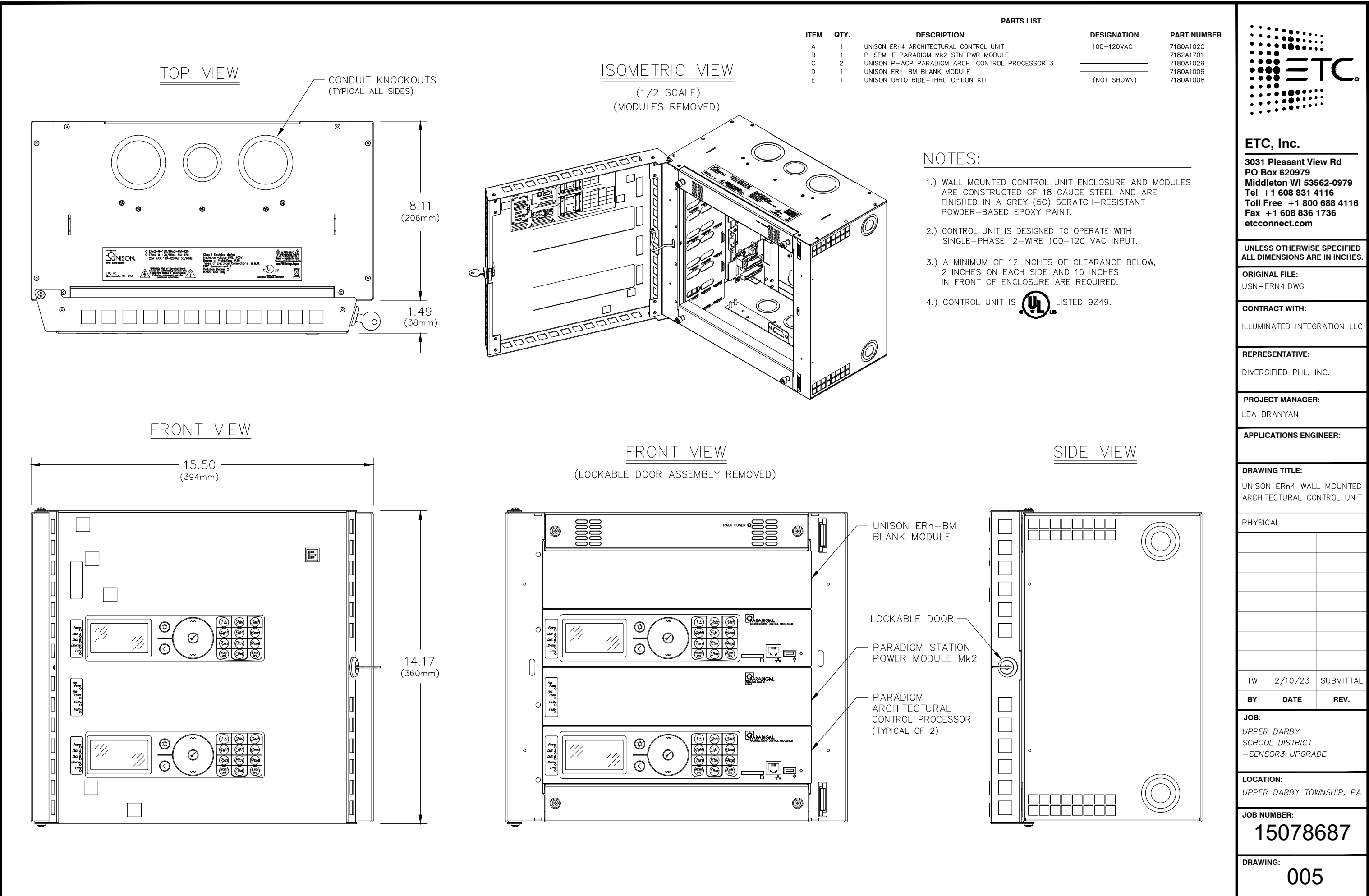
DRAWING:

003

DMX WIRING

ETCnet WIRING

UNISON WIRING



REVISIONS			
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D	5/22/23	KGD	PANEL SCHEDULE UPDATE
E	6/16/23		LX PLOT
F	7/18/23	KGD	PROGRESS SET



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E	6/16/23		LX PLOT
F	7/18/23	KGD	PROGRESS SET

PROJECT ID: ii-1982

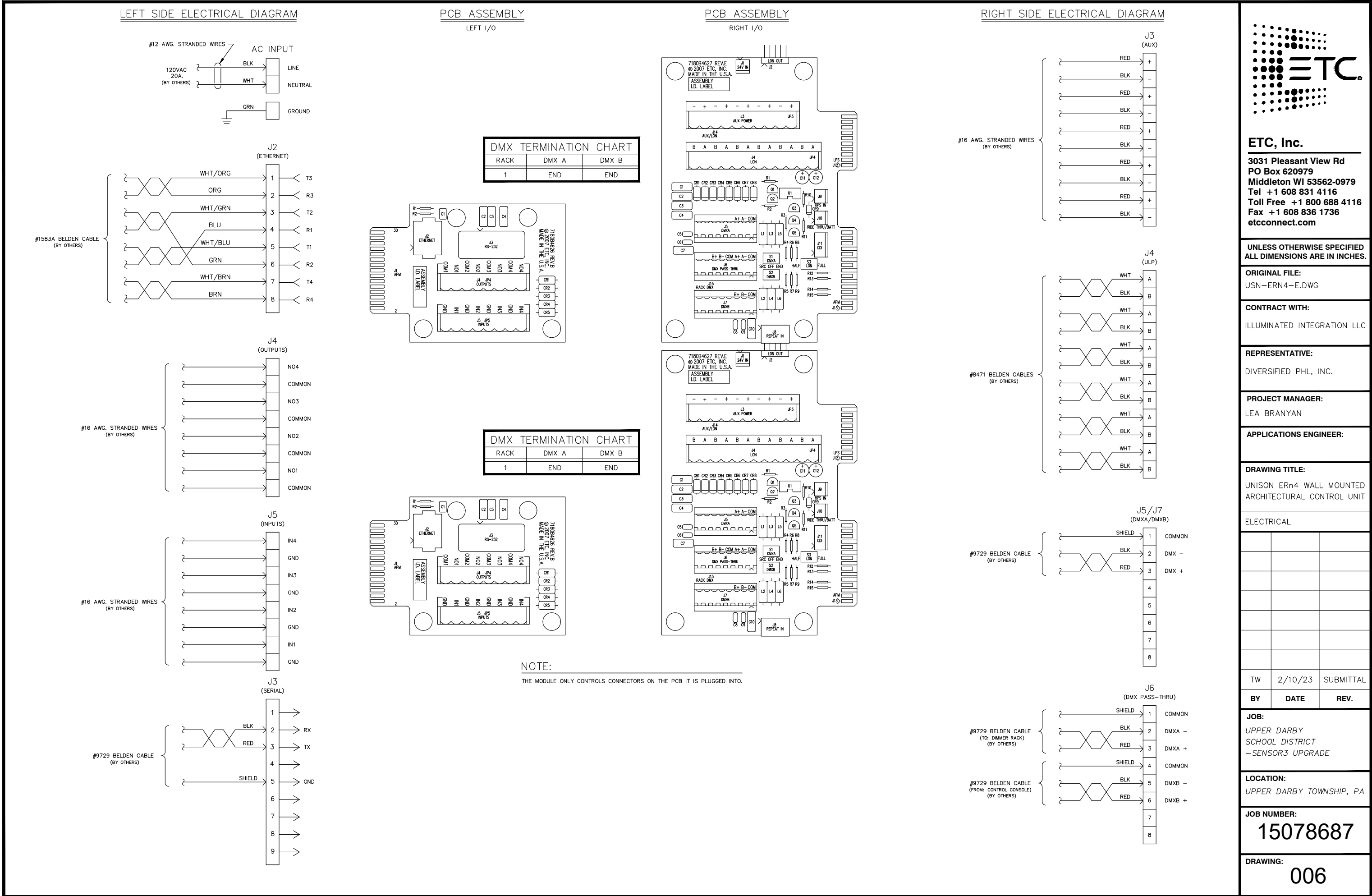
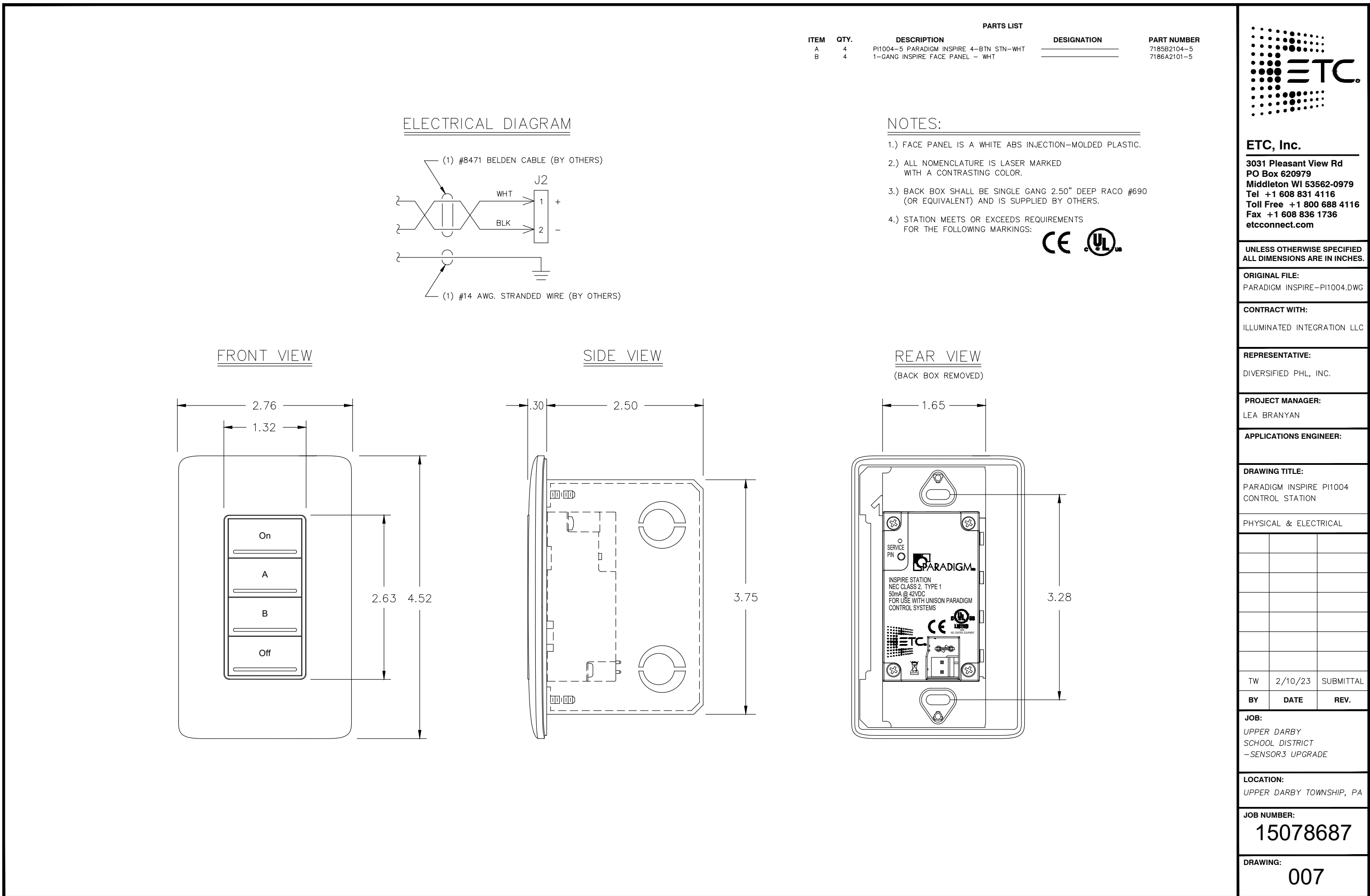
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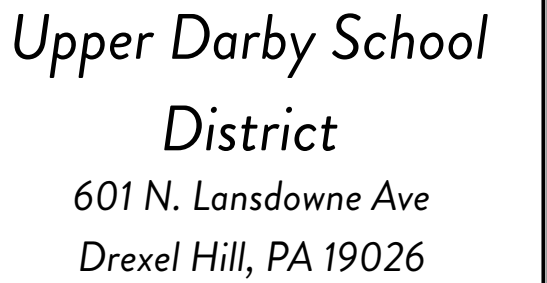
SCALE: 3/16" = 1'-0" OR AS NOTED

ETC SHOP DRAWINGS
(LIGHTING)

AVL2.106

SHEET NO. 18 OF 29





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PROJECT ID:	ii-1982
DATE:	4/6/23
SCALE:	3/16" = 1'-0" OR AS NOTED

AVL2.107

SHEET NO. 19 OF 29

ETC., Inc.

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etcconnect.com

UNLESS OTHERWISE SPECIFIED,
ALL DIMENSIONS ARE IN INCHES.

ORIGINAL FILE:
RISER-SENSOR.DWG

CONTRACT WITH:
ILLUMINATED INTEGRATION LLC

REPRESENTATIVE:
DIVERSIFIED PHL, INC.

PROJECT MANAGER:
LEA BRANYAN

APPLICATIONS ENGINEER:

DRAWING TITLE:
BEVERLY HILLS MIDDLE SCHOOL
SYSTEM RISER

TW	2/10/23	SUBMITTAL
BY	DATE	REV.

JOB:
UPPER DARBY
SCHOOL DISTRICT
~SENSORS UPGRADE

LOCATION:
UPPER DARBY TOWNSHIP, PA

JOB NUMBER:
15078687

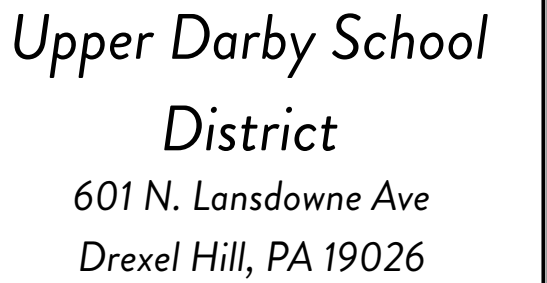
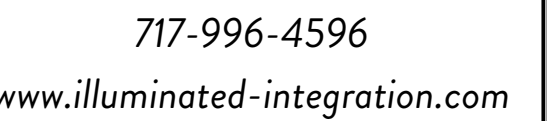
DRAWING:
100

CONTROL WIRING LEGEND		
SYMBOL	WIRE TYPE(S)	SIGNAL
(N*)	(1) BELDEN #1583A	ETCHnet (Cat5e)
* = WIRE IDENTIFICATION NUMBER (NOT QUANTITY)		

NOTES:

- ALL CONTROL WIRING IS PROVIDED BY OTHERS UNLESS NOTED OTHERWISE.
- ALL ETCWIR RUNS SHALL BE CONTINUOUS, UNSPLICED RUNS LESS THAN 300 FEET (90 METERS).
ALL NETWORK CONNECTIONS TO IE: IIA/GJA 168B.
- REFERENCE ETC SELECT JOB #15078691 FOR EXISTING EQUIPMENT.

BEVERLY HILLS MIDDLE SCHOOL

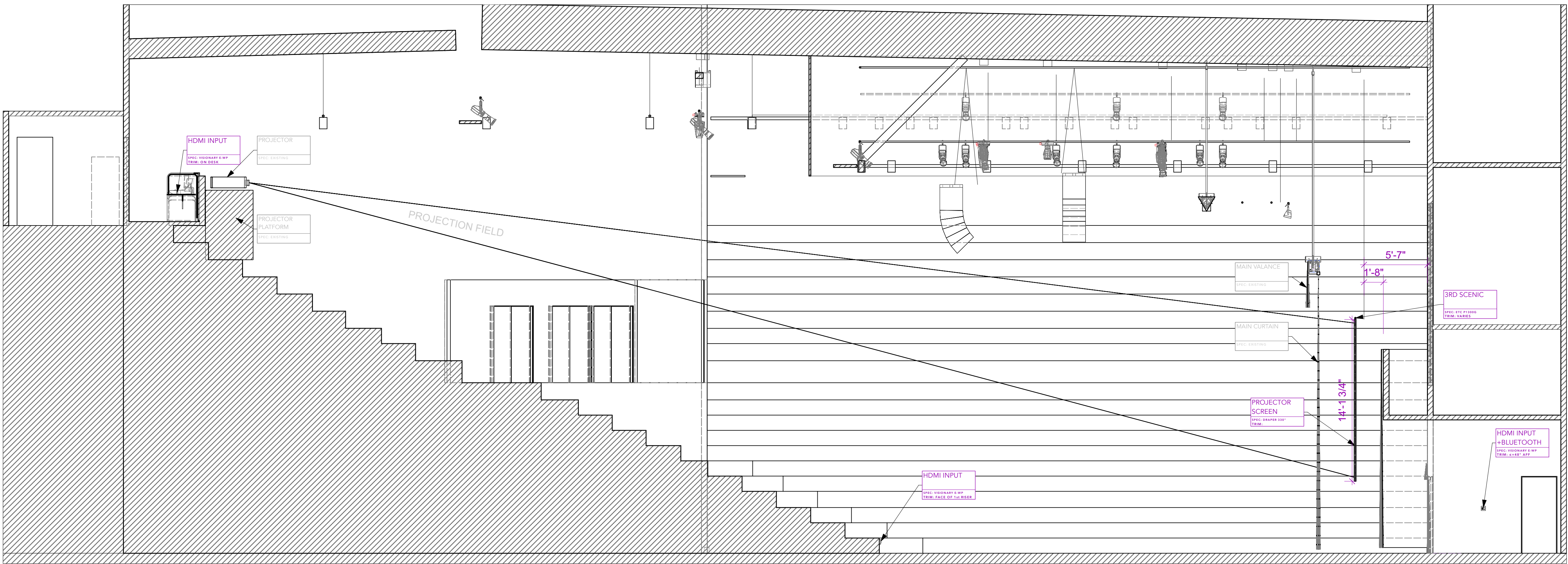


nlee@upperdarbysd.org

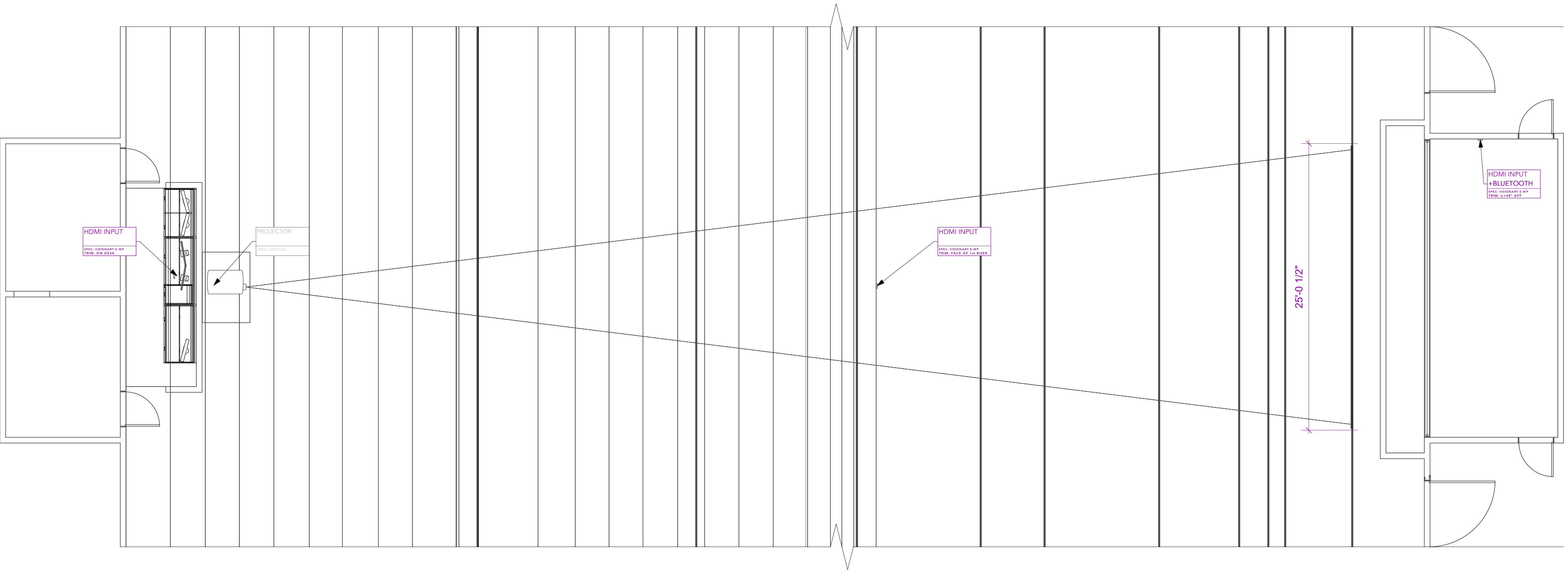
PROJECT ID:	ii-1982
DATE:	4/6/23
SCALE:	3/16" = 1'-0" OR AS NOTED

SHEET NO. 20 OF 29

DRAWING: 102



1 VIDEO SECTION
Scale: 3/16" = 1'-0"

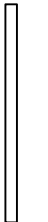


2 VIDEO PLAN
Scale: 3/16" = 1'-0"

SYMBOL KEY



Existing Projector



Draper 330" Projection Screen



Upper Darby School
District
601 N. Lansdowne Ave
Drexel Hill, PA 19026



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F	7/18/23	KGD	PROGRESS SET

PROJECT ID: ii-1982

DATE: 4/6/23

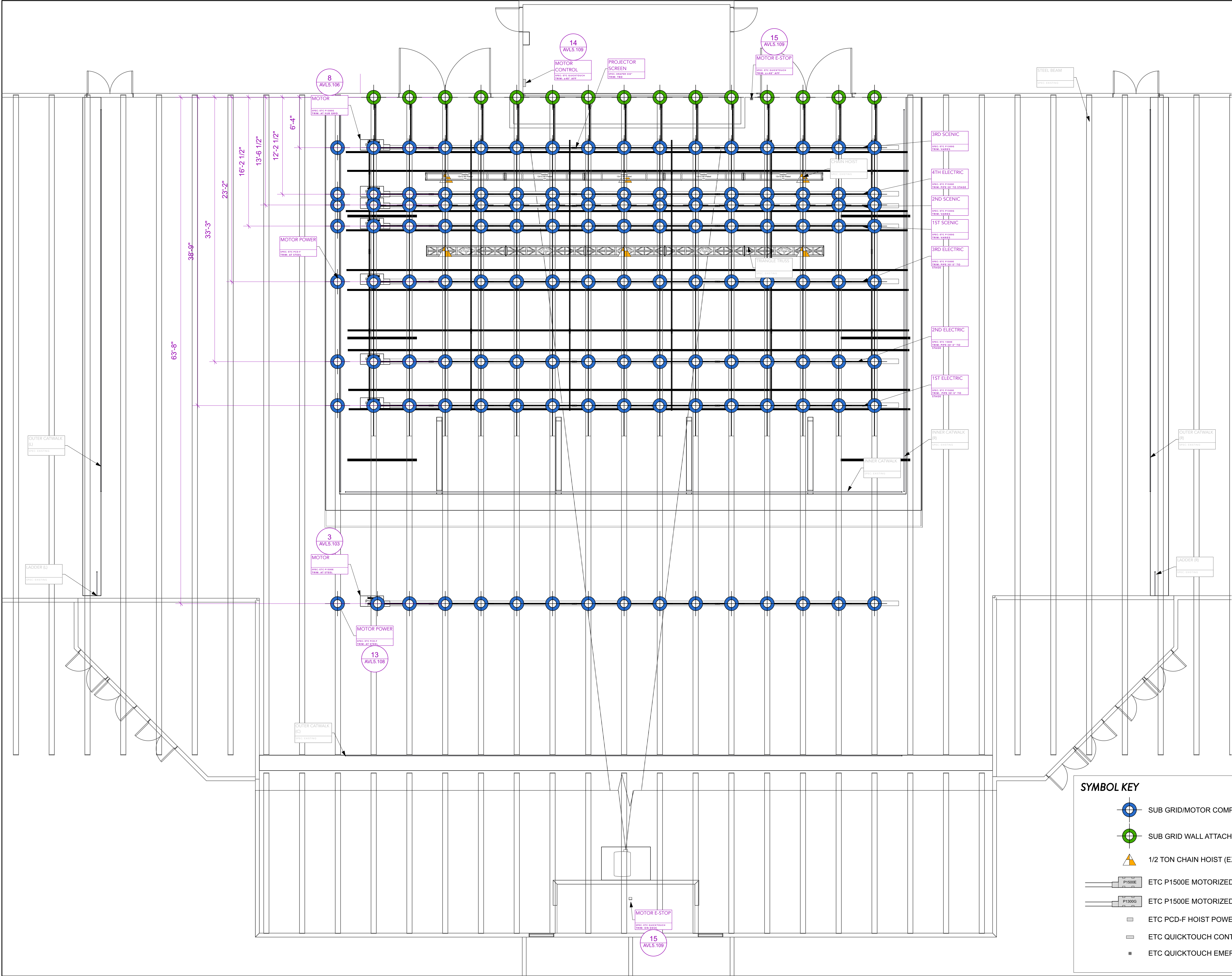
SCALE: 3/16" = 1'-0" OR AS NOTED

VIDEO PLAN

AVL3.101

SHEET NO. 8 OF 29

- NOTES
- Remove existing HDMI input plates and install ii plates. Use existing cable runs.
 - Projection screen to be hung and removed as needed by client. Install to begin, to allow projection focus.



REVISIONS			
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A	3/20/23	KGD	GP, Section & RCP
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D	5/22/23	KGD	PANEL SCHEDULE UPDATE
E	6/16/23		LX PLOT
F	7/18/23	KGD	PROGRESS SET

SYMBOL KEY

- SUB GRID/MOTOR COMPONENT ATTACHMENT POINT
- SUB GRID WALL ATTACHMENT POINT/LOCATION
- 1/2 TON CHAIN HOIST (EXISTING)
- ETC P1500E MOTORIZED HOIST
- ETC P1500E MOTORIZED HOIST
- ETC PCD-F HOIST POWER/CONTROL UNIT
- ETC QUICKTOUCH CONTROLLER
- ETC QUICKTOUCH EMERGENCY STOP



ILLUMINATED
INTEGRATION

2900 Canby Street
Harrisburg, PA 17103
717-996-4596
www.illuminated-integration.com

CLIENT CONTACT

Marvin Lee

mlee@upperdarbysd.org

REVISIONS

NO.	Date	By	Note
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E	6/16/23		LX PLOT
F	7/18/23	KGD	PROGRESS SET

PROJECT ID: ii-1982

DATE: 4/6/23

SCALE: 3/16" = 1'-0" OR AS NOTED

ETC SHOP DRAWINGS
(RIGGING)

AVL5.102

SHEET NO. 21 OF 29

UPPER DARBY HIGH SCHOOL - RIGGING
DREXEL HILL, PENNSYLVANIA
JOB #15078730

INDEX OF DRAWINGS							
DRAWING	RELEASE B C	REVISION	DRAWING DESCRIPTION	DRAWING	RELEASE B C	REVISION	DRAWING DESCRIPTION
001	☐ ☐	--	RIGGING PROJECT NOTES	009	☐ ☐	A	SCENIC BATTEN #1-3 PRODIGY P1300G - PHYSICAL POWERHEAD ASSEMBLY
002	☐ ☐	A	RIGGING SYSTEM RISER	010	☐ ☐	--	VERTICAL RACA - PHYSICAL
003	☐ ☐	A	ELECTRIC #1-4, FOH RIGGING SYSTEM ELEVATION	011	☐ ☐	--	FLAT CABLE TERMINATION BOX - PHYSICAL & ELECTRICAL
004	☐ ☐	A	ELECTRIC #1-4, FOH PRODIGY P1500E - PHYSICAL POWERHEAD ASSEMBLY	012	☐ ☐	A	BEAM CLAMP ASSEMBLY - PHYSICAL
005	☐ ☐	A	ELECTRIC #1-4, FOH CABLE MANAGEMENT FLAT CABLE ROUTING SYSTEM	013	☐ ☐	--	PCD-F POWER/CONTROL DISTRIBUTION BOX - PHYSICAL & ELECTRICAL
006	☐ ☐	A	ELECTRIC #1-4, FOH CABLE MANAGEMENT WIRE ROPE ROUTING SYSTEM	014	☐ ☐	--	QUICKTOUCH+ 12-CHANNEL RIGGING CONTROLLER - PHYSICAL & ELECTRICAL
007	☐ ☐	A	ELECTRIC #1-4, FOH - PHYSICAL DISTRIBUTION STRIP	015	☐ ☐	--	RIGGING EMERGENCY STOP - PHYSICAL & ELECTRICAL
008	☐ ☐	A	SCENIC BATTEN #1-3 RIGGING SYSTEM ELEVATION				

IMPORTANT:

PLEASE NOTE THE FOLLOWING INFORMATION:

THE PROJECT MANAGER FOR THIS SYSTEM IS: **ADAM BALLARD**

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**



ETC, Inc.
3031 Pleasant View Rd
PO Box 620979
Middletown WI 53562-0979
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Toll Free +1 800 688 4116
Fax +1 608 836 1736
etcconnect.com

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ALL DIMENSIONS ARE IN INCHES.

ORIGINAL FILE:
INDEX.DWG

CONTRACT WITH:
ILLUMINATED INTEGRATION LLC

REPRESENTATIVE:
DIVERSIFIED PHIL, INC.

PROJECT MANAGER:
ADAM BALLARD

APPLICATIONS ENGINEER:
ERIC LINDAHL

DRAWING TITLE:
TITLE PAGE/DRAWING INDEX

TW 2/15/23 A

JK 1/31/23 SUBMITTAL

BY DATE REV.

JOB:
UPPER DARBY HIGH SCHOOL
- RIGGING

LOCATION:
DREXEL HILL, PENNSYLVANIA

JOB NUMBER:
15078730

DRAWING:
000

PROJECT NOTES

SECTION 1 - CONTACTS:

PROJECT MANAGER:
Adam Ballard
Direct Tel: 608-824-5261
E-mail: adam.ballard@etcconnect.com

CONTRACT WITH / INSTALLER:

ILLUMINATED Integration LLC
2900 Canby St
Harrisburg, Pennsylvania 17103-2146
Tel: 717-996-4596

REPRESENTATIVE:

Diversified Phil, Inc.
1 Ivybrook Blvd, Ste 100
Warminster, Pennsylvania 18974-1772
Tel: 215-442-0700
Fax: 215-442-5790

SECTION 2 - GENERAL NOTES:

- A.) ETC Prodigy® & Vortex® NXT hoist installations shall comply with all local, state/provincial, and national codes as required by the authority having jurisdiction.
- B.) All field dimensions should be verified prior to installation. Dimensions are subject to change due to detailed design and on-site considerations.
- C.) Installation manuals, maintenance manuals, and other reference material can be found on ETC's website at <http://www.etcconnect.com>.
- D.) ETC reserves the right to revise designs at any time.
- E.) ETC Prodigy & Vortex NXT systems must be attached only to structures that have been deemed by a qualified person to be capable of supporting the forces/loads imposed by the system. Verification of this review is the responsibility of the installing contractor.
- F.) ETC Prodigy & Vortex NXT hoists require 208 volt, 60 Hz, 3-phase power and/or 480 volt, 60 Hz, 3-phase power service installed and sized according to NEC 430. The installing contractor must verify the existence of the correct power and that the wiring has been installed to the appropriate electrical phases. The correct phase sequence must be verified on each Power and Control Distribution outlet prior to operating any of the hoists.
- G.) ETC Prodigy & Vortex NXT hoists may be operated for installation, service, or limit switch adjustment from a control panel on the back of the hoist. Normal hoist operation is via an ETC Rigging Control System or by means of a fixed speed or hand held remote.
- H.) The Rigging Controller and the operator must be positioned within line-of-sight of the hoist or the operator must use the fixed speed remote control, remote enable pendant, or hand held remote to allow the operator line-of-sight operation.
- I.) Power and Control Distribution primary feed terminations are as follows:
Individual PCD Raceplate : 18 - 3 AWG
Main Feed PCD Raceway : 4 AWG - 300 kcmil
Discreet Feed PCD Raceway : 22 - 8 AWG
- J.) ETC, Inc. Distribution Equipment Wire Range:
All data connection terminals : 24 - 20 AWG
All 20A terminal blocks : 22 - 8 AWG

SECTION 3 - RIGGING CONTROL SYSTEM NOTES:

- K.) Please contact ETC, Inc. if deviations from the control riser are necessary.
- L.) Only the following control wiring substitutions may be used:
- | | |
|-----------------------------|---------------------------------|
| Belden 1583A | Belden 9729 |
| (24AWG) Cat5e UTP or better | P2 |
| (22AWG) Cat5 UTP or better | Carl COS10 |
| | TMB PCD24T |
| | West Penn DA2402 |
| Belden 1533R | Plenum Versions (when required) |
| (24AWG) Cat5e STP or better | Belden 88729 |
| (22AWG) Cat5 STP or better | Belden 82729 |
| | West Penn DA252402 |
| | Mannhattan M42891 |



For a full list of approved cables use the link below or scan QR code.
<http://www.etcconnect.com/Support/Cable-Cross-Database.aspx>

Scan to see approved cables.

- M.) Cat5e/Cat6 ETC Rigging Control System control wiring must be in grounded metal conduit unless shielded cable (Cat5e/Cat6 STP) is used.

SECTION 4 - PRODIGY HOIST NOTES:

- N.) Each Prodigy Compression Tube Hoist shall be installed as part of a system that must include the Prodigy Powerhead, Prodigy Compression Tube, Prodigy beam clamps, Prodigy lift blocks and an ETC Rigging Control System.
- O.) Prodigy P75, P2, and EXO hoists do not require Compression Tube, Prodigy Lift Blocks or Compression Tube beam clamps.
- P.) Prodigy fixed speed and SoftLift™ hoists with Compression Tube may be installed as stage-electric sets utilizing one of the Prodigy Cable Management/flat cable distribution systems.
- Q.) All rigging steel for ETC Prodigy hoists shall be within 2" of level in all directions and no more than 1/2" difference in elevation before alternative solutions are necessary.
- R.) The load lifted by the Prodigy hoist with Compression Tube does not present any horizontal loading on the beams supporting the hoist when installed with compression tube and slip fit beam clamps. Contact ETC for more information.
- S.) The power and control cables for Prodigy Hoists, P75 Motor Starter Boxes, and EXO Motor Starter Boxes are 8'-0" long. The power and control cables attach to the bottom/rear of the Powerhead. The installing contractor must ensure that the power and control distribution is installed in sufficient proximity to the powerhead. Extension cords may not be used.
- T.) The motor power cables and control cables between Prodigy EXO or P75 hoists and motor starter boxes are 10'-0" long. The installing contractor must ensure that the motor starter box is mounted in sufficient proximity to the powerhead. Extension cords may not be used.
- U.) Use 5/8" Unistrut brand hardware for Prodigy EXO and P2 hoist and frame attachment points.
- V.) A minimum of 1'-4" clearance is needed at the rear of the Prodigy Powerhead with Compression Tube and P2 tubeless hoists.

Powerhead Weight Information			
Model	Approximate Weight	Model	Approximate Weight
P650E	395 lb	P75-2000G	875 lb
P800G		P75-2000GS	1,070 lb
P1300G		P75-V1200S	875 lb
P1500E	580 lb	P75-SC	1,105 lb
P1900G		FlyPipe Studio	140 lb
V1000S	500 lb	FlyPipe	180 lb
P2	300 lb	FlyPipe XL	230 lb
EXO P900G	450 lb	FlyPipe Mid-Section	60 lb
EXO P1400G		VF-0820	625 lb
EXO P2000G	700 lb	VF-2020	625 lb
EXO P2000GS	600 lb	VF-1740	650 lb
EXO V1200S		VF-14140	720 lb
		VF-12180	715 lb

Powerhead weight does not include Compression Tube, beam clamp, lift block, or lift line weight.

SECTION 5 - VORTEX NXT HOIST NOTES:

- W.) Hoist service is bottom access for all mechanical and electrical/control components and requires 1'-4" motor end clearance.
- X.) Standard Vortex NXT hoist and lift block mounting assemblies are designed for structural beam flanges from 4'-1/2" to 12" wide and up to 1" thick.
- Y.) All rigging steel for ETC Vortex NXT hoists and Compression Tube shall be within 2" of level in all directions and no more than 1/16" difference in elevation before alternative solutions are necessary.
- Z.) Minimum 5-1/2" clearance is required from the top face of the hoist for backbone stiffeners.
- AA.) Wire rope load is not to exceed 420 lb. to maintain a 10:1 design factor, 525 lb. for 8:1. This is the responsibility of the end user.
- BB.) The standard Vortex NXT limit switch assembly requires a minimum clearance of 6" between overtravel limit and any obstruction in both the up and down directions of travel.
- CC.) Upper and lower limits are set at the Factory per the dimensions found in the submittal set and are dependent on the building (steel) layout, hoist layout, lift block placement, and cable termination to the batten.

Hoist Power Information					
Model	Motor Size	208V 3 WIRE + GND		480V 3 WIRE + GND	
		Current Draw	Inrush Current	Current Draw	Inrush Current
P650E	1.5 HP	5.0 A	16.8 A	2.5 A	8.4 A
P800G					
EXO P900G					
P1000E	1.5 HP	6.5 A	16.8 A	3.25 A	8.4 A
EXO P1400G					
P1500E	2.0 HP	10.5 A	32.6 A	5.25 A	16.5 A
P1900G					
EXO P2000G	2.0 HP	10.5 A	N/A	5.25 A	N/A
EXO P2000GS					
V1000S	7.5 HP	-	-	15.0 A	N/A
EXO V1200S					
P2	1.5 HP	5.0 A	23.7 A	2.5 A	11.7 A
P75-2000G	1.5 HP	10.5 A	32.6 A	5.25 A	16.5 A
P75-2000GS	1.5 HP	10.5 A	N/A	5.25 A	N/A
P75-3300GS					
P75-SC	7.5 HP	-	-	15.0 A	N/A
P75-V1200S					
FlyPipe Studio	0.5 HP	2.4 A	11.1 A	1.0 A	4.8 A
FlyPipe	1.0 HP	3.7 A	17.5 A	1.5 A	7.5 A
FlyPipe XL	1.5 HP	4.5 A	33.3 A	2.1 A	14.4 A
VF-0820	1.0 HP	4.6 A	11.1 A	2.1 A	4.8 A
VF-2020	1.7 HP	6.6 A	34.8 A	3.0 A	17.4 A
VF-1740	3.0 HP	10.6 A	N/A	4.8 A	N/A
VF-14140	9.5 HP	-	-	14.0 A	N/A
VF-12180	9.5 HP	-	-	14.0 A	N/A



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ILLUMINATED INTEGRATION LLC

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PROJECT MANAGER:
ADAM BALLARD

APPLICATIONS ENGINEER:
ERIC LINDAHL

DRAWING TITLE:
RIGGING PROJECT NOTES

JK 1/31/23 SUBMITTAL

BY DATE REV.

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- RIGGING

LOCATION:
DREXEL HILL, PENNSYLVANIA

JOB NUMBER:
15078730

DRAWING:
001



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F	7/18/23	KGD	PROGRESS SET

PROJECT ID: ii-1982

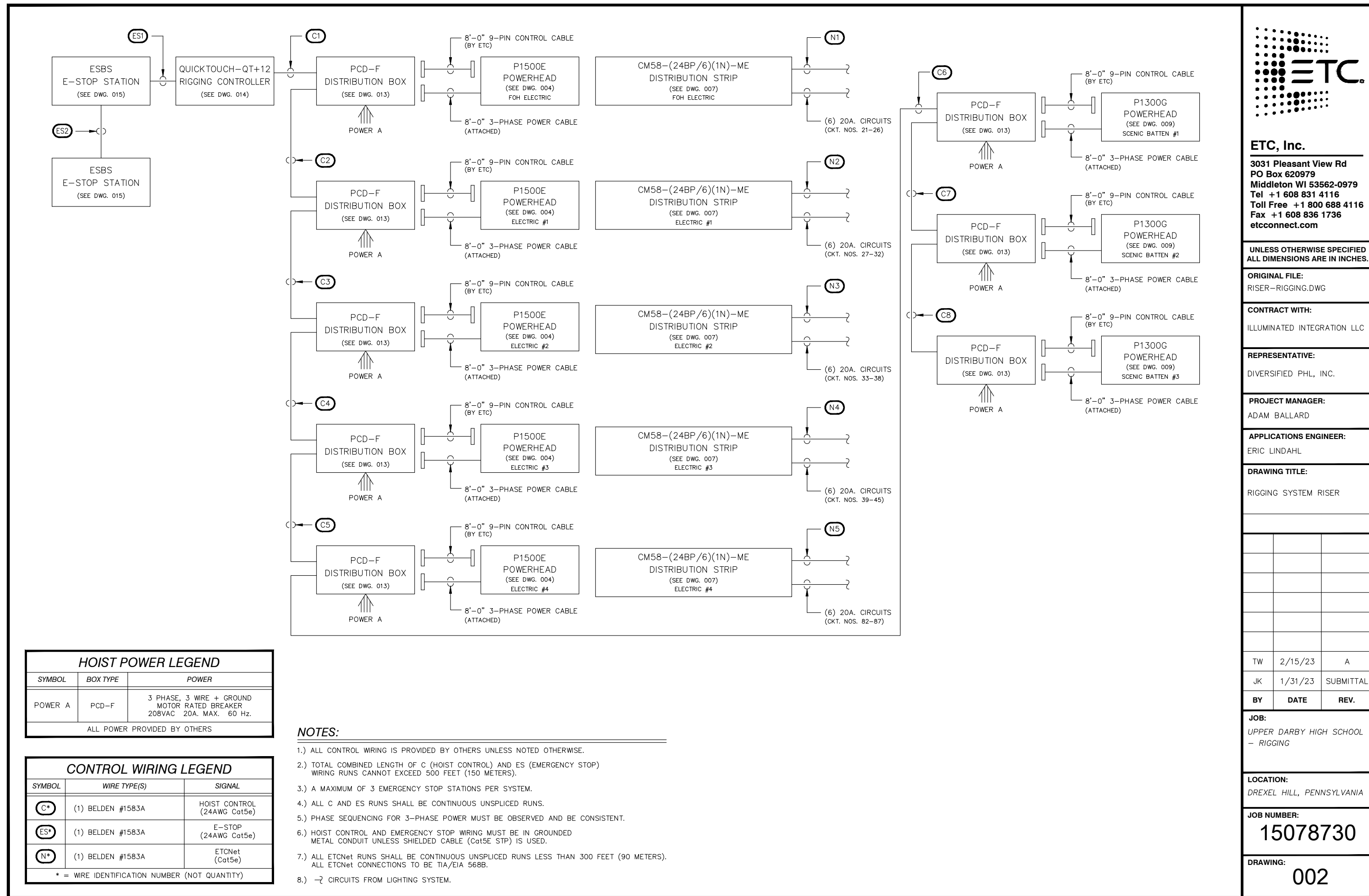
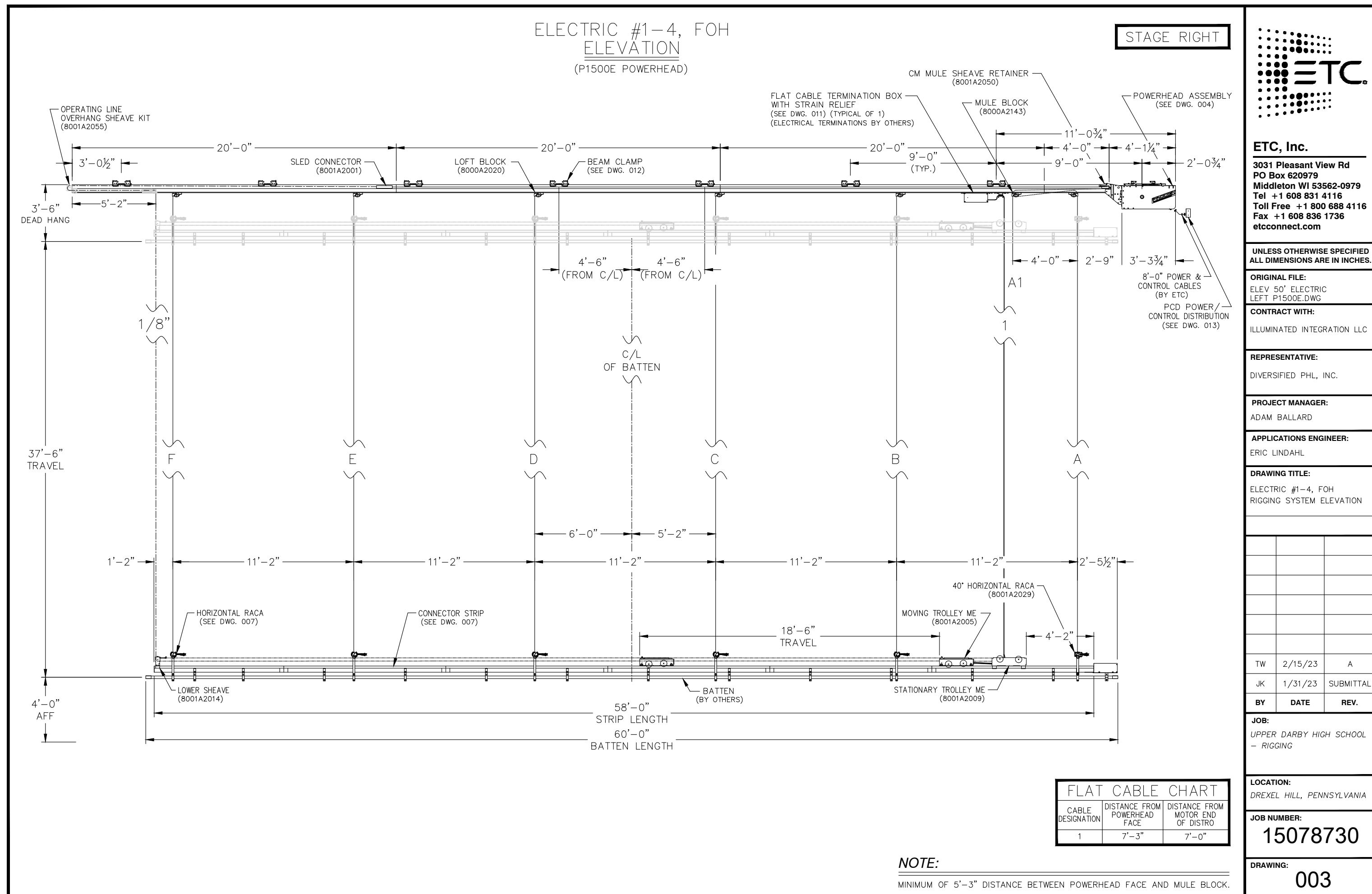
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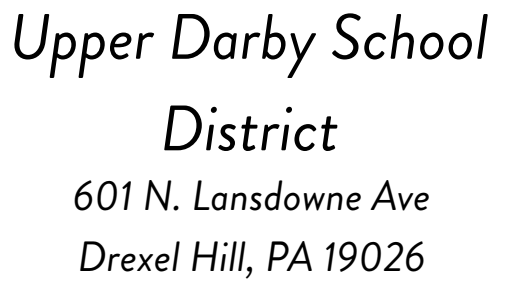
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ETC SHOP DRAWINGS
(RIGGING)

AVL5.103

SHEET NO. 22 OF 29





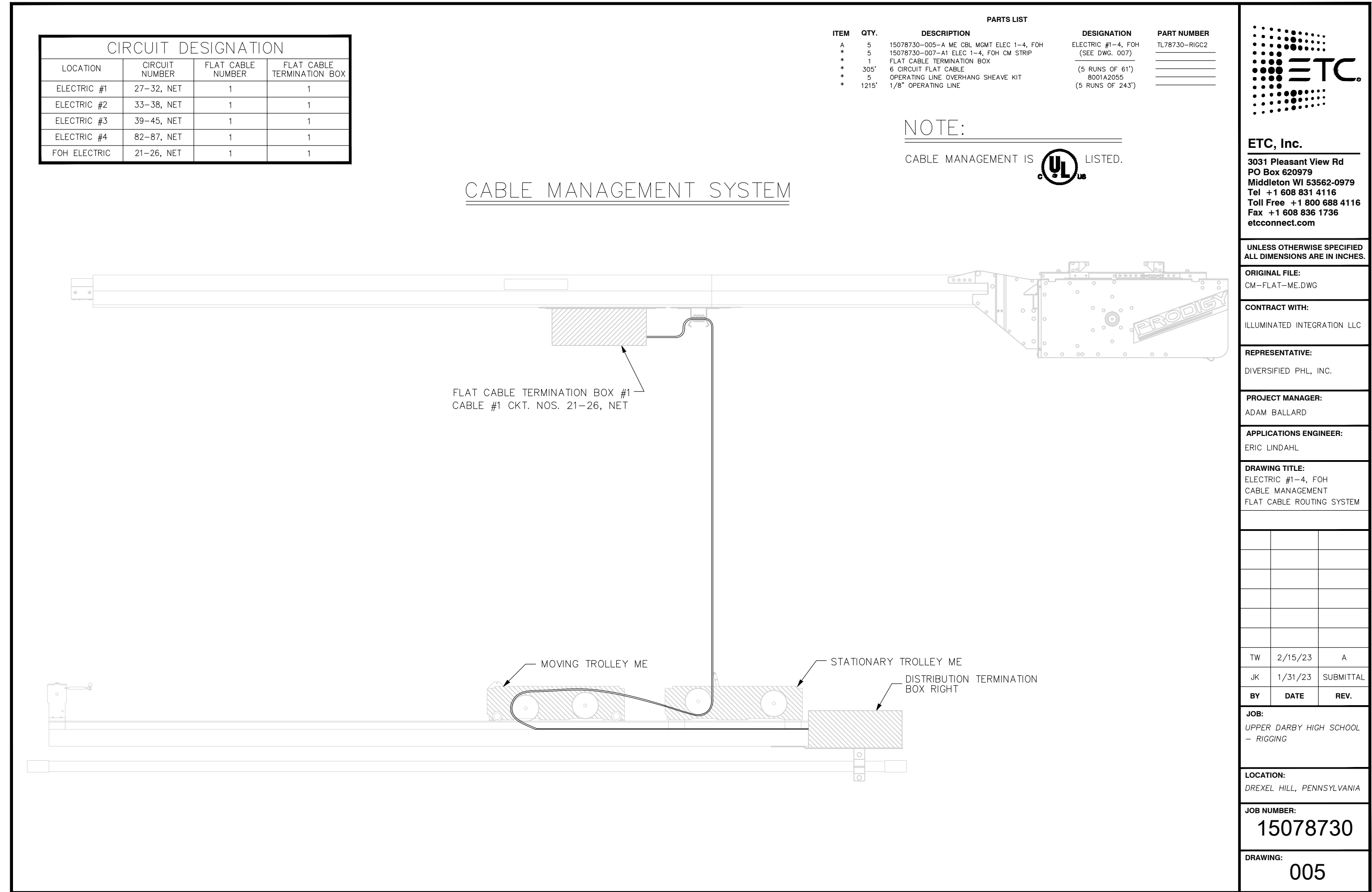
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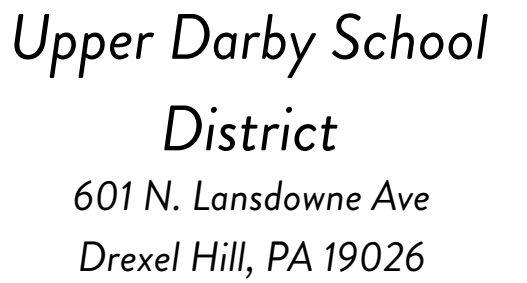
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ETC SHOP DRAWINGS
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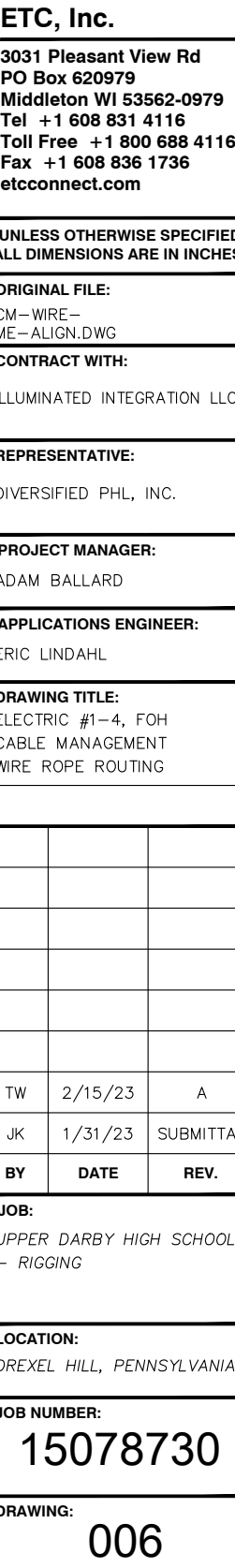
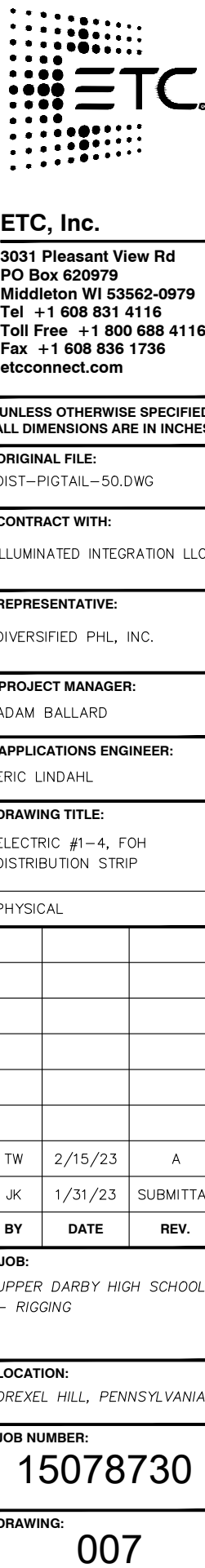
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AVL5.105

SHEET NO. 24 OF 29





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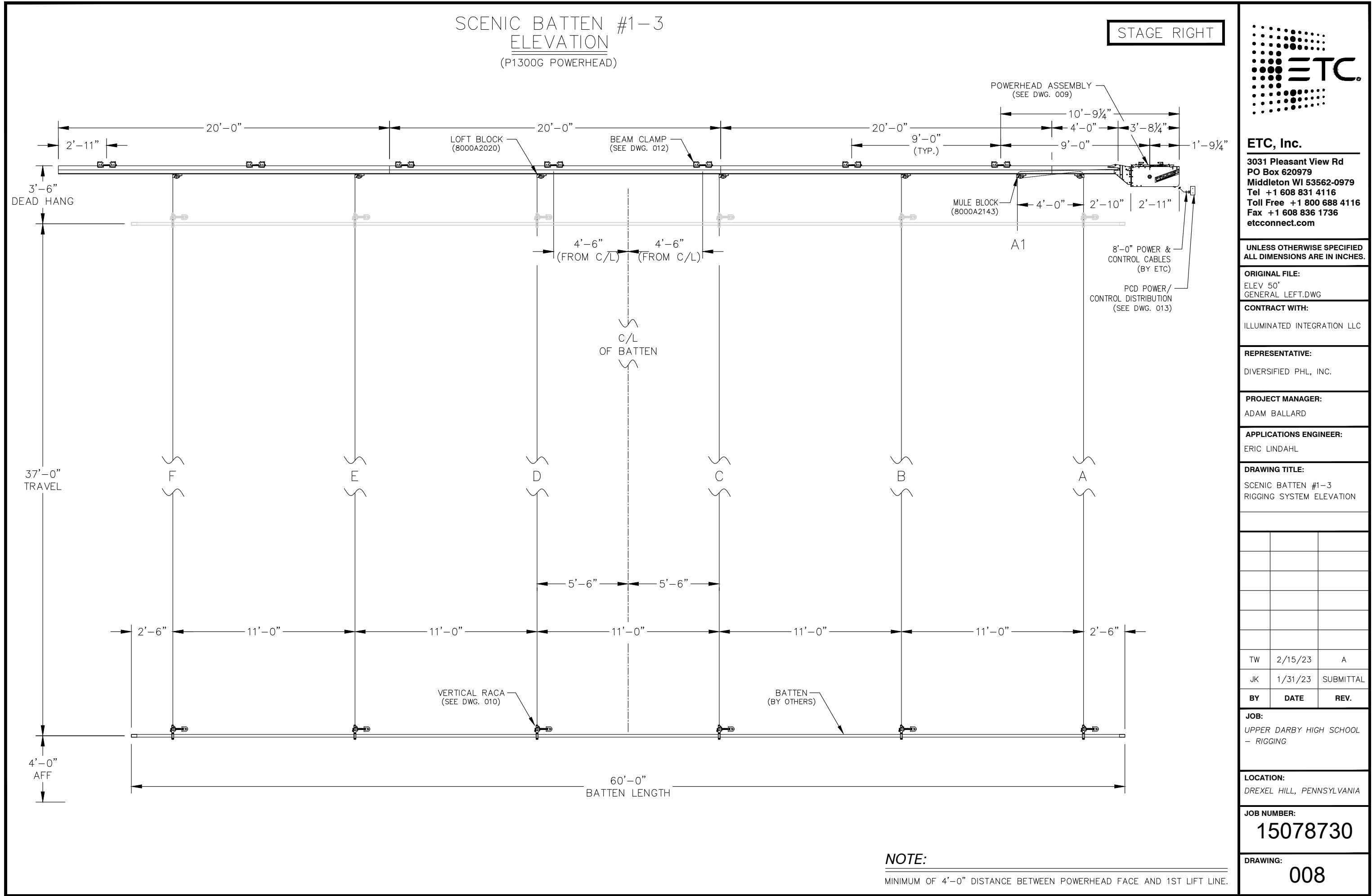
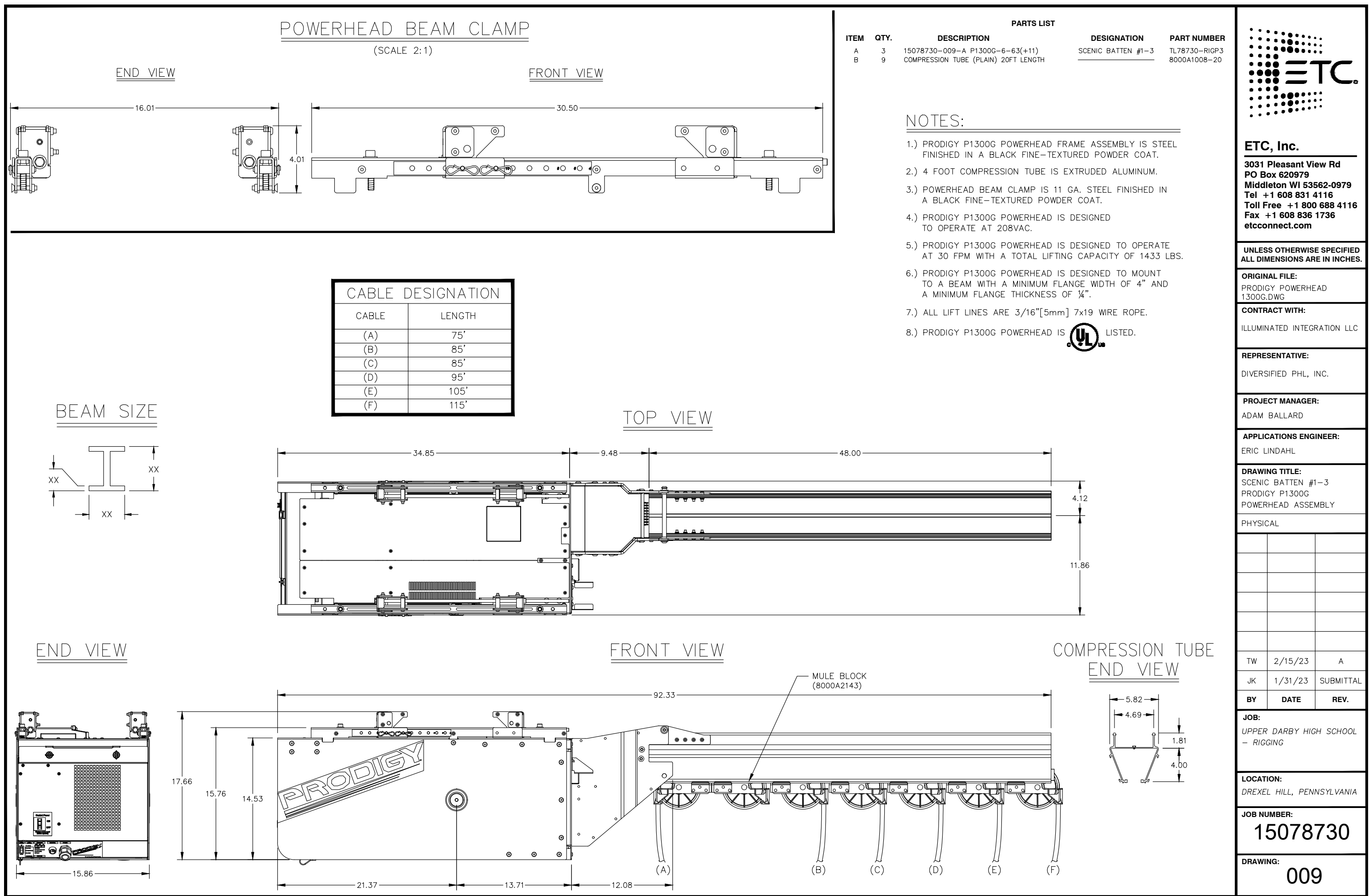
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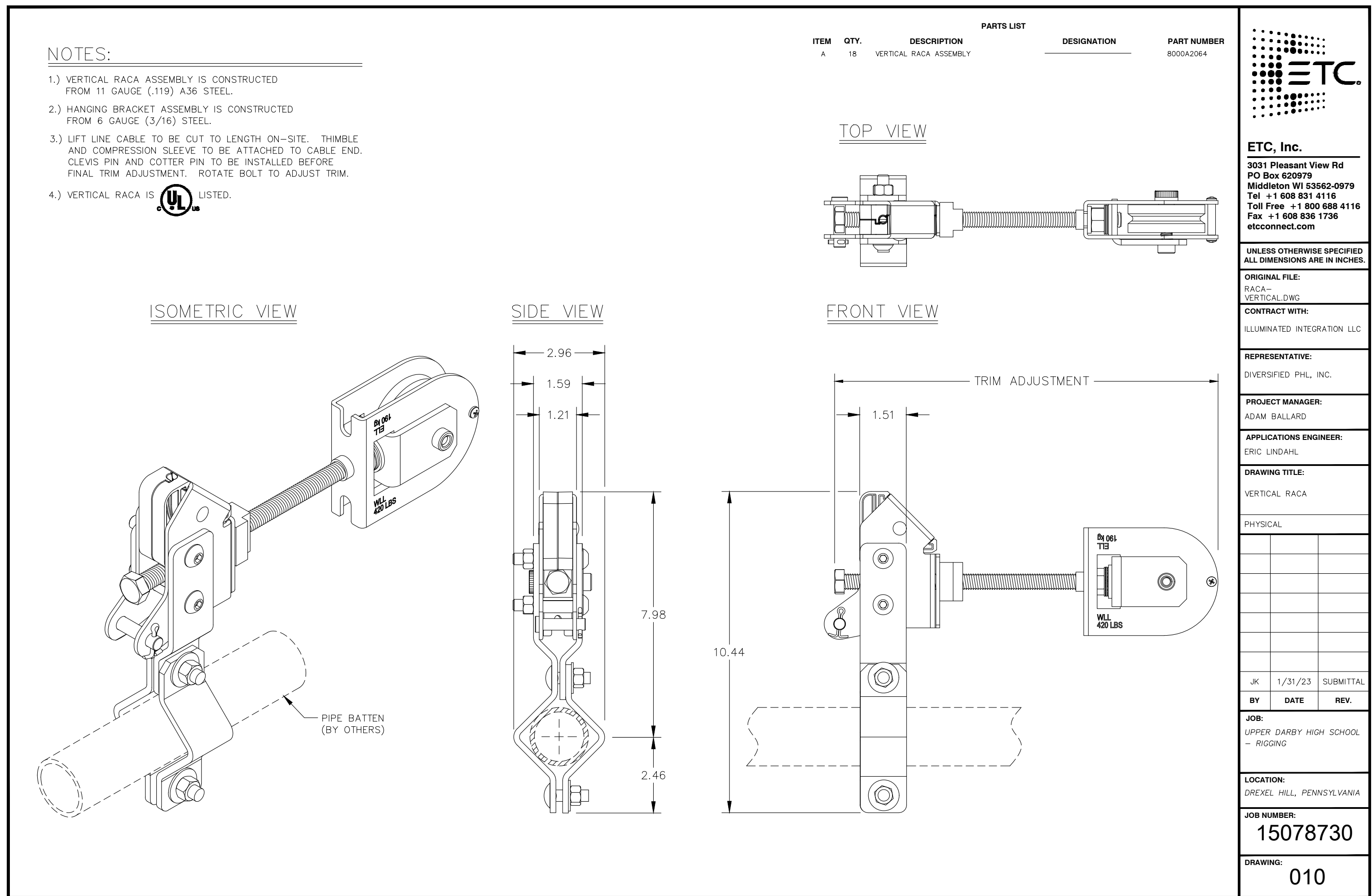
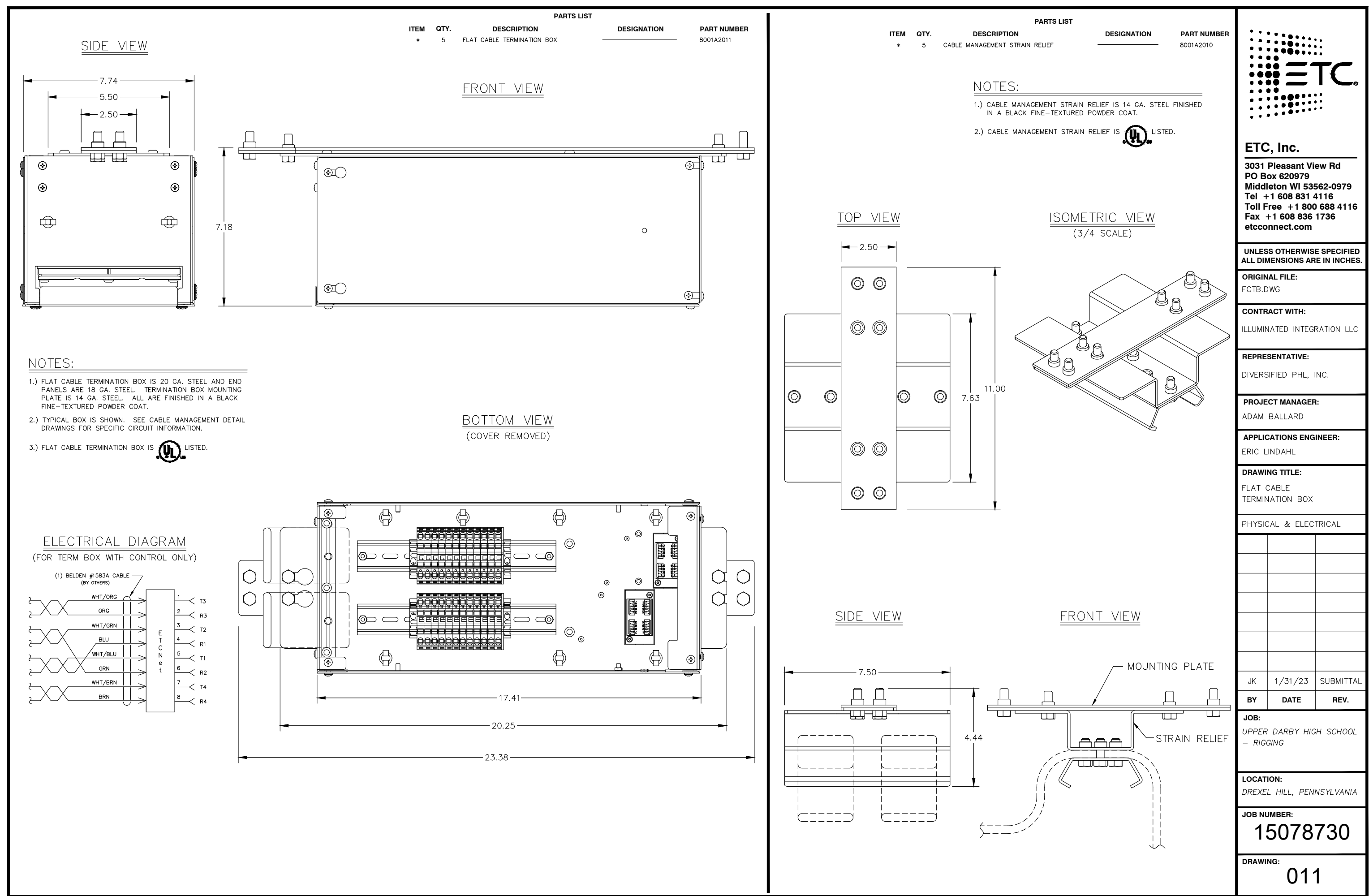
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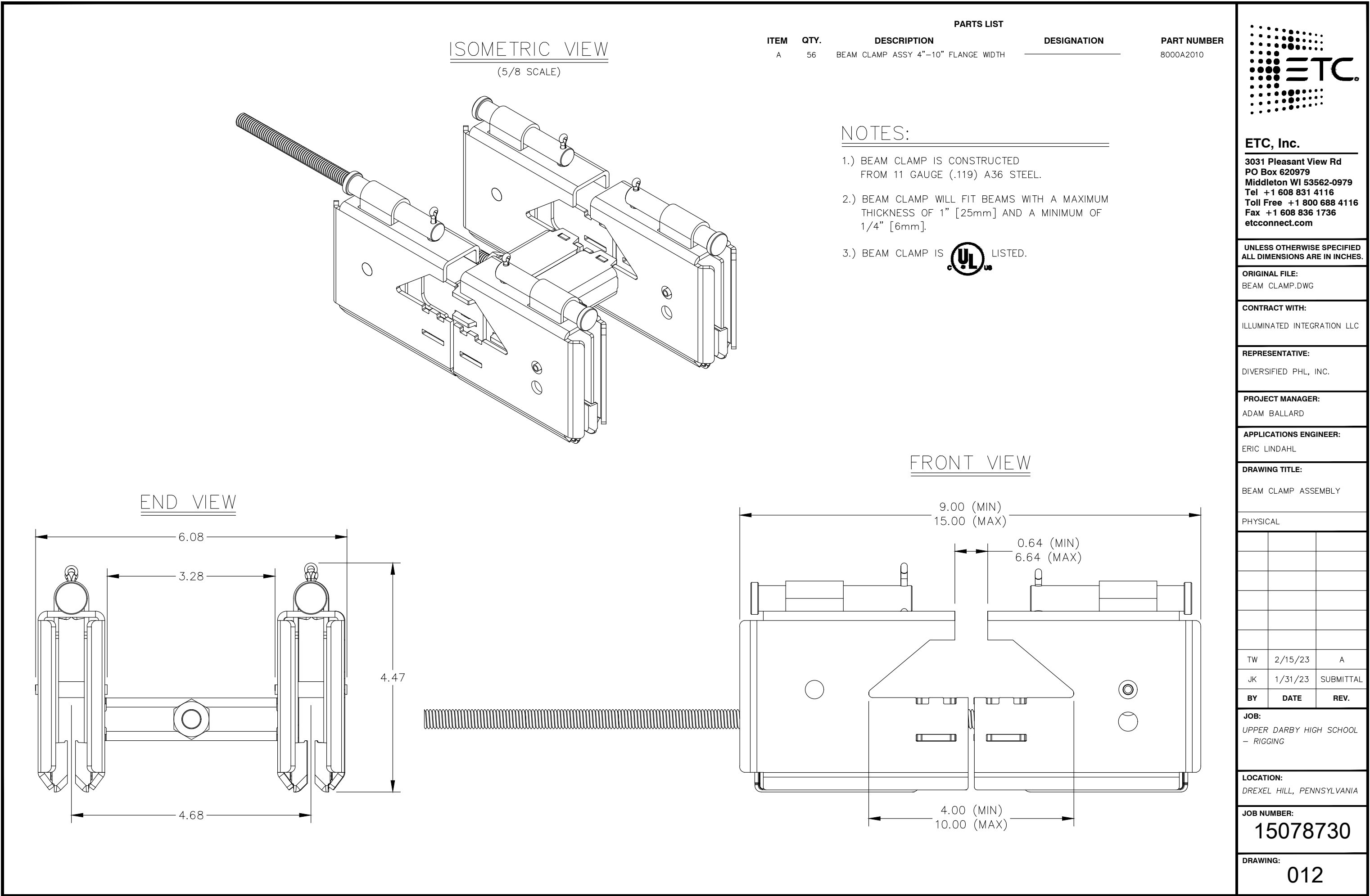
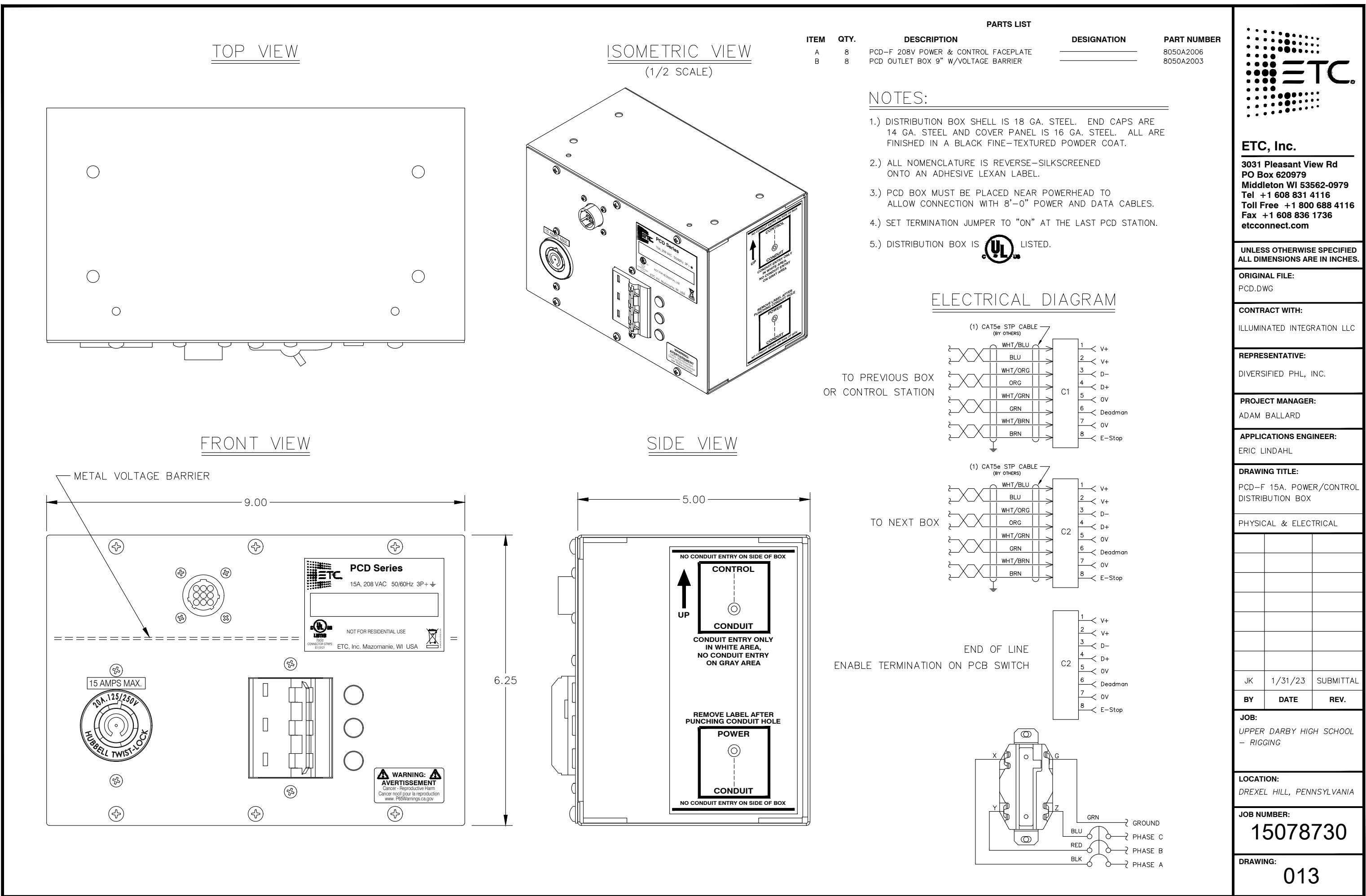
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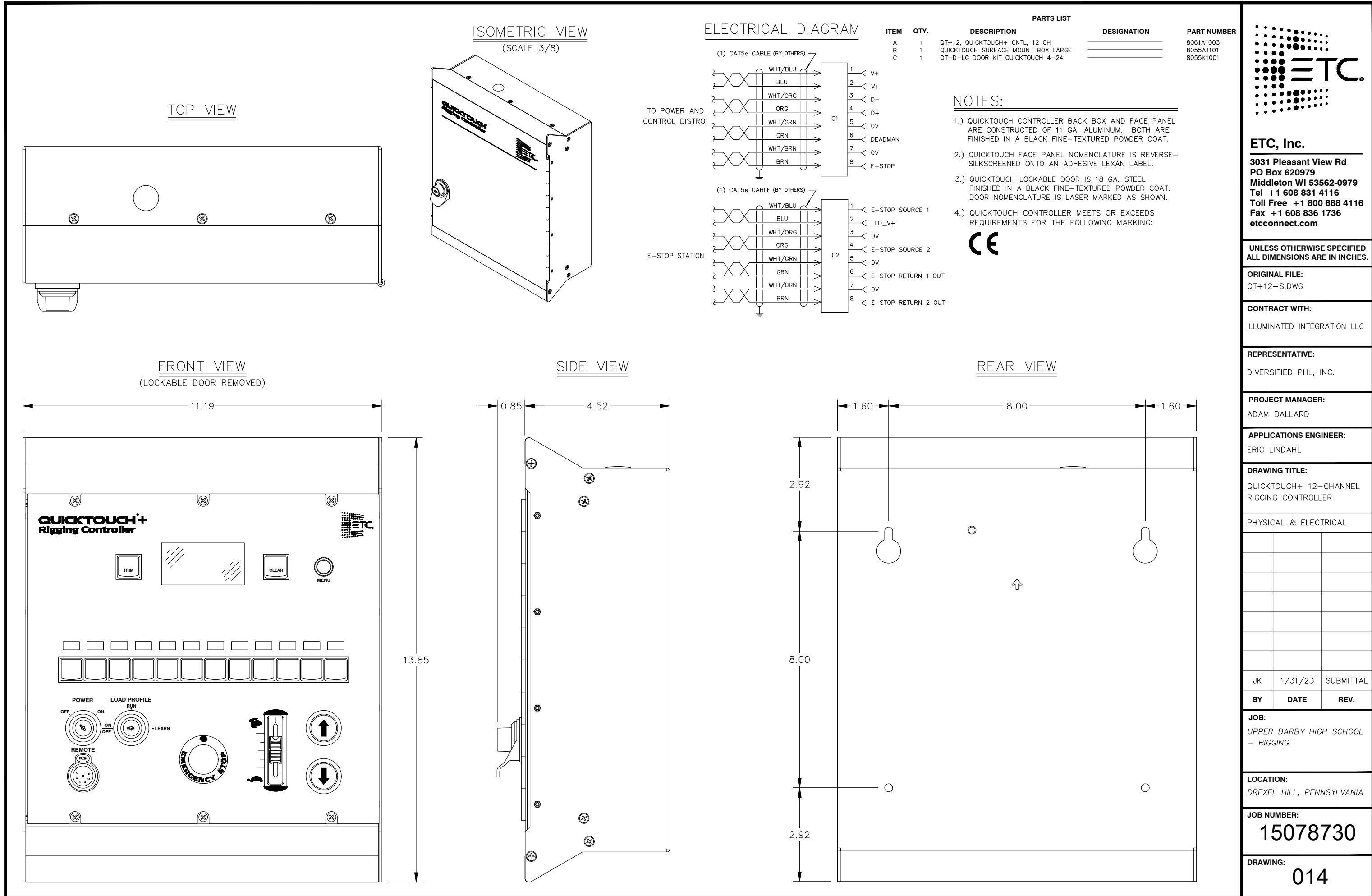
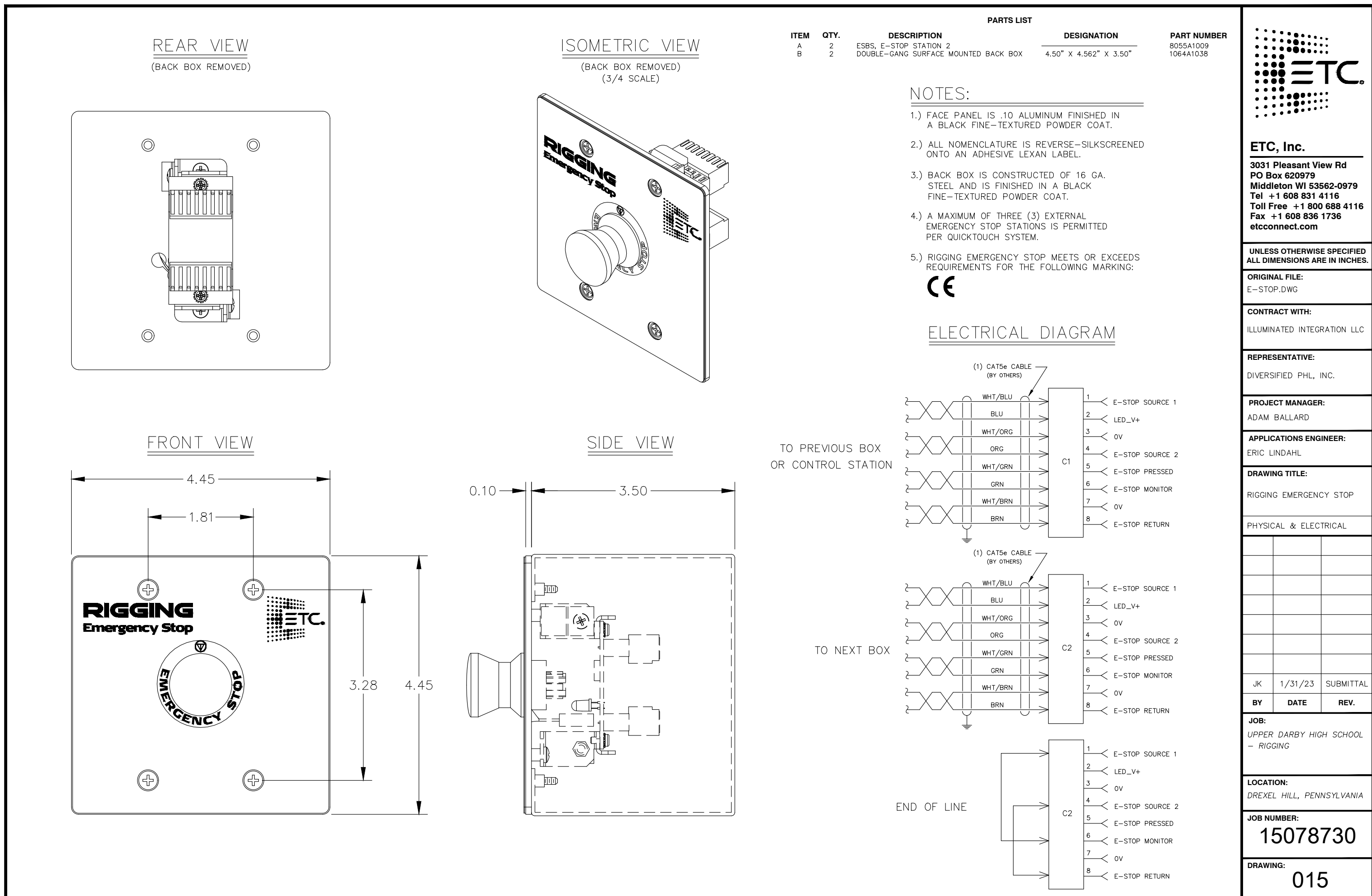
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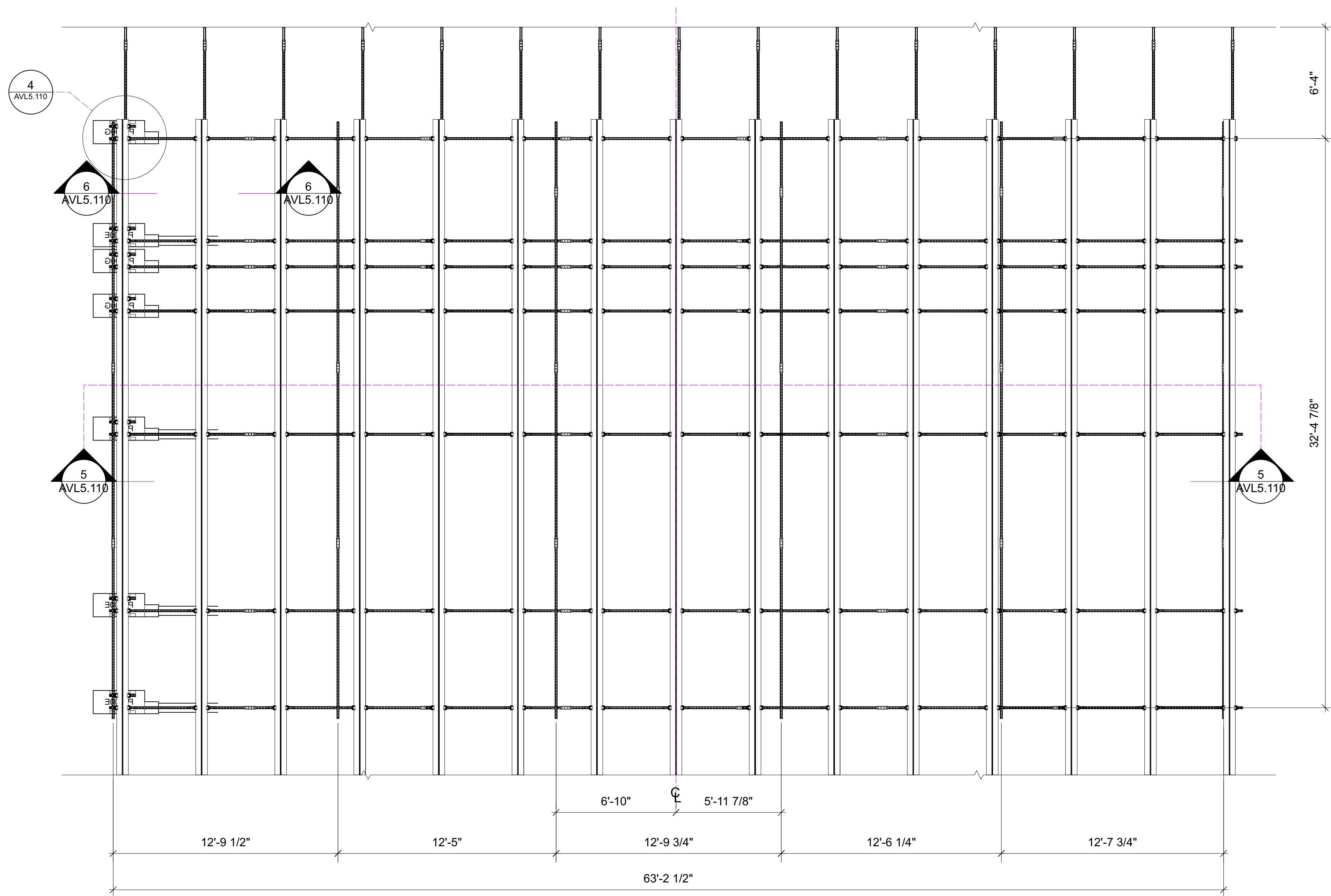
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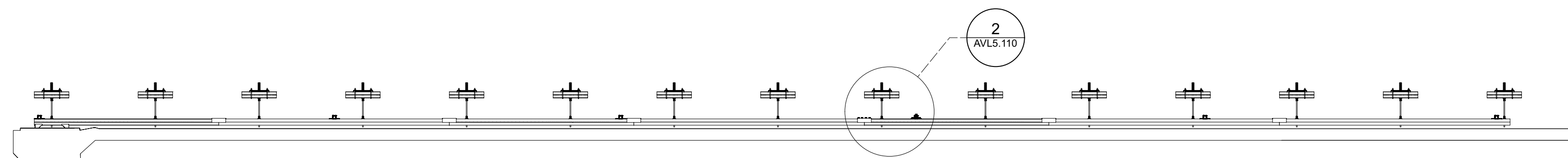
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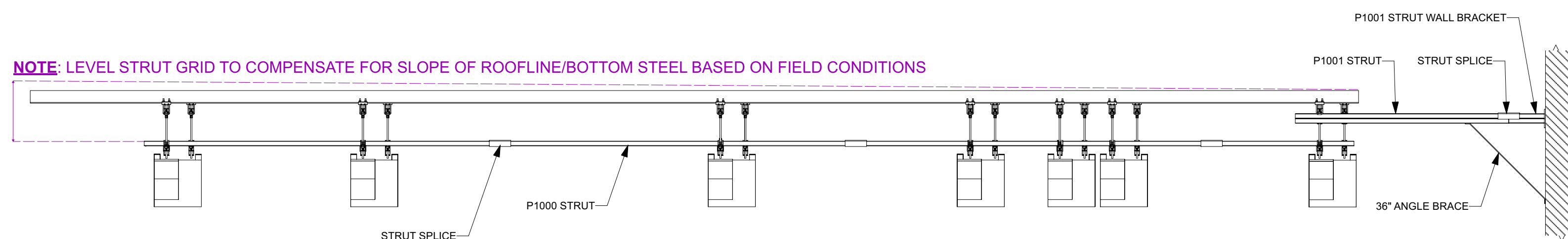




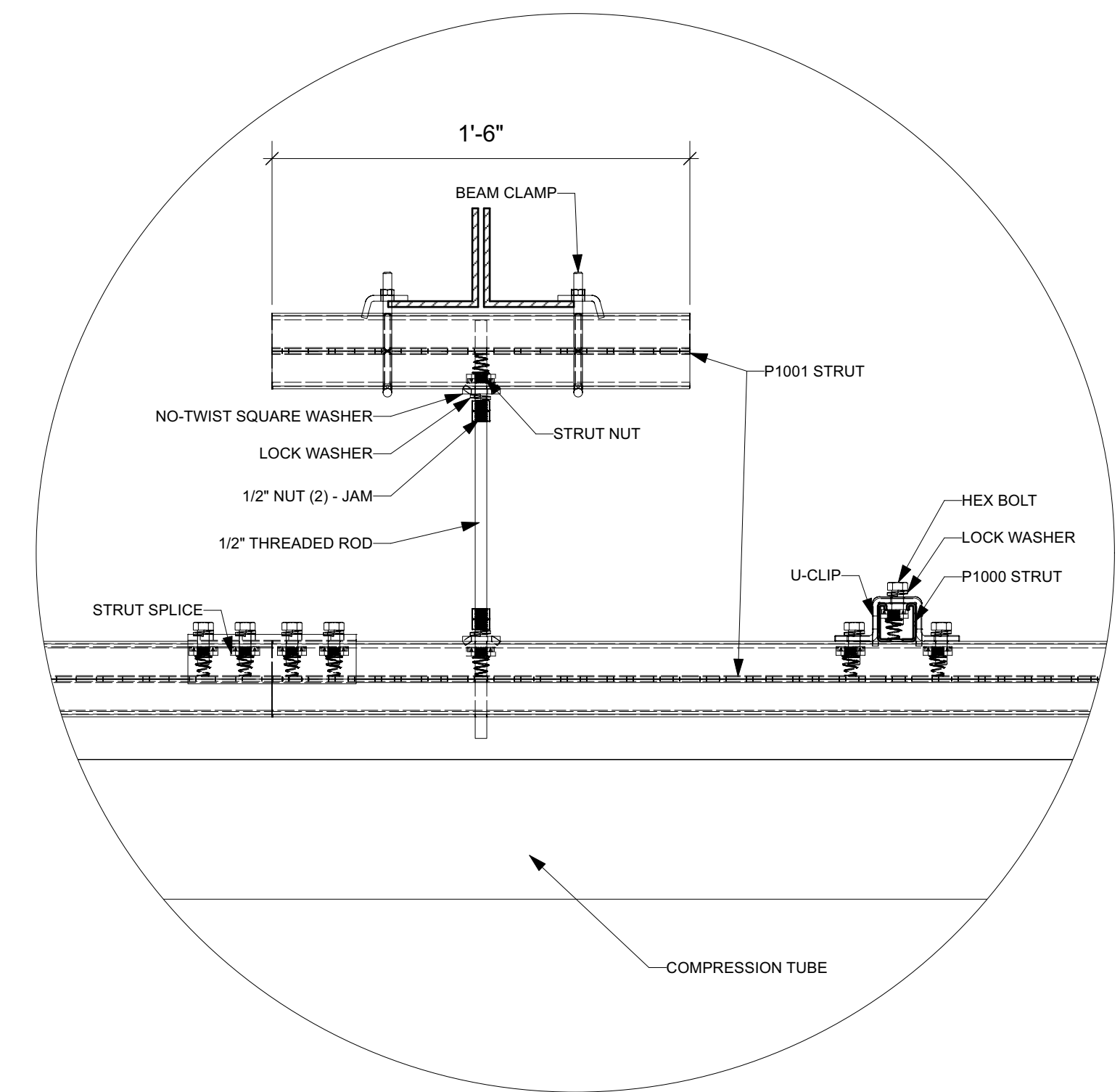
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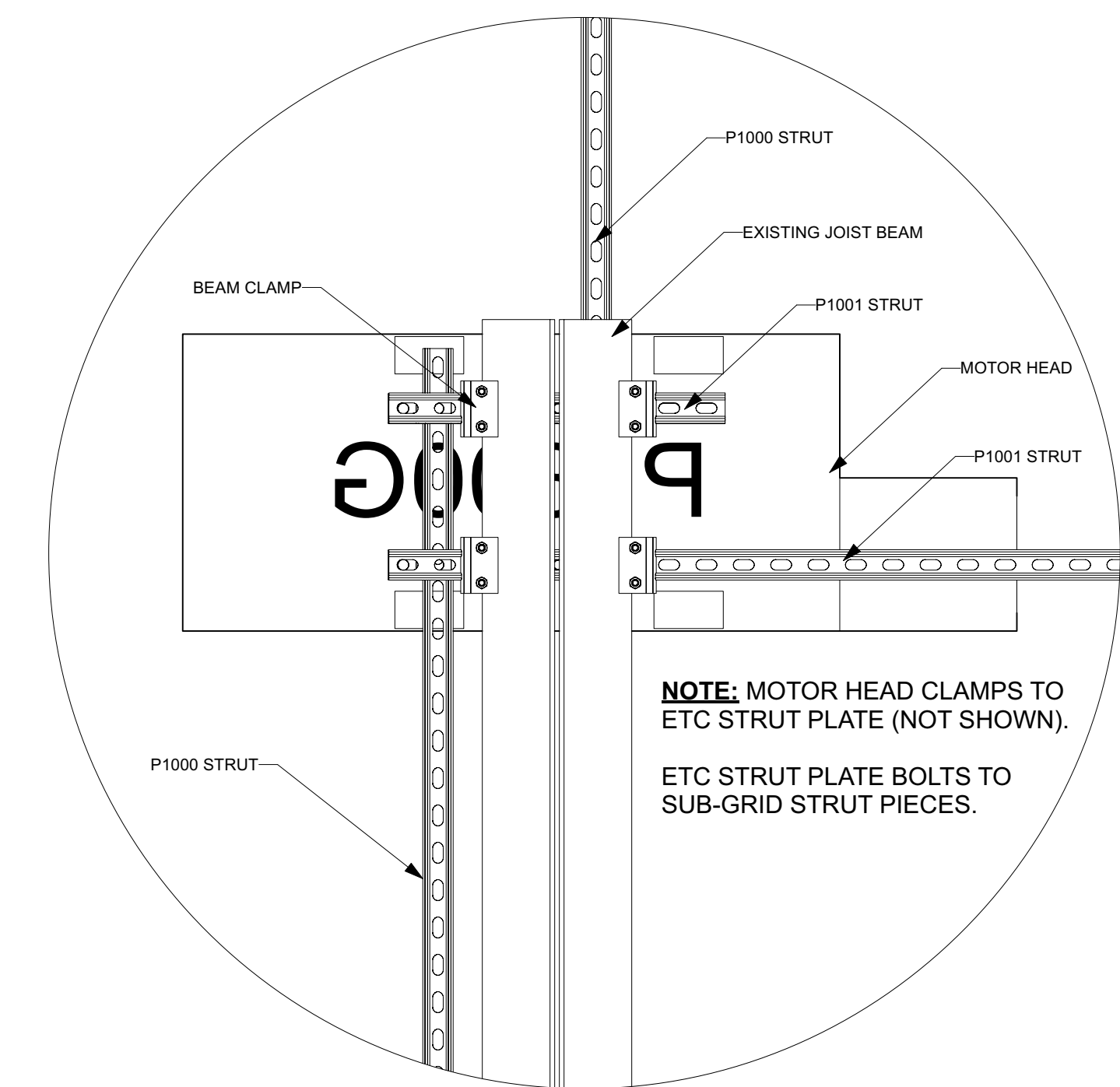
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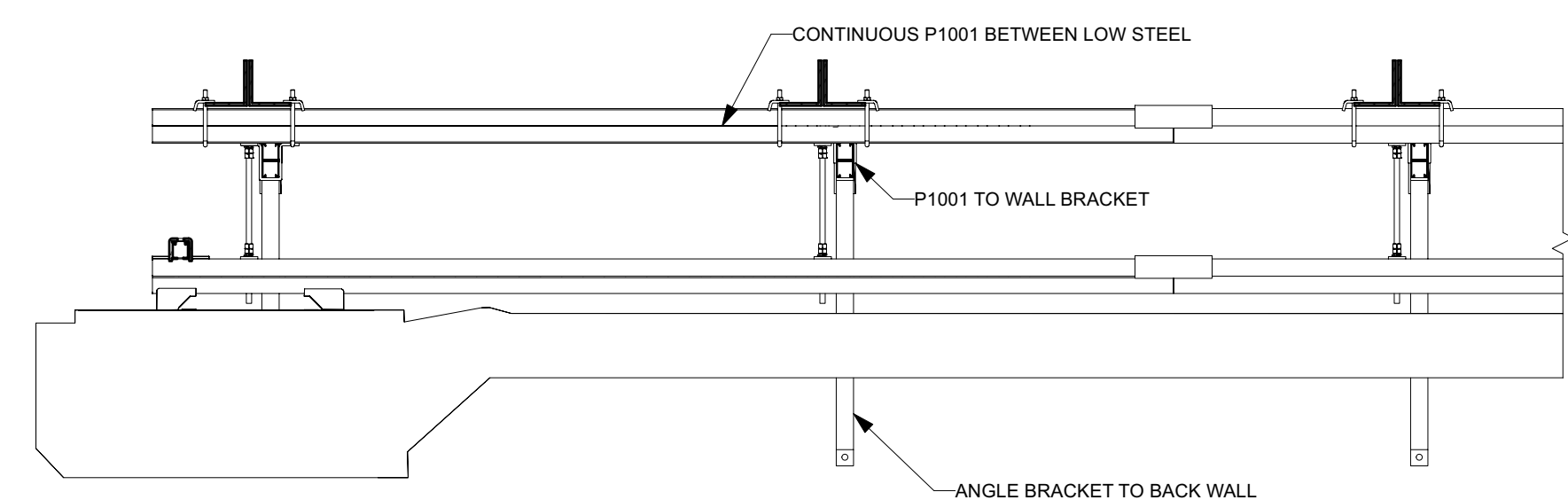
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Scale: 3/8" = 1'-0"



2 HANGING AND LATERAL DETAIL
Scale: 2" = 1'-0"



4 MOTOR PLAN DETAIL
Scale: 1 1/2" = 1'-0"



6 SCENIC 3 DETAIL
Scale: 3/4" = 1'-0"

CLIENT CONTACT

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mlee@upperdarbysd.org

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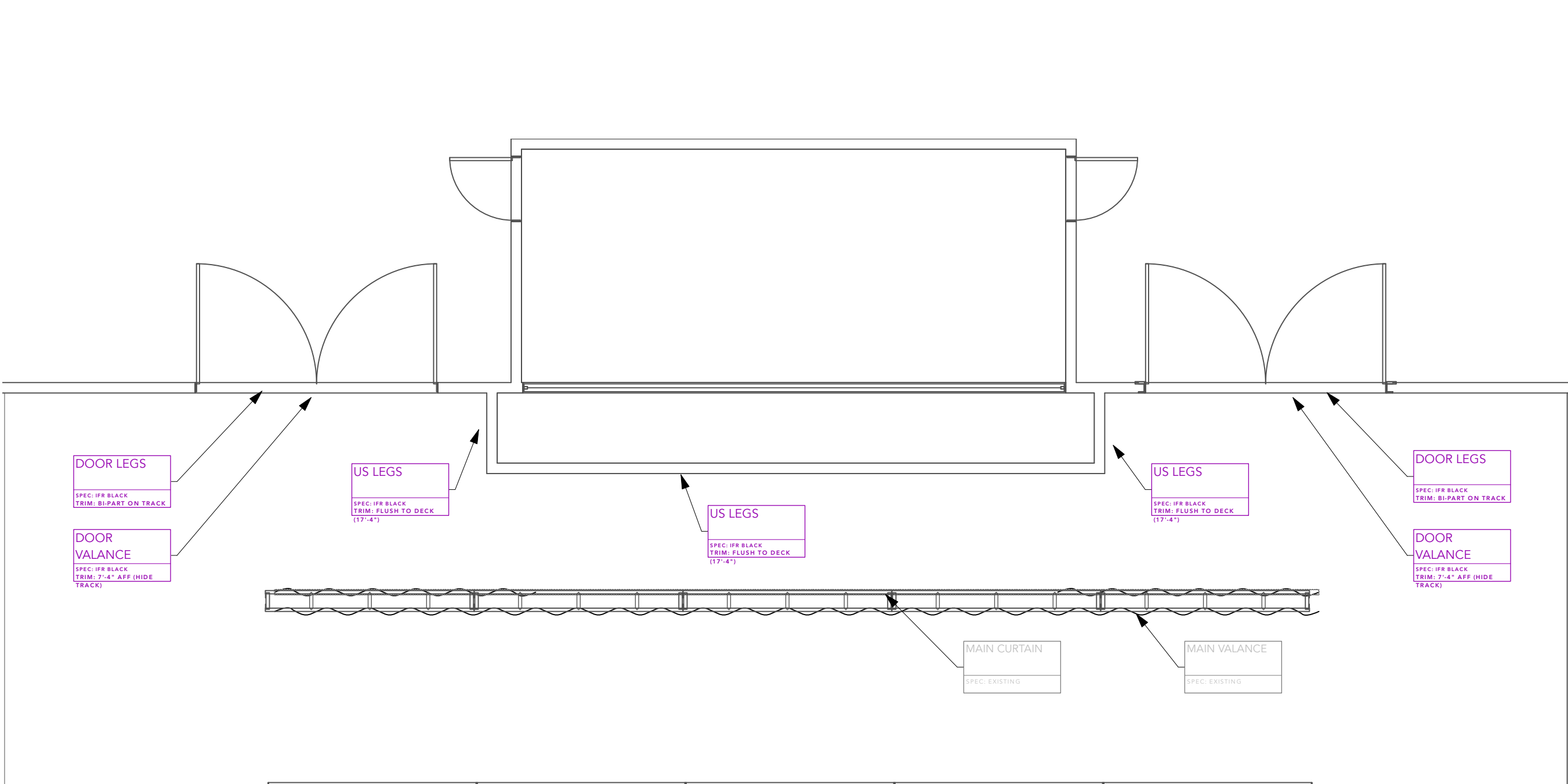
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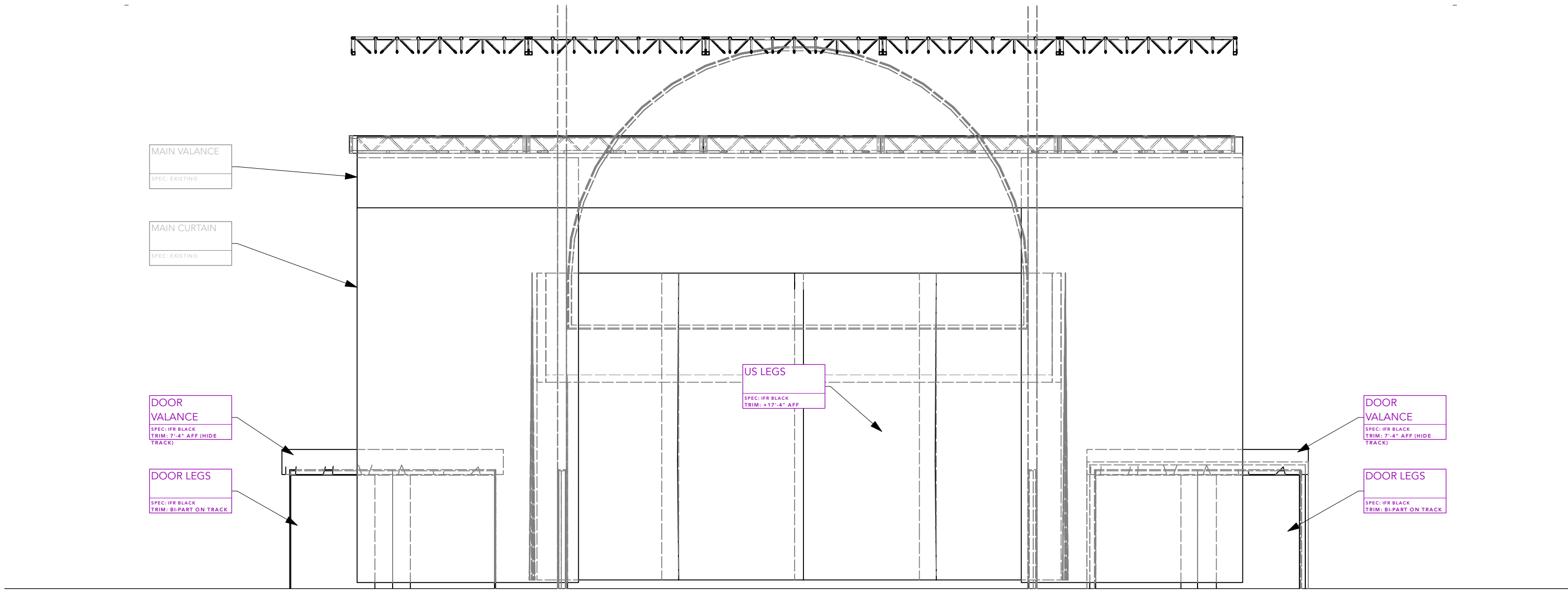
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RIGGING PLAN

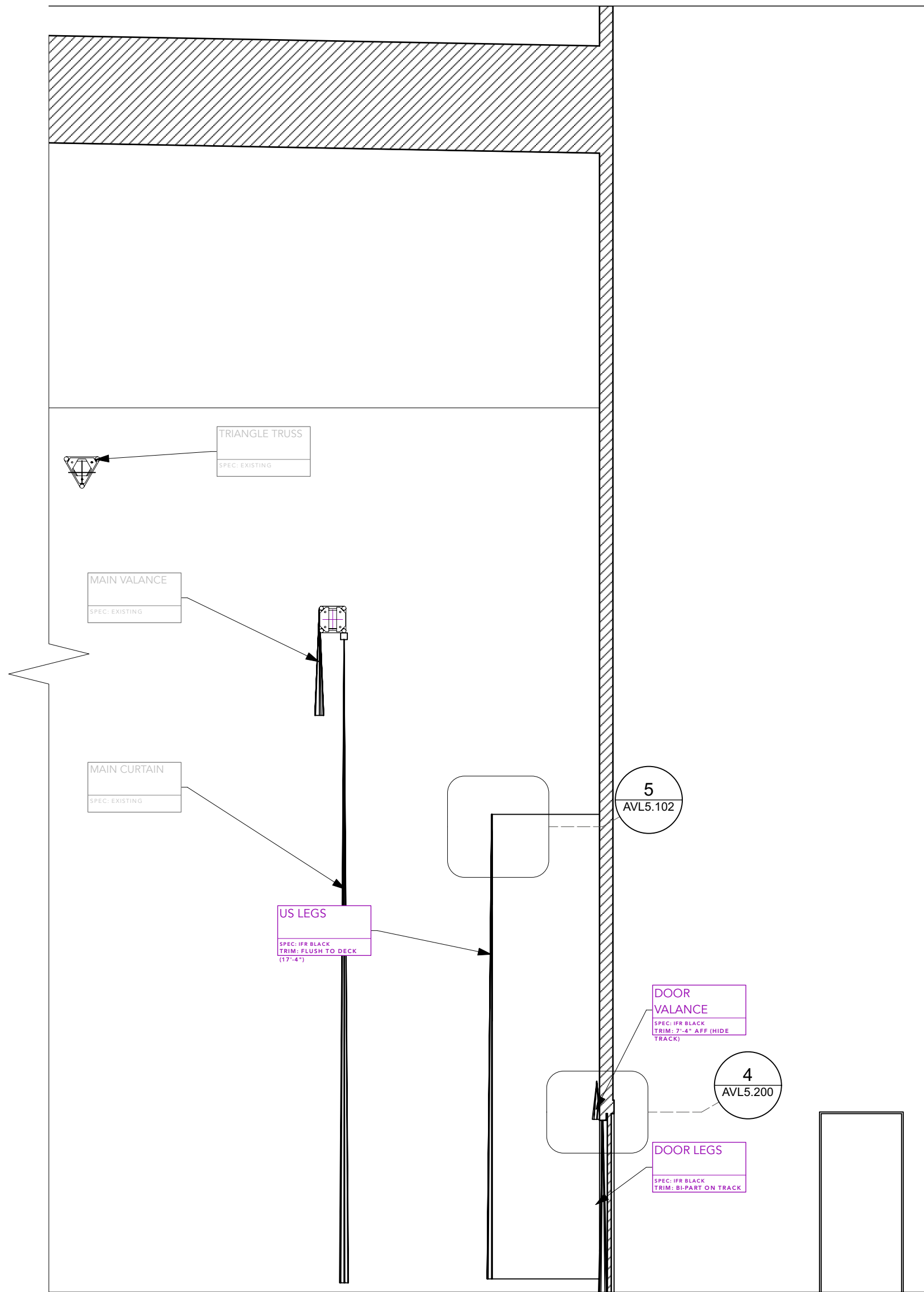
AVL5.110



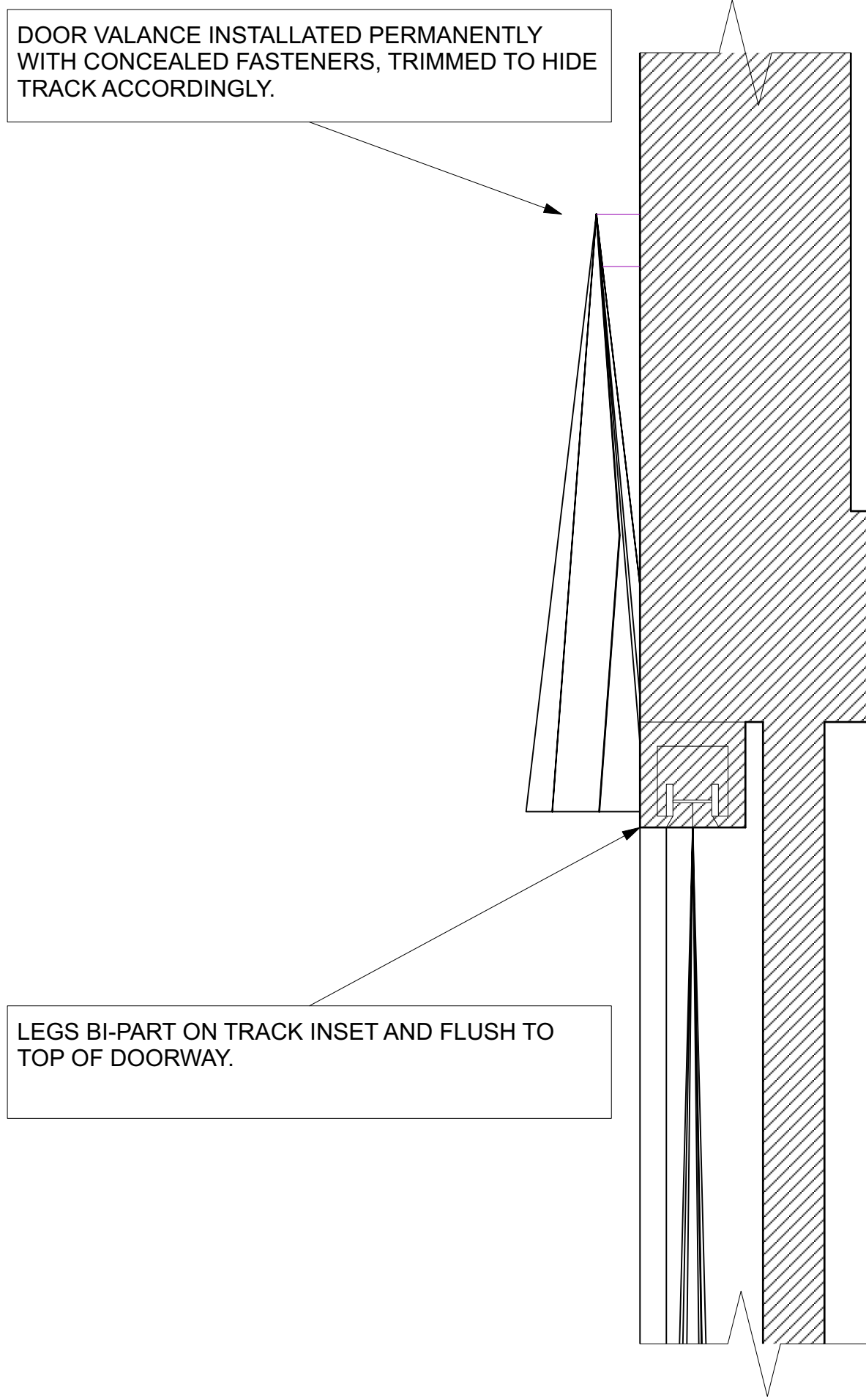
1 **SOFT GOODS PLAN**
Scale: 3/16" = 1'-0"



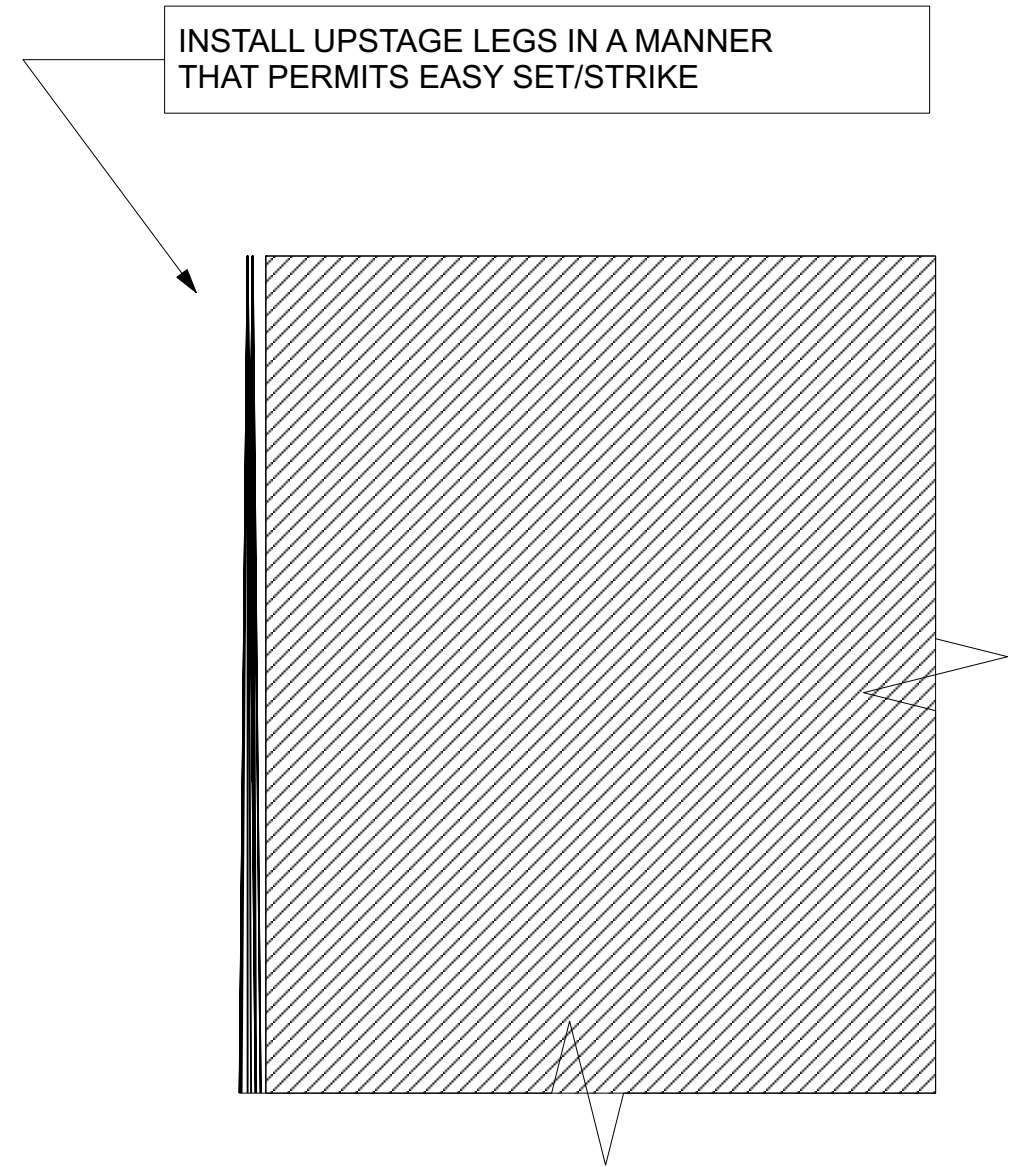
2 **SOFT GOODS - ELEVATION**
Scale: 3/16" = 1'-0"



3 **SOFT GOODS - SECTION**
Scale: 1/4" = 1'-0"



4 **DOORWAY - DETAIL**
Scale: 3" = 1'-0"



5 **BALCONY - DETAIL**
Scale: 3" = 1'-0"

REVISIONS			
NO.	Date	By	Note
A	3/20/23	KGD	GP, Section & RCP
B	4/19/23	KGD	SUB GRID
C	4/21/23	KGD	RISER, PANEL SCHED, GENERAL UPDATES
D	5/22/23	KGD	PANEL SCHEDULE UPDATE
E	6/16/23		LX PLOT
F	7/18/23	KGD	PROGRESS SET

PROJECT ID:	ii-1982
DATE:	4/6/23
SCALE:	3/16" = 1'-0" OR AS NOTED

SOFT GOODS PLAN

AVL5.200



ILLUMINATED
INTEGRATION

2900 Canby Street
Harrisburg, PA 17103

717-996-4596
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mlee@upperdarbysd.org

REVISIONS

NO.	Date	By	Note
A	3/20/23	KGD	GP, Section & RCP
B	4/19/23	KGD	SUB GRID
C	4/21/23	KGD	RISER, PANEL SCHED, GENERAL UPDATES
D	5/22/23	KGD	PANEL SCHEDULE UPDATE
E	6/16/23		LX PLOT
F	7/18/23	KGD	PROGRESS SET

PROJECT ID: ii-1982

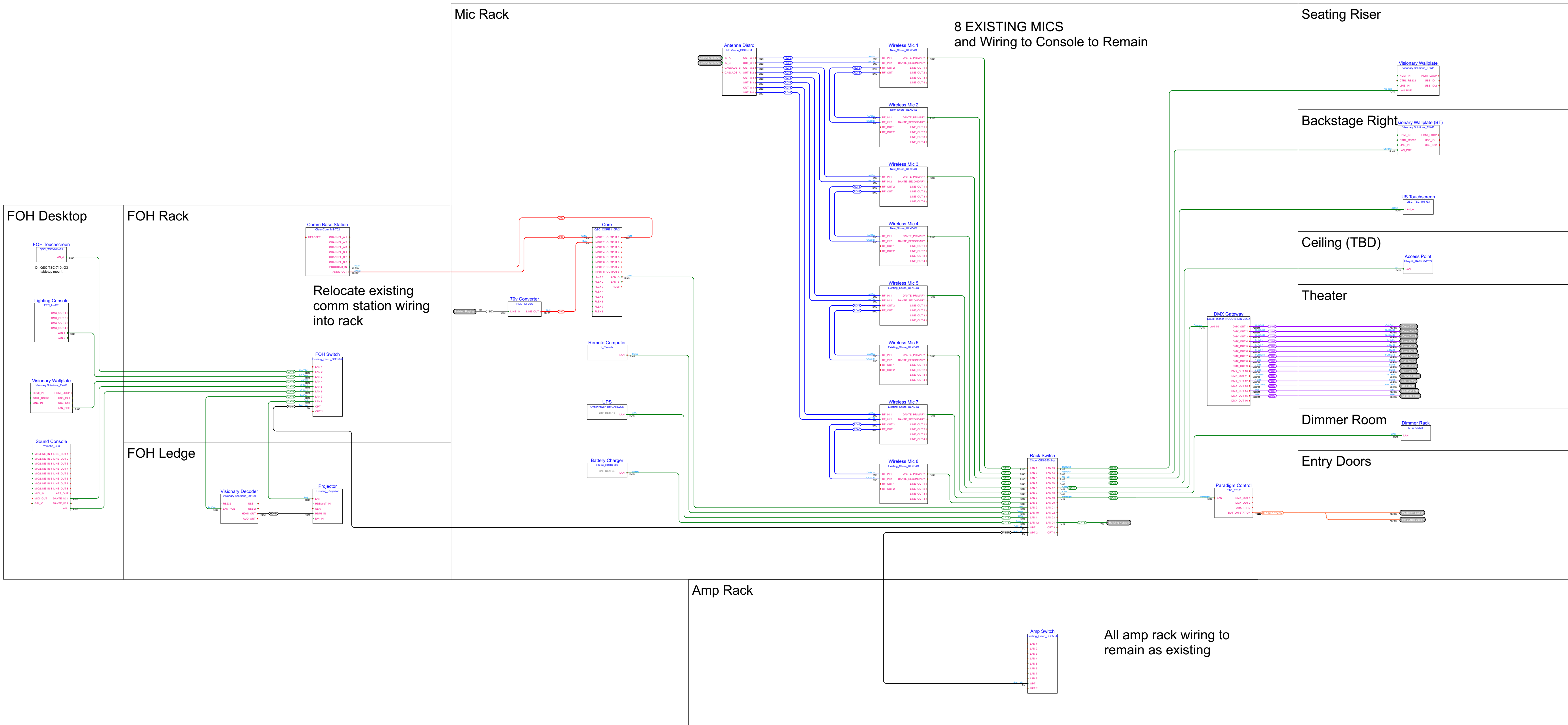
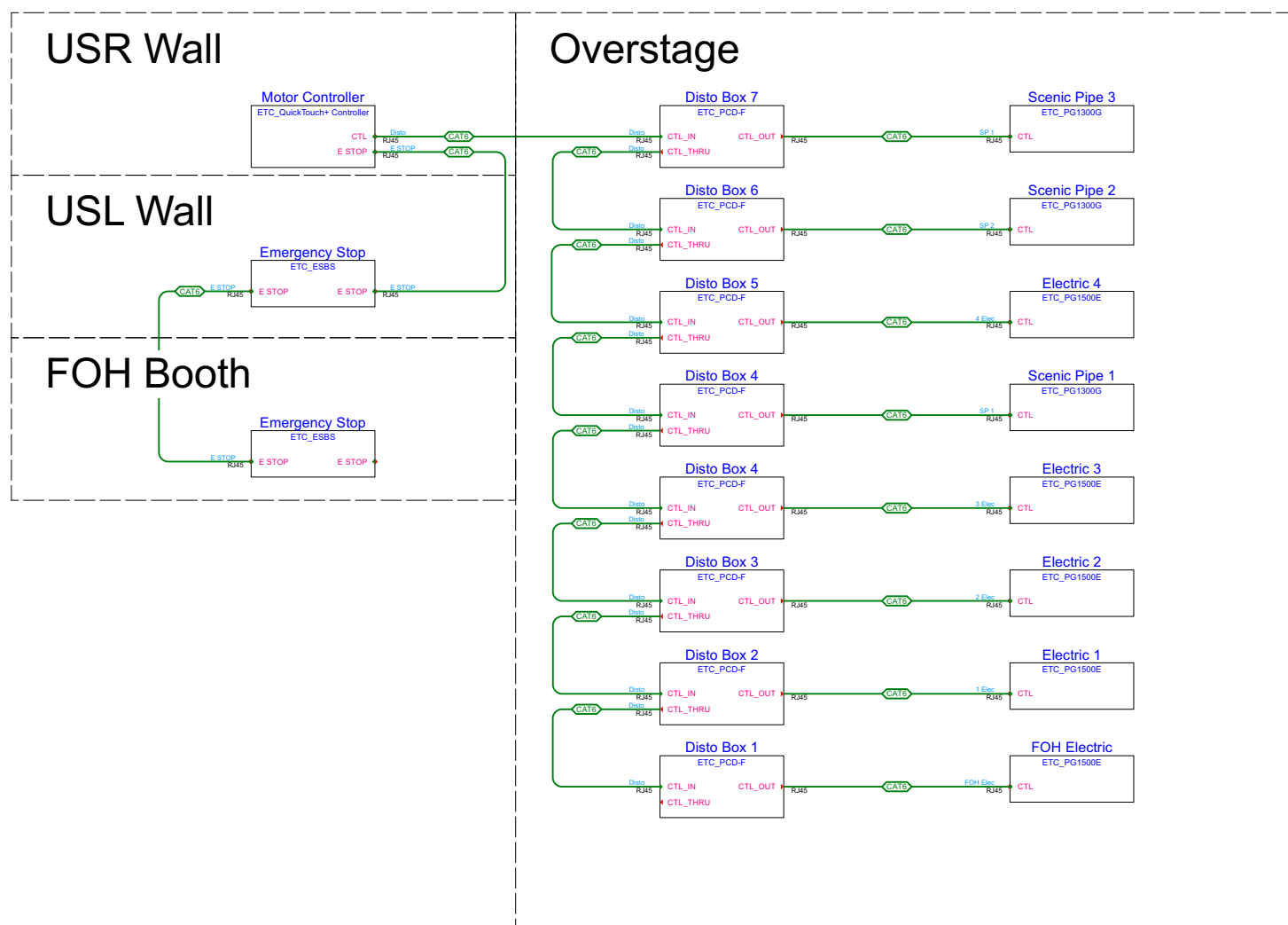
DATE: 4/6/23

SCALE: 3/16" = 1'-0" OR AS NOTED

AVL CONTROL RISER

AVL7.102

SHEET NO. 13 OF 29





Upper Darby School
District
601 N. Lansdowne Ave
Drexel Hill, PA 19026



ILLUMINATED
INTEGRATION

2900 Canby Street
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717-996-4596
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REVISIONS			
NO.	Date	By	Note
A	3/20/23	KGD	GP, Section & RCP
B	4/19/23	KGD	SUB GRID
C	4/21/23	KGD	RISER, PANEL SCHED, GENERAL UPDATES
D	5/22/23	KGD	PANEL SCHEDULE UPDATE
E	6/16/23		LX PLOT
F	7/18/23	KGD	PROGRESS SET

PROJECT ID: ii-1982

DATE: 4/6/23

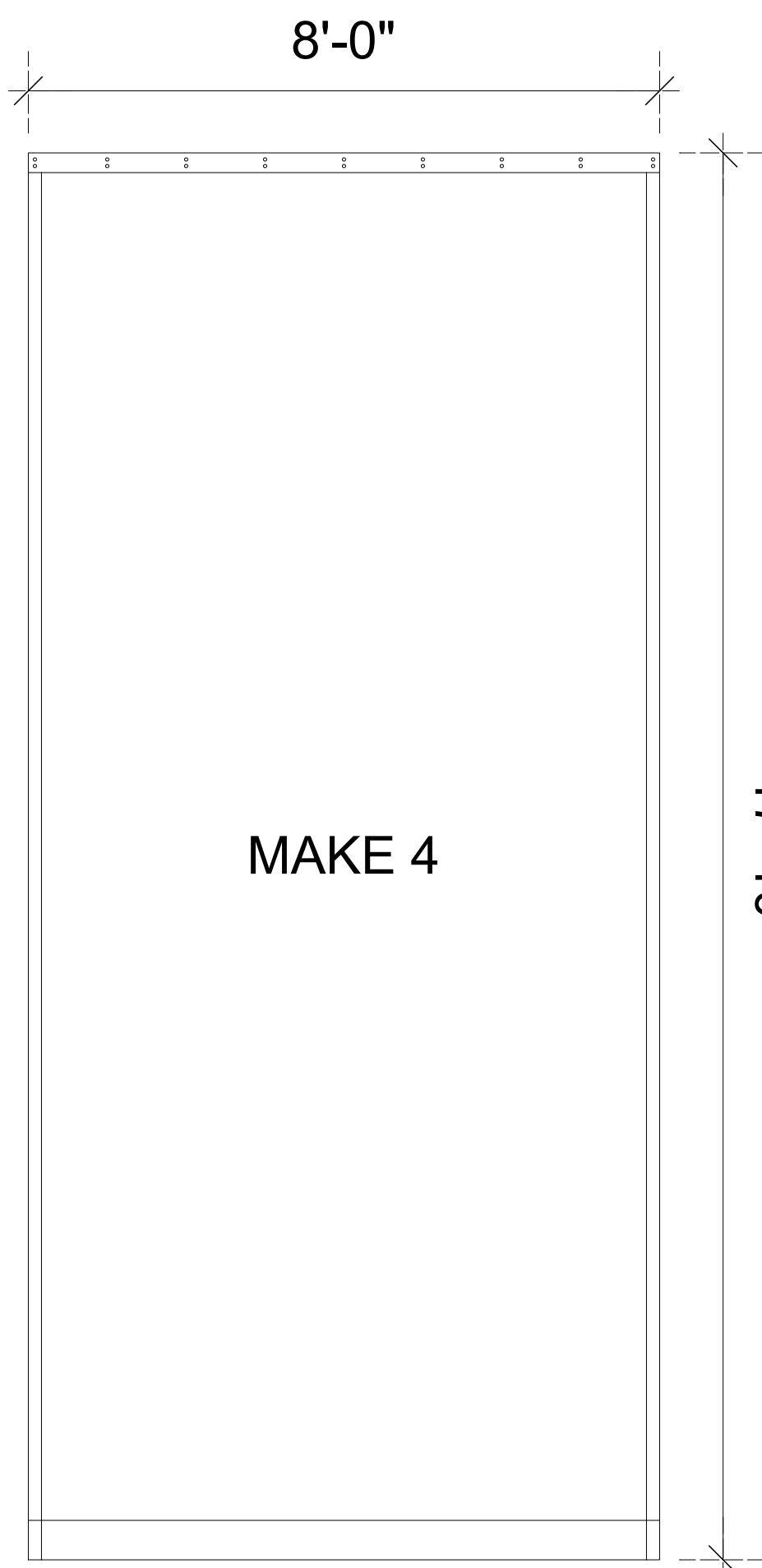
SCALE: 3/16" = 1'-0" OR AS NOTED

PANEL SCHEDULE

AVL7.103

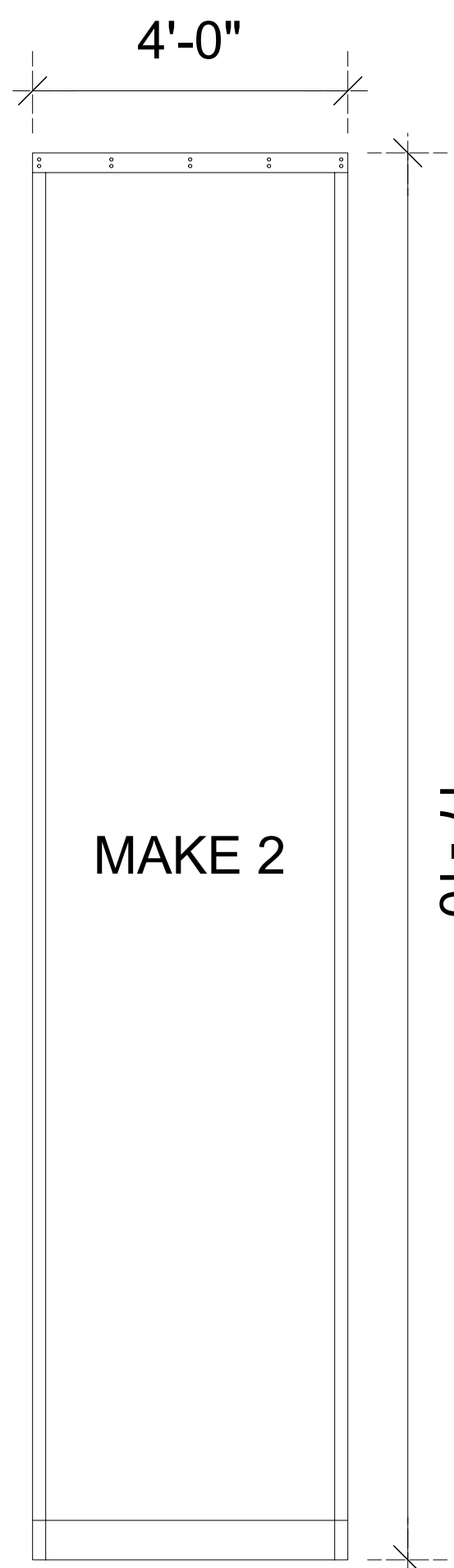
SENSOR SR3-48 3Ø PANEL: 1																			
JOB NUMBER:		NAME: UPPER DARBY HIGH SCHOOL										NOTE:							
UPPER SECTION										LOWER SECTION									
SLOT	CIRCUIT	MODULE TYPE	ADDRESS UNI	ADD	DESCRIPTION	EM	LOAD PHASING			SLOT	CIRCUIT	MODULE TYPE	ADDRESS UNI	ADD	DESCRIPTION	EM	LOAD PHASING		
							A	B	C								A	B	C
1	1		R20	101	1	CAT-INNER-CENTER				49	51	R20	101	51	LADDER-HOUSE RIGHT				
2	2			101	2	CAT-INNER-CENTER				50	52		101	52	LADDER-HOUSE RIGHT				
3	7	D20		101	7	CAT-INNER-CENTER				51	57		101	57					
4	8			101	8	CAT-INNER-CENTER				52	58	AFM	101	58					
5	13	D20		101	13	CAT-INNER-CENTER				53	63	D20	101	63	CAT-OUTER-HOUSE LEFT				
6	14			101	14	CAT-INNER-CENTER				54	64		101	64	CAT-OUTER-HOUSE LEFT				
7	19		R20	101	19	CAT-INNER-CENTER				55	69		101	69	LADDER-HOUSE LEFT				
8	20			101	20	CAT-INNER-CENTER				56	70	D20	101	70	LADDER-HOUSE LEFT				
9	25			101	25	FOH-ELECTRIC				57	75		101	75					
10	26	D20		101	26	FOH-ELECTRIC				58	76	D20	101	76	TRIANGLE TRUSS				
11	31			101	31	1ST ELECTRIC				59	81		101	81	TRIANGLE TRUSS				
12	32	AFM		101	32	1ST ELECTRIC				60	82	D20	101	82	4TH ELECTRIC				
13	37			101	37	2ND ELECTRIC				61	87		101	87	4TH ELECTRIC				
14	38	D20		101	38	2ND ELECTRIC				62	88	D20	101	88	BOX TRUSS				
15	43			101	43	3RD ELECTRIC				63	93		101	93	CAT-OUTER-CENTER-HOUSE RIGHT HALF				
16	44	D20		101	44	3RD ELECTRIC				64	94	R20	101	94	CAT-OUTER-CENTER-HOUSE RIGHT HALF				
17	49			101	49	CAT-OUTER-HOUSE RIGHT				65	5		101	5	CAT-INNER-CENTER				
18	50	D20		101	50	LADDER-HOUSE RIGHT				66	6	D20	101	6	CAT-INNER-CENTER				
19	55		AFM	101	55					67	11		101	11	CAT-INNER-CENTER				
20	56			101	56					68	12	D20	101	12	CAT-INNER-CENTER				
21	61		R20	101	61	CAT-OUTER-HOUSE LEFT				69	17		101	17	CAT-INNER-CENTER				
22	62			101	62	CAT-OUTER-HOUSE LEFT				70	18		101	18	CAT-INNER-CENTER				
23	67		R20	101	67	LADDER-HOUSE LEFT				71	23	D20	101	23	FOH-ELECTRIC				
24	68			101	68	LADDER-HOUSE LEFT				72	24		101	24	FOH-ELECTRIC				
25	73			101	73	CAT-OUTER-CENTER-HOUSE LEFT HALF				73	29	D20	101	29	1ST ELECTRIC				
26	74		D20	101	74	CAT-OUTER-CENTER-HOUSE LEFT HALF				74	30		101	30	1ST ELECTRIC				
27	79		D20	101	79	TRIANGLE TRUSS				75	35	D20	101	35	2ND ELECTRIC				
28	80			101	80	TRIANGLE TRUSS				76	36		101	36	2ND ELECTRIC				
29	85	D20		101	85	4TH ELECTRIC				77	41	D20	101	41	3RD ELECTRIC				
30	86			101	86	4TH ELECTRIC				78	42		101	42	3RD ELECTRIC				
31	91	D20		101	91	BOX TRUSS				79	47		101	47	CAT-OUTER-HOUSE RIGHT				
32	92			101	92	CAT-OUTER-CENTER-HOUSE RIGHT HALF				80	48	R20	101	48	CAT-OUTER-HOUSE RIGHT				
33	3	D20		101	3	CAT-INNER-CENTER				81	53		101	53	LADDER-HOUSE RIGHT				
34	4			101	4	CAT-INNER-CENTER				82	54	D20	101	54					
35	9			101	9	CAT-INNER-CENTER				83	59		101	59					
36	10	D20		101	10	CAT-INNER-CENTER				84	60	AFM	101	60					
37	15			101	15	CAT-INNER-CENTER				85	65		101	65					
38	16	D20		101	16	CAT-INNER-CENTER				86	66	AFM	101	66					
39	21		R20	101	21	FOH-ELECTRIC				87	71		101	71	CAT-OUTER-CENTER-HOUSE LEFT HALF				
40	22			101	22	FOH-ELECTRIC				88	72	R20	101	72	CAT-OUTER-CENTER-HOUSE LEFT HALF				
41	27		R20	101	27	1ST ELECTRIC				89	77		101	77	TRIANGLE TRUSS				
42	28			101	28	1ST ELECTRIC				90	78	R20	101	78	TRIANGLE TRUSS				
43	33		R20	101	33	2ND ELECTRIC				91	83		101	83	4TH ELECTRIC				
44	34			101	34	2ND ELECTRIC				92	84	R20	101	84	4TH ELECTRIC				
45	39		R20	101	39	3RD ELECTRIC				93	89		101	89	BOX TRUSS				
46	40			101	40	3RD ELECTRIC				94	90	R20	101	90	BOX TRUSS				
47	45		D20	101	45					95	95		101	95	CAT-OUTER-CENTER-HOUSE RIGHT HALF				
48	46			101	46	CAT-OUTER-HOUSE RIGHT				96	96	D20	101	96	CAT-INNER-HOUSE RIGHT				

SENSOR SR3-48 3Ø PANEL: 2																			
JOB NUMBER:		1 NAME: UPPER DARBY HIGH SCHOOL										NOTE:							
UPPER SECTION										LOWER SECTION									
SLOT	CIRCUIT	MODULE TYPE	ADDRESS UNI	ADD	DESCRIPTION	EM	LOAD PHASING			SLOT	CIRCUIT	MODULE TYPE	ADDRESS UNI	ADD	DESCRIPTION	EM	LOAD PHASING		
							A	B	C								A	B	C
1	1	R20	101	1	CAT-INNER-HOUSE RIGHT					49	51	D20	101	51	HOUSE LIGHTS				
2	2		101	2	CAT-INNER-HOUSE RIGHT					50	52		101	52	HOUSE LIGHTS				
3	7	D20	101	7	CAT-INNER-HOUSE RIGHT					51	57	D20	101	57	HOUSE LIGHTS				
4	8		101	8	CAT-INNER-HOUSE RIGHT					52	58		101	58	HOUSE LIGHTS				
5	13	R20	101	13	CAT-INNER-HOUSE LEFT					53	63	D20	101	63	HOUSE LIGHTS				
6	14		101	14	CAT-INNER-HOUSE LEFT					54	64		101	64	HOUSE LIGHTS				
7	19	D20	101	19	CAT-INNER-HOUSE LEFT					55	69	D20	101	69	HOUSE LIGHTS				
8	20		101	20	CAT-INNER-HOUSE LEFT					56	70		101	70	HOUSE LIGHTS				
9	25	R20	101	25	BAND SHELL					57	75	D20	101	75	aisle LIGHTS				
10	26		101	26	BAND SHELL					58	76		101	76	aisle LIGHTS				
11	31	R20	101	31	USR-PIGTAIL BOX					59	81	D20	101	81	WORK LIGHTS				
12	32		101	32	USR-PIGTAIL BOX					60	82		101	82	WORK LIGHTS				
13	37	R20	101	37	USL-PIGTAIL BOX					61	87	AFM	101	87					
14	38		101	38	USL-PIGTAIL BOX					62	88		101	88					
15	43		101	43						63	93		101	93					
16	44	AFM	101	44						64	94	AFM	101	94					
17	49	D20	101	49	HOUSE LIGHTS					65	5	D20	101	5	CAT-INNER-HOUSE RIGHT				
18	50		101	50	HOUSE LIGHTS					66	6		101	6	CAT-INNER-HOUSE RIGHT				
19	55	D20	101	55	HOUSE LIGHTS					67	11	D20	101	11	CAT-INNER-HOUSE RIGHT				
20	56		101	56	HOUSE LIGHTS					68	12		101	12	CAT-INNER-HOUSE LEFT				
21	61	D20	101	61	HOUSE LIGHTS					69	17	D20	101	17	CAT-INNER-HOUSE LEFT				
22	62		101	62	HOUSE LIGHTS					70	18		101	18	CAT-INNER-HOUSE LEFT				
23	67	D20	101	67	HOUSE LIGHTS					71	23	D20	101	23	CAT-INNER-HOUSE LEFT				
24	68		101	68	HOUSE LIGHTS					72	24	D20	101	24					
25	73	D20	101	73	aisle LIGHTS					73	29	D20	101	29	BAND SHELL				
26	74		101	74	aisle LIGHTS					74	30		101	30	BAND SHELL				
27	79	D20	101	79	LOBBY LIGHTS					75	35	D20	101	35	USR-PIGTAIL BOX				
28	80		101	80	LOBBY LIGHTS					76	36		101	36	USR-PIGTAIL BOX				
29	85	CC20	101	85						77	41	D20	101	41	USL-PIGTAIL BOX				
30	86		101	86						78	42		101	42	USL-PIGTAIL BOX				
31	91	CC20	101	91						79	47	AFM	101	47					
32	92		101	92						80	48		101	48					
33	3	R20	101	3	CAT-INNER-HOUSE RIGHT					81	53	D20	101	53	HOUSE LIGHTS				
34	4		101	4	CAT-INNER-HOUSE RIGHT					82	54		101	54	HOUSE LIGHTS				
35	9	D20	101	9	CAT-INNER-HOUSE RIGHT					83	59	D20	101	59	HOUSE LIGHTS				
36	10		101	10	CAT-INNER-HOUSE RIGHT					84	60		101	60	HOUSE LIGHTS				
37	15	R20	101	15	CAT-INNER-HOUSE LEFT					85	65	D20	101	65	HOUSE LIGHTS				
38	16		101	16	CAT-INNER-HOUSE LEFT					86	66		101	66	HOUSE LIGHTS				
39	21	D20	101	21	CAT-INNER-HOUSE LEFT					87	71	D20	101	71	HOUSE LIGHTS				
40	22		101	22	CAT-INNER-HOUSE LEFT					88	72		101	72	HOUSE LIGHTS				
41	27		101	27	BAND SHELL					89	77	D20	101	77	LOBBY LIGHTS				
42	28	D20	101	28	BAND SHELL					90	78		101	78	LOBBY LIGHTS				
43	33	D20	101	33	USR-PIGTAIL BOX					91	83	D20	101	83	WORK LIGHTS				
44	34		101	34	USR-PIGTAIL BOX					92	84		101	84	WORK LIGHTS				
45	39	D20	101	39	USL-PIGTAIL BOX					93	89	CC20	101	89					
46	40		101	40	USL-PIGTAIL BOX					94	90		101	90					
47	45	AFM	101	45						95	95	CC20	101	95					
48	46		101	46						96	96		101	96					



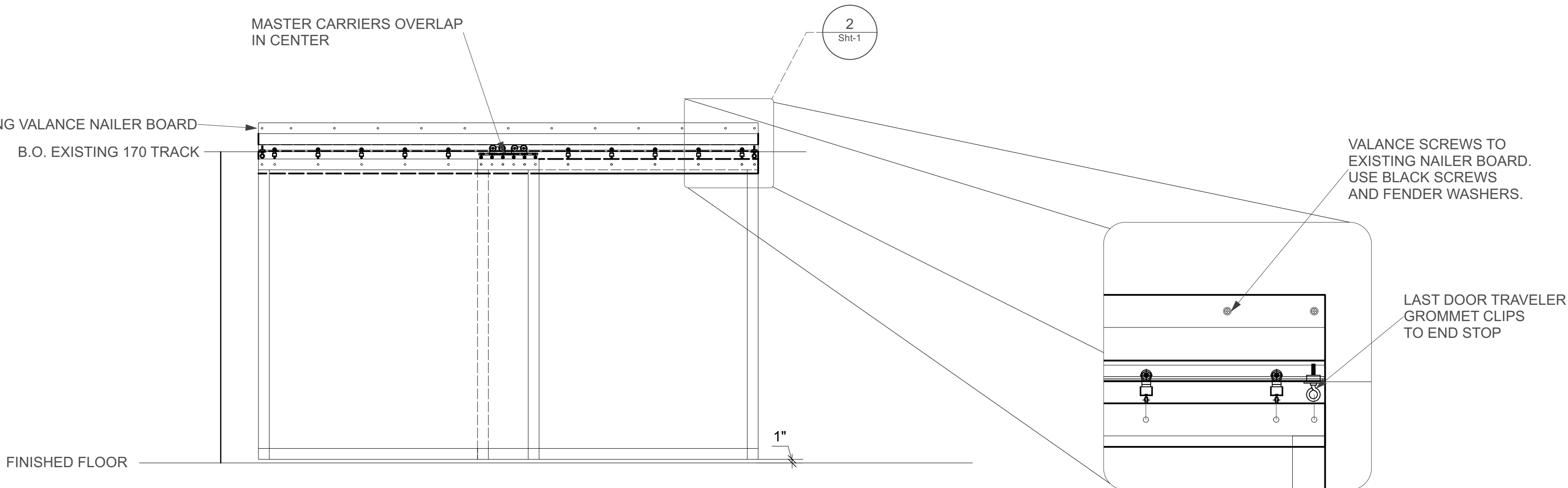
LEGS	
FABRIC	15 OZ ENCORE IFR - BLACK
FULLNESS	50% VIA BOX PLEAT
LINING	NONE
TOP	HIDDEN 3" WEBBING/GROMMETS/TIES 12" O.C. - ALL BLACK
BOTTOM	6" HEM + CHAIN
SIDES	2" HEM

TRACK ELEMENTS	NONE
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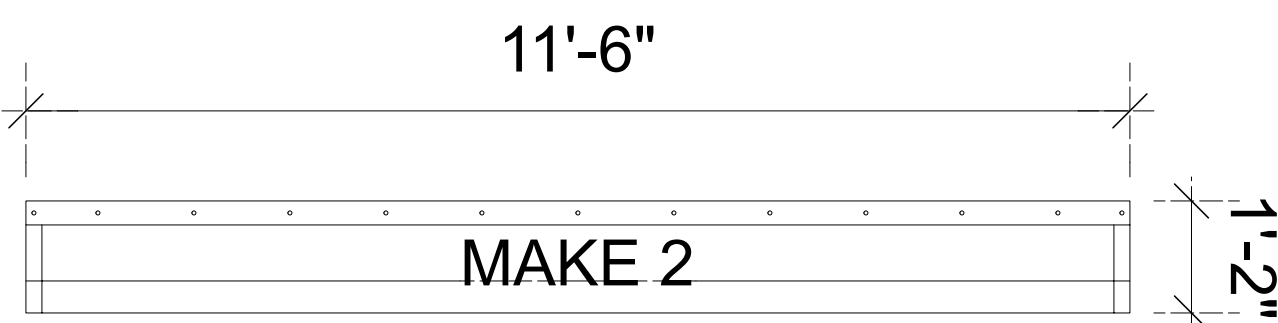


LEGS	
FABRIC	15 OZ ENCORE IFR - BLACK
FULLNESS	50% VIA BOX PLEAT
LINING	NONE
TOP	HIDDEN 3" WEBBING/GROMMETS/TIES 12" O.C. - ALL BLACK
BOTTOM	6" HEM + CHAIN
SIDES	2" HEM

TRACK ELEMENTS	NONE
-------------------	------

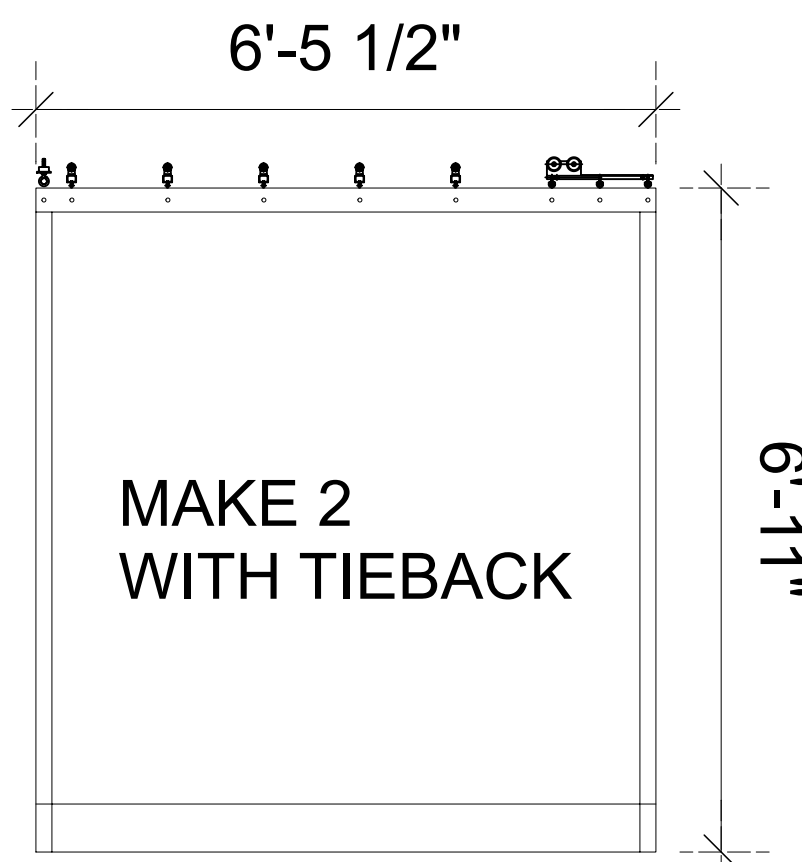


2 TRACK END DETAIL
Scale: 1 1/2" = 1'-0"



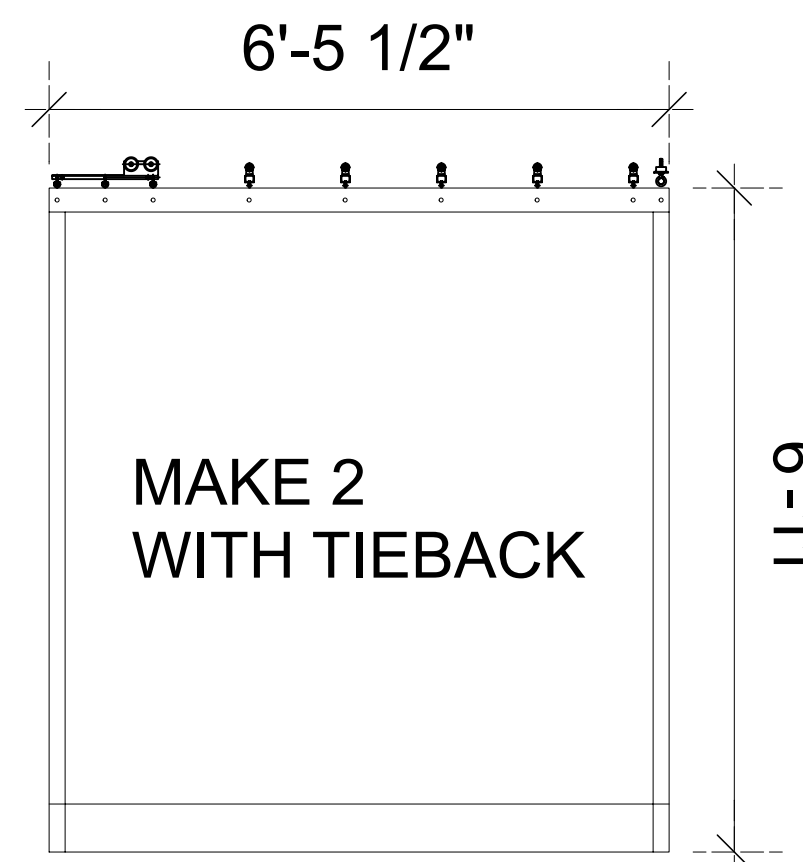
DOORWAY VALANCE	
FABRIC	15 OZ ENCORE IFR - BLACK
FULLNESS	50% VIA BOX PLEAT
LINING	NONE
TOP	3" WEBBING/GROMMETS 12" O.C. - ALL BLACK
BOTTOM	6" HEM + CHAIN
SIDES	2" HEM

TRACK ELEMENTS	NONE
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DOORWAY TRAVELER - SR PANEL	
FABRIC	15 OZ ENCORE IFR - BLACK
FULLNESS	50% VIA BOX PLEAT
LINING	NONE
TOP	HIDDEN 3" WEBBING/SNAP HOOKS (FLUSH) 12" O.C. - ALL BLACK
BOTTOM	6" HEM + CHAIN
SIDES	2" HEM

TRACK ELEMENTS	ADC-2602: 1 PCS PER PANEL ADC-1701: 5 PCS PER PANEL ADC-1709: 1 PCS PER PANEL
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DOORWAY TRAVELER - SL PANEL	
FABRIC	15 OZ ENCORE IFR - BLACK
FULLNESS	50% VIA BOX PLEAT
LINING	NONE
TOP	HIDDEN 3" WEBBING/SNAP HOOKS (FLUSH) 12" O.C. - ALL BLACK
BOTTOM	6" HEM + CHAIN
SIDES	2" HEM

TRACK ELEMENTS	ADC-2602: 1 PCS PER PANEL ADC-1701: 5 PCS PER PANEL ADC-1709: 1 PCS PER PANEL
-------------------	---

1 SOFT GOOD FABRICATION DETAILS
Scale: 1/2" = 1'-0"

CLIENT CONTACT

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mlee@upperdarbysd.org

REVISIONS

NO.	Date	By	Note

PROJECT ID: ii-1982

DATE: 5/22/23

SCALE: AS NOTED

SOFT GOODS
FABRICATION

Sht-1