PROJECT:

ECC Campus Improvement & Renovation

Hansen Hall Theater Modifications 1964 Prairie Dell Rd. Union, MO. 63084

OWNER:

Junior College District of East Central Missouri





319 N.4th Street
Suite 1000
St.Louis, MO.63102
p 314-231-5700
f 314-231-0816

CONTACTS

Structural Engineer

Owner: Junior College District of East Central Missouri

1964 Prairie Dell Rd. Union, MO 63084 Client Phone Client Fax

KPFF Consulting Engineers 1610 Des Peres Rd, Suite 100 St. Louis, MO 63131 314-835-0524 314-835-0749

MEPF Engineer

BRiC Partnership, LLC

100 East Washington Street, Ste 220

Belleville, IL 62220

Belleville, IL 62220 314-725-5889 618-277-5227

LIST OF DRAWINGS

Sheet Number Sheet Name

General
A000.2 Cover Sheet - Theater Modifications

Architectural
A101T Enlarged 1st Floor Plan @ Theater
A500T Theater Sections and Details

Theater
TR-1 Rigging Section
TR-2 Line Set Layout
TR-3 Curtain Layout
TR-4 Fire Vent Rigging
TR-5 Fire Vent ETL

CODE SUMMARY

Applicable Building Codes:

Construction Type:
Type IIB Unprotected
Unsprinklered

Occupancy:
Existing
Use Group B - Business
Use Group A1 - Assembly (Auditorium)

Project Area:

LOCATION PLAN

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The Lawrence Group Architects of St. Louis, Inc.:

Certificate of Authority Number 000514



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No.

Description

Date

oject Number:		

ject Number: 1434 ue Date: 25, 2016

1 Enlarged First Floor Plan @Theater

A101T 3/16" = 1'-0"

2 First Floor Key Plan
A101T 1/64" = 1'-0"

Office: 319 N.4th Street
Suite 1000
St.Louis, MO.63102
p 314-231-5700
f 314-231-0816

Austin Carolinas New York St. Louis

Project Team: Structural Engineer

KPFF Consulting Engineers 1610 Des Peres Rd, Suite 100 St. Louis, MO 63131 314-835-0524 314-835-0749

MEPF Engineer

BRiC Partnership, LLC
100 East Washington Street, Ste 220
Belleville, IL 62220
314-725-5889
618-277-5227

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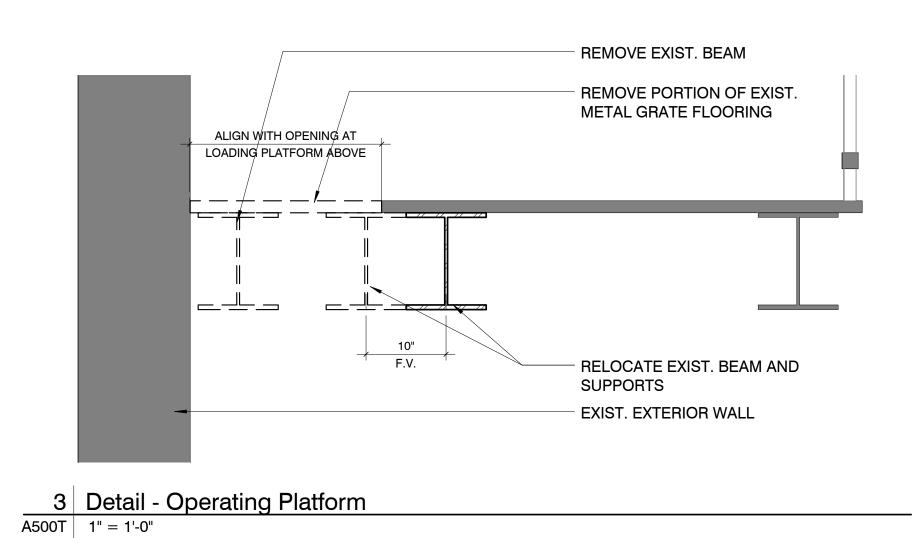
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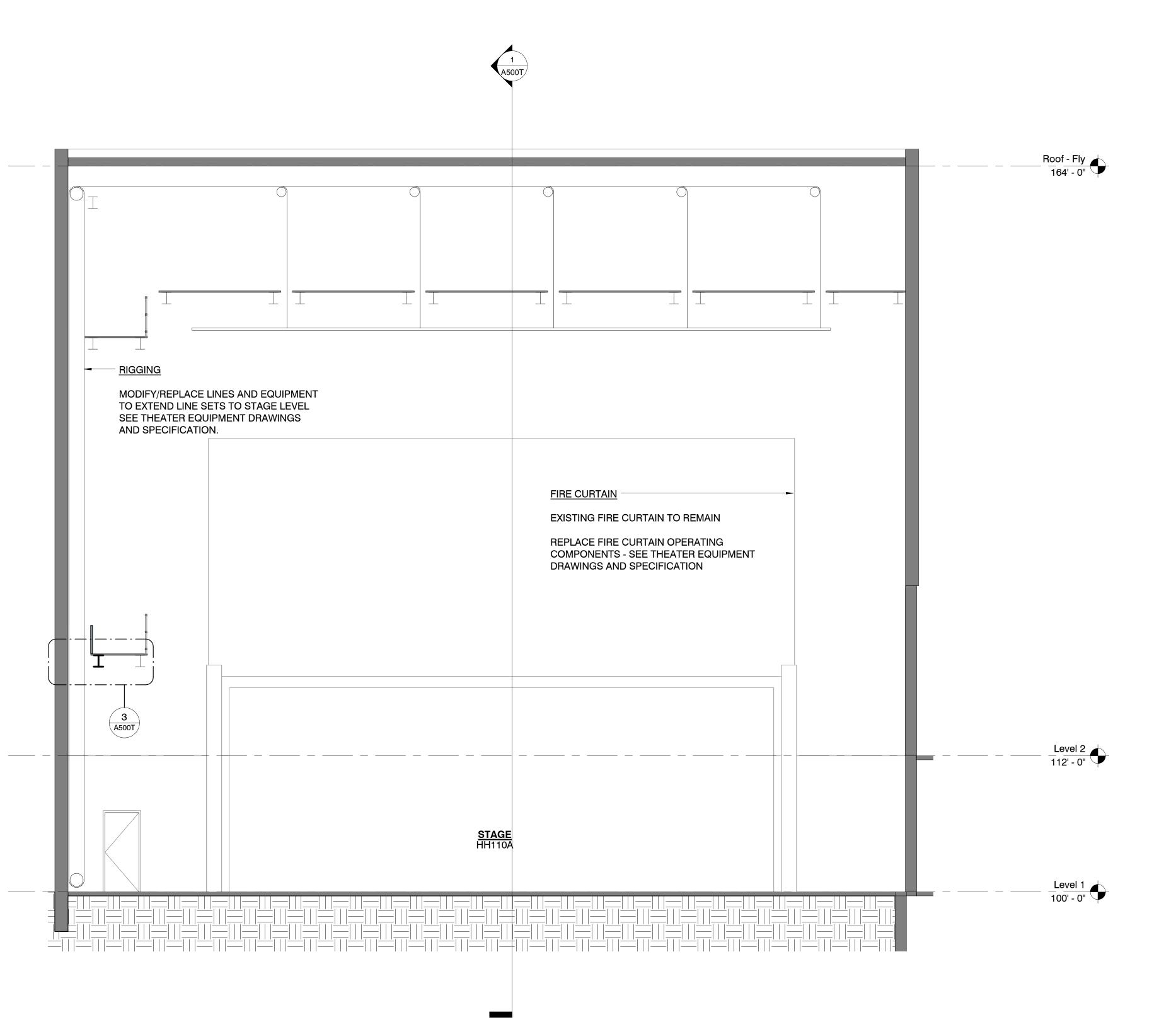
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Enlarged 1st Floor
Plan @ Theater
Project Number: Sheet Num

4.25.2016



Roof - Fly 164' - 0" MODIFY SMOKE VENT CLOSURE MECHANISM. SEE THEATER EQUIPMENT DRAWINGS AND **SPECIFICATIONS** Roof - Theater Workshop Works 124' - 9" REMOVE AND REPLACE EXISTING STAGE CURTAINS. SEE THEATER **EQUIPMENT DRAWINGS AND** SPECIFICATIONS -Level 2 112' - 0" JOHN EDSON ANGLIN
PERFORMING
ARTS
CENTER
HH110 STAGE HH110A WORKSHOP HH__ Level 1 100' - 0" ORCHESTRA
PIT
HH022



1 Section - Stage A500T 3/16" = 1'-0"

Office: 319 N.4th Street Suite 1000 St.Louis, MO.63102 p 314-231-5700 f 314-231-0816

Austin Carolinas New York St. Louis

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KPFF Consulting Engineers 1610 Des Peres Rd, Suite 100 Structural Engineer St. Louis, MO 63131 314-835-0524

314-835-0749 MEPF Engineer BRiC Partnership, LLC
100 East Washington Street, Ste 220 Belleville, IL 62220 314-725-5889 618-277-5227

Professional Seal:

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Theater Sections and Details
Project Number:

Sheet Number: **A500T** 4.25.2016

2 Elevation - Proscenium - Stage Side

A500T 3/16" = 1'-0"

- (A) 12" HEADBLOCK. 7 line typical. Additional lines for Electrics as required.
- (B) TOP STOP. 1-1/2" X 1-1/2" 10Ga angle iron with 2" X 2" hardwood & neoprene pad.
- FRONT LOADING ARBOR WITH INTEGRATED TRAP. 800lb cap./ Electrics 1500lb cap.
- Arrange top stop so bottom of arbor is at approximate bottom edge of loading bridge.Load all pipe weight in least accessible shelve and mark with yellow divider.
- WALL BATTEN & KNEE BRACE. Secure to wall channel every 5' o.c horizontally & vertically..
- T-BAR. 1-1/2" X 1-1/2". Aluminum with integral C-channel on back side.
- G ROPE LOCK. Adjust rope lock to hold exactly 50 lbs out of balance.
- Then retie so tension block is near top of travel. BOTTOM STOP. Same as Top Stop. Adjust for maximum travel, but so wire rope termination on batten side does not enter into

(f) 3/4" PURCHASE LINE. Allow arbor weight to hang on purchase line for not less than 24 hours to remove construction stretch.

- $\widehat{\mathsf{J}}$ 10" TENSION BLOCK.
- K LOCK RAIL. Apx. 30" high. Pre-Drill for Rope Locks on 8" centers to perfectly align with T-bar. Securely attach to operating rail for 2000lb upward or downward force concentrated within any 10' area.
- MULTILINE LOFT BLOCKS. All grooves must be load bearing. Pickup cables must drop in the center of each loft well.
- WIRE ROPE. 1/4" diameter 7 X19 galvanized aircraft cable. US origin or Korea origin with US test data only.
- N BATTEN. 1-1/2" ID sch 40 double 62' typical. Black textured powder coat and marked per specification.
- TURNBUCKLE. $\frac{3}{2}$ x 6" jaw-jaw type. Terminate wire rope so turnbuckle is in apx mid position. Secure per specification.
- (P) COMPRESSION FITTING. Crimp in accordance with specification. Thimble to be secure, but not bound by compressed sleeve. Secure end of wire rope with epoxy.
- BATTEN CLAMP. 680lb cap. batten clamp. Track pipe clamps not to be used for batten connection.
- BAT. Mount to head beam using pre-engineered (Unistrut) channel and fittings. Channel & fitting load capacity to match arbor.
- BAT RELEASE HANDLE. Mount to release cable at at convenient height.
- BAT RELEASE CABLE GUIDE. Mount spring tension guide adjacent to rope lock.
- All load bearing hardware to be from a US manufacturer, load rated and, used in a manor consistent with it's labeling & intended purpose, and must have an indelible manufacturer's mark.

Austin Carolinas New York St. Louis Office: 319 N.4th Street Suite 1000 St.Louis, MO.63102 p 314-231-5700 f 314-231-0816

KPFF Consulting Engineers 1610 Des Peres Rd, Suite 100 St. Louis, MO 63131 314-835-0524

314-835-0749 MEPF Engineer BRiC Partnership, LLC 100 East Washington Street, Ste 220 Belleville, IL 62220 314-725-5889

618-277-5227

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1 Rigging Section
TR-1 1/4" = 1'-0"

Austin Carolinas New York St. Louis

Suite 1000 St.Louis, MO.63102 p 314-231-5700 f 314-231-0816

Office: 319 N.4th Street

Project Team:

KPFF Consulting Engineers 1610 Des Peres Rd, Suite 100

St. Louis, MO 63131 314-835-0524 314-835-0749 MEPF Engineer

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Line Set Layout
Project Number: She

STORAGE HH104 FACULTY OFFICE HH106

1 Curtain Layout
TR-3 1/4" = 1'-0"

1	Description	L/S Cap	Drape Size W x H 54' 0" X 7' 0"	Fabric	Fullness	Side Hem	Track/Notes
	Valanċe	800 lb	54' 0" X 7' 0"	Opera	50%	3" / 3"	Color TBD
2	Screen (Dead Hung)	800 lb		-			D.H. from Loft Beams
3	Grand Drape	800 lb	(2) 28'0" X 21'0"	Opera	50%	26" / 12"	#416P w/ Rear Fold Guide
4	1st Electric	1500 lb		-			Add. Double Purchase Cable Pick Line
5	Future						
6	Utility Batten	800 lb		_			
7	Legs	800 lb	(2) 10' 0" X 18' 6"	Prospect	50%	3" / 3"	Black
8	Future						
9	Utility Batten	800 lb					
10	Future						
11	Future						
12	Future						
13	Future	000 lb	EQ! O!! V 7! O!!	Drooped	F00/	2" / 2"	Diode
14	Border Mid Store Traveler	800 lb	58' 0" X 7' 0"	Prospect	50%	3" / 3"	Black
15	Mid-Stage Traveler	800 lb	(2) 30' 0" X 18' 6"	Prospect	50%	12" / 12"	#416S Track / Black
16 17	Utility Batten	800 lb					Add Double Durchage Cable Diek Line
18	2nd Electric	1500 lb					Add. Double Purchase Cable Pick Line
19	Future	800 lb					
20	Utility Batten Future	000 ID					
21	Future						
22	Future						
23	Future						
24	Border	800 lb	58' 0" X 7' 0"	Prospect	50%	3" / 3"	Black
25	Legs	800 lb	(2) 10' 0" X 18' 6"	Prospect	50%	3" / 3"	Black
26	Seamless Scrim	800 lb	58' 0" X 18' 6"	Sharkstooth	0%	3" / 3"	Bottom Pipe / Black
27	3rd Electric	1500 lb	00 0 77 10 0		0 70	0 7 0	Add. Double Purchase Cable Pick Line
28	Future	1000 18					
29	Utility Batten	800 lb					
30	Future	00010					
31	Future						
32	Future						
33	Future						
34	Utility Batten	800 lb					
35	Legs	800 lb	(2) 10' 0" X 18' 6"	Prospect	50%	3" / 3"	Black
36	Future		,	•			
37	Future						
38	Future						
39	Utility Batten	800 lb					
40	Future			_			
41	Border	800 lb	58' 0" X 7' 0"	Prospect	50%	3" / 3"	Black
42	4th Electric	1500 lb					Add. Double Purchase Cable Pick Line
43	Future	000 !!	(0) 001 011 1/ 401 011		E0 0/	0" / 0"	"4400 T 1 / 5!
44	US Traveler	800 lb	(2) 30' 0" X 18' 6"	Prospect	50%	3" / 3"	#416S Track / Black
4 -	Utility Batten Seamless Cyc	800 lb	FOLO \/ 4010	1	00/	0" / 0"	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
45 46	>Damidee Live	800 lb	58' 0" X 18' 6"	Leno	0%	3" / 3"	White

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Project Team:

Structural Engineer

KPFF Consulting Engineers 1610 Des Peres Rd, Suite 100 St. Louis, MO 63131 314-835-0524 314-835-0749 MEPF Engineer

BRiC Partnership, LLC

100 East Washington Street, Ste 220

Belleville, IL 62220

314-725-5889

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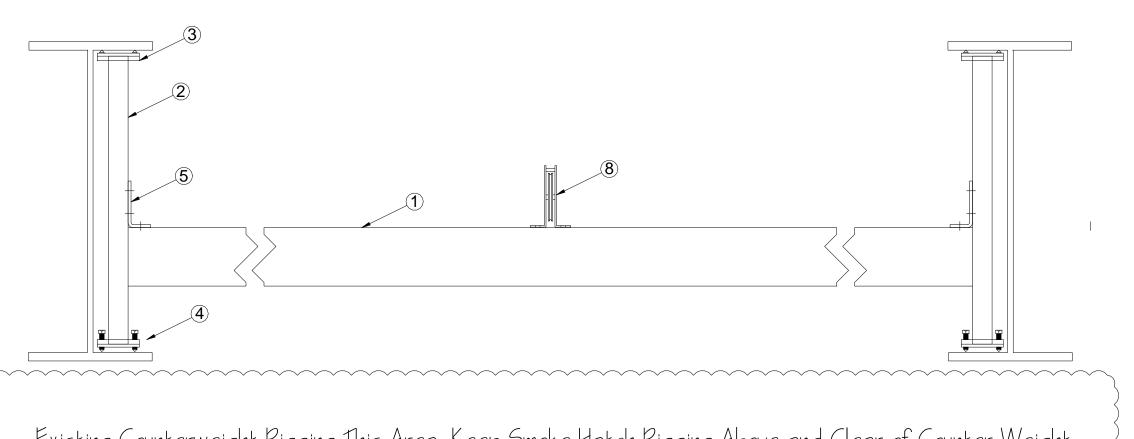
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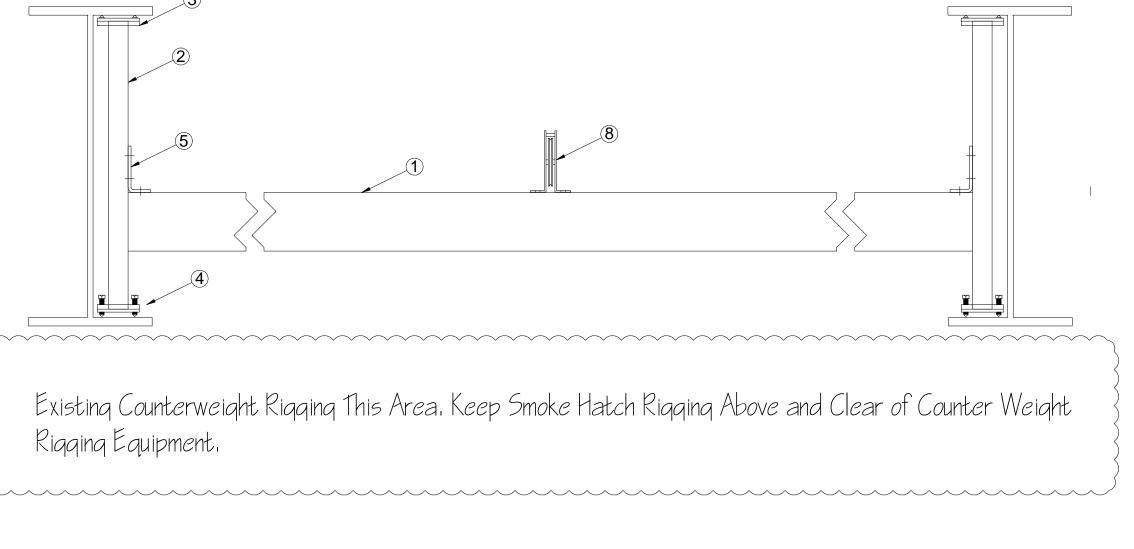
2 FVC Winch Pre-Engineered Blocking US/DS View

3	
2	
5	
4	

7	HHCS050150EG	8	HEX HEAD CAP SCREW, 1/2"

3 FVC Winch Pre-Engineered Blocking SL/SR View

1 MULE BLOCK, 4" d, 1/8" GROOVE, 400LB SWL



QTY DESCRIPTION 1 P5501 1 UNISTRUT CHANNEL, 12 2 UNISTRUT CHANNEL, 2' 3 P3087 (A) 2 COLUMN INSERT, DEAD END 4 P3087 (B) 2 COLUMN INSERT, LIVE END 5 P1346 2 ANGLE BRACKET 8 CHANNEL NUT, 1/2" -13 6 P3010 R HEX HEAD CAP SCREW, 1/2" -13 x 1 1/2"



Fire Vent Rigging
Project Number: Sheet N

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Austin Carolinas New York St. Louis

Suite 1000 St.Louis, MO.63102 p 314-231-5700 f 314-231-0816

KPFF Consulting Engineers 1610 Des Peres Rd, Suite 100

St. Louis, MO 63131

314-835-0749

MEPF Engineer

BRIC Partnership, LLC

100 East Washington Street, Ste 220

Belleville, IL 62220

314-725-5889

618-277-5227

Office: 319 N.4th Street

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Project Title:

0

Counterweight Rigging This Area.

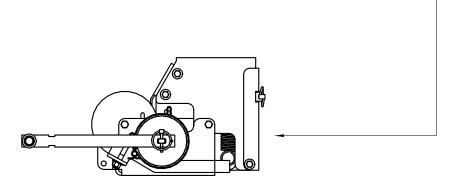
Fire Vent Closure Winch Rigging (Typical of 4)

Provide OEM or Custom Smoke Vent

Closure Mechanism for 2-Door

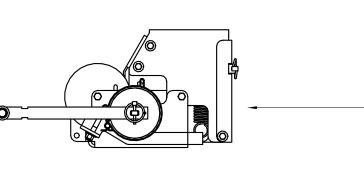
Smoke Vent with Fusiable Link

Release.



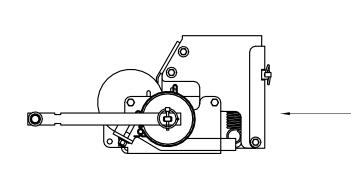
FVC Winch #1

ETL Activation Source, (not used) (3) #14 AWG, by Others



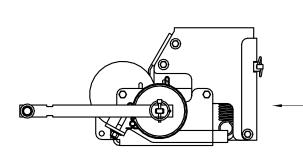
FVC Winch #3

ETL Activation Source, (not used) (3) #14 AWG, by Others



FVC Winch #2

ETL Activation Source, (not used) (3) #14 AWG, by Others



FVC Winch #4

- Provide ETL capable devices for future integration into fire alarm system. Install with ETL bypass spring.
- Cable tension to be released by Fusiable Link at smoke vent.

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Suite 1000 St.Louis, MO.63102 p 314-231-5700

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St. Louis, MO 63131 314-835-0524 314-835-0749 MEPF Engineer BRiC Partnership, LLC
100 East Washington Street, Ste 220 Belleville, IL 62220 314-725-5889 618-277-5227

f 314-231-0816

Office: 319 N.4th Street

Structural

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Fire Vent ETL
Project Number: