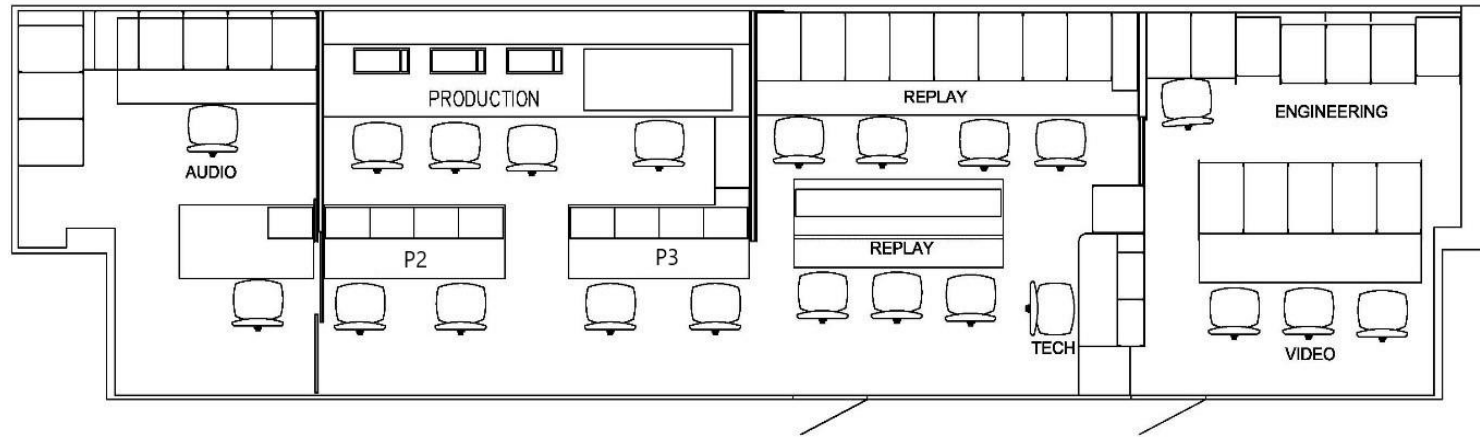# 38 FLEX & 38 VMU Equipment Specifications
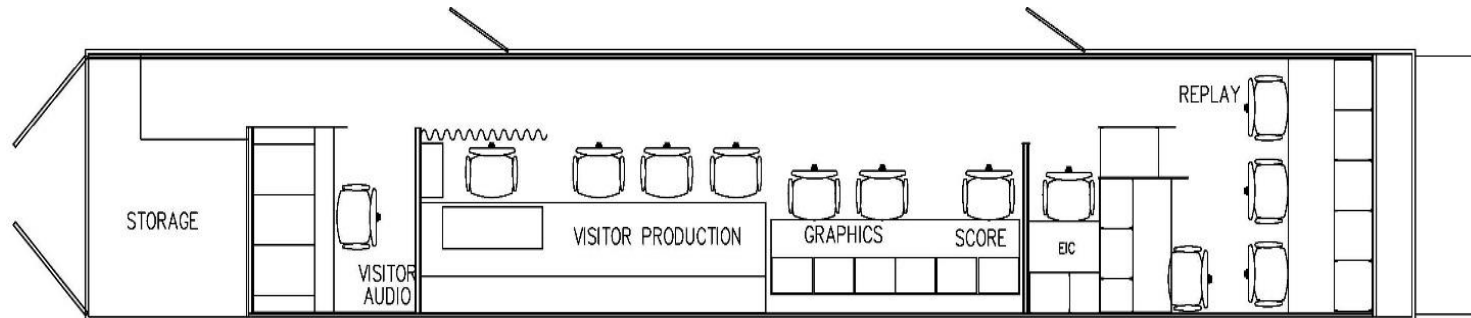
Unit A:

Length: 53' Height: 13'3" Width: 8'6" with ability to expand to: 14'

VMU-Unit B:

Length: 53' Height: 13'3" Width: 8'6"

38 FLEX Equipment Specifications

Production

- Grass Valley HD/UHD Kayenne K-Frame switcher
- 7 M/Es, 96 inputs/48 outputs HD, 40 inputs/12 outputs UHD
- Internal Image Store
- 12 iDPMs, 2D DPMs, FlexiKey, DoubleTake
- 32 Chroma Keyers
- 4 Stripe (M/E) control panel
- Up to 105 images in production wall

Cameras/ Lenses & Support

- 7 Grass Valley LDX80 Premier 720p/1080i triax cameras
- 4 Grass Valley LDX86 universe super slow mo HD/3G/UHD fiber cameras (Upon request. Can be used as regular live cameras)
- Grass Valley LDK 8000 Elite Triax camera with Funjinon XA20x8.5 ENG lens with tripod (Booth)
- 4 Grass Valley 3G fiber converters (SHEDS)
- Canon XJ100X9.3B long lens
- Canon XJ95x8.6 long lens
- 3 Canon XJ76x9 long lenses
- 4 Canon 72x9.3 long lenses
- 2 Fujinon HA18x5.5 ENG lenses
- 2 Canon XA17x7.6 ENG Lenses
- Four 2" color ENG VFs
- 2" B&W ENG VF
- 2 Studio Config Kits with LCD VFs
- 9 Grass Valley RefleX SuperExpander Sleds with 7" OLED VFs
- 9 Vinten Vector 75 heavy duty pan/tilt heads
- 9 Mathews MT1 heavy duty tripods
- 4 Miller Arrow X7 ENG tripod/pan/tilt heads
- 2 SD LPS clock cameras

Replay, Spotbox and Edit Systems

- Four 12 channel EVS XT3s full editing replay servers with 16 channels of embedded audio
  - *4 SSMO, 20 HD inputs/12 HD outputs when truck is running in SSMO mode*
  - *2 XT3s can be split into 2 operator positions each with 4 inputs/2 outputs*
  - *EVSs must use DNxHD codec for SSMO mode*
  - *32 HD inputs/16 HD outputs when truck is running in HD mode*
  - *2 Positions ues LSM Connect (No VGA)*
- 8 UHD inputs/4 UHD outputs when in UHD mode
- 4 Channel EVS XS server for Spotbox (2 channels per show during dual feeds)
- Codecs supported:
  - *M-JPEG – User selectable bitrate 20-360Mbps*
  - *Avid DNxHD® (120/145Mbps)*
  - *Avid DNxHD® High Level (185/220Mbps, 8-bit and 10-bit)*
  - *VC-3 (SMPTE 2019-1; Avid-compatible) 100Mbps*
  - *Apple ProRes® 4:2:2 (120/145Mbps)*
  - *Apple ProRes® 4:2:2 HQ (185/220Mbps)*
  - *Apple ProRes® 4:2:2 LT (85/102Mbps)*
  - *MPEG-2 intra – User selectable bitrate 20-360Mbps*
  - *DVCPRO HD*
  - *AVC-Intra Class 100*
  - *XAVC-Intra Class 100*
- Lance TDC-100 Disk Controller
- XFile3 with USB 3.0
- 3 Gbs SDTI network and GigE
- 2 DVD Recorders/Players
- Panasonic P2 Deck AG-HPD24P
- Up to 6 replay operator positions

Audio

- CALREC Artemis Beam Audio Mixer (56 fader) 256 routable inputs via MADI, 64 analog inputs
- RTW TM7 audio scope
- Audio Board can output multiple channels surround sound
  - *Encoders for surround sound are the clients responsibility*
- Enco Hotshot2 audio playout system
- Digicart II Plus with 250 Mb ZIP drive
- CD player
- 8 Sennheiser MKH 416 short shotgun mics
- 6 Sennheiser MKH 70 P48 long shotguns mics
- 11 Sennheiser MD 46 stick mics
- 10 Sony ECM77B lavaliers
- 4 Crown PCC-160 Cardioid Microphones
- 7 Sennheiser HMD sportscaster headsets
- 6 Daltech talkback boxes
- 6 Whirlwind MD-1 Mic/Line Drivers
- 4 Sound devices MP-1 line amps
- 6 DT12 Breakout Boxes
- 14 DT12 fanouts
- 6 Fotex portable speakers
- Fiber Booth Kit (Upon request)
- Parab dishes (Upon request)

Communications

- RTS ADAM Matrix System
- 16 Ports of OMNEO, 80 analog ports, 16 ports of RVON
- 12 Channels of IFB
- 12 Channels of PL
- 12 RTS 4030 IFB beltpacks
- 20 RTS BP325 headset boxes
- 4 Telos Hx2 Digital Telephone Interfaces
- 4 RTS TIFF 2000As
- 12 Line phone system
- 8 Two-Way Radios with 2 base stations

Graphics

- VizRT
- For-A Telestrator with HD touchscreen

Engineering & Misc

- 455x818 Miranda 3G/UHD router
- 768x1,152 Miranda audio router
- Embedded audio, 8x13 MADI, 64 AES, 128x192 analog
- 15 Frame sync/cross converters with fiber inputs/outputs
  - *4 AJA FS-HDR, 1 AJA FS-4, and 10 AJA FS1-Xs, for a total of 30 paths*
- 10 AJA utility cross converters
- TSI-4000 tally system with virtual tally
- 2 Lighting Kits

Outboard Monitors

- Sixteen 16" Outboard LCD video monitors
  - *Capability to provide HD Program to booth (If fiber is available)*

Cable

- 4150' Triax
  - *Three 500', Six 250', Eight 100'*
  - *Two 6 line triax mult 175'*
- 600' 10 Line video mult
  - *Two 125', Four 75', One 50'*
- 1050' TAC singlemode fiber
  - *Three 150' TAC-12, Four 150' TAC-6*
- 2100' SMPTE fiber
  - *Six 250', Six 100'*
- 2700' DT12
  - *Six 250', Eight 150'*
- 225' Three phase power cable
  - *Set of 100', 75', and 50'*
- Additional cable available if shipped separately

Power Required

- 208 VAC, three phase, 200 amps
  - *Separate 200 amps of three phase 208 VAC may be required in high heat locations*

38 VMU Equipment Specifications

The following equipment is available to the Visitor Feed in addition to 38 FLEX A Unit equipment. This trailer is fully networked to the A Unit with extensive fiber connectivity. All cameras and record trains are available to both trailers.

Production
- 3 Stripe switcher panel
- 3 M/Es assigned to visitor show
- Up to 58 images in production wall

Replay, Spotbox and Edit Systems
- XFile3 with USB 3.0
- 2 Channels of Spotbox from A Unit
- Lance TDC-100 Disk Controller
- Up to 3 EVS replay operator positions

Audio
- STUDER Vista 1 (32 fader)
- 50 Mono channels, 38 stereo channels
- 16 Mono aux, 4 stereo aux
- 10 Stereo groups with Dynamics & EQ, 6 stereo busses
- Enco Hotshot2 audio playout system
- Digicart II Plus with 250 Mb ZIP drive
- CD player
- 3 Sennheiser MD 46 stick mics
- 6 Sennheiser HMD sportscaster headsets
- 6 Daltech talkback boxes
- 2 Sound devices MP- line amps

Communications
- RTS Intercom System integrated with A Unit
- 8 Channels of IFB
- 6 RTS 4030 IFB beltpacks
- 6 RTS BP325 headset boxes
- 2 Telos Hx2 digital telephone interfaces
- 2 RTS TIFF 2000As from A Unit
- 2 Two-Way Radios with base station

Graphics
- VizRT (Upon request)
- For-A Telestrator with HD touchscreen (Upon request)

Engineering & Misc
- 2 Lighting Kits
- Grass Valley LDK 8000 Elite triax camera with Canon HJ17x7.6 ENG lens and tripod (Booth)

Outboard Monitors
- Four 16" Outboard LCD monitors
  - *Capability to provide HD program to booth (If fiber is available)*

Cable
- 900' DT12
  - *Six 150'*
- 225' Three phase power cable
  - *Set of 100', 75', and 50'*
- Additional cable available if shipped separately

Power Required
- 208 VAC, three phase, 150 amps