



Proposal for:

City of Aurora / Aurora Police Department

Prepared by:

Dan Kment

Constant Technologies

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Direct: (401) 374-9099

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1/21/2021

Re: Constant Technologies Proposal

Constant Technologies has reviewed the Request for Proposal and is capable of designing, fabricating and installing a turn-key solution that will meet and exceed the project requirements of providing an innovative and cost-effective solution.

Constant Technologies have set an industry standard in the design, planning, fabrication and installation/integration of mission critical and high-tech environments. Our technical expertise includes: facility space planning, furniture and audio-visual design / engineering, fabrication and integration.

Constant Technologies' specialists work in all industries across the globe in supporting technology requirements. During our company history, spanning more than three decades, Constant Technologies has a rich history of on time completion, within budget and to the satisfaction of our customer and end users. References are available upon request.

Thank you for providing Constant Technologies the opportunity to be a part of your project.

Sincerely,

A handwritten signature in black ink, appearing to read 'Dan Kment', followed by a long horizontal line.

Dan Kment
Senior Vice President
Constant Technologies, Inc.



TECHNICAL SCOPE OF WORK:

This proposal for the video wall systems in the CIIC, is based on processing, control and display hardware from CineMassive. CineMassive CineLink IP Encoders will capture sources and support up to 3840x2160@60fps with an embedded stereo audio channel. A CineMassive Alpha FX Elite Pro IP-enabled processor will drive all of the displays allowing sources to be shown anywhere on the array of displays at any size. The processors will also support numerous digital clock styles in any time zone.

The CIIC video wall will be made up of an 7 wide x 2 high array of CineMassive CineView III 55" LCD panels. Each panel has a native 1920x1080 resolution for a total video wall resolution of 13,440 x 2,160. The pixel to pixel gap across the seam will be 1.7mm. There will be 3 additional owner furnished displays mounted around the room driven by the CineMassive Alpha at 1080p. One on the left and right walls and a third mounting TBD by the conference table.

CineMassive CineAgent workstations will allow up to 4 1080p web windows (must support Chromium browser engine). Two monitors on each of the seven consoles will be available to the video wall. These workstations will support up to 3840x2160@30fps. There will also be 2 HDMI inputs for laptops at the conference table at the back of the CIIC. There will be a wall plate input underneath the monitor on the left wall support both HDMI at up to 3840x2160@30Hz and Analog VGA at up to 1920x1080. Up to 4 OFE CATV/Satellite Tuners will be supported in the CIIC as well.

The system will support sending and receiving feeds to other rooms as well. The current design includes support for up to 6 1080p Video Only feeds to other rooms. At this time only 3 have been identified (Investigation Room, Command Post, Chief's Conference Room). These feeds will act as secondary inputs into those rooms existing displays or A/V systems. These feeds will make use of the customer's existing network infrastructure for video extension over IP. In addition, the Chief's conference room will be able to send up to 2 laptop feeds from the table back to the CIIC.

There will 70v ceiling speakers spaced out around the CIIC to support audio feeds from the tuners and PC sources. Two stand-alone CineLink 4K-D 4 Channel Decoders will act as a backup video sources to the CIIC screens in case the processor needs maintenance or goes offline.

Summary

- 7x2 array of CineMassive CineView III 55" LCDs
- 3 CIIC Side Monitors (OFE)
- 6 1080p Feeds to Aux rooms (Investigation Room, Command Post, Chief's Conference Room, 3 un-allocated)
- 4 1080p CineAgent Web Windows
- 14 Console Workstation Feeds from 7 Consoles (2 Monitor per seat)
- 2 CIIC Laptop Feeds
- 1 HDMI/VGA Wall Plate in CIIC
- 4 CATV Tuners (Owner Furnished)
- 2 Touch Panels
- 2 Chief's Conference Room Laptop Feeds



AV DOCUMENTATION:

- Detailed equipment layout CAD drawings related to AV for coordination of site measurements, architectural, mechanical, and electrical project elements.
- Cable Drop locations, AV rack elevations detailing equipment and power / HVAC requirements
- Equipment list of MAC addresses for IP address configuration when applicable
- User manuals for all system components and administrative user credentials for all system components and full as-built system wiring diagram

PACKING AND SHIPPING:

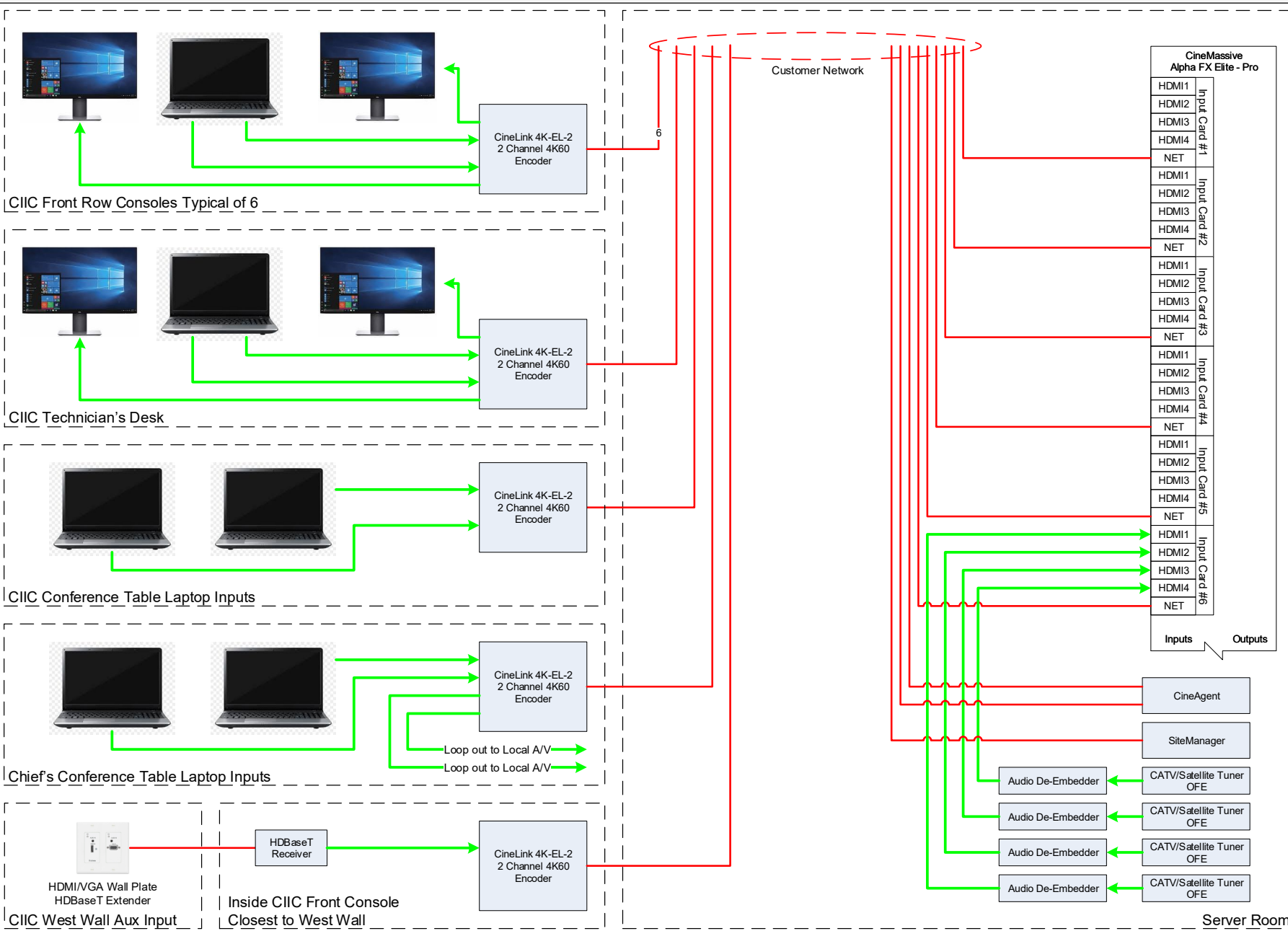
- Constant provided equipment will be packed in a manner consistent with a method of transportation that will ensure undamaged and complete arrival to the destination and shall be protected during transit, delivery, storage, and handling to prevent damage or deterioration.
- Equipment shall be delivered to the job site at a designated location and at a designated time for unloading, unpacking, and field assembly. All activities shall be coordinated with the Client's project manager.
- All rubbish removal for Constant Technologies supplied equipment shall be the responsibility of Constant Technologies.

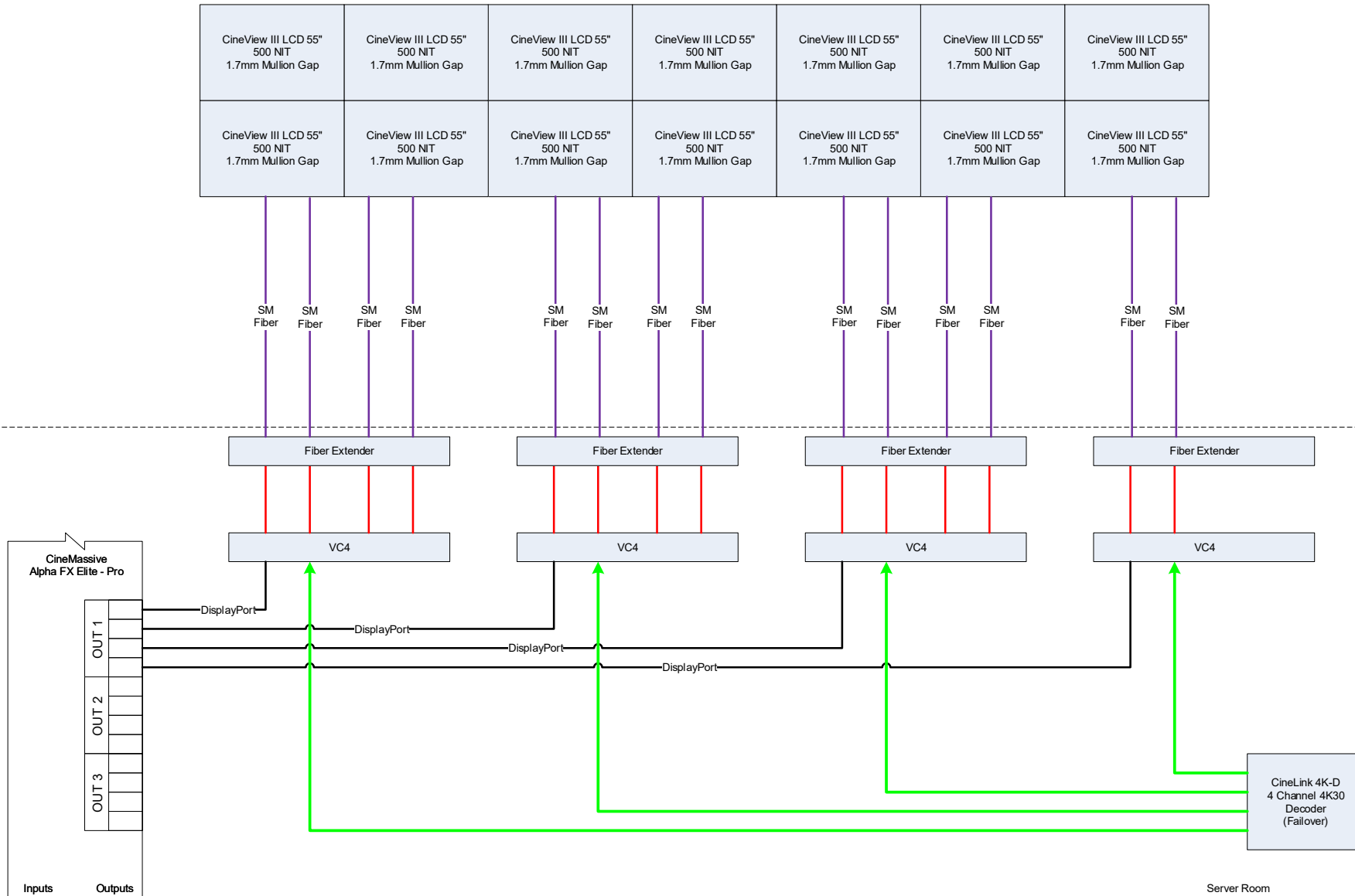
SITE CONDITIONS/ LABOR:

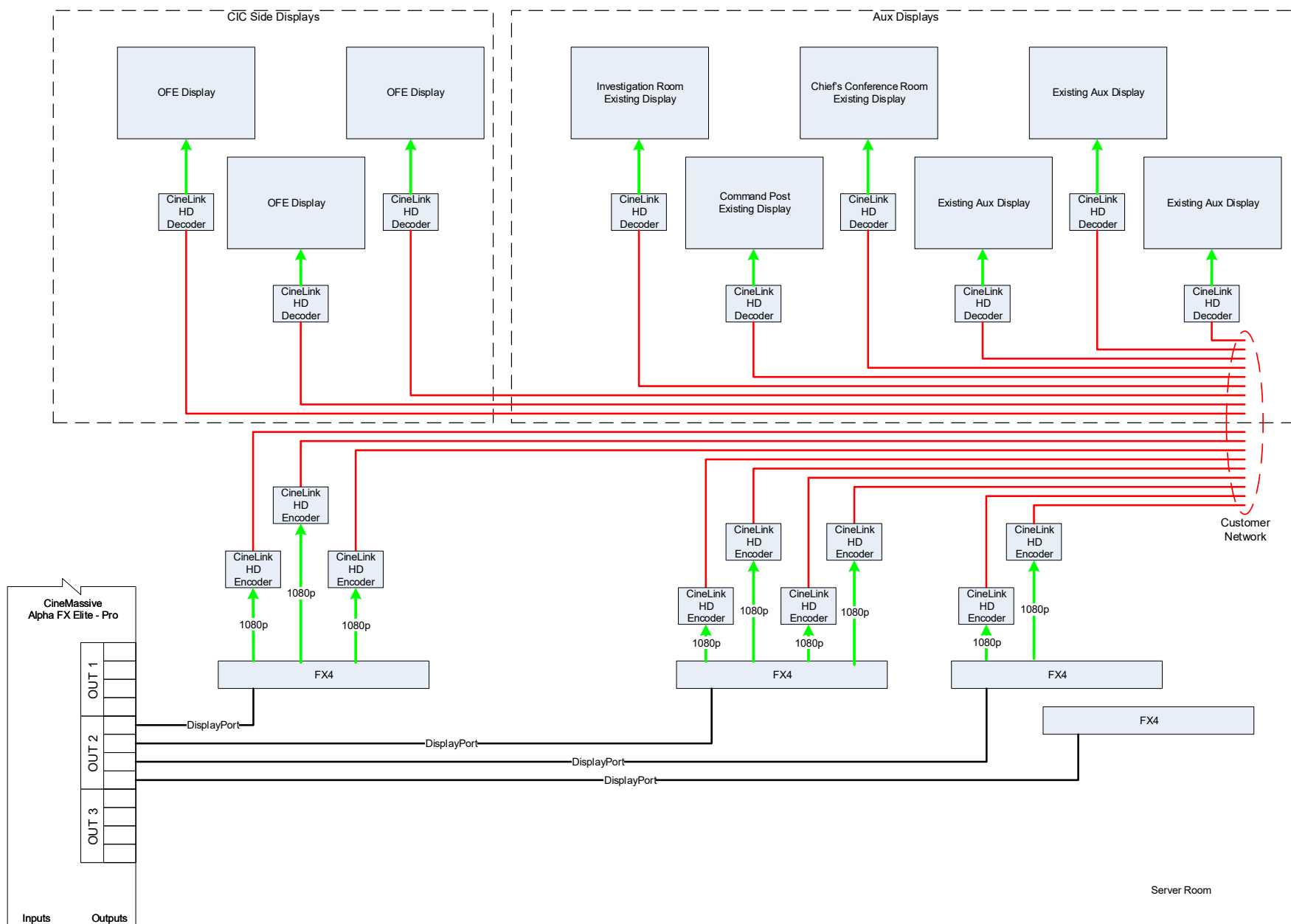
- A/V Equipment delivery schedule to be coordinated ahead of delivery date.
- Constant will provide personnel (current quotation has set a rate of non-union) to accept deliveries of materials supplied in SOW upon site readiness.
 - *Examples of site readiness include: Completion and cleanup of all concrete work, masonry, plastering, and electrical, lighting, and ceilings, walls, painting and flooring requirements have been installed.*
- Constant Technologies shall provide installation labor and site supervision to install the AV Components.
- Constant assumes it will have proper access to the project site as required in order to complete its installation. Any Security or Escort requirements are not the responsibility of Constant Technologies.
- Constant will provide an in-depth training session(s) to general and administrator level users.

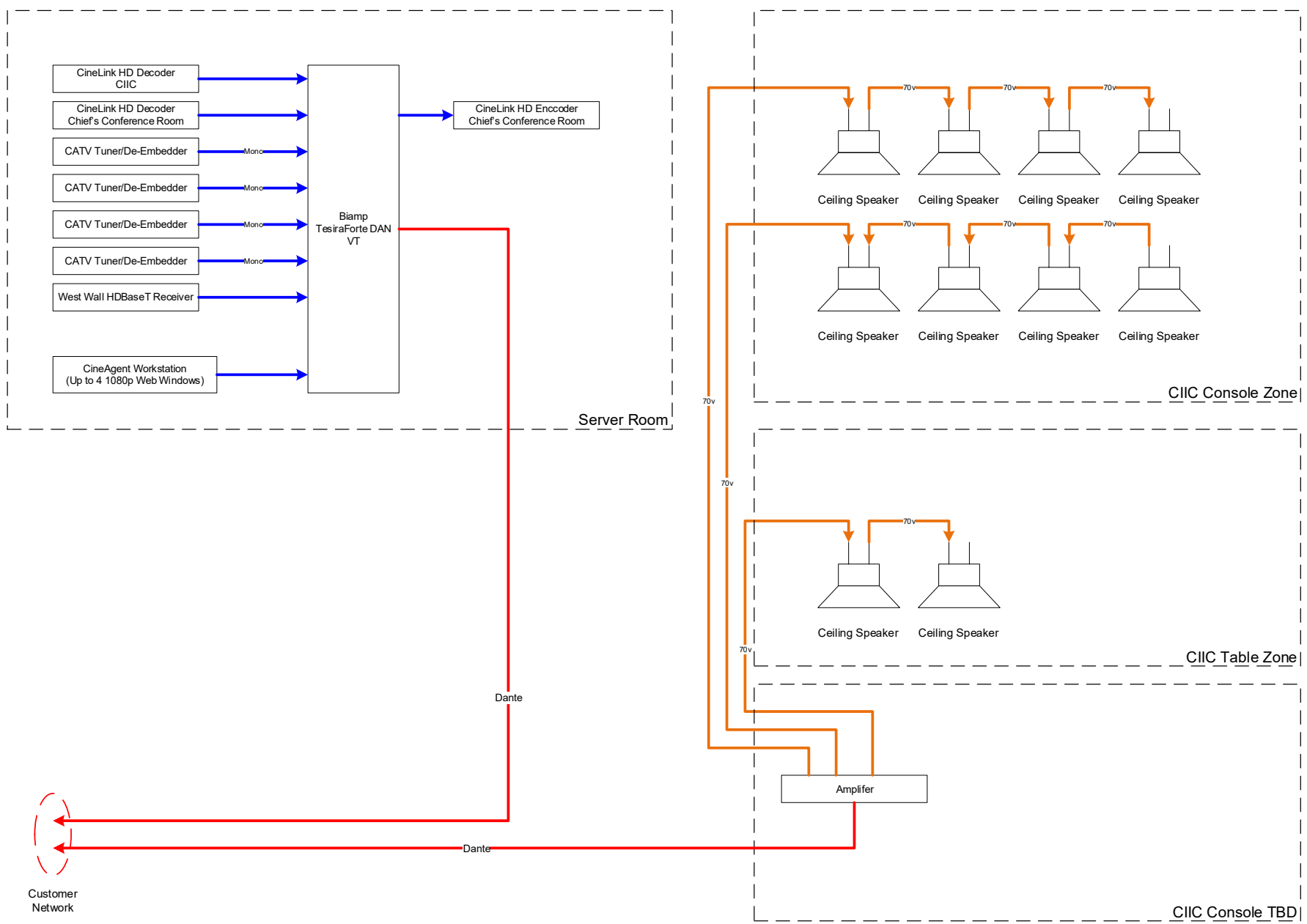
TYPICAL CUSTOMER RESPONSIBILITIES:

- All High Voltage 120/240v electrical circuits needed for the equipment in the AV rack and for wall mounted displays.
- Cable paths from AV rack to the room and ceiling and any conduit required.
- All IT equipment for computer sources including desktop displays.
- Network drops required for all AV/IT equipment
- Pull all cables (provided and spec'd by CTI) that leave the furniture or rack (infrastructure cabling) including but limited to speaker wire, CAT6, fiber, microphone and control cables.









Drawing Classification

Proprietary

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Aurora, IL

PROJECT NAME

City of Aurora
Police
Department

AREA NAME

CIIC Audio

LEGEND

K – Keyboard
V – Video
Analog VGA Cable
RJ-45 – Cat 6 Ethernet
Line Level Audio
HDMI/DVI-D – Video Copper

PROJECT DETAIL

Drawn By: J.T. Project Manager: D.K.

Date: January 19, 2021

Scale: N.T.S.

Constant Technologies Project Number: 119-0346

File Location: City of Aurora PD - Cinemassive Fiber 1-19-21.vsd

Drawing Description: Design Review

Drawing Title: CIIC Audio Flow

SHEET NUMBER

REV

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OF CONSTANT TECHNOLOGIES INC.

PROJECT NAME: _____

City of Aurora
Police
Department

Aurora, IL

[illegible]

PROJECT DETAILS: _____

Drawn By:
Joseph Zavota

Date: January 29, 2021

Scale:
As Noted

Project Number:
119-0346

File Location:
\\Projects\Q:\City of Aurora Police Department
[119-0346]\01 - Design Development\

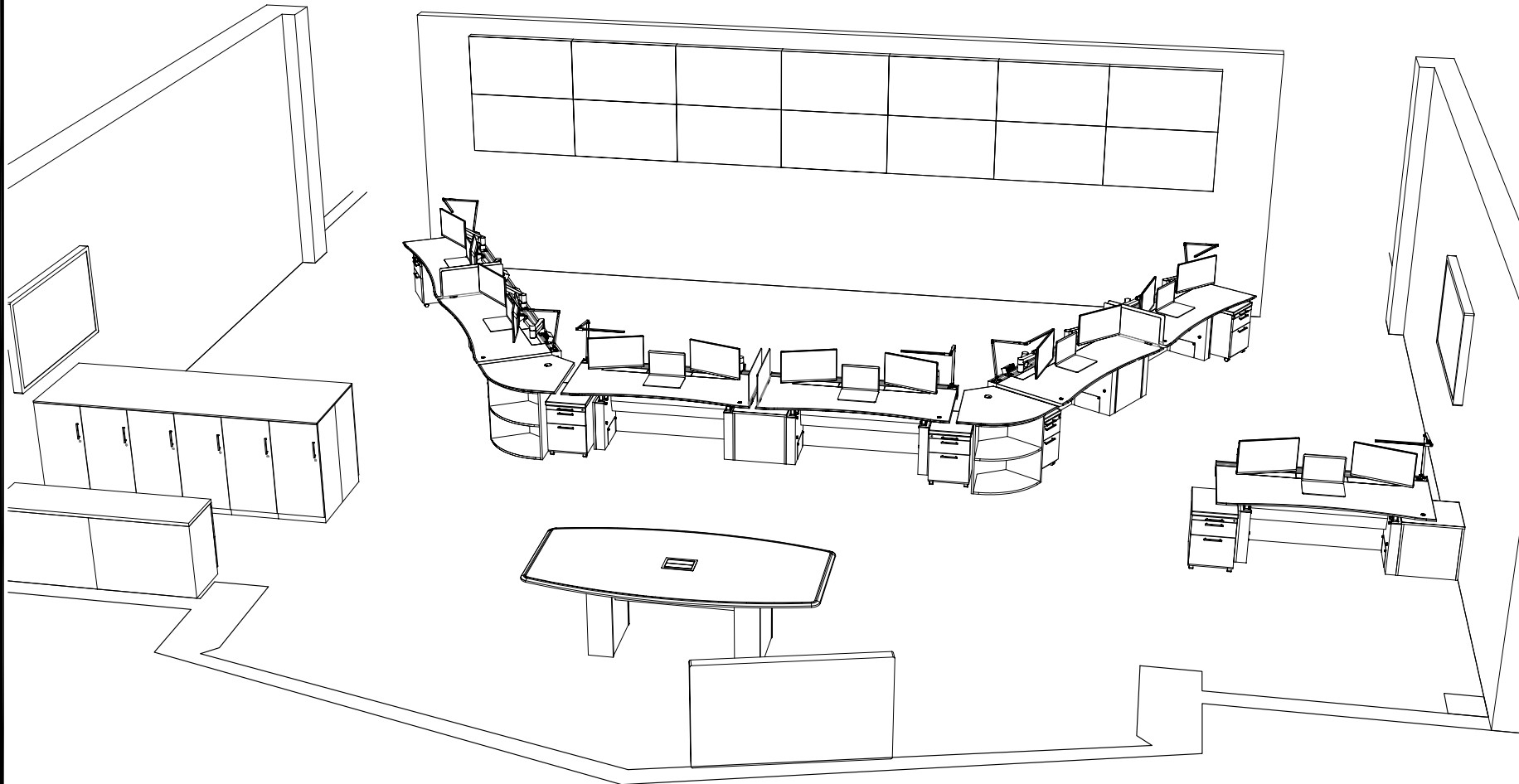
Phase: **Design Development**

Drawing Title:

Perspective View

SHEET NUMBER: _____ REV: _____

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Perspective View

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PROJECT NAME: _____

City of Aurora
Police
Department

Aurora, IL

REVISIONS: _____

Init.	ID	Ref. #	Date
JZ		8842	2020/12/04
JZ		8852	2020/12/11
JZ		8863	2020/12/17
JZ		8869	2021/01/04
JZ		AV-241	2021/01/25

PROJECT DETAILS: _____

Drawn By:
Joseph Zavota

Date: January 29, 2021

Scale:
As Noted

Project Number:
119-0346

File Location:
\\Projects\Q:\City of Aurora Police Department
[119-0346]\01 - Design Development\

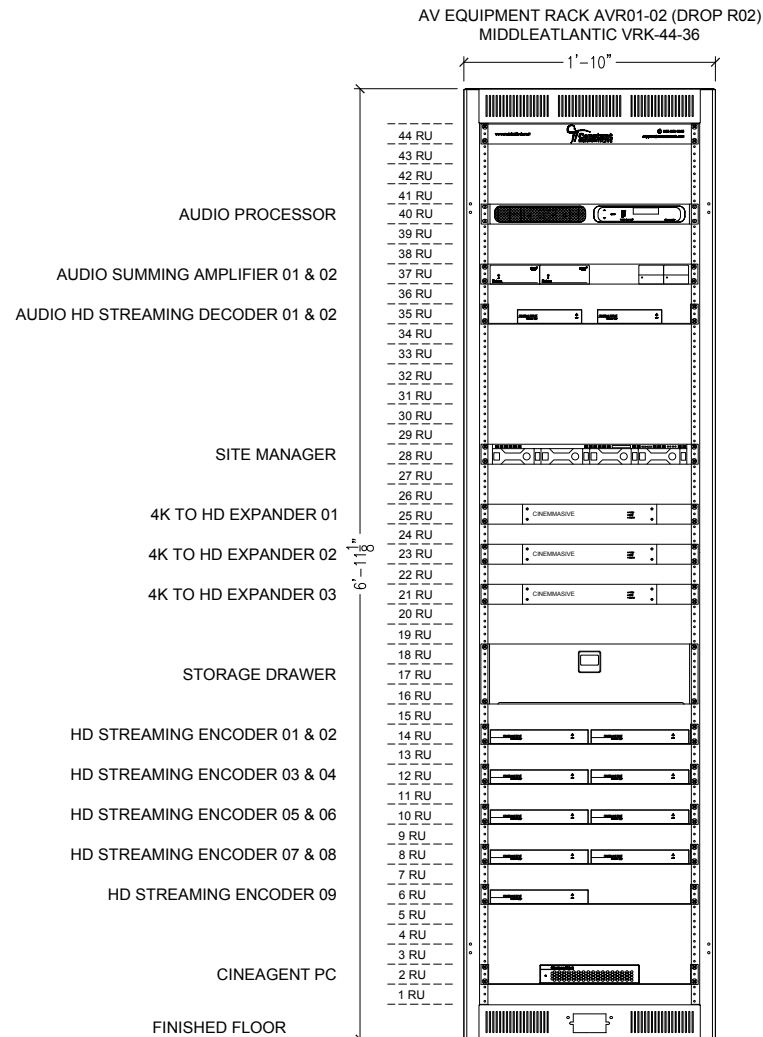
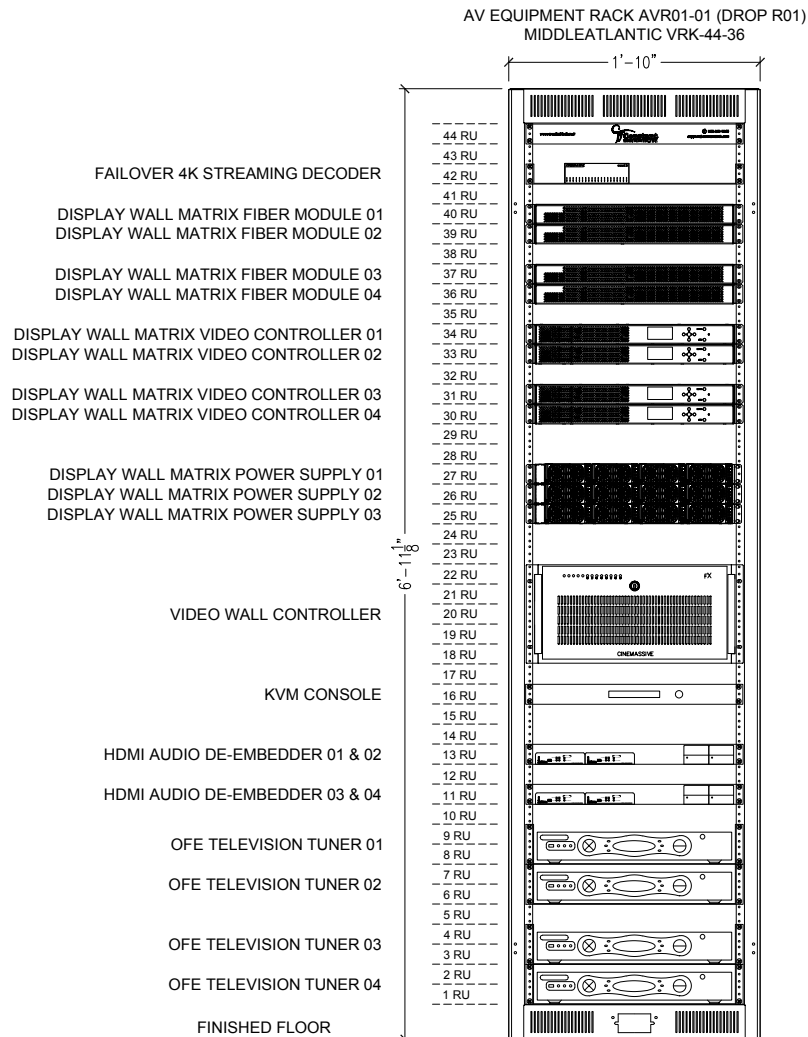
Phase:

Design Development

Drawing Title:
**Preliminary AV Equipment
Rack Elevations**

SHEET NUMBER: _____ REV: _____

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Preliminary AV Equipment Rack Elevations

SCALE:NTS

**** SUBJECT TO CHANGE BASED ON FINAL ENGINEERING ****

City of Aurora Police Department (119-0346) - Preliminary AV Equipment Room Load Estimate									
Audio Visual Equipment Power / HVAC Load Specifications (Based on 208 VAC & Manufacturer Name Plate Ratings)									
Part Description	Part Number	Manufacturer	Quantity	Current Draw (Amps/Unit)	Current Draw (Amps Total)	BTU/Hour/Unit	BTU/Hour Total	Power Consumption (Watts/Unit)	Power Consumption (Watts Total)
10" Rack Top Exhaust Fan	FAN	Orion	2	0.34	0.67	238.00	476.00	70.00	140.00
Generation 3 Matrix Fiber Module	G3 FIBER MODULE	Cinemassive	4	N/A (DC from Matrix Power Supply)	N/A (DC from Matrix Power Supply)	204.90	819.60	N/A (DC from Matrix Power Supply)	N/A (DC from Matrix Power Supply)
Generation 3 Matrix Video Controller	G3 VC4H-BP+	Cinemassive	4	N/A (DC from Matrix Power Supply)	N/A (DC from Matrix Power Supply)	204.90	819.60	N/A (DC from Matrix Power Supply)	N/A (DC from Matrix Power Supply)
Generation 3 Matrix Power Supply	G3 RPS110 (14 CineView III Displays per 3 Units)	Cinemassive	3	5.12	15.36	259.60	778.80	1064.67	3194.00
Video Wall Controller	CMP-ALPHA-FX-ELITE-PRO	Cinnemassive	1	6.97	6.97	4930.00	4930.00	1450.00	1450.00
Rackmount KVM Console	RM-KB-LCD17KVMHD	Middleatlantic	1	0.09	0.09	65.96	65.96	19.40	19.40
HDMI Audio De-Embedder	HAE 100 4K	Extron	4	0.03	0.12	21.08	84.32	6.20	24.80
Television Tuner	Unknown	Unknown	4	0.14	0.58	102.00	408.00	30.00	120.00
Audio Processor	TesiraFORTE DAN VT	Biamp	1	0.17	0.17	119.00	119.00	35.00	35.00
Audio Summing Amplifier	ASA 304	Extron	2	0.01	0.02	8.16	16.32	2.40	4.80
HD IP Decoder	CMP-CINELINK-HD-D	Cinnemassive	2	0.07	0.14	51.00	102.00	15.00	30.00
Cineagent PC	CMP-CINET-CINEAGENT	Cinnemassive	1	0.77	0.77	544.00	544.00	160.00	160.00
Host Server	CMP-CINET-SITEMANAGER	Cinnemassive	1	1.44	1.44	1020.00	1020.00	300.00	300.00
4K to HD Expander	CMP-EXPANDER-FX4-KIT	Cinnemassive	3	0.17	0.50	119.00	357.00	35.00	105.00
HD IP Encoder	CMP-CINELINK-HD-EL	Cinnemassive	9	0.07	0.65	51.00	459.00	15.00	135.00
4K IP Decoder	CMP-CINELINK-4K-D	Cinnemassive	1	0.29	0.29	204.00	204.00	60.00	60.00
ESTIMATED POWER REQUIREMENTS - VALUES SUBJECT TO CHANGE BASED ON FINAL ENGINEERING				Total Amps @ 208 VAC	27.78	Total BTU's	11203.60	Total Watts	5778.00

City of Aurora Police Department (119-0346) - Display Wall Load Estimate									
Audio Visual Equipment Power / HVAC Load Specifications (Based on 208 VAC & Manufacturer Name Plate Ratings)									
Part Description	Part Number	Manufacturer	Quantity	Current Draw (Amps/Unit)	Current Draw (Amps Total)	BTU/Hour/Unit	BTU/Hour Total	Power Consumption (Watts/Unit)	Power Consumption (Watts Total)
Generation 3 Matrix 55" Display	CineView III	Cinemassive	14	N/A (DC from Matrix Power Supply)	N/A (DC from Matrix Power Supply)	529.30	7410.20	N/A (DC from Matrix Power Supply)	N/A (DC from Matrix Power Supply)
ESTIMATED POWER REQUIREMENTS - VALUES SUBJECT TO CHANGE BASED ON FINAL ENGINEERING				Total Amps @ 208 VAC	0.00	Total BTU's	7410.20	Total Watts	0.00



COMPANY INFORMATION:

Headquarters Address:
125 Steamboat Avenue
North Kingstown, RI 02852
Office Phone: (401) 294-7171
Fax Number: (401) 294-7505
Website: www.constanttech.com



Federal Tax ID# 22-2503954
Dun & Bradstreet# 04-933-5102
NAICS Code: 334310
Cage Code: 1MDG8
Company Type: Corporation
State of Incorporation: New Jersey
Date of Incorporation: October 24, 1983

PAYMENT STRUCTURE:

Master Services Agreement can be modified to meet the standards and mutual benefit for both for both parties, below is a suggested format for either acceptance or discussion:

- 50% Due (Net 30) Upon Purchase Order
- 50% Due (Net 630) Upon Installation Completion