CRESTRON System

- **The CRESTRON Control System:**
  - The brain of the A/V system
  - Manages the Inputs & Outputs to the Wall
  - Provides the interface to the Matrix Switch

TPS-4500
Hardwired Touch
panel

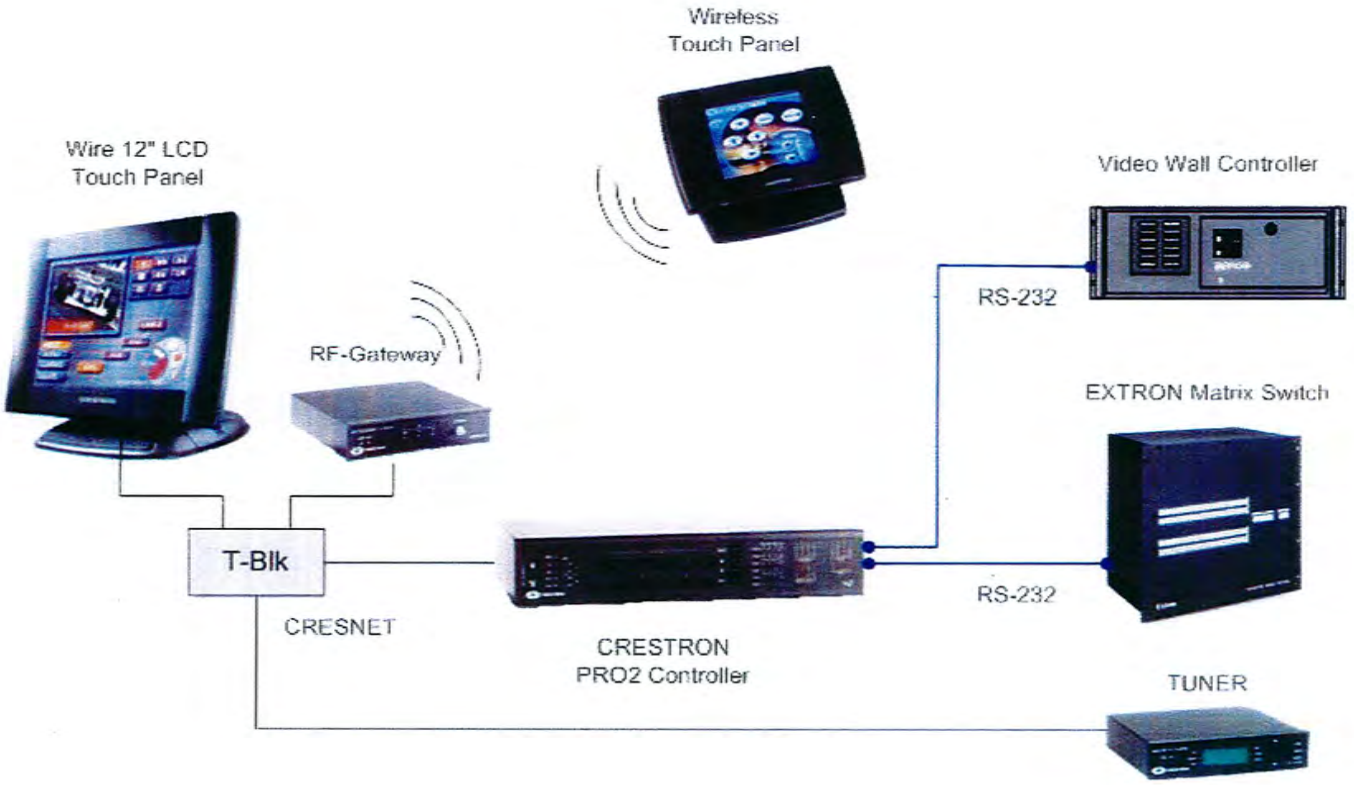
PRO 2
System Controller

STX-1700C
Wireless Touch
panel

Audio Visual Innovations
Command & Control Group

CRESTRON System

The CRESTRON Control System Diagram:



Audio Visual Innovations
Command & Control Group

CRESTRON System

- **The CRESTRON PRO2 Control System:**
  - The true brain of the A/V system
  - Connects to the control devices
  - Stores the Control program
  - Stores the Touch panel pages
  - Talks to the EXTRON & BARCO equipment via RS-232

PRO 2

System Controller

Audio Visual Innovations
Command & Control Group

CRESTRON System

- **The CRESTRON Touch Panel:**
  - The Human-Machine Interface
  - Bright 12" LCD Panel for the TPS-4500
  - Bright 6" LCD Panel for the STX-1700C
  - Displays the buttons for controlling the system

TPS-4500
Hardwired Touch
panel

STX-1700C
Wireless Touch
panel

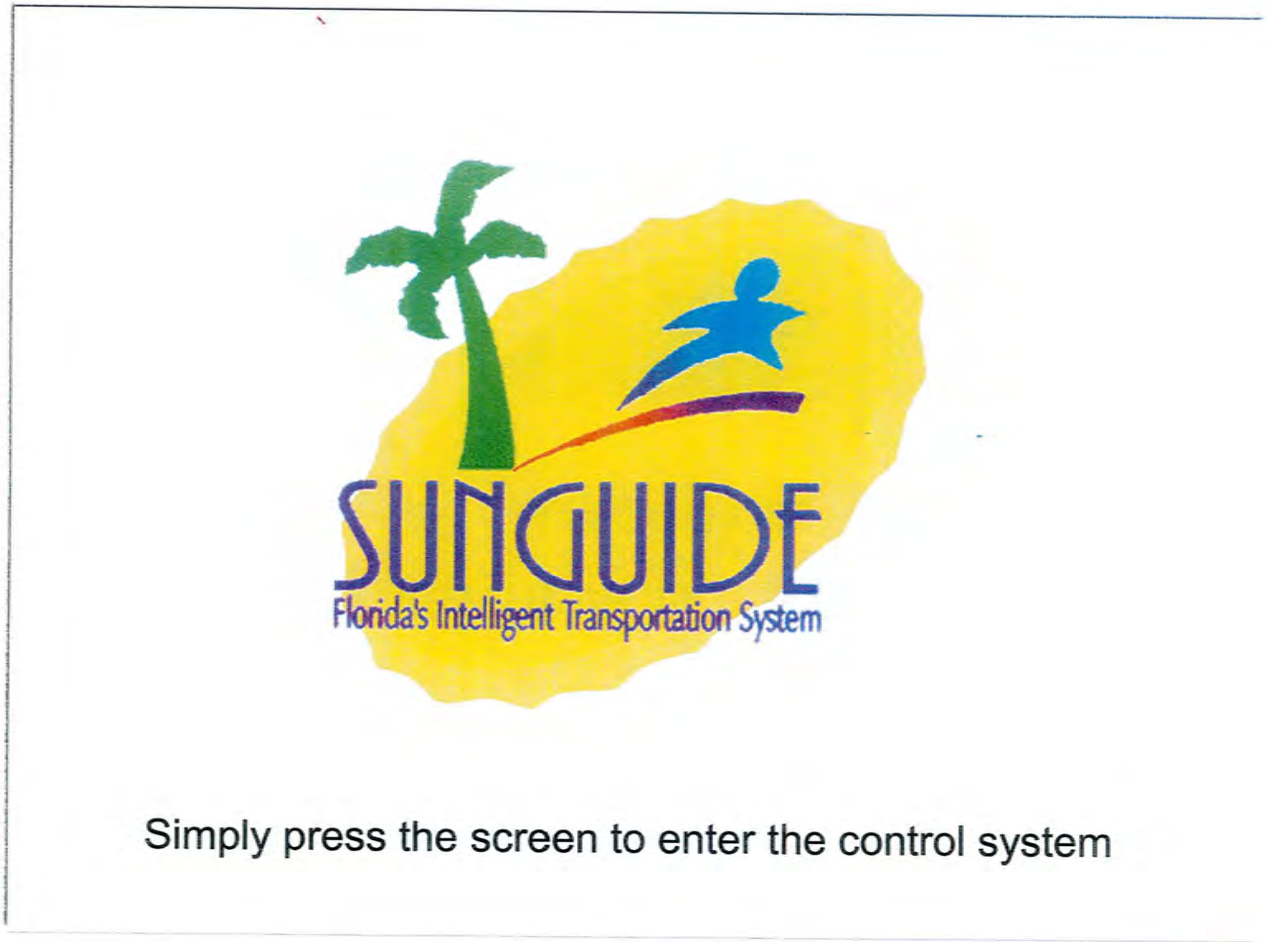
Audio Visual Innovations
Command & Control Group

CRESTRON Pages

- **The Operator Focus is the 12" Touch Panel:**
  - Located on the back console row
  - Bright 12" LCD Panel for page display
  - Usually dark or in "sleep" mode
  - Operator simply has to touch the screen for the system to "wake-up" and present the SPLASH Page as follows:

Audio Visual Innovations
Command & Control Group

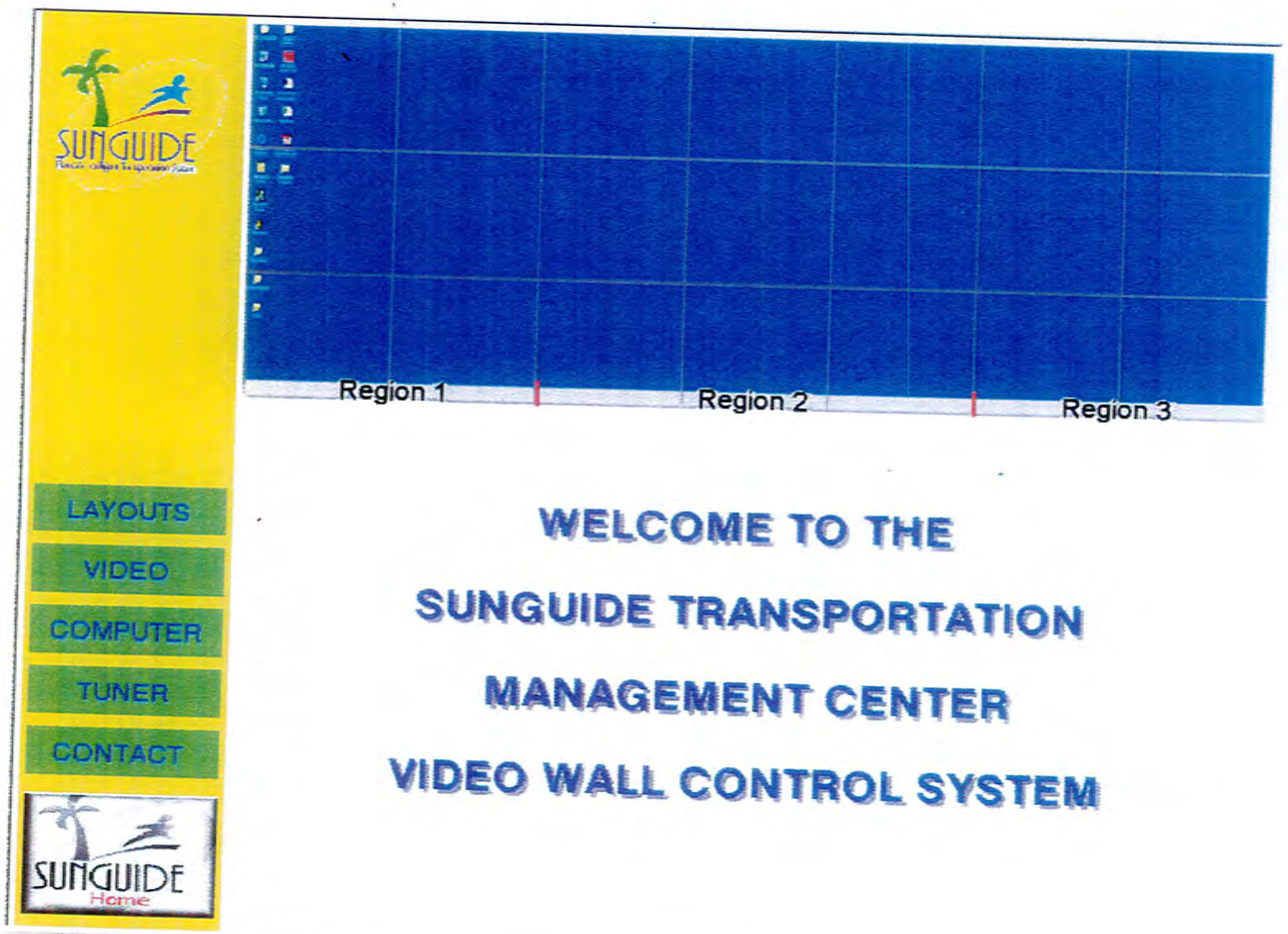
CRESTRON Pages



The Splash page

Audio Visual Innovations
Command & Control Group

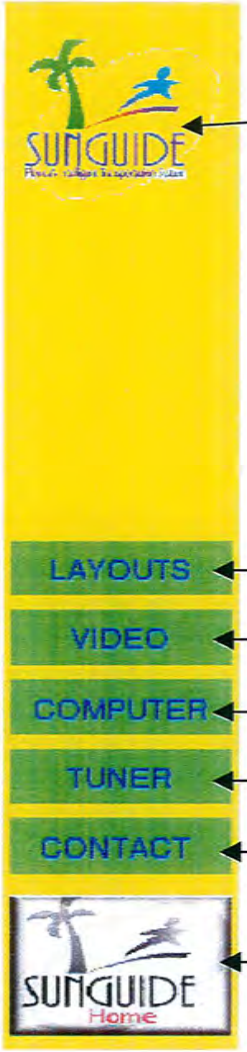
CRESTRON Pages



The Welcome page

Audio Visual Innovations
Command & Control Group

CRESTRON Pages



Returns the operator to the Splash Page

Takes operator to the Layout Select Page

Takes operator to the Video/Tuner Select Page

Takes operator to the Computer Select Page

Takes operator to the Video/Tuner Select Page

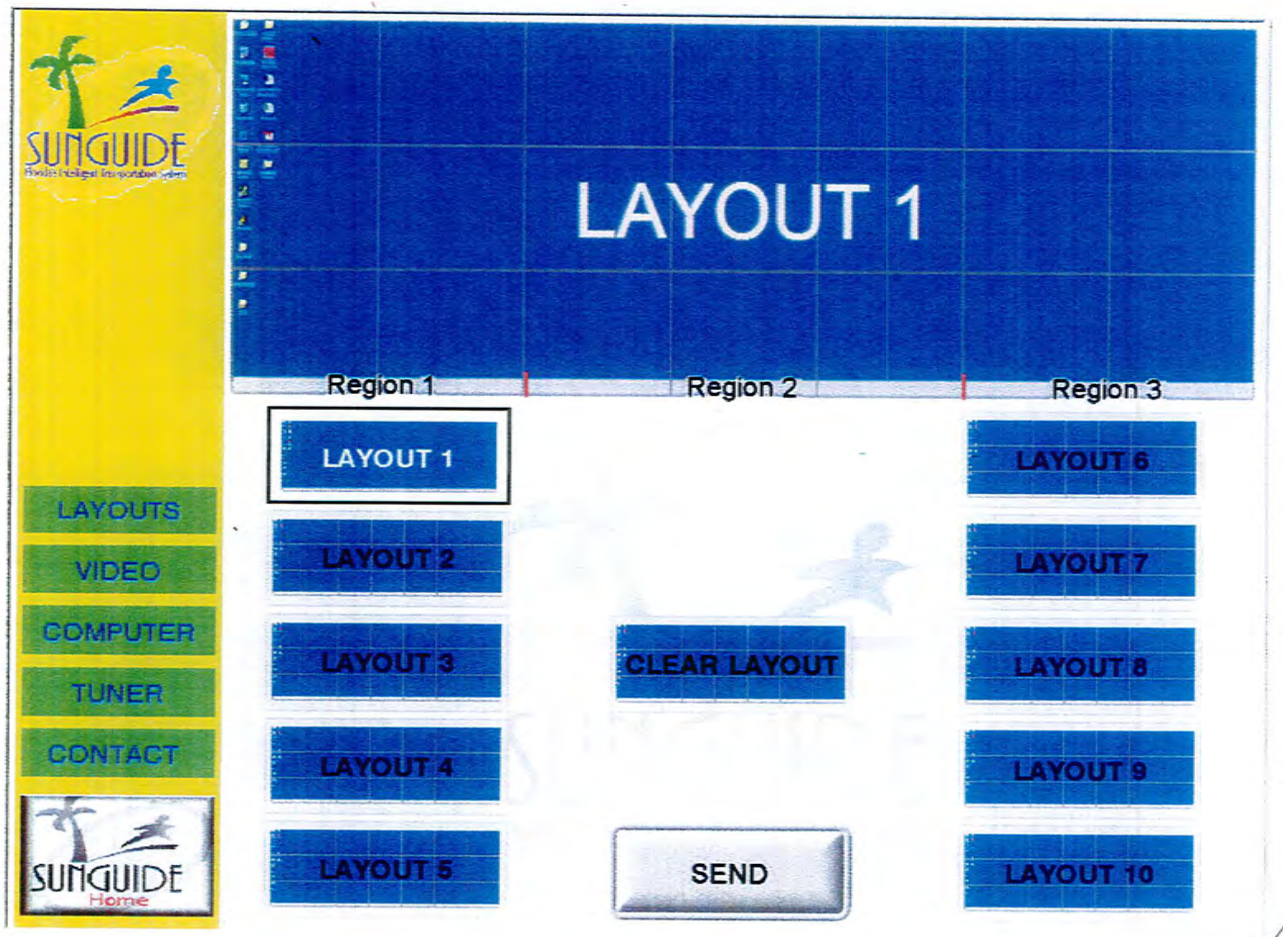
Takes operator to the Contact Information Page

Returns the operator back to the Welcome Page

The Side Bar

Audio Visual Innovations
Command & Control Group

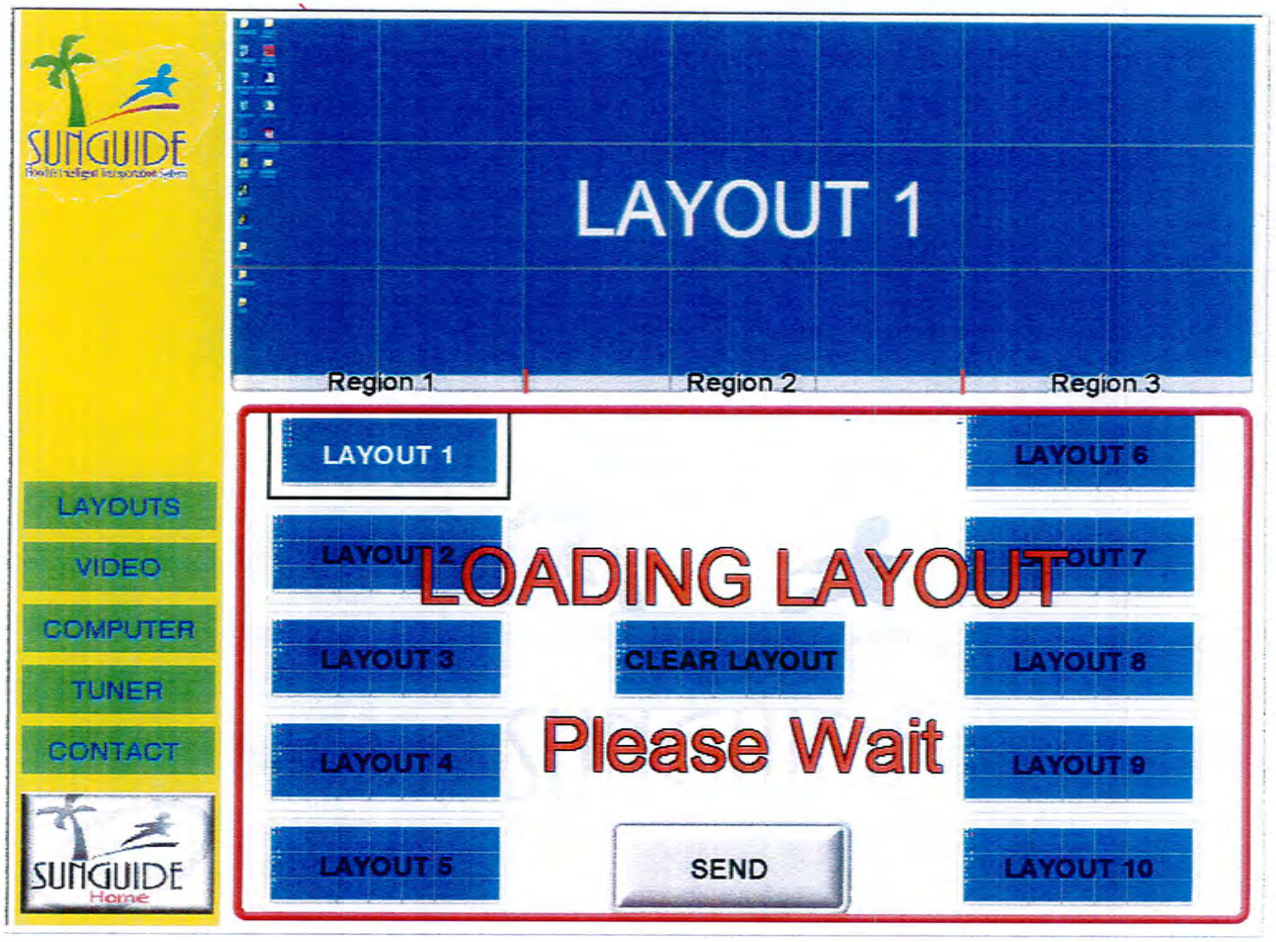
CRESTRON Pages



The Layout page

Audio Visual Innovations
Command & Control Group

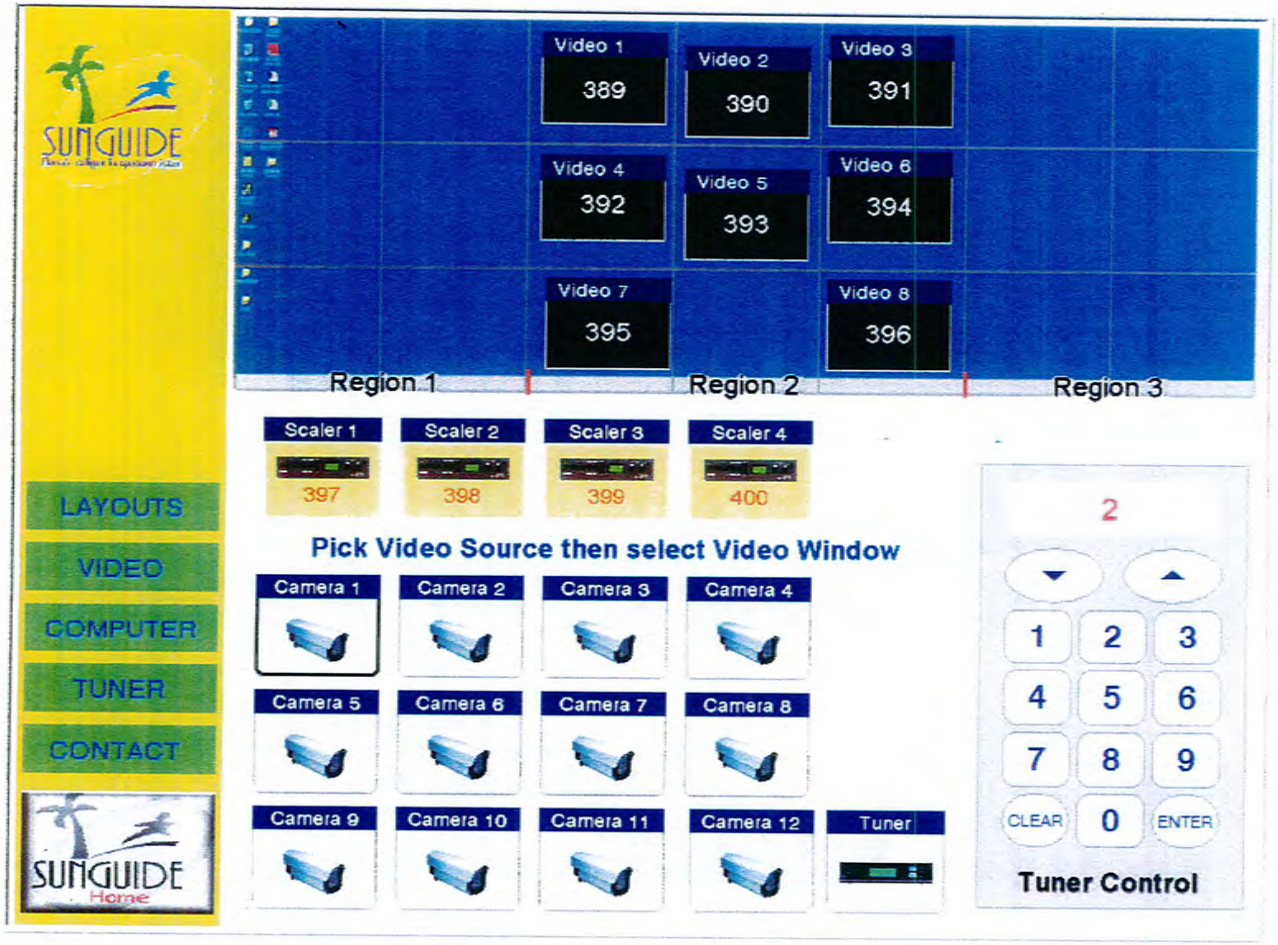
CRESTRON Pages



The Layout page (Wait)

Audio Visual Innovations
Command & Control Group

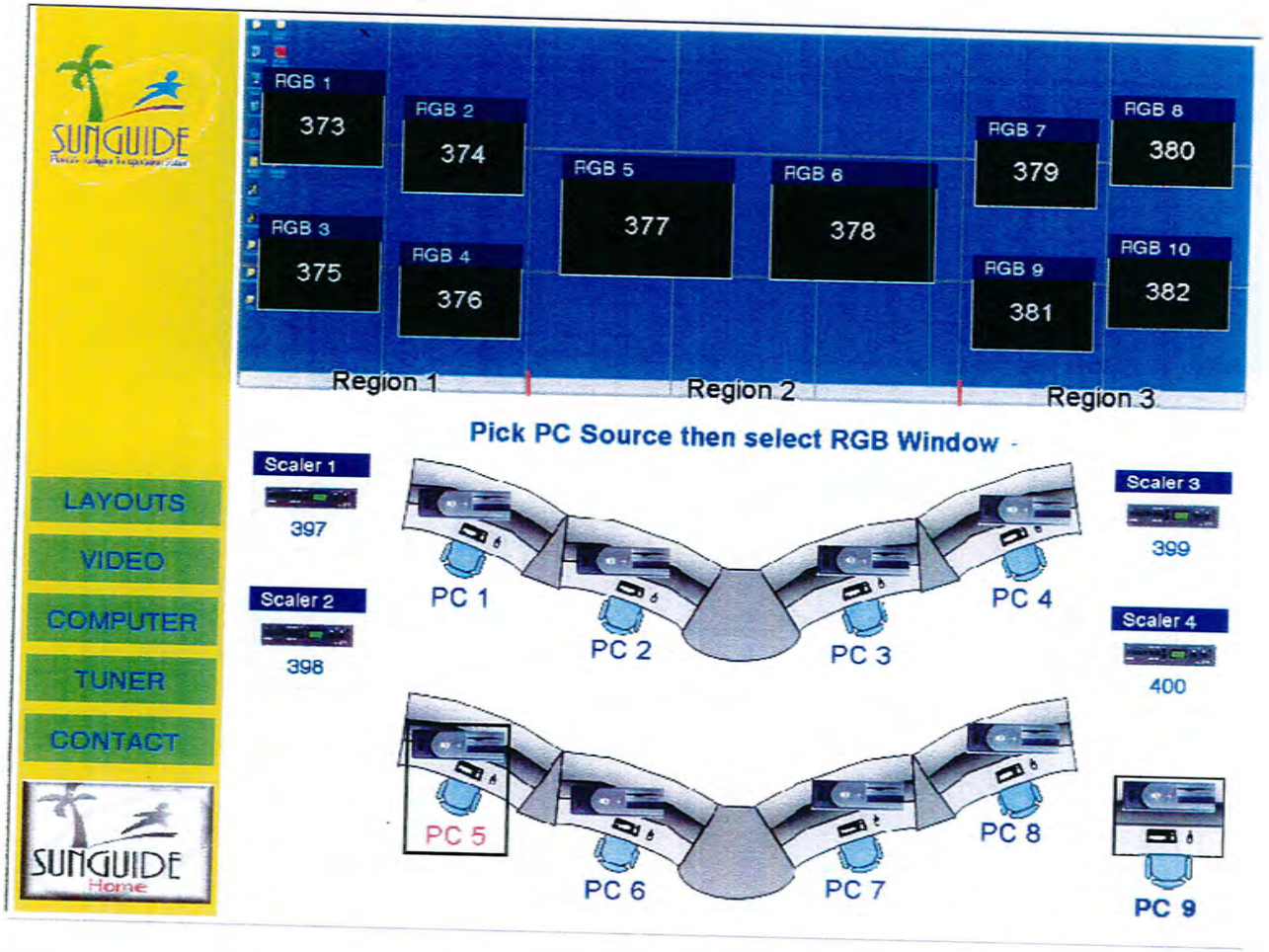
CRESTRON Pages



The Video/Tuner page

Audio Visual Innovations
Command & Control Group

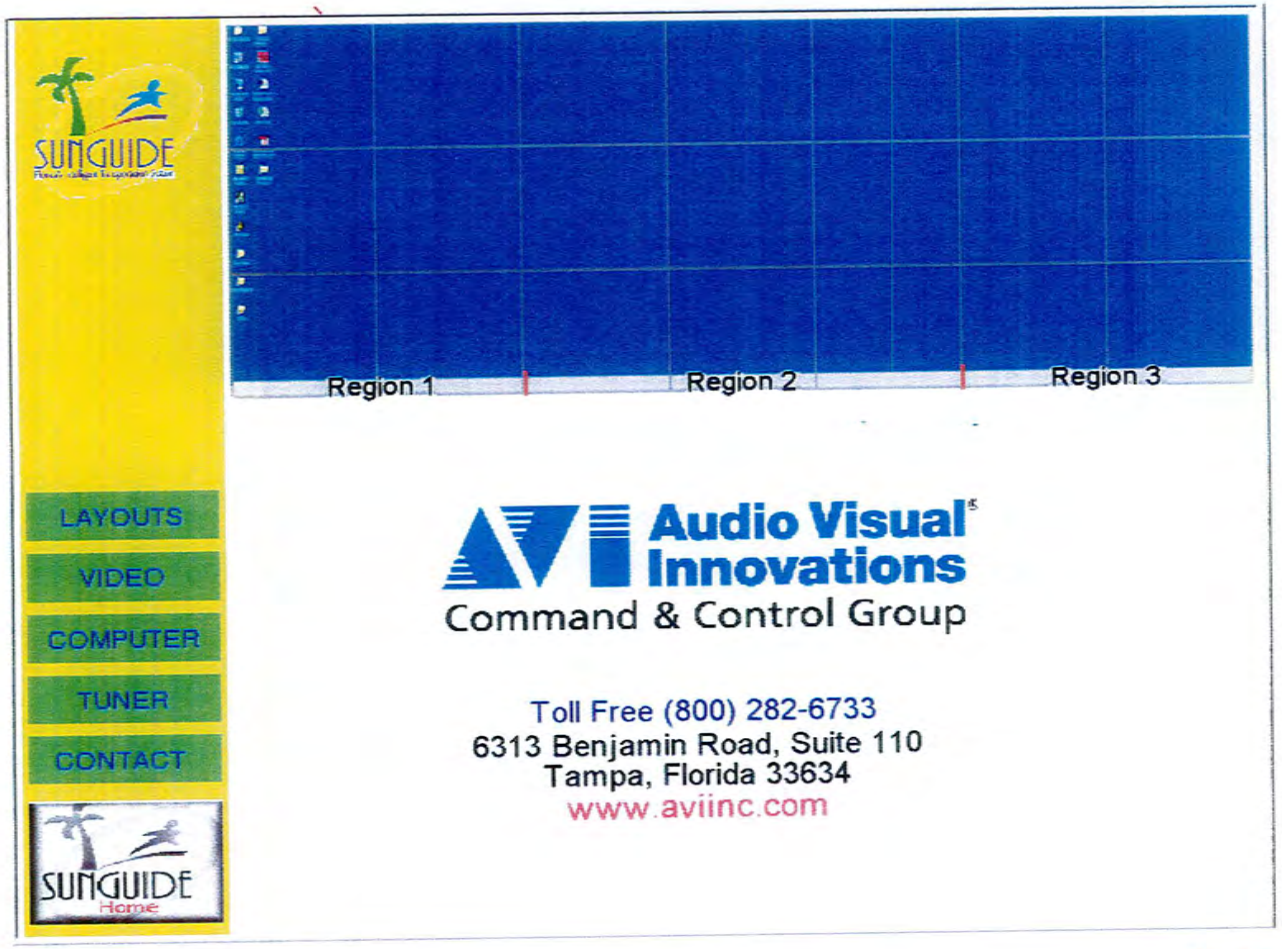
CRESTRON Pages



The Computer page

Audio Visual Innovations
Command & Control Group

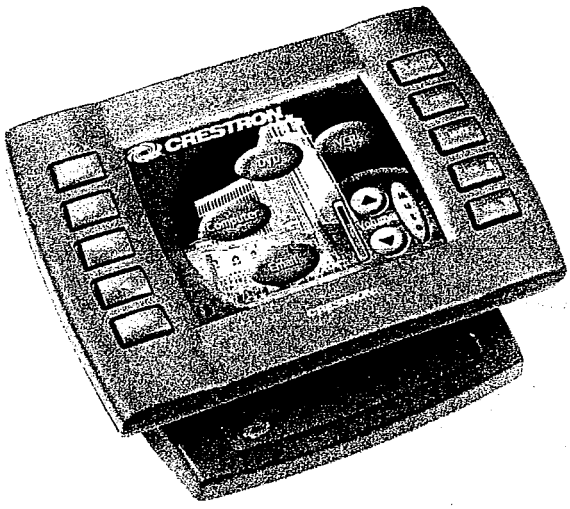
CRESTRON Pages



The Contact page

Audio Visual Innovations
Command & Control Group

Crestron ST-1700C/STX-1700C Wireless Color Touchpanels



The new ST-1700C Series is the latest in Crestron's popular line of wireless touchpanels. The industry's only high-resolution wireless active matrix display, the stunning on-screen quality delivers 64,000 colors, and produces a dazzling high-resolution picture.

In addition to the astounding on-screen 5.7" display, the ST-1700C and STX-1700C go the extra mile with five engraveable push buttons on each side for quick and handy "one-touch" control.

Available in one-way and two-way models, the ST-1700C Series includes a rechargeable battery pack with new long-lasting NiMh batteries and is compatible with the CNRFGWA RF Gateway (one-way version) and STRFGWX RF Gateway (two-way version). Also included with the ST-1700C Series is a docking station/charger and external power pack.

The popularity of these new dynamic touchpanels is in their ability to integrate entire automation systems into one ergonomically sound, handheld, lightweight model. The ST-1700C Series of wireless panels feature Crestron's advanced RF technology that allows the user to roam around without ever needing to point it at any device.

The ST-1700C Series is part of the complete line of Crestron fully integrated control and automation solutions for commercial applications.

Our control and automation solutions are perfect for centralized systems as well as distributed and hybrid systems, either retrofits or new construction. With Crestron, technology is practical and easy to use.

> *Industry's only high-resolution wireless active matrix display*

> *Extraordinary on-screen 5.7" display delivers 64,000 colors*

> *4MB Flash (at least 3MB for user display lists) and 8 MB of SDRAM*

> *Five engraveable push buttons on each side for easy "one touch" control*

> *Comes with long-lasting NiMh batteries*

> *Capatible with the CNRFGWA RF Gateway (one-way) and STRFGWX RF Gateway (two-way)*

> *Components include rechargeable NiMh battery pack, docking station and charger with external power pack*

> *Available in one-way and two-way models*

> *Integrate entire automation systems into one lightweight wireless touchpanel*

CRESTRON

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Crestron ST-1700C/STX-1700C Wireless Color Touchpanels

Touchscreen

Display Type:

5.7" active matrix color display: with 320x240 resolution 16 bit non-palette graphics; 64,000 colors

CPU

63 MIPs Coldfire processor running ISYS generation firmware

Memory

4Mbytes of Flash (at least 3 MB for user display lists)
8Mbytes of SDRAM

Buttons

5 pad printed buttons on each side of the display

Internal Logic

1-way panel executes STS panel local logic (ST-1700C)

Connectors

3 position mini headphone jack for Cresnet/RS-232 Panel Loading 12DC power jack

RF Range

ST-1700C: Up to 300'

STX-1700C: Between 3' and 50' (Indoor)
150' Max(Outdoor)

RF support

1-Way: 434MHzCompatible with CNRFGWA

2-Way: All versions 418MHz, compatible with STRFGWX

Power Requirements

ST-BTP: Rechargeable, high performance NiMh power pack, removable (included) or 110/220V external power supply (included)

ST-DS: Docking Station 12 VDC power pack

Power pack: 12 VDC

Included Components

ST-BTP: Rechargeable NiMh battery pack
(fits in compartment on underside of touchpanel)

ST-DS: Docking station/charger with external power pack

MODEL OPTIONS:

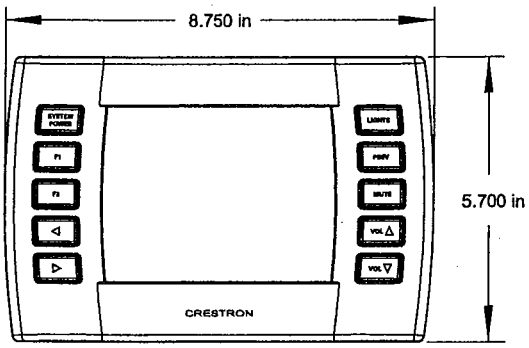
All the features of the ST-1700C with the following exceptions

STI-1700C: International Version

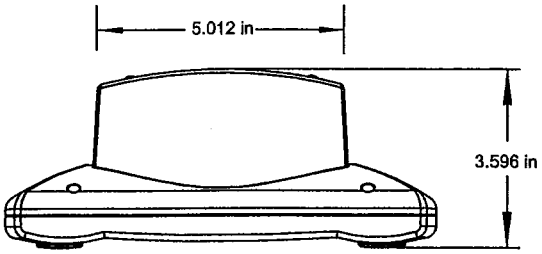
STX-1700C: Two-way Version

STXI-1700C: Two-way International Version

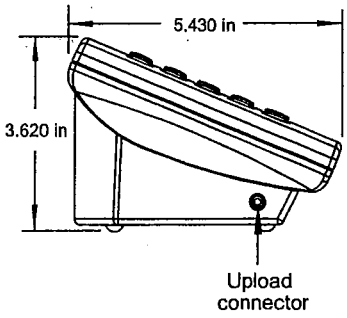
Front View

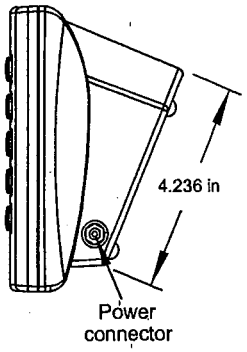


Top View



Side View





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Crestron Electronics, Inc. 15 Volvo Drive • Rockleigh, NJ 07647
Tel: 800.237.2041 / 201.767.3400 • Fax: 201.767.7576 • www.crestron.com

Cover photo montage: Installations by AVWashington, Inc.(www.avwashington.com) and Midwest Visual Communications (www.midwestvisual.com)

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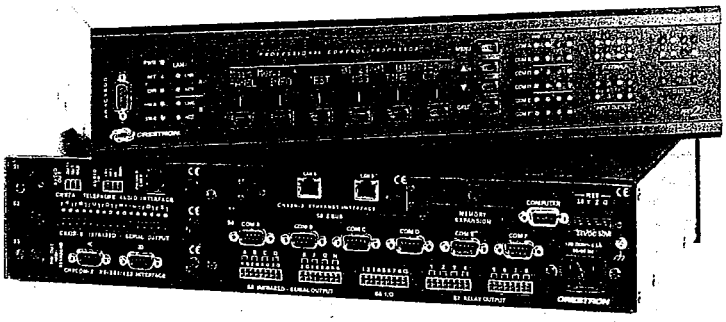
CRESTRON

Crestron PRO2™
Professional Dual Bus Control System



The PRO2 is a completely new solution-driven control and network information system. It's the ideal solution for even the most complex control applications like media help desks, video conferencing, distance learning, and entertainment facilities.

At the heart of the PRO2 is the breakthrough 2-Series Control Engine, based on the hot new 257 MIPS, 32-bit Motorola ColdFire® processor. Onboard 36MB memory is enhanced with a 4GB expansion slot that supports off-the-shelf Type II compact flash memory and the IBM Microdrive® hard disk drive, for on-board storage of program and touchpanel files, room and equipment profiles, upgrades, databases and schedules.

Crestron's unique Dual Bus system, with its high-speed I/O bus architecture, provides blazing fast throughput system wide. This Dual Bus architecture also lets you upgrade to the new higher performance expansion cards, while still using existing cards and software programs. The 40Mb/s Y-Bus supports existing CNX control cards and serves as the pipeline for IR, serial communications and relays. The 300Mb/s Z-Bus is designed for super high speed control card applications, such as 10/100 Ethernet, and future USB, USBII, FireWire, disk drive arrays and more.

The PRO2 with a variety of plug-in 10/100 Ethernet cards provides true secure network communications required by today's corporate networks and the Internet. Using the dual port Ethernet card, a built-in Firewall delivers the ultimate in security, with on-board Network Address Translator (NAT) and Router functions. It supports static IP addressing and full duplex TCP/IP and UDP/IP, and offers a WAN port for Internet and Corporate-wide communications, and a LAN port for Room and AV Private Network use. The built-in Web Server provides the ultimate in help desk functions and uses memory storage on a compact flash card for remote access and control.

The 2-Series real-time operating system is compatible with existing Crestron software and programming. A key feature is the new Crestron Compiler, which allows any existing Crestron SIMPL™ Windows® control program to be easily recompiled for the 2-Series. The real-time, preemptive multi-tasking/multi-threaded operating system offers a FAT32 file system with long file names for easy and open file management. And the enhanced SIMPL+™ instruction set is also fully compatible with existing Crestron SIMPL™ Windows® and SIMPL+™ programs.

With its blinding speed, massive memory and revolutionary Dual Bus architecture, the PRO2 is built from the ground up for high performance, secure Internet communications and Dynamic Expansion Capabilities. Designed for reliability and reinforced by Crestron's True Blue Customer Support, it's part of the complete Crestron line of advanced solutions for audio/video/Internet distribution and control.

CRESTRON

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Crestron PRO2™ Professional Dual Bus Control System

Processor

- **CPU:** 32-bit Motorola 5407 ColdFire® Processor
- **Processing Speed:** 257 MIPS (Dhrystone 2.1 benchmark)

Memory

- **On-board Memory:** 36MB
- **Expandable Memory: Compact Flash slot** (up to 4GB) accessible on rear panel accepts standard Type II Compact Flash or IBM Microdrive®

Dual Bus Architecture

Y-Bus:

- **40 Mb/s parallel communications**
- **IR/Serial ports:** 8 programmable simultaneous outputs for IR, TTL Level RS-232 or serial interface; signal (S) and ground (G) pins; infrared output up to 1.2MHz
- **I/O Versiports:** 8 programmable analog and digital inputs as well as digital outputs
- **Relay ports:** 8 normally open relays, isolated with MOV suppression
- **Communication ports:** 6 bi-directional ports for RS-232/422/485; Ports 1-4 Cresnet Accelerator ready
- **Built-in 3-slot card cage** supports Crestron's existing CNX and 2-Series expansion cards

Z-Bus:

- **300 Mb/s parallel communications**
- **1 expansion card slot.** Optional cards include:
  - **C2ENET-1:** Single Port 10/100 BaseT Ethernet
  - **C2ENET-2:** Dual Port WAN-LAN-10/100 BaseT Ethernet
  - Future Support for USB, USB II, FireWire, Disk Drive Array

Computer console

1 RS-232 port (accessible from front or rear panel), 9-pin DB9 for programming with a PC

Cresnet port

1 4-pin male connector, expandable via optional Cresnet Network Accelerator, which increases the effective network speed, fan-out and device addresses by a factor of 8 for each poll accelerator added to the system.

Ethernet (w/optional C2ENET-1/2)

- **10/100 BaseT Ethernet**
  - Built-in Firewall for ultimate security
  - Dynamic/static IP and full duplex TCP/IP, UDP/IP, SMTP
  - Built-in Router
  - Built-in Network Address Translator (NAT)
  - Built-in Web Server: Memory storage on Compact Flash Card

Operating System

- Real-time, preemptive, multitasking kernal
- Multi-threaded
- FAT32 file system with long names
- Fully compatible with existing SIMPL™ Windows® and SIMPL+™ programs
- Enhanced SIMPL+ instruction set

Screen

Reverse mode (yellow and black) LCD back light; 2 lines, 40 characters per line

Menu Function Buttons

PANEL: Programmable interface offering command text, indirect text, and hierarchical screen structure

INFO: Displays system information including the loaded SIMPL program

MSG: Displays system alarms and error messages

TIME: Permits alterations to system date and time; access code required

COM: Monitors the transmission and reception traffic on each COM port

Menu Selection Buttons

MENU: Returns screen display to menu default state

▲: Advances the current screen display

▼: Returns the current screen display to its previous state

BKLT: Alters screen and LCD brightness

Reset Buttons

HW-R: Performs physical reset of system

SW-R: Restarts SIMPL program

LED Indicators

PWR, NET, ERR, LNK A, ACT A, LNK B, ACT B, COM TXD (A-F), COM RXD (A-F), COM RTS (A-F), COM CTS (A-F), IR-SERIAL (A-H), INPUT-OUTPUT (1-8), RELAY (1-8), SLOT (1-3)

Power Requirements

100-240VAC, 2.4A, 50/60Hz, internal universal power supply

Dimensions

3.47" / 8.81cm (H) x 19.00" / 48.26cm (W) x 9.7" / 24.6cm (D)

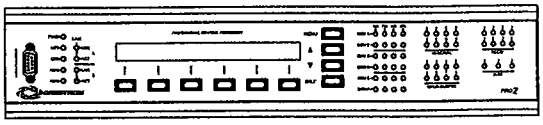
Weight

7.25lb/3.3kg

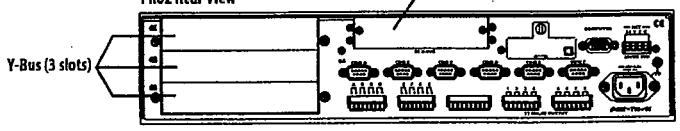
Optional Accessories

Cresnet Network Accelerator: Allows a large number of Cresnet devices to be controlled by a single PRO2 while maintaining a high level of reliability and performance. Connecting to the control processor via a high-speed RS-232 (using built-in COM ports C-F) or Ethernet link, it effectively multiplies Cresnet bandwidth by implementing eight hubs of a Cresnet networks, each operating at full speed.

PRO2 Front View



PRO2 Rear View



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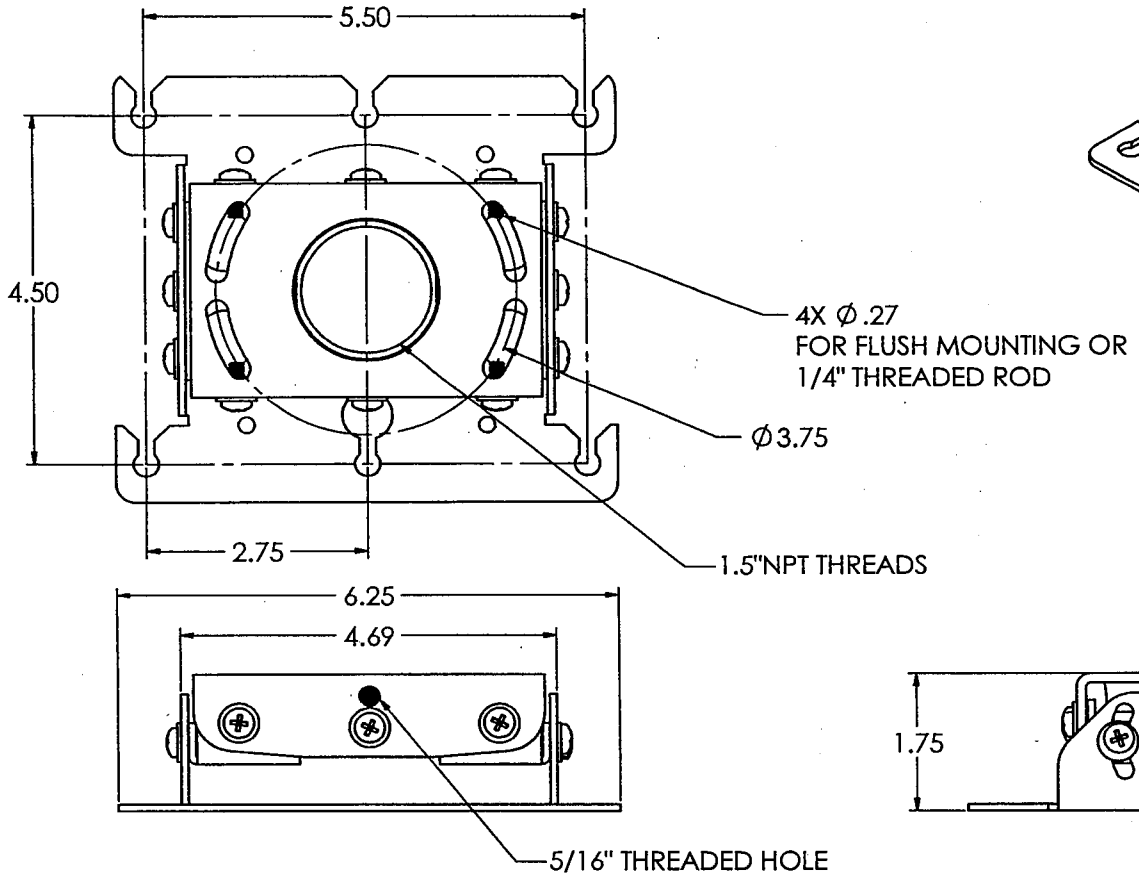
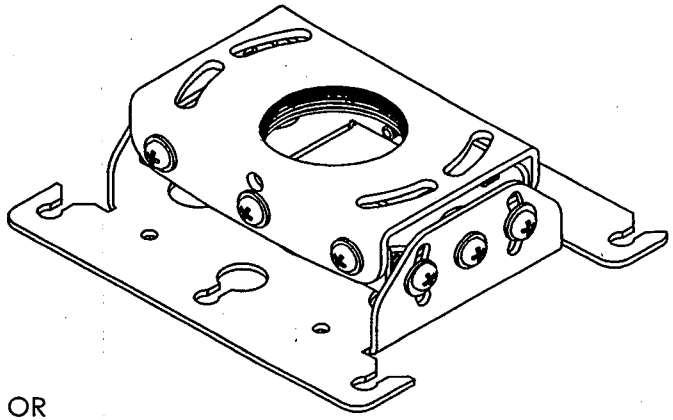
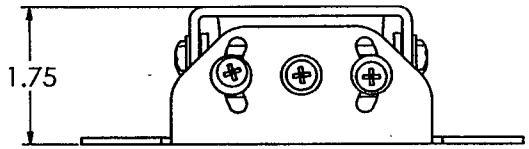
CRESTRON







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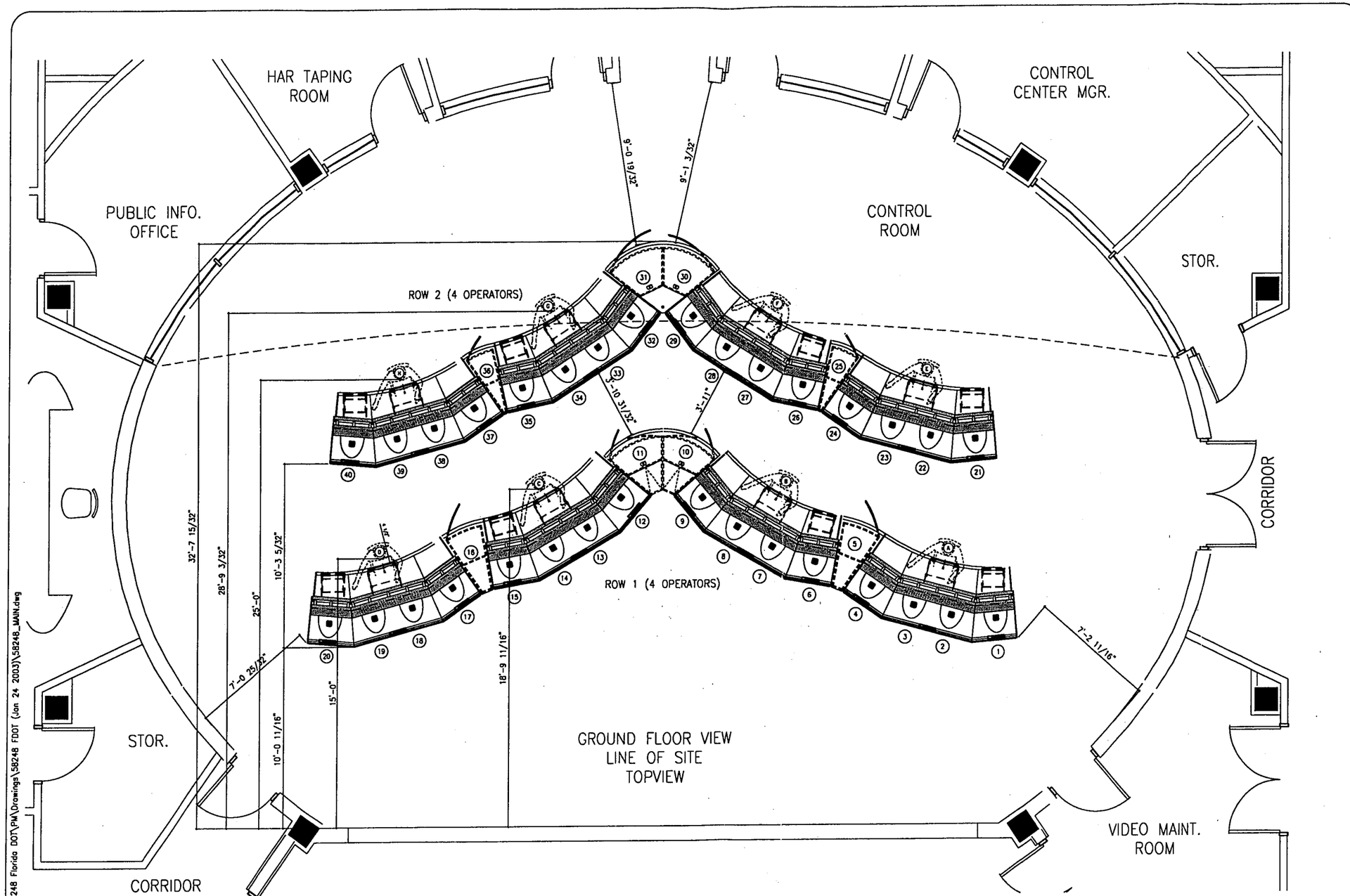

MAIN FLOOR LAYOUT
SCALE: 3/16"=1'-0"

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PRODUCT TYPE	EXTERIOR FINISH
IDP	HPL

NOTES:

ISSUE	REVISIONS	DATE	BY
G	LAYOUT UPDATED	04/16/03	LK
F	REVISE LAYOUT	09/03/02	JS
E	General Revisions	04/09/02	KH
D	CONSOLE REVISIONS	01/10/02	CMH
C	General Revisions	12/11/01	lms
B	REVISE LAYOUT	11/22/01	CMH
A	First release	10/08/01	CMH

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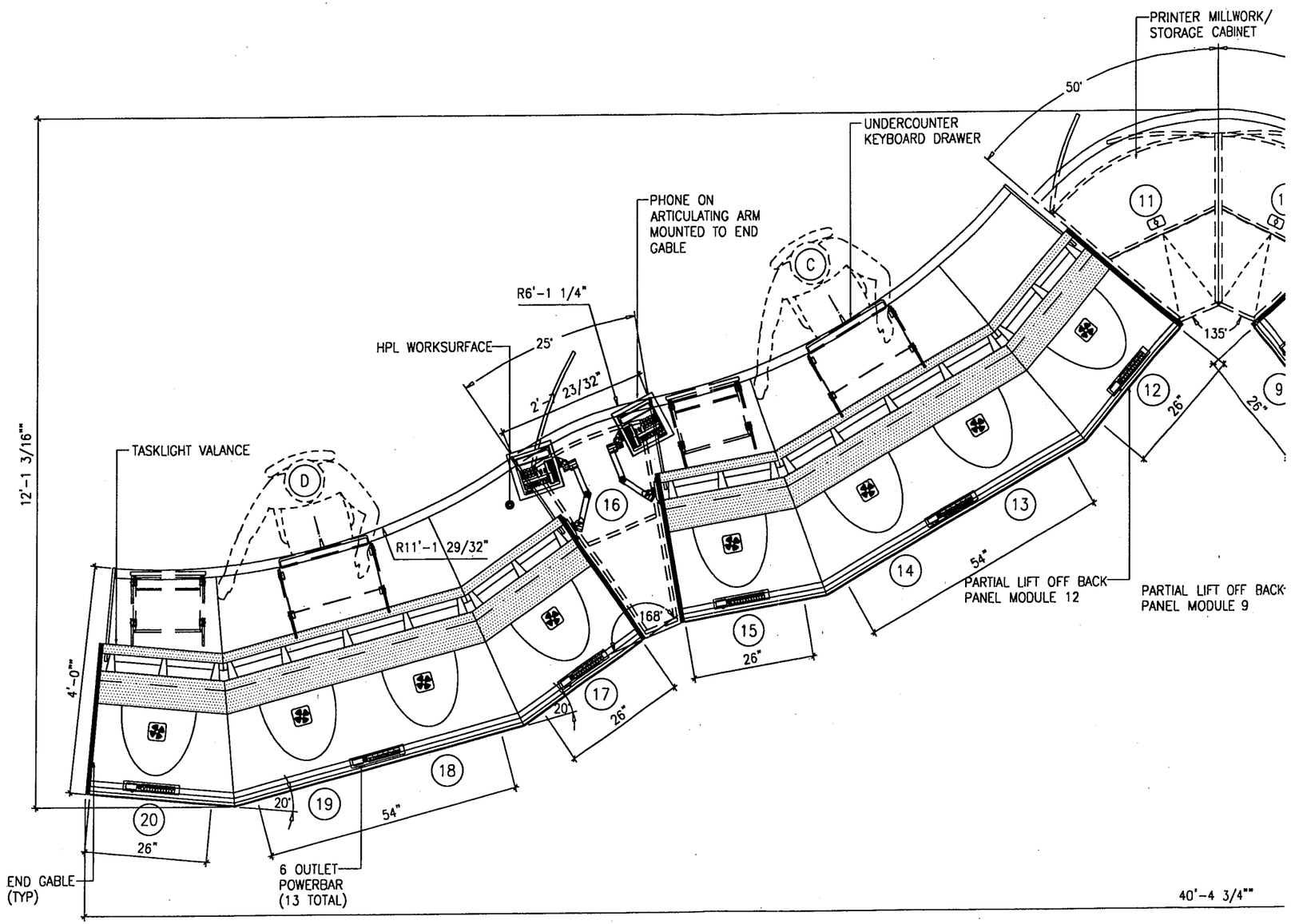
Phone (403) 291 4444 Fax (403) 250 6549
email: info@evansonline.com web: www.evansonline.com

CLIENT/PROJECT
FLORIDA D.O.T.
TAMPA FLORIDA

DRAWING
MAIN FLOOR
CONCEPTUAL CONSOLE LAYOUT

QUOTE ID: U03-00814-00
PROJECT ID: 58248

DATE	DRAWING NO.	REV.
April 9, 02	01	G
DRAWN BY LMS		
CHECKED BY	DRAWING SCALE AS NOTED	



ROW 1 (MODULES 20 -11) - 4 OPERATORS
SCALE: 1/2"=1'-0"

PRODUCT TYPE	EXTERIOR FINISH
IDF	HPL

NOTES:

ISSUE	REVISIONS	DATE	BY
E	REVISIONS	04/29/03	LK
D	UPDATED LAYOUT	04/16/03	LK
C	CONSOLE REVISIONS	01/10/02	CMH
B	REVISED LAYOUT	11/21/01	CMH
A	First release	08/10/01	CMH

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email: info@evansonline.com web: www.evansonline.com

CLIENT/PROJECT

FLORIDA D.O.T.

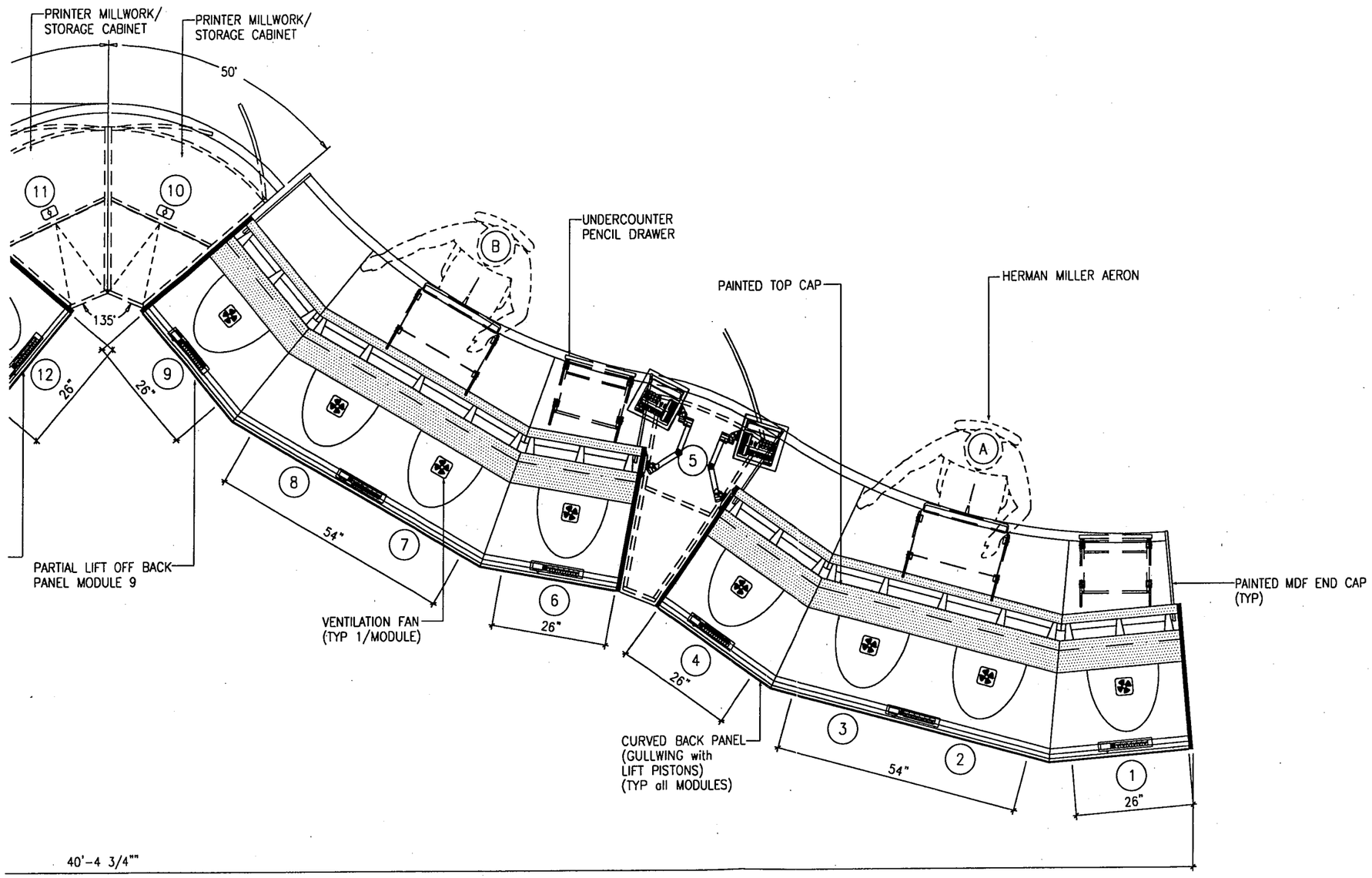
TAMPA FLORIDA

DRAWING

ROW 1 MAIN FLOOR
CONSOLE PLAN (LAYOUT)
MODULES 20-11

QUOTE ID: U03-00814-00
PROJECT ID: 58248

DATE	DRAWING NO.	REV.
10/08/01	02	E
DRAWN BY CMH		
CHECKED BY	DRAWING SCALE AS NOTED	



ROW 1 (MODULES 10 – 1) – 4 OPERATORS
SCALE: 1/2"=1'-0"

PRODUCT TYPE	EXTERIOR FINISH
IDP	HPL

NOTES:

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E	REVISIONS	04/29/03	LK
D	UPDATED LAYOUT	04/16/03	LK
C	CONSOLE REVISIONS	01/10/02	CMH
B	REVISED LAYOUT	11/21/01	CMH
A	First release	08/10/01	CMH

CLIENT AUTHORIZATION FOR PRODUCTION

SIGNATURE DATE

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EVANS
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Phone (403) 291 4444 Fax (403) 250 6549
email: info@evansonline.com web: www.evansonline.com

CLIENT/PROJECT

FLORIDA D.O.T.

TAMPA FLORIDA

DRAWING

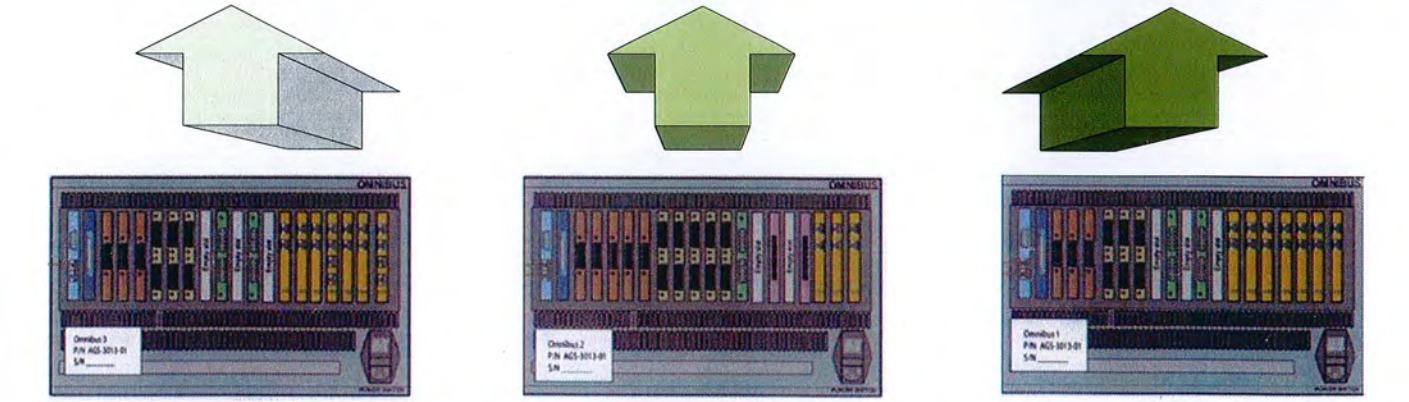
ROW 1 MAIN FLOOR
CONSOLE PLAN (LAYOUT)
MODULES 10–1

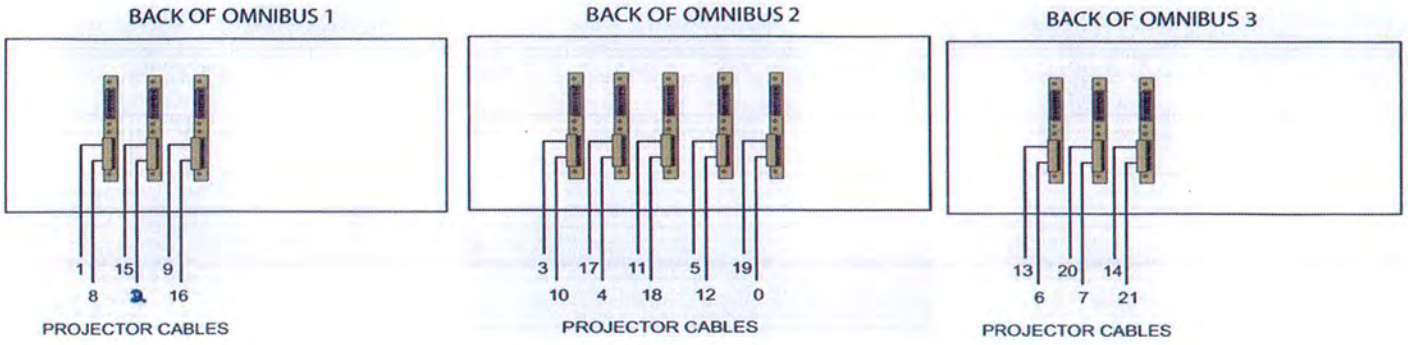
QUOTE ID: U03-00814-00
PROJECT ID: 58248

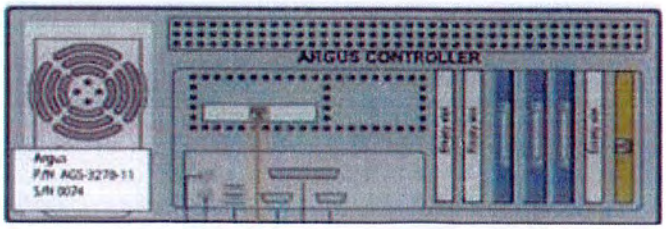
DATE	DRAWING NO.	REV.
10/08/01	03	E
DRAWN BY CMH		
CHECKED BY	DRAWING SCALE AS NOTED	

SunGuide TMC Barco Video Wall Layout

REGION 1		REGION 2			REGION 3	
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21





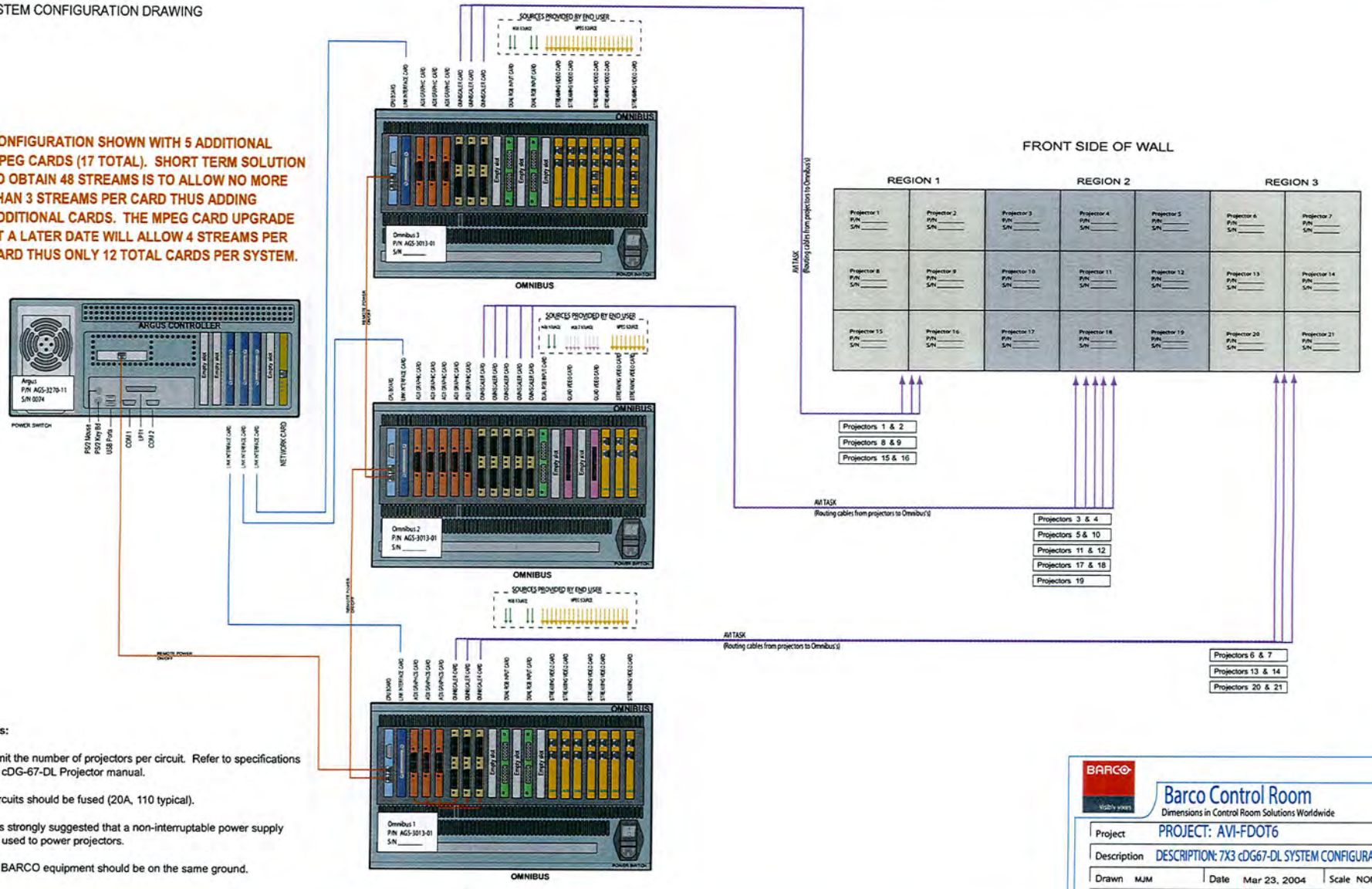


3 2 1

AVI-FDOT6

SYSTEM CONFIGURATION DRAWING

CONFIGURATION SHOWN WITH 5 ADDITIONAL MPEG CARDS (17 TOTAL). SHORT TERM SOLUTION TO OBTAIN 48 STREAMS IS TO ALLOW NO MORE THAN 3 STREAMS PER CARD THUS ADDING ADDITIONAL CARDS. THE MPEG CARD UPGRADE AT A LATER DATE WILL ALLOW 4 STREAMS PER CARD THUS ONLY 12 TOTAL CARDS PER SYSTEM.



Notes:

1) Limit the number of projectors per circuit. Refer to specifications in cDG-67-DL Projector manual.

2) Circuits should be fused (20A, 110 typical).

3) It is strongly suggested that a non-interruptable power supply be used to power projectors.

4) All BARCO equipment should be on the same ground.

BARCO visibly yours

Barco Control Room

Dimensions in Control Room Solutions Worldwide

Project	PROJECT: AVI-FDOT6		
Description	DESCRIPTION: 7X3 cDG67-DL SYSTEM CONFIGURATION		
Drawn MJM	Date Mar 23, 2004	Scale NONE	
Project No. 522256	Sheet SHEET 1 OF 1	Revision F1	

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SUNGUIDE TRANSPORTATION MANAGEMENT CENTER

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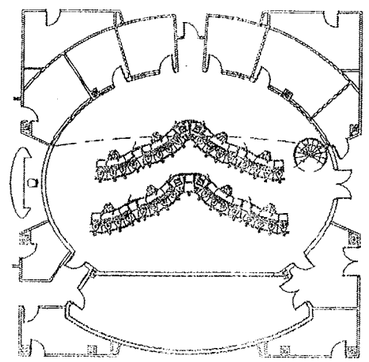

FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT VI

FINANCIAL IDENTIFICATION NUMBER: 250238-2-52-01

PREPARED BY:

AudioVisual Innovations
Command & Control Group

AUDIOVISUAL INNOVATIONS, INC.
6313 BENJAMIN ROAD, SUITE 110
TAMPA, FLORIDA 33634
(813) 884-7168

VIDEO DISPLAY CONTRACTOR

JOB NUMBER: 01-03-2070

TABLE OF CONTENTS

SHEET	DRAWING DESCRIPTION
ES 1.0	VIDEO DISPLAY SYSTEM TITLE PAGE
ES 2.0	SYSTEM CONNECTIVITY SCHEMATIC
ES 2.1	VIDEO WALL CONNECTIVITY SCHEMATIC
ES 2.2	CONFERENCE ROOM SCHEMATICS
ES 4.0	CONNECTIVITY SCHEDULES
ES 5.0	EQUIPMENT RACK ELEVATIONS

VIDEO DISPLAY SYSTE TITLE PAGE

SCALE: NONE

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NO.	DATE	REVISIONS	BY

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FOR:

SUNGUIDE TMC
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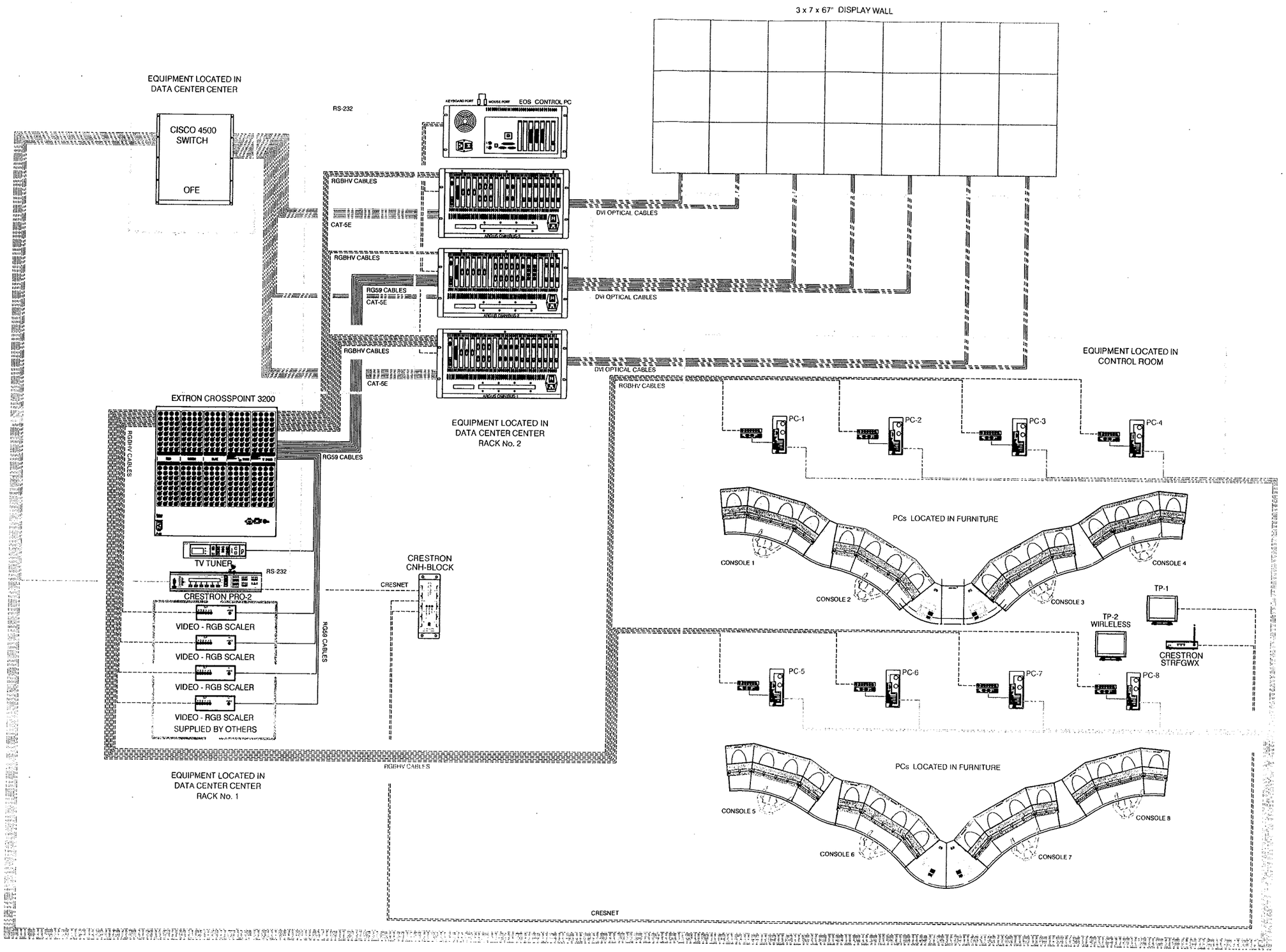
VIDEO DISPLAY SYSTEM TITLE PAGE

SEAL

DATE: July 26, 2004
DRAWN BY: JMA
CHECKED BY: CJL
PROJECT NO.: AVI 01-03-2051
SHEET NO.: **ES-1.0**
SHEET 1 OF 6



SYSTEM CONNECTIVITY SCHEMATIC

SCALE: NONE

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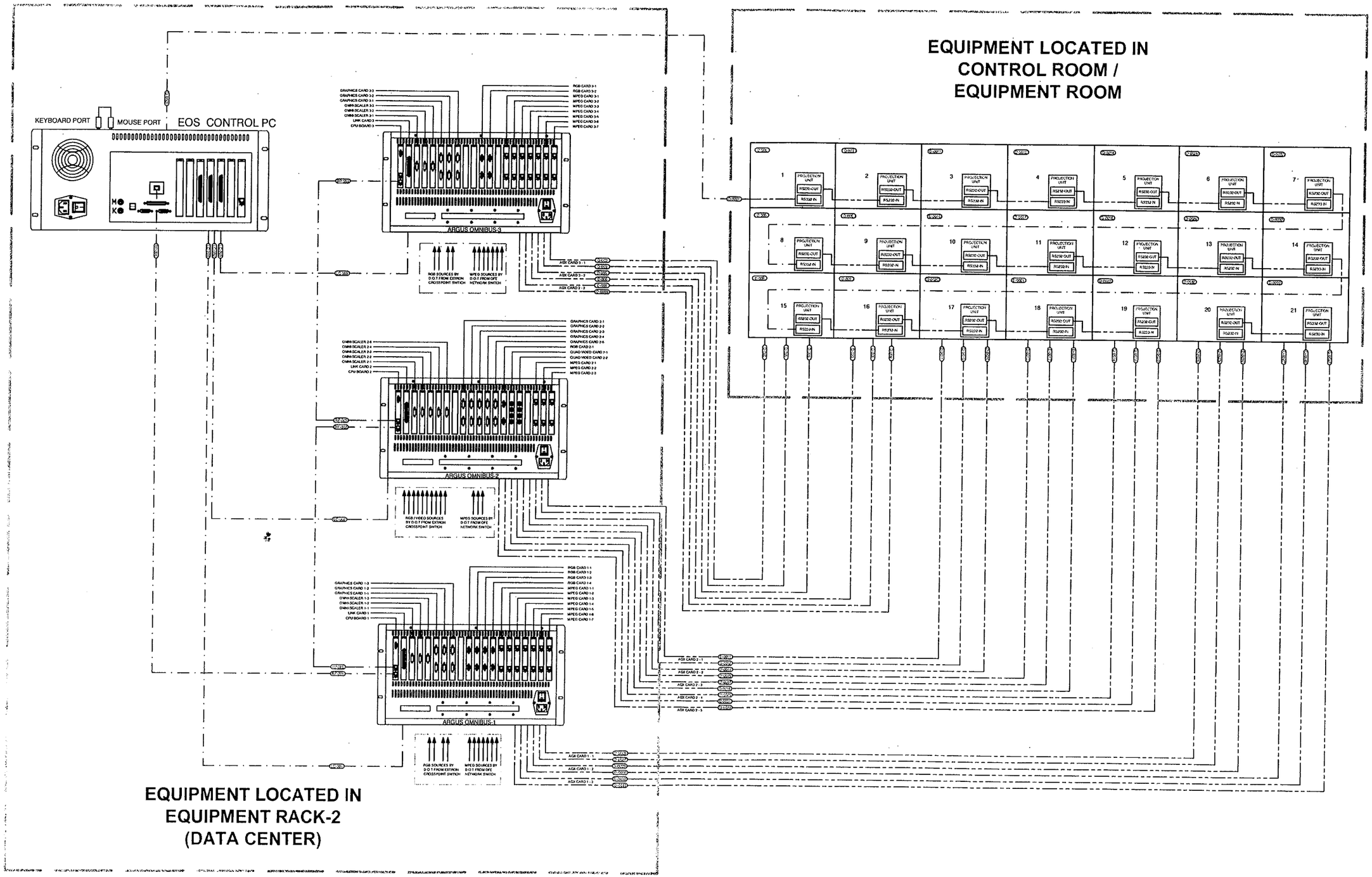
SYSTEM CONNECTIVITY SCHEMATIC

SEAL

DATE	July 26, 2004
DRAWN BY	JMA
CHECKED BY	CJL
PROJECT NO.	AVI 01-03-2051
SHEET NO.	ES-2.0

SHEET 2 OF 6



VIDEO WALL CONNECTIVITY SCHEMATIC

SCALE: NONE

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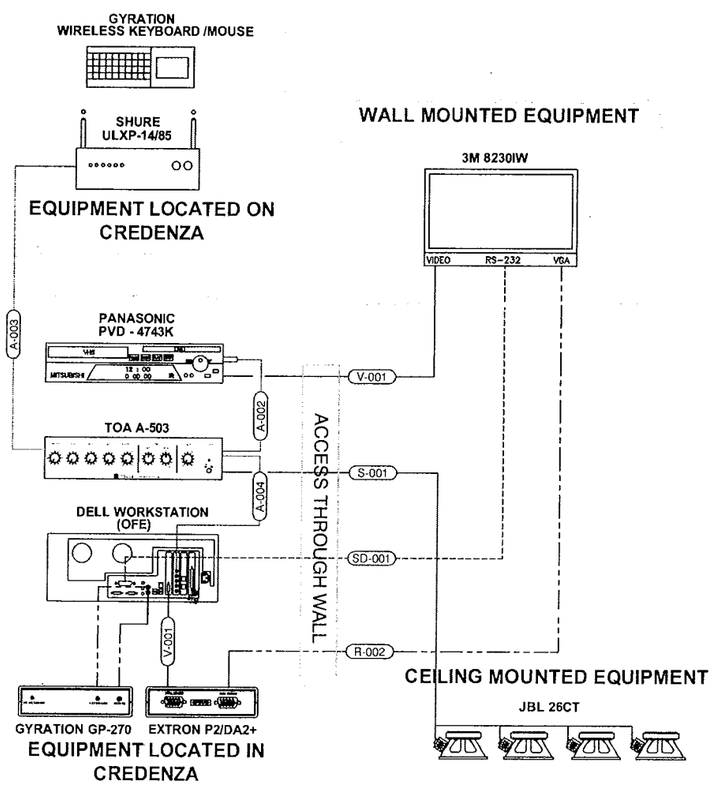
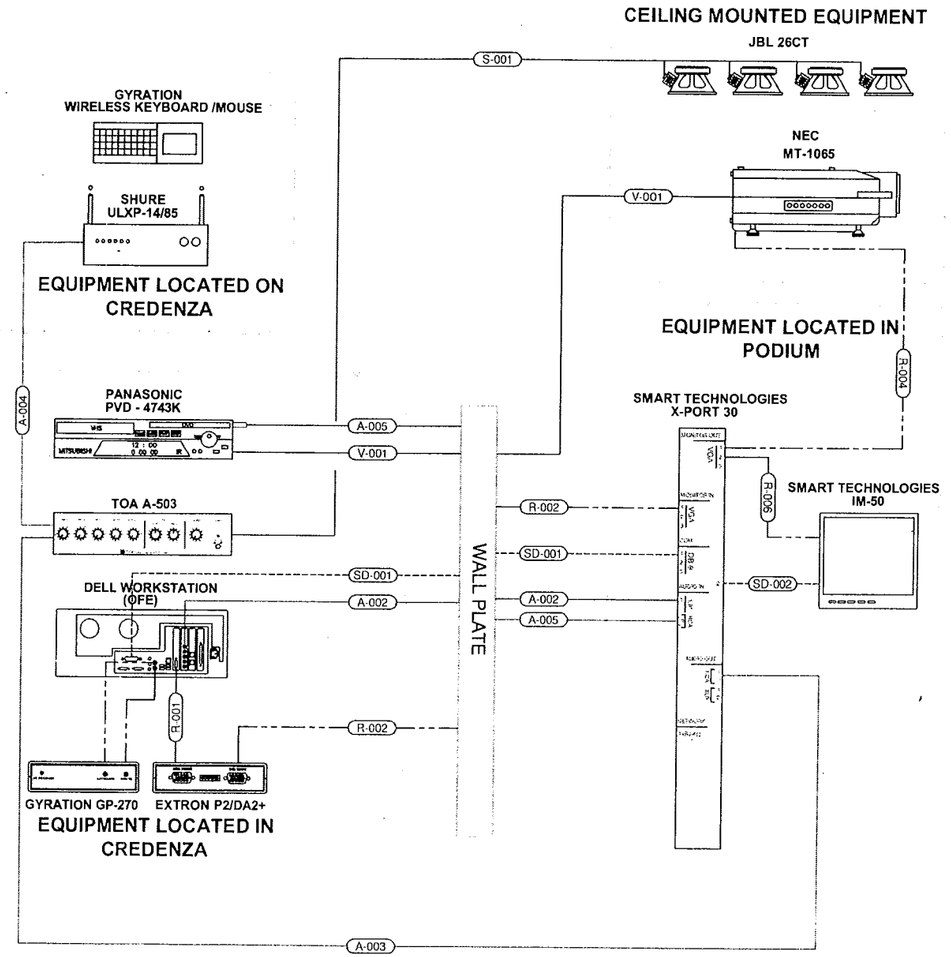
VIDEO WALL CONNECTIVITY SCHEMATIC

SEAL

DATE July 28, 2004
DRAWN BY JMA
CHECKED BY CJL
PROJECT NO. AVI 01-03-2051
SHEET NO. ES-2.1
SHEET 3 OF 6



CONFERENCE ROOM #155



CONFERENCE ROOM #212

CONFERENCE ROOMS SCHEMATICS

SCALE: NONE

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CONFERENCE ROOMS SCHEMATICS

SEAL

DATE	July 28, 2004
DRAWN BY	JMA
CHECKED BY	CJL
PROJECT NO.	AVI 01-03-2051
SHEET NO.	ES-2.2
SHEET 4 OF 6	

EXTRON CROSSPOINT 3200 I/O ASSIGNMENT

INPUTS			OUTPUTS		
NO.	DEVICE / LOCATION	CABLE ID	NO.	DEVICE / LOCATION	CABLE ID
1	PC-1, CONSOLE POSITION-1	R-0001	1	ARGUS OMNI-BUS 3, RGB CARD-1 INPUT 1	R-010
2	PC-2, CONSOLE POSITION-2	R-0002	2	ARGUS OMNI-BUS 3, RGB CARD-1 INPUT 2	R-011
3	PC-3, CONSOLE POSITION-3	R-0003	3	ARGUS OMNI-BUS 3, RGB CARD-2 INPUT 1	R-012
4	PC-4, CONSOLE POSITION-4	R-0004	4	ARGUS OMNI-BUS 3, RGB CARD-2 INPUT 2	R-013
5	PC-5, CONSOLE POSITION-5	R-0005	5	ARGUS OMNI-BUS 2, RGB CARD-1 INPUT 1	R-014
6	PC-6, CONSOLE POSITION-6	R-0006	6	ARGUS OMNI-BUS 2, RGB CARD-1 INPUT 2	R-015
7	PC-7, CONSOLE POSITION-7	R-0007	7	ARGUS OMNI-BUS 1, RGB CARD-1 INPUT 1	R-016
8	PC-8, CONSOLE POSITION-8	R-0008	8	ARGUS OMNI-BUS 1, RGB CARD-1 INPUT 2	R-017
9	PC-9, SECOND LEVEL CONSOLE POSITION	R-0009	9	ARGUS OMNI-BUS 1 RGB CARD-2 INPUT 2	R-018
10	ST-TUNE, RACK-1, DATA CENTER	V-0001	10	ARGUS OMNI-BUS 1, RGB CARD-2 INPUT 2	R-019
11	(OFE) VIDEO / RGB SCALER #1, DATA CENTER	R-0011	11	NOT CONNECTED	N/C
12	(OFE) VIDEO / RGB SCALER #2, DATA CENTER	R-0012	12	NOT CONNECTED	N/C
13	(OFE) VIDEO / RGB SCALER #3, DATA CENTER	R-0013	13	NOT CONNECTED	N/C
14	(OFE) VIDEO / RGB SCALER #4, DATA CENTER	R-0014	14	NOT CONNECTED	N/C
15	NOT CONNECTED	N/C	15	NOT CONNECTED	N/C
16	NOT CONNECTED	N/C	16	NOT CONNECTED	N/C
17	(OFE) FIBER / NTSC CONVERTER-1	V-0001	17	ARGUS OMNI-BUS 2, OUAD-VIDEO-1 INPUT-1	V-001
18	(OFE) FIBER / NTSC CONVERTER-1	V-0002	18	ARGUS OMNI-BUS 2, OUAD-VIDEO-1 INPUT-2	V-002
19	(OFE) FIBER / NTSC CONVERTER-1	V-0003	19	ARGUS OMNI-BUS 2, OUAD-VIDEO-1 INPUT-3	V-003
20	(OFE) FIBER / NTSC CONVERTER-1	V-0004	20	ARGUS OMNI-BUS 2, OUAD-VIDEO-1 INPUT-4	V-004
21	(OFE) FIBER / NTSC CONVERTER-1	V-0005	21	ARGUS OMNI-BUS 2, OUAD-VIDEO-2 INPUT-1	V-005
22	(OFE) FIBER / NTSC CONVERTER-1	V-0006	22	ARGUS OMNI-BUS 2, OUAD-VIDEO-2 INPUT-2	V-006
23	(OFE) FIBER / NTSC CONVERTER-1	V-0007	23	ARGUS OMNI-BUS 2, OUAD-VIDEO-2 INPUT-3	V-007
24	(OFE) FIBER / NTSC CONVERTER-1	V-0008	24	ARGUS OMNI-BUS 2, OUAD-VIDEO-2 INPUT-4	V-008
25	(OFE) FIBER / NTSC CONVERTER-2	V-0009	25	OFE VIDEO / RGB SCALER #1	V-009
26	(OFE) FIBER / NTSC CONVERTER-2	V-0010	26	OFE VIDEO / RGB SCALER #2	V-0010
27	(OFE) FIBER / NTSC CONVERTER-2	V-0011	27	OFE VIDEO / RGB SCALER #3	V-0011
28	(OFE) FIBER / NTSC CONVERTER-2	V-0012	28	OFE VIDEO / RGB SCALER #4	V-0012
29	NOT CONNECTED	N/C	29	NOT CONNECTED	N/C
30	NOT CONNECTED	N/C	30	NOT CONNECTED	N/C
31	NOT CONNECTED	N/C	31	NOT CONNECTED	N/C
32	NOT CONNECTED	N/C	32	NOT CONNECTED	N/C

CRESTRON PRO-2 SLOT / PORT ASSIGNMENT

NO.	PORT TYPE	CONTROLLED DEVICE	DEVICE LOCATION	TYPE	CABLE ID
1	COMMUNICATION PORT	EXTRON CROSSPOINT 3200	RACK-1	DB-9	CC-0001
2	COMMUNICATION PORT	BARCO ARGUS CONTROL PC	RACK-1	DB-9	CC-0002
3	COMMUNICATION PORT	N/C	N/C	N/C	N/C
4	COMMUNICATION PORT	N/C	N/C	N/C	N/C
5	COMMUNICATION PORT	N/C	N/C	N/C	N/C
6	COMMUNICATION PORT	N/C	N/C	N/C	N/C
1	I/R SERIAL PORT	N/C	N/C	N/C	N/C
2	I/R SERIAL PORT	N/C	N/C	N/C	N/C
3	I/R SERIAL PORT	N/C	N/C	N/C	N/C
4	I/R SERIAL PORT	N/C	N/C	N/C	N/C
5	I/R SERIAL PORT	N/C	N/C	N/C	N/C
6	I/R SERIAL PORT	N/C	N/C	N/C	N/C
7	I/R SERIAL PORT	N/C	N/C	N/C	N/C
8	I/R SERIAL PORT	N/C	N/C	N/C	N/C
1	I/O VERSIPORT	N/C	N/C	N/C	N/C
2	I/O VERSIPORT	N/C	N/C	N/C	N/C
3	I/O VERSIPORT	N/C	N/C	N/C	N/C
4	I/O VERSIPORT	N/C	N/C	N/C	N/C
5	I/O VERSIPORT	N/C	N/C	N/C	N/C
6	I/O VERSIPORT	N/C	N/C	N/C	N/C
7	I/O VERSIPORT	N/C	N/C	N/C	N/C
8	I/O VERSIPORT	N/C	N/C	N/C	N/C
1	I/O VERSIPORT	N/C	N/C	N/C	N/C
2	I/O VERSIPORT	N/C	N/C	N/C	N/C
3	I/O VERSIPORT	N/C	N/C	N/C	N/C
4	I/O VERSIPORT	N/C	N/C	N/C	N/C
5	I/O VERSIPORT	N/C	N/C	N/C	N/C
6	I/O VERSIPORT	N/C	N/C	N/C	N/C
7	I/O VERSIPORT	N/C	N/C	N/C	N/C
8	I/O VERSIPORT	N/C	N/C	N/C	N/C
1	RELAY PORT	N/C	N/C	N/C	N/C
2	RELAY PORT	N/C	N/C	N/C	N/C
3	RELAY PORT	N/C	N/C	N/C	N/C
4	RELAY PORT	N/C	N/C	N/C	N/C
5	RELAY PORT	N/C	N/C	N/C	N/C
6	RELAY PORT	N/C	N/C	N/C	N/C
7	RELAY PORT	N/C	N/C	N/C	N/C
8	RELAY PORT	N/C	N/C	N/C	N/C
1	COMPUTER CONSOLE	N/C	N/C	N/C	N/CC-XXX
1	CRESNET PORT	CNT-BLOCK	RACK-1	RJ-11	CC-0003
1	10/100 ETHERNET PORT	OFE SWITCH	DATA CENTER	RJ-45	N/A

CONNECTIVITY SCHEDULES

SCALE: NONE

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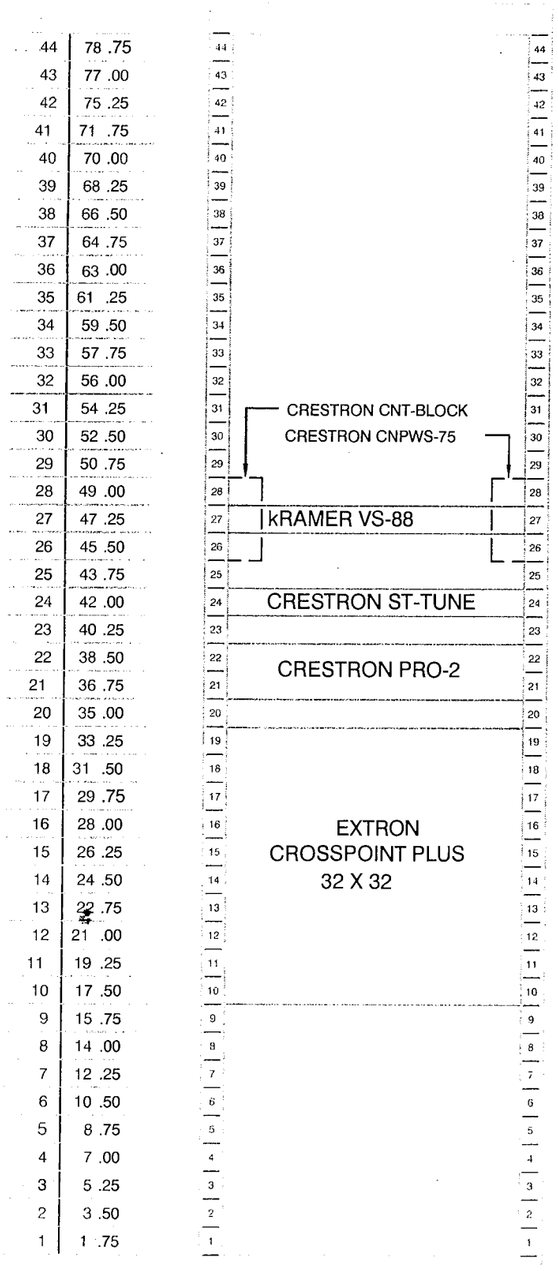
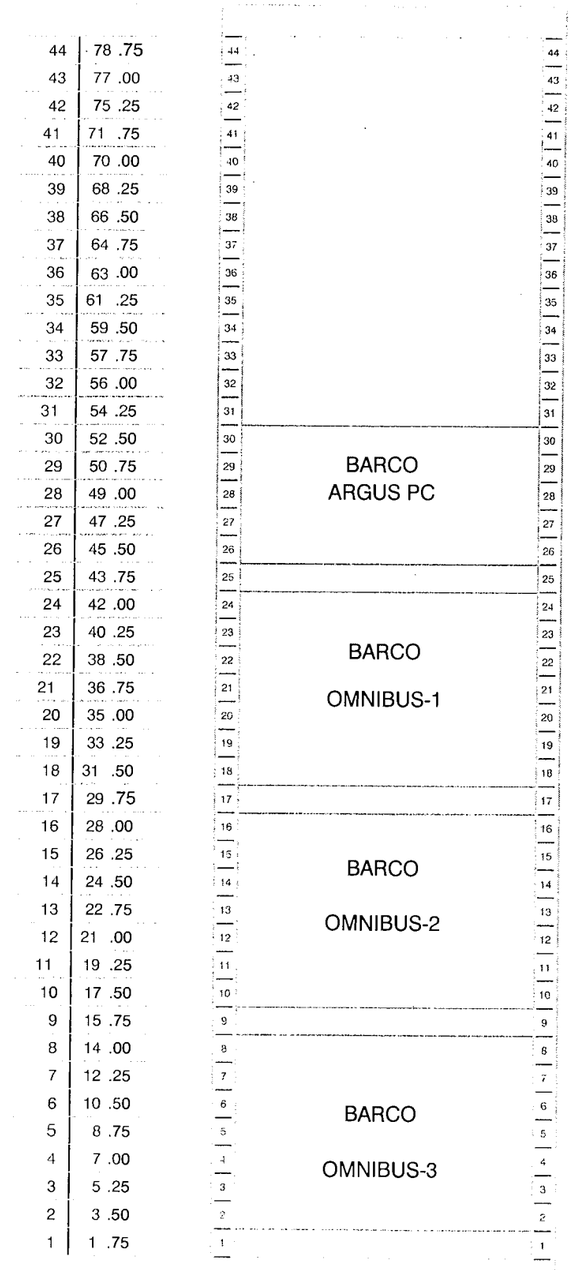
CONNECTIVITY SCHEDULES

SEAL

DATE July 28, 2004
DRAWN BY JMA
CHECKED BY CJL
PROJECT NO. AVI 01-03-2051
SHEET NO. ES-4.0
SHEET 5 OF 6



RACK-1
A/V SWITCHING



RACK-2
PROCESSING RACK

EQUIPMENT RACK ELEVATIONS

SCALE: NONE

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EQUIPMENT RACK ELEVATIONS

SEAL

DATE July 26, 2004
DRAWN BY JMA
CHECKED BY CJL
PROJECT NO. AVI 01-03-2051
SHEET NO. ES-5.0
SHEET 6 OF 6