

CABLE TYPES (NOT ALL CABLES USED IN THIS PROJECT) (USE NON-PLENUM VERSIONS IF APPLICABLE)		
WIRE LABEL	DESCRIPTION	WIRE MANUFACTURER & MODEL NUMBER
A	ANTENNA (ALS OR WIRELESS MIC) CABLE	AS REQUIRED BY MANUFACTURER
C	CONTROL SYSTEM BUS CABLE	CRESTRON CRESNET
CR	CONTROL SYSTEM BUS CABLE/DATA	CRESNET QM
D	DATA (CAT5E) CABLE	AS REQUIRED BY MANUFACTURER
F	CATV CABLE	WEST PENN 841
FR	CATV RISER CABLE	WEST PENN 821
HR	RGBHV	COMPREHENSIVE CVC-RGBHV/HR
L	LINE LEVEL CABLE	WEST PENN 454
M	MICROPHONE CABLE	WEST PENN 454 (COLOR: TBD)
MC	MULTI-CONDUCTOR CONTROL CABLE	MULTI-CONDUCTOR CONTROL CABLE
ML	MISCELLANEOUS CONTROL	WEST PENN AS REQUIRED
SN	MULTIPAIR "SNAKE" CABLE	WEST PENN AS REQUIRED
MS	MICROPHONE CABLE WITH SWITCH PAIR	WEST PENN 357B
P	5 CKT. PRECISION VIDEO CABLE	EXTRON 22-103-02/-03 OR EQUIVALENT BY COMPREHENSIVE
Q	6 CKT. PRECISION VIDEO CABLE	EXTRON 22-130-02/-03 OR EQUIVALENT BY COMPREHENSIVE
S	16/2 LOUDSPEAKER CABLE	WEST PENN 25225B
S0	12/2 LOUDSPEAKER CABLE	WEST PENN 227
S1	14/2 LOUDSPEAKER CABLE	WEST PENN 226
S2	16/2 LOUDSPEAKER CABLE	WEST PENN 225
S3	18/2 LOUDSPEAKER CABLE	WEST PENN 224
SD	1 CIRCUIT DIGITAL VIDEO CABLE	WEST PENN 819
ST	STEREO PAIR LINE LEVEL CABLE	WEST PENN 2452
T	TELEPHONE (CAT3) CABLE	TELEPHONE (CAT3) CABLE
TX	TRIAx CABLE	AS REQUIRED BY OWNER
V	1 CIRCUIT PRECISION VIDEO CABLE	WEST PENN 819
Y	S-VIDEO CABLE	COMPREHENSIVE OR WEST PENN AS REQUIRED

CABLE CONVENTIONS (UTILIZED AS REQUIRED)								
	FUNCTION (AKA)	CABLE	1/4" / PHONE	SCREW	XLR-3	XLR-4	XLR-5	IHF/RCA /PHONO
MICROPHONE/ LINE CABLE (M, L)	LOW (COLD, NEG, RETURN)	BLACK	RING	-	3 (L-)		5 (R)	SHELL
	HIGH (HOT, POS, SIGNAL)	RED	TIP	+	2 (L+)		4 (R+)	TIP
	COM (GND, EARTH, SCREEN)	DRAIN/ SHIELD	SLEEVE		1 / DO NOT CONNECT SHELL			SHELL
STEREO LINE CABLE (PORTABLE)	LEFT LOW (COLD, NEG, RETURN)	RED					3	
	LEFT HIGH (HOT, POS, SIGNAL)	CLR RED					2	
	RIGHT LOW (COLD, NEG, RETURN)	WHT					5	
	RIGHT HIGH (HOT, POS, SIGNAL)	CLR WHT					4	
	COM (GND, EARTH, SCREEN)	DRAIN/ SHIELD					1 / DO NOT CONNECT SHELL	
LOUDSPEAKER CABLE (S, SA)	LOW (NEG, COM, GND)	BLACK	SLEEVE	-				
	HIGH (HOT, POS, SIGNAL)	COLOR	TIP	+				
CONTROL SYSTEM BUS CABLE (C)	+24 VDC	RED	} PAIR 2, #18AWG	24		4		
	GROUND	BLACK		G		1 / DO NOT CONNECT SHELL		
	DATA +	WHITE	} PAIR 1, #22AWG W/SHLD	Y		3		
	DATA -	BLUE		Z		2		
	COM (GND, EARTH, SCREEN)	DRAIN/ SHIELD		G	(ONLY @ PS)		N/C	

LEGEND OF ABBREVIATIONS (ALL MAY NOT BE USED IN THIS PROJECT)	
ABBREVIATIONS	DESCRIPTION/EXPLANATIONS
A/V	AUDIO/VIDEO
ADSP	ADVANCED DIGITAL SYNC PROCESSING
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
BRI	BASIC RATE INTERFACE (ISDN 128Kbps LINE)
CC	CRESTRON CONTROL
CR	CRESNET BUS CABLE
CV	CAMERA CAVITY
DC	DRYWALL CONTRACTOR
DDSP	DIGITAL DISPLAY SYNC PROCESSING
DV	DIGITAL VIDEO DEVICE
EC	ELECTRICAL CONTRACTOR
FB' #	FLOOR BOX
GC	GENERAL CONTRACTOR
HDSDI	HIGH DEFINITION SERIAL DIGITAL INTERFACE
HR	HIGH RESOLUTION
IMUX	INVERSE MULTIPLEXER
I/O	INPUT/OUTPUT
ISDN	INTEGRATED SERVICES DIGITAL NETWORK
L	MONO LINE LEVEL AUDIO
LBC	LAPTOP BREAKOUT CABLE
LBC/A	LAPTOP BREAKOUT CABLE WITH AUDIO
LJ	LIGHTING INTERFACE, TYPICALLY LUTRON SERIAL DEVICE
LVC	DRAPER LOW VOLTAGE SCREEN CONTROL
M	MICROPHONE LEVEL AUDIO
MAC	MACINTOSH DEVICE
MBC	MONITOR BREAKOUT CABLE
MC	MILLWORK CONTRACTOR
MIB	MICROPHONE INPUT BOX
ML	MISCELLANEOUS CABLE AS REQUIRED
MS	MICROPHONE LEVEL AUDIO WITH SWITCH CIRCUIT
OFE	OWNER FURNISHED EQUIPMENT
PC	COMPUTER
R' #	EQUIPMENT RACK
RF	RADIO FREQUENCY
RGB	RED, GREEN, BLUE (SHORT TERM FOR RGB ITEMS BELOW)
RGBHV	RED, GREEN, BLUE, HORIZONTAL, VERTICAL
RGBS	RED, GREEN, BLUE, COMPOSITE SYNC
RGsB	RED, SYNC ON GREEN, BLUE
S' #	SPEAKER & SPEAKER LEVEL CABLE TYPE
SC	LOW VOLTAGE SCREEN CONTROL SWITCH
SDI	SERIAL DIGITAL INTERFACE
SP	MOTORIZED SCREEN POWER & JUNCTION BOX BY EC
ST	STEREO AUDIO
SVID	Y/C VIDEO
SVGA	SUPER VIDEO GRAPHICS ARRAY (800x600)
SXGA	SUPER EXTENDED GRAPHICS ARRAY (1280x1024)
TBD	TO BE DETERMINED
TP	TOUCH PANEL
UTP	SKREW FREE TWISTED PAIR VIDEO CABLE
UXGA	ULTRA EXTENDED GRAPHICS ARRAY (1600x1280)
V	COMPOSITE VIDEO
VTC	VIDEO TELECONFERENCE
VGA	VIDEO GRAPHICS ARRAY (640x480)
WB' #	WALL BOX
XGA	EXTENDED GRAPHICS ARRAY (1024x768)
Y/C	S-VIDEO
Y,CbCr	DIGITAL COMPONENT VIDEO

ITEMS FURNISHED AND INSTALLED BY E.C. (NOT ALL ITEMS APPLY TO THIS PROJECT)	
ITEM	DESCRIPTION
1.	ALL AC POWER AS REQUIRED FOR A/V SYSTEMS EQUIPMENT.
2.	ALL CONDUIT, BREAKER SUB-PANELS, ISOLATED GROUND RECEPTACLES, ISOLATED CIRCUITS, STANDARD CIRCUITS, STANDARD DUPLEX RECEPTACLES, STANDARD BACKBOXES, COVERS, CABLE TRAYS, WIREWAYS AND GROUNDING AS REQUIRED FOR A/V SYSTEM EQUIPMENT RACKS.
3.	ISOLATION TRANSFORMERS AS REQUIRED FOR A/V SYSTEMS.
4.	FIRE ALARM A/V SYSTEM SHUTDOWN RELAY IF REQUIRED.
5.	LIGHTING CONTROL RS232 INTERFACE IF REQUIRED FOR LIGHTING CONTROL. TYPICALLY LUTRON, ETC. THIS DEVICE SHALL BE LOCATED AT THE A/V EQUIPMENT RACK HEADEND.

ITEMS FURNISHED BY EEI - INSTALLED BY E.C. (NOT ALL ITEMS APPLY TO THIS PROJECT)	
ITEM	DESCRIPTION
1.	A/V CEILING SPEAKER BACKCANS.
2.	A/V FLOORBOXES.
3.	CUSTOM A/V WALL BOXES (OTHER THAN STANDARD).

ITEMS FURNISHED BY EEI - INTERFACED TO BY E.C. (NOT ALL ITEMS APPLY TO THIS PROJECT)	
ITEM	DESCRIPTION
1.	A/V MOTORIZED PROJECTOR SCREENS, PLASMA MONITORS, LCD MONITORS, TV'S, VIDEO WALL CUBES, PROJECTOR LIFTS, PLASMA LIFTS, LCD LIFTS, MOTORIZED SHADES - EACH REQUIRES 120VAC BY EC.
2.	A/V CEILING MOUNTED VIDEO PROJECTORS - EACH REQUIRES 120VAC BY EC.
3.	A/V FLOORBOXES - EACH REQUIRES 120VAC DUPLEX RECEPTACLE BY EC FED FROM A/V SUB-PANEL.
4.	A/V EQUIPMENT RACKS, CABINETS, ETC. - EACH REQUIRES 120VAC BY EC - CIRCUIT COUNT AS STATED AND SHOWN ON DRAWINGS FOR EACH RACK. THESE CIRCUITS ARE TYPICALLY ALWAYS FED FROM THE SAME BREAKER SUB-PANEL REGARDLESS OF CIRCUIT/DUPLEX LOCATION IN THE FACILITY. FOR EXAMPLE: A HOUSE MIXER LOCATION IN THE CENTER OF A FACILITY AND THE AMPLIFIER RACK IN THE REAR OF THE FACILITY WOULD RECEIVE AC POWER FROM THE SAME BREAKER PANEL. NO EXCEPTIONS. IT IS ALWAYS PREFERRED TO UTILIZE AN ISOLATION TRANSFORMER FOR A/V SUB-PANEL FEEDS.

ITEMS FURNISHED AND INSTALLED BY OWNER (NOT ALL ITEMS APPLY TO THIS PROJECT)	
ITEM	DESCRIPTION
1.	AIR CONDITIONED A/V EQUIPMENT ROOM AND SPACE AS REQUIRED.
2.	CABLE TV SIGNAL FROM CABLE TV SUPPLIER TO A/V HEADEND LOCATIONS (IF REQUIRED BY A/V SYSTEM).
3.	CUSTOM A/V EQUIPMENT CABINETS UNLESS PURCHASED BY OWNER FROM EEI.
4.	POTS, ISDN, T-1 LINES, IP ADDRESSES, FIREWALL ACCESS, LAN SYSTEM CONNECTIONS - AS REQUIRED FOR A/V TELECONFERENCE SYSTEMS, CRESTRON E-CONTROL, ETC.
5.	CEILING SPEAKER HOLES IN DRYWALL CEILING. OWNER SHOULD CONVEY INFORMATION TO GC.
6.	BACKGROUND MUSIC FEED TO EQUIPMENT RACKS AS REQUIRED. TYPICALLY MUZAK, ETC.
7.	MILLWORK, CONFERENCE ROOM TABLES, CHAIRS, PODIUMS, ETC. (UNLESS PURCHASED AND INSTALLED BY EEI).
8.	HOLES AND CUT-OUTS FOR ALL CONFERENCE ROOM TABLES, PODIUMS, ETC. (UNLESS PURCHASED AND INSTALLED BY EEI).

LEGEND OF SYMBOLS (NOT ALL SYMBOLS USED IN THIS PROJECT)	
SYMBOL	DESCRIPTION
	A/V EQUIPMENT RACK - MIDDLE ATLANTIC MRK-4431 - FREE STANDING ON FLOOR WITH HOFFMAN FLOORBOX LOCATED BELOW
	UNDER FLOOR JBOX - HOFFMAN ASE18X18X4NK
	WALL BOX - HOFFMAN ATC18186F - WITH LOCKING DOOR
	WALL BOX - HOFFMAN ATC18186F WITH LOCKING DOOR
	CAMERA - VADDIO 999-2404-000 - CEILING MOUNTED - DOME VERSION OF THIS CAMERA TO BE PURCHASED WHEN AVAILABLE
	MICROPHONE - BEYER SHM22FSW - CEILING MOUNTED
	SPEAKER - TOA F2852C - CEILING MOUNTED
	PROJECTOR - DIGITAL PROJECTION SYSTEM 12000 SX+ - PROJECTOR MOUNTING SYSTEM
	PROJECTOR - DIGITAL PROJECTION DIVISION SX+ - CEILING MOUNTED WITH 104-087 LENS (2.5-4:1) (CHIEF RPA AS REQUIRED)
	NOTE REFERENCE - REFERS TO A BOX ON ONE OF THE CONDUIT FILL DRAWINGS. 'S' ADJACENT TO NOTE INDICATES FOR SECRET & ABOVE USE ONLY.
	"UNCLASSIFIED" - EQUIPMENT, CONDUIT AND WIRING
	"CLASSIFIED" - EQUIPMENT, CONDUIT AND WIRING

PROJECT

SHEET TITLE

A/V EQUIPMENT LEGEND AND SCHEDULES

DATE: 06-24-05

DRAWN BY: RMH

CHECKED BY: -

REVISIONS

DATE	BY	CK'D
07-10-05	RMH	-
07-20-05	RMH	-
08-19-05	RMH	-
09-16-05	RMH	-
11-03-05	RMH	-

JOB#: XXXX

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