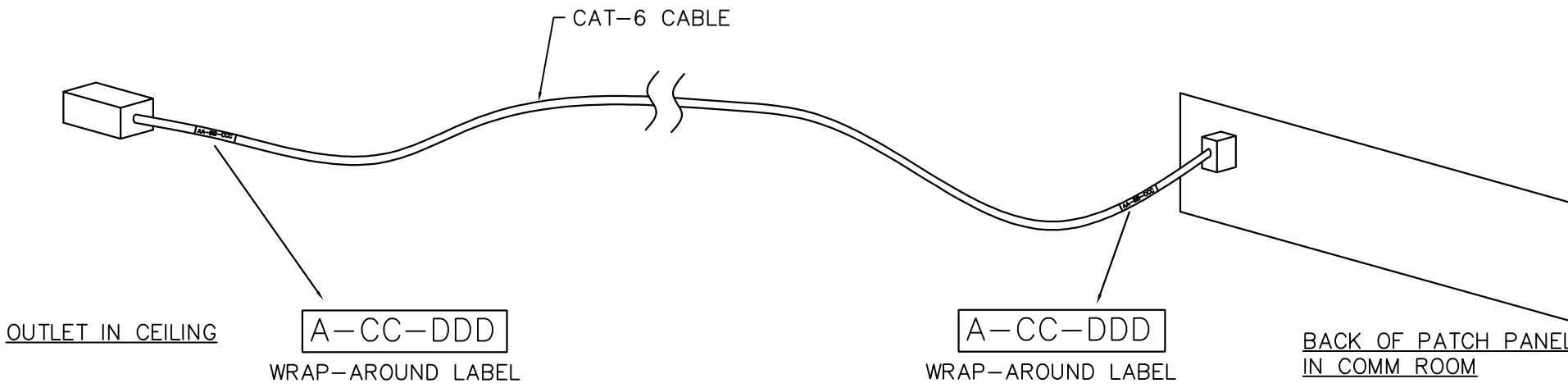


A002 = DOOR NUMBER AS SHOWN ON DRAWINGS
A = COMM ROOM WHERE PANEL RESIDES
LR = TWO LETTER DESIGNATION FOR DEVICE THAT THE CABLE CONNECTS TO.

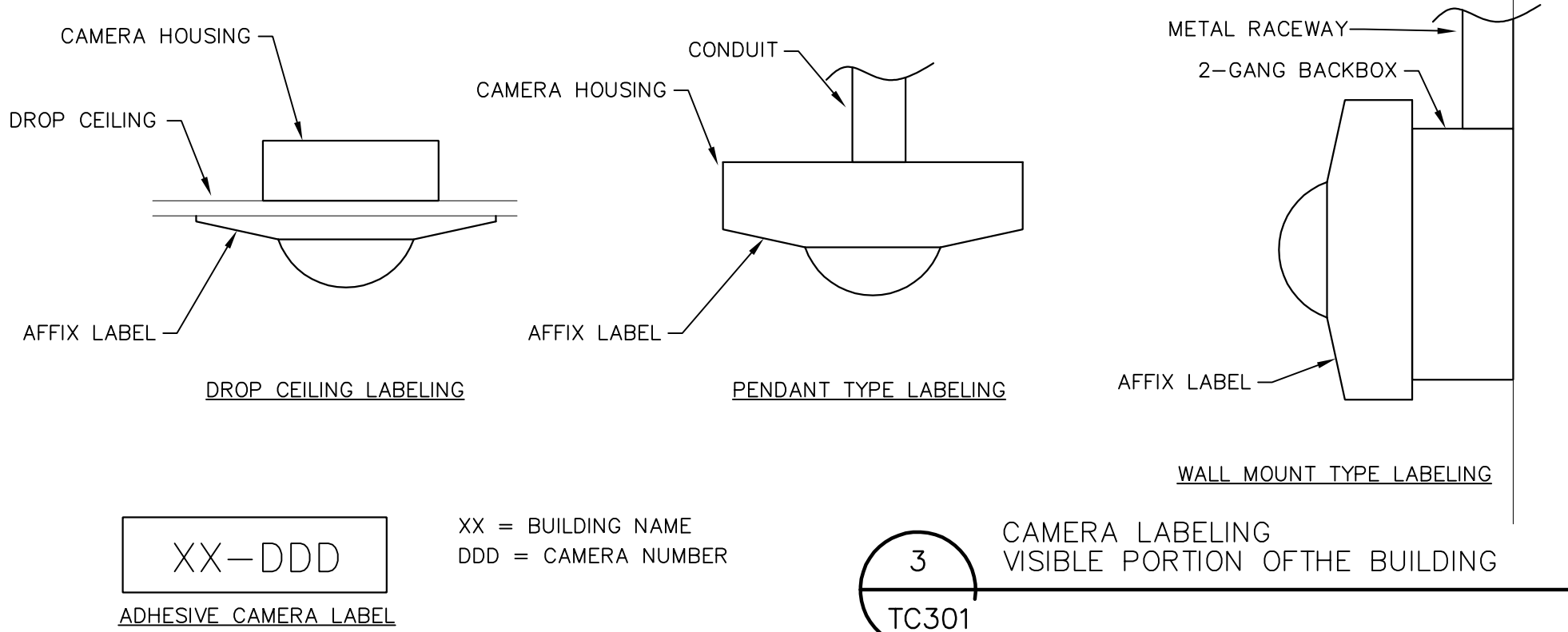
NOTES

1. INSTALL A WRAP-AROUND LABEL AT EACH END OF EACH CABLE.
2. WRAP-AROUND LABELS SHALL BE LASER-PRINTED AND SHALL BE SELF-LAMINATING.
3. AT THE PANEL THE CABLE SHALL BE CONNECTED TO THE PANEL. LABEL INDIVIDUAL SHEATHED CABLES IN A MULTI-SERVICE CABLE.
4. AT THE DOOR INSTALL THE LABEL AT THE DEVICE WHERE IT IS CONNECTED.



NOTES

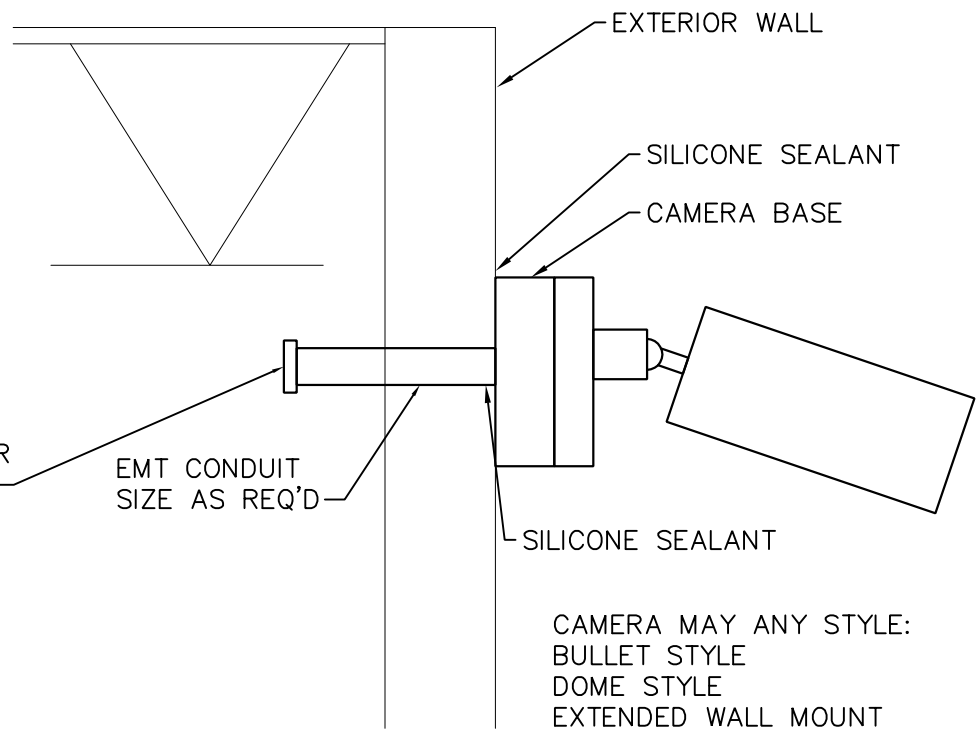
1. INSTALL A WRAP-AROUND LABEL AT EACH END OF EACH CABLE.
 2. WRAP-AROUND LABELS SHALL BE LASER-PRINTED AND SHALL BE SELF-LAMINATING.
- A = COMMUNICATIONS ROOM NUMBER, A, B OR C ETC.
CC = PORT NUMBER ON PATCH PANEL
DDD = CAMERA NUMBER



XX = BUILDING NAME
DDD = CAMERA NUMBER

NOTES

1. CORE THROUGH EXTERIOR WALL TO INSTALL A CONDUIT FROM THE INTERIOR TO THE EXTERIOR CAMERA BACKBOX.
2. CONDUIT SHALL BE NO SMALLER THAN 3/4" TRADE SIZE. INSTALL A NYLON GROMMET ON END OF CONDUIT
3. SEAL AROUND CAMERA BASE WITH CLEAR SILICONE SEALANT. SEAL AROUND CONDUIT ON EXTERIOR WITH SEALANT.
4. ATTACH CAMERA BASE TO THE BUILDING WITH MECHANICAL CONNECTORS.



COMMUNICATION SYMBOL LEGEND

SYMBOL	DESCRIPTION
	COMMUNICATIONS OUTLET IN WALL OR COMBINED POWER SURFACE RACEWAY
	CEILING MOUNTED MICROPHONE ATTACHED TO SECURITY CAMERA. SEE ITEM TH
	EQUIPMENT SCHEDULE SEE COMMUNICATIONS EQUIPMENT SCHEDULE
	CABLE SCHEDULE SEE COMMUNICATIONS CABLE SCHEDULE
	DOOR SECURITY SYMBOL SEE SHEETS TC3XX FOR RACEWAY AND SYSTEM CABLES AND DEVICE REQUIREMENTS. WIRE ALL DOOR SECURITY DEVICES BACK TO THE SECURITY PANEL
	SECURITY CAMERA
	KEYNOTES. REFER TO NOTES ON THE SHEET FOR ADDITIONAL INFORMATION
	SPEAKER Y = SPEAKER TYPE
	VIDEO PROJECTOR LOCATION. SEE DETAILS ABOUT REQUIREMENTS
	PROJECTION SCREEN. XXX DENOTES THE DIAGONAL MEASUREMENT FOR THE SCREEN. 16:10 ASPECT.
	LCD FLAT PANEL DISPLAY. INCLUDE A MOUNT. XX DENOTES DIAGONAL SCREEN MEASUREMENT.
	WIRELESS ACCESS POINT. PROVIDED BY OWNER, INSTALLED BY CABLING CONTRACTOR

THE FOLLOWING SUBSCRIPTS AND ABBREVIATIONS MAY BE USED THROUGHOUT THE DRAWINGS IN ONE OR MORE COMBINATIONS.					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
C-EMT EC PET QTY AWG PBO EC	EMT TYPE CONDUIT ELECTRICAL CONTRACTOR PROTECTED ENTRANCE TERMINAL QUANTITY AMERICAN WIRE GAUGE PROVIDED BY OTHERS ELECTRICAL CONTRACTOR	AFG AFF 2G	ABOVE FINISHED GRADE ABOVE FINISHED FLOOR TWO-GANG BOX -PROVIDED BY EC	PCO-1 PCO-2	PATCH CORD ORGANIZER -1 UNIT HIGH PATCH CORD ORGANIZER -2 UNITS HIGH
		NIC AC	NOT IN CONTRACT ABOVE COUNTER -INSTALL BACKBOX SAME HEIGHT AS OTHER ELECTRICAL OUTLETS ABOVE THE COUNTER.		

COMMUNICATION CABLE SCHEDULE

MARK	DESCRIPTION
1	COAX CABLE FOR SDI VIDEO, BELDEN 1694A OR EQUAL. PLENUM RATED.
2	CAT-6 PLENUM CABLE. PINK FOR WIRELESS ACCESS POINTS. GENERAL CABLE #7131808
3	CAT-6 PLENUM CABLE. GREEN FOR SECURITY CAMERAS. GENERAL CABLE #7131806
4	CAT-6 PLENUM CABLE. BLUE FOR STANDARD DATA CONNECTIONS. GENERAL #7131800
5	CAT-6 PLENUM CABLE. BLUE FOR TELEPHONE CONNECTIONS. GENERAL #7131800
6	12 STRAND MM FIBER OPTIC CABLE. PLENUM RATED INDOOR, 62.5MCRN OCC FIBER #DX0125MLX9QP OR EQUAL
7	6 STRAND MM FIBER OPTIC CABLE, UNDERGROUND RATED, OCC FIBER #DX006DWLX9OR OR EQUAL
8	RG-6 COAX CABLE. PLENUM RATED. BELDEN #9116P OR EQUAL.
9	RG-11 COAX CABLE. PLENUM RATED. BELDEN #1523AP OR EQUAL.
10	100 PR CAT-3 CABLE, PLENUM RATED, GENERAL CABLE #2131758 OR EQUAL.
11	PAGING SPEAKER CABLE, PLENUM RATED. WEST PENN #25224B OR CAT-3 PLENUM FOR SOUND MASKING.
12	LINE LEVEL AUDIO CABLE, PLENUM RATED, BELDEN #1801B OR EQUAL
13	MICROPHONE CABLE, PLENUM RATED. EQUIVALENT TO BELDEN #1192A OR EQUAL.
14	36 STRAND 5M FIBER OPTIC CABLE. OUTDOOR RATED, OCC FIBER #DX036DSL9AKR OR EQUAL.
15	24 STRAND MM FIBER OPTIC CABLE. INDOOR/OUTDOOR RATED, OCC FIBER #DX024KWLX9OP OR EQUAL.
16	MICROPHONE CABLE, PLENUM RATED. WEST PENN #025454 OR EQUAL.

A/V EQUIPMENT SCHEDULE

MARK	MANUFACTURER / INSTALLATION	PROVIDE ONE SPARE FOR OWNER
VA	50" LCD DISPLAY. LG #50LN5200 OR EQUAL.	
VB	PULL OUT SWINGING MOUNT. CHIEF #TS525T OR EQUAL.	
VC	SOUND MASKING GENERATOR/PAGING SYSTEM. CAMBRIDGE #QT-100 OR EQUAL EQUIP WITH RACK MOUNT KIT, CAMBRIDGE #RM-QT	
VD	SPEAKER TYPE 1. IN-CEILING SPEAKER FOR SOUND MASKING, CAMBRIDGE #E-A-W-16 OR EQUAL.	YES
VE	70" LCD DISPLAY. SHARP #LC-70LE650U OR EQUAL	
VF	TILTING WALL MOUNT FOR LCD CHIEF # LSMU OR EQUAL	
VG	SLIDING RACK FOR INSTALLATION INTO THE CABINETRY. SHALL SLIDE OUT FOR ACCESS TO THE EQUIPMENT. EQUIP WITH A FAN. SEE SPECIFICATIONS. RACK SHALL BE MIDDLE ATLANTIC #SRSR-4-28	
VH	FAN IN TOP OF RACK, MIDDLE ATLANTIC #AXS-FAN-K	
VJ	RACK MOUNT POWER STRIP WITH ON/OFF SWITCH ON THE FRONT.	
VK	VIDEO PROJECTOR SHALL BE A MINIMUM OF 3000 ANSI LUMENS. PROJECTOR SHALL BE EPSON #99W OR EQUAL. 1280X800 NATIVE RESOLUTION. WHERE NOTED INSTALL WITH A CEILING MOUNT, CHIEF #CMS440 DOWNPIPE AND PROJECTOR CONNECTOR PLATE CHIEF #RMSA. SOME LOCATIONS ALREADY HAVE A MOUNT.	
VL	AUDIO MIXER/AMPLIFIER. CROWN AUDIO #1160MA	
VM	IN-TABLE CONNECTIVITY BOX WITH HDMI CABLES AND VGA/AUDIO CABLES. SHALL ALSO INCLUDE SPACE FOR DATA CABLES. INSTALL ALL PATCH CABLES AND THE BOX, EXTRON CUBBY #300	
VN	SPEAKER TYPE 2. IN-CEILING SPEAKER SHALL FIT INTO THE DROP CEILING. ELECTROVOICE #C4.2	
VO	RECESSED CEILING MOUNT PROJECTION SCREEN. 109" 16:10. DA-LITE NEW ADVANTAGE ELECTROL #70132LS EQUIP WITH LOW VOLTAGE CONTROLLER AND SCREEN CONTROLLER FACEPLATE.	
VP	AUDIO AND VIDEO SWITCHER SCALER, EQUIP WITH CABLES AS SHOWN. KRAMER #VP-436 OR EQUAL.	
VQ	WIRELESS MICROPHONE PACKAGE SHALL CONSIST OF A RACK-MOUNT RECEIVER, BELTPACK TRANSMITTER, AND A HANDHELD MICROPHONE. KIT SHALL BE AUDIX #W30M3 OR EQUAL.	
VR	PAGING HEADEND SYSTEM. BOGEN PCM2000 OR EQUAL. EQUIP WITH: CONTROL SYSTEM. BOGEN #PCM20M	
VS	TELEPHONE INTERFACE, BOGEN #PCM2M	
	CABLE CUBBY 300S FOR AV AND NETWORK CABLING INTO A TABLE. EXTRON #60-526-01	
	EQUIP WITH POWER OUTLET AND PLATES FOR PASS THRU HDMI, VGA, AUDIO AND NETWORK CABLE.	

CABLING EQUIPMENT SCHEDULE

MARK	MANUFACTURER / INSTALLATION
A	7" TALL ENCLOSED CABINET. 24" X 36" WITH SIDES AND DUAL RAILS INSIDE. CABINET SHALL BE GREAT LAKES CASE AND CABINET #GB840E-2436F. EQUIP ONLY END CABINETS WITH SIDES. EQUIP WITH: INSTALL CABLE LADDER AS SHOWN ON THE DRAWINGS AND AS DESCRIBED IN THE SPECS. AT THE END OF QTY-2. POWER STRIP; #7215-20ARTLP WITH L5-20P PLUG MESH FRONT DOOR #B402E-IM24 LOCKABLE HANDLE, #CH-01 VERTICAL LACING BAR #VLB-8432 VERTICAL CABLE RINGS, 6 ON EACH SIDE OF EACH CABINET #CM-44
B	SINGLE RACK UNIT PATCH CORD ORGANIZER (PCO-1), HUBBELL #HC119ME3N WITH HINGED COVER, HUBBELL #HC219C.
C	TWO RACK UNIT PATCH CORD ORGANIZER (PCO-2), HUBBELL #HC219ME3N WITH HINGED COVER, HUBBELL #HC119C.
D	24 PORT CAT-6 PATCH PANEL. TWO RACK-UNIT HIGH, 19" RACK MOUNTABLE PANEL. SHALL HAVE LABEL FIELDS. EMPTY. EQUIP WITH MINI-COM MODULAR CONNECTORS, CORRECT COLOR. PANDUIT #CPP24WBL. EQUIP WITH ONE (1) REAR ORGANIZER, PANDUIT #SRB1905BL.
E	48 PORT CAT-6 PATCH PANEL. TWO RACK-UNIT HIGH, 19" RACK MOUNTABLE PANEL. SHALL HAVE LABEL FIELDS. EMPTY. EQUIP WITH MINI-COM MODULAR CONNECTORS, CORRECT COLOR. PANDUIT #CPP48WBL. EQUIP WITH TWO (2) REAR ORGANIZERS, PANDUIT #SRB1905BL.
F	RACK MOUNT FIBER PANEL SHALL BE HUBBELL #FPR35P OR EQUAL. PROVIDE EACH FIBER PANEL WITH "ST" SIX OR 12 PACKS AS REQUIRED FOR TERMINATION OF ALL FIBERS. PROVIDE SPLICING TRAY AND SHELF FOR FUSION SPLICING TO PIGTAILS.
G	TELECOMMUNICATIONS GROUND BAR (TGB), 1/4" x 4" x 10" INSULATED GROUND BAR SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR
H	RACK OR WALL MOUNT MULTI-TAP. PROVIDE THE MULTI-TAP WITH INDIVIDUAL TAPS THAT PROVIDE ADEQUATE SIGNAL LEVEL AT EACH USER CABLE. MULTI-TAP SHALL BE TONER #TXMT3H EQUIPPED WITH TAPS.
J	WALL MOUNT CATV AMPLIFIER. AMPLIFY SIGNALS FROM 50 TO 860 MHZ. BLONDER TONGUE BIDA SERIES AMPLIFIERS OR EQUAL.
K	SURFACE MOUNT BOX FOR CAT-6 CABLE AND FIBER OPTIC CONNECTIONS, HUBBELL #SM60W. EQUIP WITH FOUR ST CONNECTORS, HUBBELL #SF5CBK.
L	50 PR. 66, WALL MOUNT PANEL. INCLUDE WALL MOUNT AND BRIDGE CLIPS. HUBBELL #HPW66M150 WITH MOUNT #HPW89D AND BRIDGE CLIPS #HPW66BC100 OR EQUAL.
M	CABLE ROUTING SPOOL, HUBBELL #HPW335PLA OR EQUAL.
N	48 PORT CAT-5E PATCH PANEL FOR VOICE CONNECTIVITY. PANDUIT #DP485E8BTGY
O	FIBER OPTIC SPLICER CASE. SHALL BE LARGE ENOUGH TO SPLICER 36 STRANDS OF FIBER CABLE. PROVIDE ALL FUSION SPLICING TRAYS. SHALL BE SEALED FOR IN-GROUND INSTALLATIONS. 3m #2178-XSB-EG-0T OR EQUAL
P	FIBER OPTIC PANEL FOR CONNECTION OF MULTIPLE FIBERS SHALL BE RACK MOUNTED. FIBER PANEL SHALL SUPPORT UP TO 72 FIBER STRANDS. HUBBELL #FCR3U12SP OR EQUAL
Q	CABINET MOUNT SHELF, GREAT LAKES #7206-FR-A32HD
R	DATA SWITCH FOR ETHERNET DISCONNECTION. DATAPRO #2045 OR EQUAL.
S	FIBER OPTIC PANEL WITH ST. CONNECTORS. HUBBELL #AMO WITH THREE (3) DUPLEX ST. #AMOBST2

SECURITY EQUIPMENT SCHEDULE

MARK	MANUFACTURER / INSTALLATION
SA	INTERIOR INTERCOM/VIDEO UNIT WITH PUSH BUTTON. CONNECT TO THE JUDICIAL ASSISTANTS IN THE JUDGES CHAMBERS. INTERCOM SHALL BE AIPHONE GT SERIES. SHALL INCLUDE: AT ENTRY DOOR: BACKBOX #GF-3B, FRAME #GF-3F. POWER SUPPLY AS REQUIRED. 4-BUTTON PANEL #GT-4P, CALL SWITCH #GT-SW AUDIO MODULE #GT-DA-L, AUDIO PANEL FOR AUDIO MODULE #GT-DP-L VIDEO MODULE #GT-VA, VIDEO PANEL FOR VIDEO MODULE #GT-VP
SB	DESKTOP VIDEO AND AUDIO INTERCOM UNIT. FOR USE IN JUDICIAL ASSISTANTS OFFICE OFFICE STATION #GT-1C
SC	POWER SUPPLY FOR VIDEO AND INTERCOM, AIPHONE #PS-2420UL
SD	BUS CONTROL ADAPTER FOR INTERCOMS. AIPHONE #GT-BC
SE	VIDEO DISTRIBUTION BLOCK, AIPHONE #GT-BC
SF	EXTERIOR RATED INTERCOM. SHALL BE A DIRECT ATTACHED VIDEO AND AUDIO CONNECTED INTERCOM EXTERIOR INTERCOM SHALL BE AIPHONE #JK-DV WITH BACKBOX OR EQUAL.
SG	INTERIOR MASTER STATION AT THE DESK. SHALL INCLUDE RELEASE FOR A DOOR STRIKE. INTERIOR RELEASE SHALL CONNECT TO AUDIO AND VIDEO FROM INTERCOM. AIPHONE #JK-1MD WITH DESK MOUNT 3MRW-SYA OR EQUAL
SH	ACCESS CONTROL SYSTEM DOOR PANEL. INSTALL PANEL AND CONNECT TO OTHER PANELS OR DIRECTLY TO VIDEO SECURITY NETWORK. EXTEND EXISTING SCHLAGE SYSTEM TO THIS BUILDING.
SI	VIDEO SECURITY SERVER WITH VIDEO MANAGEMENT SOFTWARE SYSTEM. SERVER SHALL BE SIZED AS PER THE SPECIFICATIONS. CONNECT TO DATA NETWORK AND FULLY CONFIGURE.
SK	SECURITY MONITORING PC. THIS PC SHALL BE EQUIPPED WITH SOFTWARE THAT ALLOWS DIRECT CONNECTION TO THE NVR AND HAS ANY AND ALL SOFTWARE REQUIRED TO SETUP, CONFIGURE, REVIEW AND COPY/WRITE VIDEO TO A DVD WRITER. PROVIDE MONITOR AND KEYBOARD/MOUSE.
SL	23" LCD MONITOR FOR USE IN VIEWING THE VIDEO SECURITY CAMERAS. SEE LOCATIONS ON THE DRAWINGS. PROVIDE MONITORS BASED ON THE MATRIX VIEWING SOLUTION THAT IS PROPOSED AS PART OF THE BID.
SM	VIDEO SECURITY SERVER OR SERVERS EQUIPPED WITH STORAGE AND SOFTWARE REQUIRED FOR A COMPLETE INSTALLATION
SN	PEDESTAL, VIKING #VE-GNP. MOUNT AT WINDOW HEIGHT. EQUIP WITH WEATHERPROOF BOX, VIKING #VE5XS. EQUIP WITH A STAINLESS STEEL PLATE AND CUT OPENING TO MOUNT STANDARD CARD READER.

SECURITY CAMERA SCHEDULE

MARK	MANUFACTURER / INSTALLATION	PROVIDE ONE SPARE FOR OWNER
TA	INTERIOR IP CAMERA. PROVIDE WITH DROP CEILING, WALL OR PENDANT MOUNT BASED ON THE INSTALLATION TYPE REQUIRED. SHALL HAVE AUDIO INPUT AND BE VANDAL RESISTANT. SONY #ENC-VM601B OR EQUAL	YES QTY: 4
TB	EXTERIOR IP CAMERA. SHALL BE MOUNTED DIRECTLY TO WALL OR SHALL BE EQUIPPED WITH AN EXTENSION MOUNT IF THE VIEW REQUIRED. CAMERA SHALL HAVE HEATER. SONY #SNC-EM632R OR EQUAL.	
TC	WALL MOUNTED INDOOR 180 DEGREE SECURITY CAMERA ARECONT #AV12186DN OR EQUAL. EQUIP WITH A COMPLETE POLE MOUNT KIT. WIRE FROM THE CAMERA TO THE FIBER TO COPPER TRANSCEIVER AND POWER.	YES
TD	WALL MOUNTED EXTERIOR 180 DEGREE SECURITY CAMERA ARECONT #AV20185DN OR EQUAL. EQUIP WITH A COMPLETE POLE MOUNT KIT. WIRE FROM THE CAMERA TO THE FIBER TO COPPER TRANSCEIVER AND POWER.	
TE	CEILING MOUNTED MICROPHONE. MOUNT INTO DROP CEILING OR HARD CEILING AND CONNECT TO INPUT OF CLOSEST CAMERA.	YES
TF	CORNER MOUNTED INDOOR VANDAL PROOF SECURITY CAMERA AXIS #P1343 OR EQUAL. EQUIP WITH CORNER MOUNT, AXIS #24887 OR EQUAL.	YES
TG	ETHERNET SWITCH WITH POE PORTS. SIZED TO SUPPORT ALL SECURITY CAMERAS IN THAT COMM ROOM SWITCHES SHALL BE CISCO 2960S WITH FIBER SFP'S AND POE POWER ON EACH PORT.	YES
TH (MIC)	CEILING MOUNTED MICROPHONE, LOUROE #LE-070 OR EQUAL.	YES