

NOTES:

1. LOCATIONS OF TELECOMMUNICATIONS ROUGH-IN SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOL (▽) ON THE CONTRACT DOCUMENTS.
2. BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS, ALL REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS FOR ACCEPTABLE MANUFACTURERS.
3. INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE CONTRACT DOCUMENTS.
4. ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS AND POWER REQUIRED BECAUSE OF THE T.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER (OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR) SHALL BE INCLUDED IN THE T.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN.
5. UNLESS TRADE RULES DICTATE OTHERWISE.

1. "1/43-T1" INDICATES DETAIL NUMBER / SHEET NUMBER

- _____ NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)
- — — — — NEW WORK UNDERFLOOR OR UNDERGROUND BY THIS CONTRACTOR (DARK LONG DASHED LINE)
- _____ NEW WORK BY OTHERS AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE)
- EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK SHORT DASHED LINE)

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES)

T E C H N I C A L M A T E R I A L L I S T			
THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.			
CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.			
ITEM NO.	SYMBOL	DESCRIPTION	APPROVED MANUFACTURERS
1	SC-TR-1	TECHNOLOGY ROOM, REFER TO PLANS FOR LOCATIONS AND LAYOUT.	-
2	SC-IO-W	INFORMATION OUTLET, WALL MOUNT, 4-PORT COVERPLATE AS INDICATED ON DRAWINGS, REFER TO DETAIL ON 43-78 FOR FIBER CONFIGURATION. " # " INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE PLANS. REFER TO INFORMATION OUTLET SCHEDULE ON 43-78. INSTALL INFORMATION OUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. INSTALL A 1" EMT CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS (PANDUIT CMB OR APPROVED EQUIVA.).	COVERPLATE: PANDUIT CPFEA SERIES JACK: PANDUIT CATE CJ688PT SERIES
3	ETM-1	IP CCTV CAMERA, OUTDOOR RATED, REFER TO CAMERA REQUIREMENTS SCHEDULE ON SCHEDULE ON 43-78 FOR REQUIREMENTS AND ADDITIONAL INFORMATION. REFER TO INFORMATION OUTLET SCHEDULE ON 43-78 FOR CABLE REQUIREMENTS.	-
4	EP-1	EMERGENCY PHONE, SURFACE MOUNT WITH FLASHING BLUE STROBE, SAFETY YELLOW FINISH, ANALOG SPEAKER PHONE WITH SEPARATE EMERGENCY AND INFORMATION CALL BUTTONS. BUTTONS SHALL BE RAISED LETTERING WITH BRNL 24VAC POWER. REFER TO INFORMATION OUTLET SCHEDULE ON 43-78 FOR CABLE REQUIREMENTS.	CODE BLUE CB 2-E COMMENT
6	SC-MPP-1	MODULAR PATCH PANEL, 48 MODULAR RJ-45 TERMINATIONS, MOUNTS DIRECTLY TO EIA/TIA STANDARD 19" RELAY RACK, PORT IDENTIFICATION NUMBERS, PROVIDED WITH COLOR CODING AND LABEL HOLDER KITS, U.L. LISTED, REQUIRES (2) 1.75" MOUNTING SPACES.	PANDUIT CAT 6 DP4688BTQ
7	SC-MPP-1	VOICE PATCH PANEL, BOX-TYPE, 100-PAIR, PROVIDE WITH MOUNTING LEGS AND ALL ACCESSORIES, SEE SPECIFICATIONS. PROVIDE WIRE MANAGEMENT PANEL WITH EACH PATCH PANEL.	PANDUIT
8	SC-FDC-1	OPTICAL FIBER DISTRIBUTION CABINET, HIGH DENSITY, MINIMUM 36 FIBER CAPACITY, PROVIDE WITH CLAMP AND GROUNDING KIT, COUPLING PANELS, LC CONNECTORS, COUPLINGS AND JUMPERS. REQUIRES (1) 1.75" MOUNTING SPACES.	PANDUIT FRME SERIES
9	SC-OPP-1	CABLE PROTECTOR PANEL, 50-PAIR SURGE PROTECTION MODULE, BIX TYPE INPUT TERMINATIONS AND BIX TYPE OUTPUT TERMINATIONS, PROVIDE WITH PLASTIC HOUSING. POPULATE WITH SOLID STATE PROTECTOR UNITS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.	CIRCA
10	SC-HWM-1	HORIZONTAL WIRE MANAGEMENT, 1.5" X 3" PRE-ASSEMBLED, D-RINGS ON FRONT, 1.5" X 5" PRE-ASSEMBLED D-RINGS ON REAR. PROVIDE WITH COVER. REQUIRES (1) 1.75" MOUNTING SPACE.	-
11	SC-ER-1	STANDARD EQUIPMENT RACK, 19" WIDE X 84" HIGH.	PANDUIT
12	SC-TTB-1	TELECOMMUNICATIONS TERMINAL BOARD, 4" X 8" X 3/4" A-C GRADE FIRE-RATED PLYWOOD, EXPOSED SIDE SHALL BE SMOOTH. MOUNT VERTICALLY WITH TOP OF RYWOOD AT 8"6" A.F.F. ON ALL WALLS IN CABLE ROOM.	-
13	SC-UPS-1	SMART UPS 3KVA WITH 120V OUTPUT AND USB PORT INTERFACE. PROVIDES (8) NEMA 5.15R AND (2) NEMA 5.20R OUTLET CONNECTION.	APC SMART UPS 3000VA
14	SC-LR-1	LADDER RACK, 18" W TUBULAR STEEL CONSTRUCTION, RUST RESISTANT ENAMEL FINISH, REMOVE SHARP BURRS FROM LADDER RACK AND REPAINT ALL AREAS THAT HAVE BEEN FIELD MODIFIED, OUT OR EXPOSED, U.L. LISTED.	HOMACO INC. TR10-18 CHATSWORTH PRODUCTS B-U-INE
15	SC-GND-1	WALL-MOUNT GROUND BAR, 4" X 1/2" X 12' L X 1/4" D COPPER, ELECTRICALLY ISOLATED BY INSULATORS INTEGRAL TO MOUNTING BRACKETS. PROVIDE UNIT CONFIGURED WITH SIXTEEN (16) SETS OF 5/16" HOLES SPACED 5/8" ON CENTER TO ACCOMMODATE "A" SPACED TWO-HOLE COMPRESSION LUGS AND THREE (3) SETS OF 7/16" HOLES SPACED 1" ON CENTER TO ACCOMMODATE "C" SPACED TWO-HOLE COMPRESSION LUGS. ANSI/EIA/TIA-607 AND BICSI COMPLIANT. U.L. LISTED. REFER TO 4/43-77 FOR ADDITIONAL INFORMATION.	CHATSWORTH PRODUCTS 40153-012
16	VS-PS-1	CCTV CAMERA POWER SUPPLY, INPUT, 120VAC INPUT, 24/28VAC OUTPUT, AC POWER INDICATOR WITH MASTER ON/OFF SWITCH, INDIVIDUAL OUTPUTS WITH CIRCUIT BREAKER PROTECTION, POWER SUPPLY SIZED AS REQUIRED FOR ALL CAMERAS, PTZ EQUIPMENT, HEATERS/BLOWERS AND MISCELLANEOUS ACCESSORIES ON THE PROJECT, REFER TO SPECIFICATION SECTION 28 23 00 FOR COMPLETE INFORMATION.	ALTRONIX PANASONIC
17	SC-NS-1	RACK MOUNTED 48-PORT SWITCH, PROVIDE ALL REQUIRED GIG CARDS AND PATCH CORDS FOR A COMPLETE TURNKEY INSTALLATION.	CISCO WS-37500-48
18	VS-ARH-1	16-CHANNEL ACTIVE RECEIVER HUB, CONVERTS STANDARD CATEGORY 6 CABLEING TO BNC FOR CONNECTION TO MIX SWITCH OR DVR. PROVIDE AUTOMATIC FAULT PROTECTION.	NVT NV-1672
19	AC-ISC-1	ACCESS CONTROL INTELLIGENT SYSTEM CONTROLLER, PROVIDE WITH ALL REQUIRED CABINETS AND POWER SUPPLIES AND ACCESSORIES FOR A COMPLETE TURN-KEY SYSTEM INSTALLATION.	NITEX
20	AC-RIM-1	ACCESS CONTROL DUAL READER INTERFACE CARD, PROVIDE WITH ALL REQUIRED CABINETS AND POWER SUPPLIES AND ACCESSORIES FOR A COMPLETE TURN-KEY SYSTEM INSTALLATION.	LENEL LNL-2220
21	CR	1250KHZ PROMIDY CARD READER, MULTI COLOR LED LIGHT AND SUPPORTS FORMATS UP TO 85 BITS. WALL MOUNT, FPS 201 COMPLAINT.	HID OR APPROVED EQUAL
22	CSS	ACCESS CONTROL DOOR IDENTIFIER, REFER TO ACCESS CONTROL SCHEDULE ON 43-78, DOOR ROUGH-IN DIAGRAM ON 5/43-77, AND ACCESS CONTROL SERVE DIAGRAM ON 6/43-77 FOR ADDITIONAL INFORMATION.	-
23	VS-PC-1	COMPUTER, TOWER, WINDOWS 7 BASED PC, PROVIDE WITH RACK MOUNTED SHELF.	DELL OPTIPLEX
24	VS-MON-1	42" LCD SECURITY DISPLAY, PROVIDE WITH CABLEING TO VS-PC-1 AND LCD WALL MOUNT.	PELCO 42NB
25	VS-KVM-1	17" SLIDE OUT KEYBOARD VIDEO MONITOR WITH 8-PORT VGA/PS2 KVM, REQUIRES 1RU SPACE, PROVIDE WITH ALL REQUIRED CABLEING.	NTI OR APPROVED EQUAL
26	VS-NVR-1	NETWORK VIDEO RECORDER, PROVIDE SERVER, LICENSES, AND STORAGE FOR A MINIMUM OF 30 DAYS OF STORAGE, CONTRACTOR SHALL ASSUME 7.5 FPS AT FULL RESOLUTION FOR SERVER SPECIFICATIONS AND HARD DRIVE CAPACITY, (S)6 CAMERAS PER NVR.	LENEL ONBOARD VIDEO
27	VS-DH-1	16-CHANNEL, CABLE INTEGRATOR HUB, (16) PORT HUB USED TO DISTRIBUTE VIDEO, DATA AND POWER OVER 4-PAIR CATEGORY 6 CABLEING.	NVT NVT-7160-PB0 NITEX
28	VS-CTX-1 VS-FRX-1	FIBER OPTIC TRANSCEIVER TO SUPPORT RS-485 DATA OVER MULTI-MODE FIBER.	IFS 071315 TRANSITION NETWORKS
29	SC-ER-2	WALL MOUNTED PIVOTING RACK, 500LB WEIGHT CAPACITY, PROVIDE WITH FAN TO EXHAUST AIR, 19" WIDE MOUNTING RAILS, 28 USABLE DEPTH AND 70 HIGH, PROVIDE WITH BLACK POWDER COAT.	MIDDLE ATLANTIC SR-40-28
30	SC-MPP-2	MODULAR PATCH PANEL, 24 MODULAR RJ-45 TERMINATIONS, MOUNTS DIRECTLY TO EIA/TIA STANDARD 19" RELAY RACK, PORT IDENTIFICATION NUMBERS, PROVIDED WITH COLOR CODING AND LABEL HOLDER KITS, U.L. LISTED, REQUIRES (1) 1.75" MOUNTING SPACES.	PANDUIT CAT 6 DP2468BTQ
31	VS-ENC-1	IP VIDEO ENCODER, H.264 AND MPEG6 COMPATIBLE, EACH ENCODER SERVE RACK SHALL RECEIVE (3) 4-PORT ENCODER BLADES (AXX 2430) FOR A TOTAL OF (12) 2 PORT PER RACK.	AXIS 291 SERVER RACK

FINAL CONSTRUCTION DOCUMENTS	06/10/11
100% REVIEW SUBMISSION (NOT FOR CONSTRUCTION)	04/11/11
75% REVIEW SUBMISSION (NOT FOR CONSTRUCTION)	02/03/11
75% REVIEW SUBMISSION (NOT FOR CONSTRUCTION) - COST ESTIMATE	01/18/11
35% REVIEW SUBMISSION (NOT FOR CONSTRUCTION)	11/22/10
Revisions:	Date

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