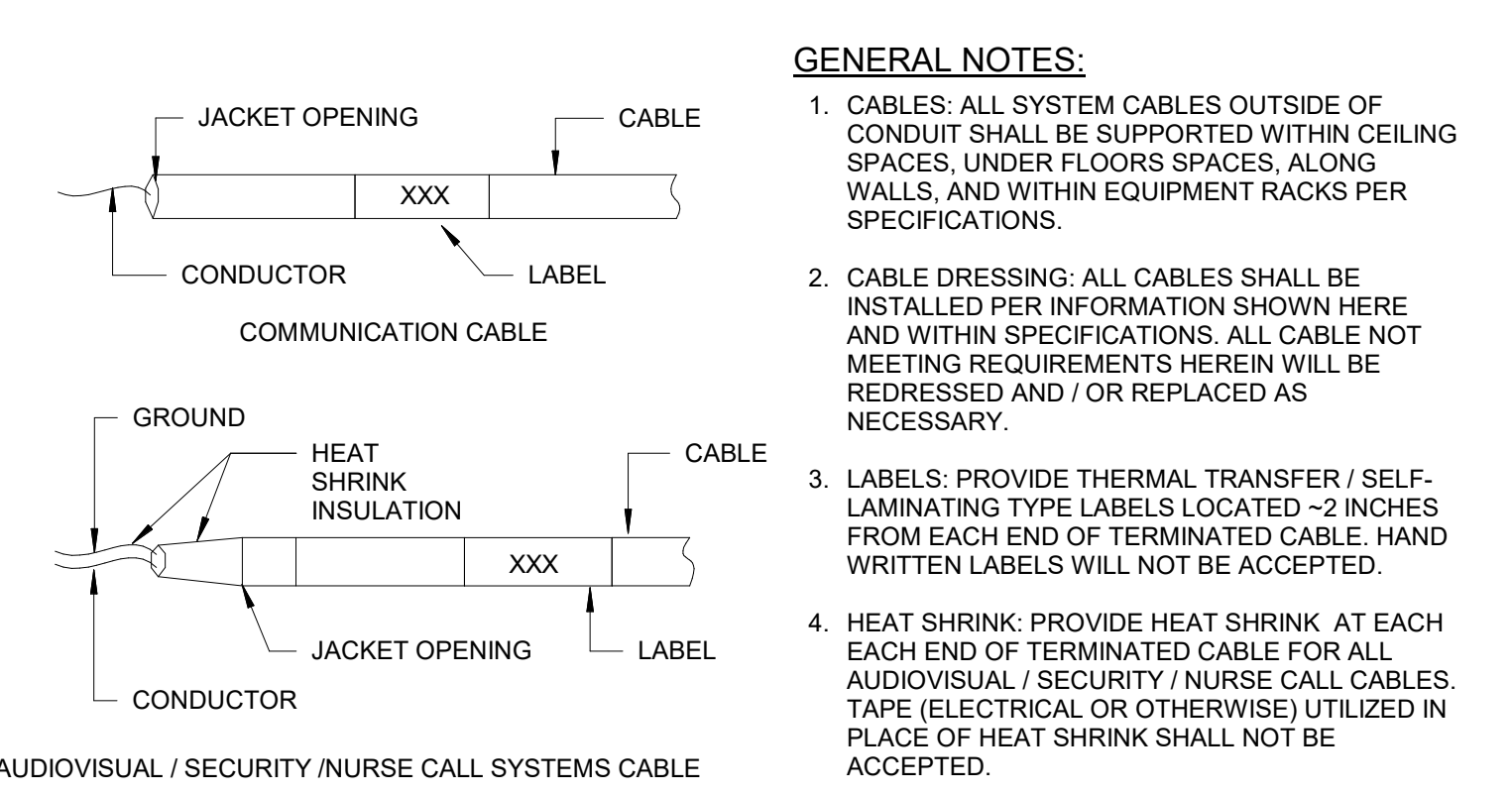


SECURITY SYSTEMS SYMBOLS		
	DETAIL REFERENCE	REFER TO REFERENCED DEVICE DESCRIPTION FOR ADDITIONAL REQUIREMENTS.
LXX #CA1 X-Y	N/A	CAMERA TAG INDICATES CAMERA ID# ("LXX"), CAMERA TYPE AND MOUNTING HEIGHT. REFER TO CAMERA SCHEDULE FOR ADDITIONAL INFORMATION AND DETAIL REFERENCES.
	S.01	FIXED (INTERIOR) SECURITY CAMERA. (REF: CAMERA SCHEDULES)
	S.01	PTZ (INTERIOR) SECURITY CAMERA. (REF: CAMERA SCHEDULES)
	S.01	FIXED (EXTERIOR) SECURITY CAMERA. (REF: CAMERA SCHEDULES)
	S.01	PTZ (EXTERIOR) SECURITY CAMERA. (REF: CAMERA SCHEDULES)
	S.03	CONTROLLED DOORWAY. REFER TO ACCESS CONTROL DOOR SCHEDULE. ("XXX" = ARCHITECTURAL DOOR NUMBER)
	S.03	MONITORED ONLY DOORWAY. REFER TO ACCESS CONTROL DOOR SCHEDULE. ("XXX" = ARCHITECTURAL DOOR NUMBER)
	S.03	PROXIMITY CARD READER MOUNTED AT 48" AFF.
	S.03	KEYPAD / CARD READER MOUNTED AT 48" AFF.
GENERAL NOTES: 1. REFER TO DETAILS AS INDICATED ABOVE FOR ADDITIONAL RACEWAY, CABLING AND/OR DEVICE INFORMATION. 2. REFER TO "COMMUNICATION SYSTEM SYMBOLS" LEGEND FOR STRUCTURED CABLING (DATA) REQUIREMENTS FOR IP-ENABLED DEVICES. SECURITY DETAILS AND/OR SCHEDULES DEFINE RACEWAY REQUIREMENTS, INCLUDING BUT NOT LIMITED TO BACK-BOX TYPE, SIZE, MOUNTING CONDITION AND HEIGHT. PATHWAY REQUIREMENTS: 1. J-HOOK PATHWAY: ROUTE AND TERMINATE CONDUIT WITHIN NEAREST ACCESSIBLE CEILING SPACE. PROVIDE DEDIATED J-HOOKS AT 48-INCHES ON CENTER FOR REMANING CABLE RUN TO NEAREST CABLE TRAY (AS APPLICABLE) OR SECURITY ROOM / TELECOM ROOM. UNLESS NOTED OTHERWISE, PROVIDE CONDUIT PATHWAY THROUGH WALLS AND ACCROSS NON-ACCESSIBLE OR EXPOSED CEILING AREAS TO ENSURE UNOBSTRUCTED CABLE PATHWAY FOR ENTIRE CABLE RUN.		

COMMUNICATIONS SYSTEMS SYMBOLS		
	DETAIL REFERENCE	REFER TO REFERENCED DEVICE DESCRIPTION FOR ADDITIONAL REQUIREMENTS.
"WP"	N/A	WEATHER-PROOF DEVICE COVER (TYPICAL FOR ALL DEVICES INDICATED WITH "WP").
	E.01	TELE/DATA OUTLET(S) FOR ELEVATOR CAB DEVICES (PHONE, CAMERA, VIDEO DISPLAY, ETC.). COORDINATE MOUNTING HEIGHT WITH ELEVATOR INTERFACE PANEL. (# = PORT QUANTITY, NO / # = 1-PORT)
	C.01 / R.01	TELE/DATA OUTLET FOR PHONE, WALL MOUNTED AT 48" AFF. (# = PORT QUANTITY, NO / # = 1-PORT)
	C.02 / R.01	DATA OUTLET WALL MOUNTED AT 18" AFF U.N.O. (# = PORT QUANTITY, NO / # = 1-PORT)
	C.02 / R.01	DATA OUTLET WALL MOUNTED ABOVE COUNTER AT 8" ABOVE COUNTER OR MAXIMUM OF 44" AFF. U.N.O. (# = PORT QUANTITY, NO / # = 1-PORT)
	C.02 / R.01	DATA OUTLET MOUNTED ABOVE ACCESSIBLE CEILING, FLUSH IN HARD CEILING, OR TIGHT TO STRUCTURE OVERHEAD (AT EXPOSED CEILING), U.N.O. (# = PORT QUANTITY, NO / # = 1-PORT)
	C.06 / R.04	DATA OUTLET MOUNTED IN MODULAR FURNITURE. (# = PORT QUANTITY, NO / # = 1-PORT)
	C.02 / R.01	POINT-OF-SALE (POS) DATA OUTLET WALL MOUNTED AT 18" AFF U.N.O. (# = PORT QUANTITY, NO / # = 1-PORT)
	C.05 / R.02	DATA / COAX OUTLET FOR TV / VIDEO DISPLAY WALL MOUNTED WITHIN SHARED BACK-BOX.
	C.05 / R.02	DATA / COAX OUTLET FOR TV / VIDEO DISPLAY CEILING MOUNTED WITHIN SHARED BACK-BOX.
	C.04 / R.01	WIRELESS LAN DATA OUTLET WALL MOUNTED AT 10'-0" AFF. U.N.O. (# = PORT QUANTITY, NO / # = 1-PORT)
	C.04 / R.01	WIRELESS LAN OUTLET MOUNTED ABOVE ACCESSIBLE CEILING, FLUSH IN HARD CEILING, OR TIGHT TO STRUCTURE OVERHEAD (AT EXPOSED CEILING), U.N.O. (# = PORT QUANTITY, NO / # = 1-PORT)
	W.01 / W.02	WIRELESS LAN DATA OUTLET MOUNTED WITHIN NEMA ENCLOSURE MOUNTED TO WALL OR STRUCTURE. (# = PORT QUANTITY, NO / # = 1-PORT)
	C.03 / S.02	DATA OUTLET FOR IP-BASED SECURITY CAMERA WALL OR POLE MOUNTED WITHIN SECURITY CAMERA BACK-BOX.
	C.03 / S.02	DATA OUTLET FOR IP-BASED SECURITY CAMERA CEILING MOUNTED WITHIN SECURITY CAMERA BACK-BOX.
	C.07 / S.02	FIBER OPTIC DATA OUTLET FOR IP-BASED SECURITY CAMERA WALL OR POLE MOUNTED WITHIN SECURITY CAMERA BACK-BOX.
	C.05 / R.05	DATA OUTLET MOUNTED IN SURFACE RACEWAY. (# = PORT QUANTITY, NO / # = 1-PORT)
	C.05 / R.03	DATA OUTLET MOUNTED WITHIN POWER / DATA FLOORBOX (# = PORT QUANTITY, NO / # = 1-PORT)
	C.05 / R.03	DATA OUTLET MOUNTED WITHIN POWER / DATA / AV FLOORBOX (# = PORT QUANTITY, NO / # = 1-PORT)
	C.14	MULTI-PORT DATA DEVICE TERMINATED ON PATCH PANEL MOUNTED IN AV ENCLOSURE. (# = PORT QUANTITY, NO / # = 1-PORT)
GENERAL NOTES: 1. REFER TO DETAILS AS INDICATED ABOVE FOR ADDITIONAL RACEWAY, CABLING AND/OR DEVICE INFORMATION. 2. REFER TO OTHER SYSTEMS DRAWINGS (AV, SECURITY, ETC.) FOR BACK-BOX REQUIREMENTS SPECIFIC TO EACH DEVICE TYPE. SELECT DEVICES MAY REQUIRE SPECIALIZED BACK-BOX TYPES, SIZES AND MOUNTING CONDITIONS AS DEPICTED IN OTHER SYSTEMS DRAWINGS. 3. PROVIDE CAT.6 (1G) UTP CABLE TERMINATED (PER EIA/TIA-T568B) ON CAT.6 OUTLETS AND/OR PATCH PANELS FOR ALL TELE/DATA DEVICES, U.N.O. 4. RG-6 COAXIAL CABLE TERMINATED WITH F-TYPE CONNECTORS FOR COAXIAL DEVICES. PATHWAY REQUIREMENTS: 1. J-HOOK PATHWAY: ROUTE AND TERMINATE CONDUIT WITHIN NEAREST ACCESSIBLE CEILING SPACE. PROVIDE DEDIATED J-HOOKS AT 48-INCHES ON CENTER FOR REMAINING CABLE RUN TO NEAREST CABLE TRAY (AS APPLICABLE) OR TELECOM ROOM / HORIZONTAL CROSS-CONNECT LOCATION, UNLESS NOTED OTHERWISE, PROVIDE CONDUIT PATHWAY THROUGH WALLS AND ACCROSS NON-ACCESSIBLE OR EXPOSED CEILING AREAS TO ENSURE UNOBSTRUCTED CABLE PATHWAY FOR ENTIRE CABLE RUN.		

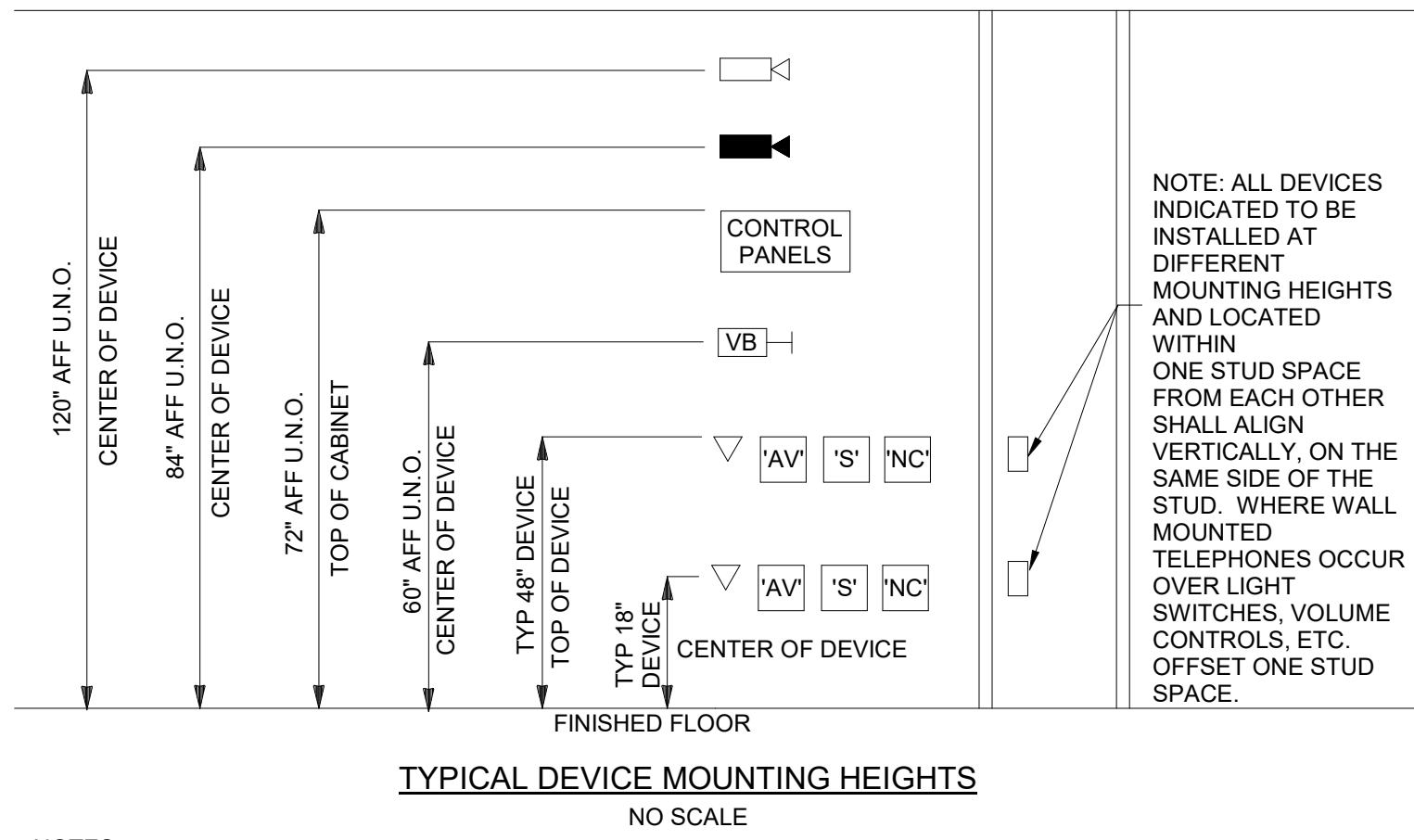
CROSS-CONNECTS		
	DETAIL REFERENCE	REFER TO REFERENCED DEVICE DESCRIPTION FOR ADDITIONAL REQUIREMENTS.
	N/A	TELECOMMUNICATIONS SERVICE PROVIDER CROSS-CONNECT (SP) PROVIDED BY OTHERS. (SHOWN FOR REFERENCE ONLY)
	C.12	TELECOMMUNICATIONS MAIN CROSS-CONNECT (MC).
	C.12	TELECOMMUNICATIONS INTERMEDIATE CROSS-CONNECT (IC).
	C.12	TELECOMMUNICATIONS HORIZONTAL CROSS-CONNECT (HC).
	C.11	FIBER OPTIC DATA SERVICE PROVIDER CROSS-CONNECT (SP) PROVIDED BY OTHERS. (SHOWN FOR REFERENCE ONLY).
	C.11	FIBER OPTIC DATA MAIN CROSS-CONNECT (MC).
	C.11	FIBER OPTIC DATA INTERMEDIATE CROSS-CONNECT (IC).
	C.13	DATA HORIZONTAL CROSS-CONNECT (HC).
	N/A	CABLE OR SAT TV CROSS-CONNECT.
	C.12	TELECOMMUNICATIONS DATA CENTER CROSS-CONNECT.
	C.11	FIBER OPTIC DATA CENTER CROSS-CONNECT (DCC).
	C.11	FIBER OPTIC CAMPUS CROSS-CONNECT (CC).
	C.12	TELECOMMUNICATIONS CAMPUS CROSS-CONNECT.
	C.12	TELECOMMUNICATIONS SERVICE TIE CROSS-CONNECT.
	C.11	FIBER OPTIC SERVICE TIE CROSS-CONNECT.

INFRASTRUCTURE		
	DETAIL REFERENCE	REFER TO REFERENCED DEVICE DESCRIPTION FOR ADDITIONAL REQUIREMENTS.
	R.03	TELE/DATA FURNITURE FEED FLOOR BOX (WITH COVER PLATE AND FLEXIBLE WHIP)
	R.04	TELE/DATA FURNITURE FEED WALL BACK-BOX (WITH COVER PLATE AND FLEXIBLE WHIP) MOUNTED AT 18" AFF.
	R.01	RACEWAY ONLY OUTLET LOCATION MOUNTED AT 18" AFF. U.N.O.
	R.01	RACEWAY ONLY OUTLET LOCATION MOUNTED ABOVE ACCESSIBLE CEILING, FLUSH IN HARD CEILING, OR TIGHT TO STRUCTURE OVERHEAD (AT EXPOSED CEILING), U.N.O.
	G.01	MAIN TELECOMMUNICATIONS GROUND BUS.
	G.02	TELECOMMUNICATIONS GROUND BUS.
	N/A	2-POST EQUIPMENT RACK. (REF: RACK / CABINET SCHEDULES)
	N/A	4-POST EQUIPMENT RACK. (REF: RACK / CABINET SCHEDULES)
	N/A	EQUIPMENT CABINET. (REF: RACK / CABINET SCHEDULES)
	N/A	AV SLIDE-OUT / PIVOT STYLE EQUIPMENT CABINET. (REF: RACK / CABINET SCHEDULES)
	N/A	WALL MOUNTED SWING OUT EQUIPMENT RACK. (REF: RACK / CABINET SCHEDULES)
	N/A	WALL MOUNTED SWING OUT EQUIPMENT CABINET. (REF: RACK / CABINET SCHEDULES)
	N/A	EQUIPMENT RACK OR CABINET PROVIDED BY OTHERS. SHOWN FOR REFERENCE TO ALLOCATE FLOOR SPACE.
	U.02	COMMUNICATIONS MANHOLE.
	U.03	COMMUNICATIONS IN-GRADE HAND HOLE / PULL-BOX.



CABLE DRESS REQUIREMENTS

CABLE DRESS COLOR REQUIREMENTS			
USE	CABLE COLOR	OUTLET TERMINATION	PATCH PANEL TERMINATION
DATA	BLUE	BLUE	BLUE
VOICE	WHITE	BLUE	WHITE
WAP	PURPLE	BLUE	PURPLE
CAM	GREEN	BLUE	GREEN
POS	YELLOW	BLUE	YELLOW



- NOTES:
- MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE
 - CONTRACTOR SHALL ENSURE THAT ALL MOUNTING HEIGHTS COMPLY WITH CURRENT ADA REQUIREMENTS.
 - ALL ABOVE COUNTER DEVICES SHALL BE MOUNTED 8" ABOVE COUNTER OR A MAXIMUM OF 44" AFF (TO TOP OF DEVICE). VERIFY HEIGHTS WITH ARCHITECT.
 - WHERE EVER DEVICES ARE INDICATED TO BE ABOVE DOORS, DEVICE SHALL BE CENTERED BETWEEN TOP OF DOOR TRIM AND CEILING LINE.

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Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT
2021.05.21	BP4D - GONDOLA SQUARE INTERIORS BLDG. A, C AND F - ISSUE FOR PERMIT AND CONSTRUCTION

Seal / Signature

Project Name

Steamboat Base Village
Redevelopment

Project Number

003.7835.000

Description

TECHNOLOGY LEGEND

Scale
NO SCALE

T0.000

ABBREVIATIONS		ABBREVIATIONS		ABBREVIATIONS		GENERAL TECHNOLOGY SYSTEM REQUIREMENTS:	
AC	ALTERNATING CURRENT	GHz	GIGAHERTZ	PA	PUBLIC ADDRESS	1.	HEIGHTS SHOWN ARE TYPICAL TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE. ALL DEVICE OUTLETS SHALL BE MOUNTED VERTICALLY.
ADA	AMERICANS WITH DISABILITIES ACT	GMP	GUARANTEED MAXIMUM PRICE	PABX	PRIVATE AUTOMATIC BRANCH EXCHANGE	2.	MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE.
AFF	ABOVE FINISHED FLOOR	GUI	GRAPHICAL USER INTERFACE	PBX	PRIVATE BRANCH EXCHANGE	3.	ALL DEVICES INDICATED TO BE INSTALLED AT DIFFERENT MOUNTING HEIGHTS AND LOCATED WITHIN ONE STUD SPACE FROM EACH OTHER SHALL ALIGN VERTICALLY, ON THE SAME SIDE OF THE STUD. WHERE WALL MOUNTED TELEPHONES OCCUR OVER LIGHT SWITCHES, VOLUME CONTROLS, ETC. OFFSET ONE STUD SPACE.
AFG	ABOVE FINISHED GRADE	HC	HORIZONTAL CROSS-CONNECT	PCI	PAYMENT CARD INDUSTRY	4.	ALL EXPOSED RACEWAYS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR STRUCTURAL MEMBERS SUCH THAT THEY FOLLOW STRUCTURAL SURFACE CONTOURS AND SHALL BE INSTALLED SUCH THAT THEY DO NOT OBSTRUCT PASSAGEWAYS. MULTIPLE RACEWAYS SHOULD BE INSTALLED GROUDED TOGETHER. THE LOCATION OF THESE RACEWAYS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. (EXTRA TIME SHOULD BE ALLOWED FOR THIS REVIEW AND APPROVAL).
AHU	AIR HANDLING UNIT	HD	HIGH DEFINITION	PE	POLYETHYLENE	5.	ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN POURED CONCRETE, MASONRY, AND GYP WALLS.
ALD	ASSISTED LISTENING DEVICE	HDMI	HIGH DEFINITION MULTIMEDIA INTERFACE	PH	PHONE	6.	DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. ABSOLUTE ACCURACY IS NOT GUARANTEED AND THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO ACTUAL CONDITIONS AT THE BUILDINGS. THE DRAWINGS ARE DIAGRAMMATICAL IN NATURE AND SHALL NOT BE SCALED. HOWEVER THIS DOES NOT RELIEVE ANY SUB-CONTRACTOR FROM COORDINATING HIS WORK WITH ALL OTHER TRADES AND FROM ADJUSTING HIS WORK AS REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING A BID TO BECOME THOROUGHLY FAMILIAR WITH THE ACTUAL CONDITIONS OF THE PROJECT.
ALPETH	ALUMINUM POLYETHYLENE	HVAC	HEATING, VENTILATING, AND AIR-CONDITIONING	POTS	PLAIN OLD TELEPHONE SERVICE	7.	COORDINATE AND ADJUST ALL WORK BETWEEN TRADES AND EXISTING CONDITIONS IN ORDER TO ACCOMPLISH A NEAT, INTEGRATED AND EFFICIENT INSTALLATION WHICH INCLUDE BUT IS NOT LIMITED TO: A. EXAMINE THE CONTRACT DOCUMENTS OF ALL TRADES (IE. THE ARCHITECTURAL REFLECTED CEILING PLAN, MECHANICAL HVAC DRAWINGS, ELECTRICAL LIGHTING PLAN, TECHNOLOGY LAN, FIRE PROTECTION PLAN, ETC.) B. COORDINATE NECESSARY EQUIPMENT, FIXTURES, ETC. SO THAT THE FINAL INSTALLATION IS COMPATIBLE WITH THE MATERIALS AND EQUIPMENT OF THE OTHER TRADES. C. THIS CONTRACTOR SHALL ASSIST THE DIVISION 21, 22, & 23 CONTRACTOR IN PREPARING SHOP DRAWINGS FOR COORDINATING INSTALLATION OF ALL WORK (IE. LOCATING ALL CEILING CLEARANCES, CABLE TRAY, CLEARANCES THROUGHOUT, ETC.).
ALS	ASSISTED LISTENING SYSTEM	HZ	HERTZ	PR	PAIRS	8.	DEFINITIONS: A. "FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO AN ITEM OF EQUIPMENT. B. "INSTALL" MEANS TO "SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER". C. "PROVIDE" MEANS TO "FURNISH AND INSTALL". D. "EQUIVALENT" MEANS "MEETS THE SPECIFICATIONS OF THE REFERENCE PRODUCT OR ITEM IN ALL SIGNIFICANT ASPECTS." SIGNIFICANT ASPECTS SHALL BE DETERMINED BY THE ENGINEER. E. "WORK BY OTHER(S)/CONTRACTORY;" "RE-DIVISION XX" AND SIMILAR EXPRESSIONS MEANS WORK TO BE PERFORMED UNDER THE CONTRACT DOCUMENTS, BUT NOT NECESSARILY UNDER THE DIVISION OR SECTION OF THE WORK ON WHICH THE NOTE APPEARS. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO COORDINATE THE WORK OF THE CONTRACT BETWEEN HISHER SUPPLIERS, SUBCONTRACTORS, AND EMPLOYEES. IF CLARIFICATION IS REQUIRED, CONSULT ARCHITECT BEFORE SUBMITTING BID.
ALT	ALTERNATE	IC	INTERMEDIATE CROSS-CONNECT	PRI	PRIMARY RATE INTERFACE (ISDN)	9.	FUTURE WORK: A. THE DRAWINGS AND SPECIFICATIONS MAY INDICATE SOME WORK WHICH IS TO BE PROVIDED UNDER THIS SCOPE OF WORK BUT WHOSE TIMING MAY BE DIFFERENT THAN THE REST OF THE WORK. THIS WORK GENERALLY FACILITATES THE INSTALLATION OF "TENANT FINISH" WORK OR FOOD SERVICE WORK. IT IS WITHIN THIS DIVISION'S SCOPE OF WORK TO COORDINATE THIS WORK WITH THE WORK OF THE CONTRACTOR PROVIDING THE FUTURE SCOPE OF WORK. 10. "FIRE STOPPING" REQUIREMENT ALL PENETRATIONS THROUGH RATED WALLS AND FLOORS AND CONDUIT/SLEEVE OPENINGS SHALL BE SEALED WITH MATERIAL, CAPABLE OF PREVENTING THE PASSAGE OF FLAMES, HOT GASSES AND SMOKE WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR ALL APPLICABLE CODES. 11. REFER TO ARCHITECTURAL DRAWINGS FOR MINIMUM CLEARANCE REQUIREMENTS TO DUCTWORK, CONDUIT, CABLE TRAY, LIGHTING, ETC. 12. ALL COMMUNICATIONS RACEWAY AND PATHWAYS INCLUDING BUT NOT LIMITED TO CONDUIT, SLEEVES, CABLE TRAY, J-HOOKS SHALL BE INSTALLED TO MINIMIZE UNNECESSARY CABLE LENGTHS AND MAINTAIN INDUSTRY STANDARD LENGTH LIMITATIONS FOR HORIZONTAL CABLE DISTRIBUTION (I.E. CAT 5E AND CAT 6 CAT 6A) NO HORIZONTAL CABLE LENGTH (BASIC LINK) SHALL EXCEED 90 METERS (295 FEET). 13. CONDUIT SLEEVES SHALL BE INSTALLED THROUGH ALL WALLS WHERE CABLING IS ROUTED USING J-HOOKS TO PROVIDE CONTINUOUS UN-OBSTRUCTED PATHWAYS TO NEAREST COMMUNICATIONS ROOMS FROM STATIONS DEVICES. 14. REFER TO AV CONSTRUCTION DOCUMENTS FOR AV CONDUIT REQUIREMENT INCLUDING SIZES, QUANTITIES, AND LOCATIONS. 15. ALL COMMUNICATIONS CONDUIT, CABLE TRAYS, LADDER RACKS, AND EQUIPMENT RACKS SHALL BE BONDED TO BUILDING GROUND SYSTEM PER NEC 250. 16. ALL COMMUNICATION CONDUIT OR SLEEVES ROUTED THROUGH ELECTRICAL ROOMS SHALL BE PHYSICALLY CONTINUOUS AND BONDED TO GROUND SYSTEM. 17. ANY CABLE TRAY ROUTED THROUGH ELECTRICAL ROOMS OR WITHIN PROXIMITY OF INTERFERING ELECTRICAL SOURCES, SHALL BE ENCLOSED TYPE USING SOLID BOTTOM TROUGH WITH REMOVABLE COVERS. CABLE TRAY SHALL BE BONDED TO GROUND SYSTEM. 18. J-HOOKS SHALL BE ONLY USED IN ACCESSIBLE FINISHED CEILING SPACES NOT SERVED BY CABLE TRAY OR CONDUIT. 19. ALL TELEDATA CONDUIT AND OTHER RACEWAY INFRASTRUCTURE SHALL HAVE NO LESS THAN 25% SPARE CAPACITY ABOVE THE NEC MINIMUM FILL RATIOS. 20. ALL COMMUNICATIONS CONDUIT LARGER THAN 2" SHALL HAVE A MINIMUM BEND RADIUS OF 10:1 OF THE INSIDE DIAMETER FOR ALL ELBOWS. ALL COMMUNICATIONS CONDUIT 2" AND SMALLER SHALL HAVE A MINIMUM BEND RADIUS OF 6:1 OF THE INSIDE DIAMETER FOR ALL ELBOWS. 21. COMMUNICATIONS CONDUIT ROUTING SHALL NOT EXCEED 180° FOR THE SUM OF ELBOWS FOR A PARTICULAR CONDUIT RUN WITHOUT AN APPROVED PULL-BOX OR MANHOLE. THE MAXIMUM BEND FOR ANY LOCATION SHALL NOT EXCEED 90°. 22. PROVIDE PROTECTIVE BUSHINGS ON ALL COMMUNICATIONS CONDUITS INCLUDING RISER CONDUITS/SLEEVES, HORIZONTAL CONDUITS, DEVICE CONDUITS, AND SLEEVES. 23. ALL RISER CONDUIT SHALL BE STUBBED A MINIMUM OF 2" AFF. PROVIDE A 2" CURB IF SLAB BLOCK-OUT IS USED RATHER THAN SLEEVES. SERVICE PROVIDER AND UNDERGROUND CONDUIT SHALL BE STUBBED A MINIMUM OF 4" AFF. 24. ALL FIBER OPTIC CABLE SHALL BE ARMORED OR INSTALLED WITHIN APPROVED/UL-LISTED INNER-DUCT COMPLETE WITH FITTINGS, COUPLINGS, AND ADAPTERS (CARLON RISER-GARD, PLENUM-GARD, OR APPROVED EQUAL). FIBER OPTIC CABLE CAN UTILIZE METALLIC ARMORED SHEATH RATHER THAN USING INNER-DUCT. 25. FINAL CABLE INSTALLATION. ALL UNDERGROUND COMMUNICATIONS CONDUIT SHALL BE SEALED TO PREVENT WATER, GAS AND RODENTS FROM ENTERING FACILITY. 26. ALL COMMUNICATIONS CABLE INSTALLED BELOW GRADE SHALL BE GEL FILLED PIC/PE-89 PER RUS/REA DESIGNATION. 27. ALL UNDERGROUND COMMUNICATIONS CONDUIT SHALL HAVE METALLIC LOCATOR TAPE. 28. ALL COMMUNICATIONS CABLE SHALL BE PLENUM RATED (CMP), RISER RATED (CMR) AND UNDERGROUND RATED (WATERBLOCK) ACCORDING TO USE AND ENVIRONMENTAL CONDITIONS. 29. ALL BACKBONE (RISER) COMMUNICATIONS CABLE SHALL BE INSTALLED BASED ON A PHYSICAL STAR TOPOLOGY. REFER TO ONE-LINES DIAGRAMS FOR SPECIFIC ROUTING REQUIREMENTS. 30. ANY COMMUNICATIONS CABLES (FIBER AND COPPER) INSTALLED BELOW GRADE, UNDERGROUND OR OTHER LOCATIONS SUBJECT TO WET CONDITIONS SHALL UTILIZE WATERBLOCK CONSTRUCTION. 31. CONTRACTOR SHALL NOT PAINT CABLES AND/OR SPRAY CABLES WITH FIRE PROOFING MATERIAL AS IT CAN AFFECT CABLE PERFORMANCE AND WILL VOID THE CABLE WARRANTY.
AMP, A	AMPERE	IEC	INTERNATIONAL ELECTROTECHNICAL COMMISSION	PTZ	PAN TILT ZOOM CAMERA		
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.	PVC	POLYVINYL CHLORIDE		
ANT	ANTENNA	IF	INTERFACE	PWR	POWER		
ATSC	ADVANCED TELEVISION SYSTEMS COMMITTEE (DIGITAL TELEVISION SIGNAL)	IG	ISOLATED GROUND	RCDD	REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER		
AUX	AUXILIARY	IMC	INTERMEDIATE GRADE METALLIC CONDUIT	RF	RADIO FREQUENCY SIGNAL		
AUDIO	MICROPHONE OR LINE LEVEL BALANCED SIGNAL	IP	INTERNET PROTOCOL (ETHERNET)	RGBHV	HIGH RESOLUTION ANALOG VIDEO		
AV	AUDIO VIDEO	IR	INFRARED SIGNAL	RGS	RIGID GALVANIZED STEEL		
AWG	AMERICAN WIRE GAUGE	ISDN	INTEGRATED SERVICES DIGITAL NETWORK	RH	RELATIVE HUMIDITY		
BAS	BUILDING AUTOMATION SYSTEM	ISO	INTERNATIONAL ORGANIZATION OF STANDARDS	RMC	RIGID METALLIC CONDUIT		
BFC	BELOW FINISHED CEILING	J-BOX	JUNCTION BOX	RNC	RIGID NON-METALLIC CABLE		
BFG	BELOW FINISHED GRADE	kb	KILOBIT	RS-232	BI-DIRECTIONAL CONTROL DATA STREAM (RS-232/RS-422/RS445)		
BICSI	BUILDING INDUSTRY CONSULTING SERVICES INTERNATIONAL	kbps	KILOBIT PER SECOND	RX	RECEIVE		
BMS	BUILDING MANAGEMENT SYSTEM	kcmil	THOUSANDS OF CIRCULAR MILLS	SMFO	SINGLE-MODE FIBER OPTIC		
BRI	BASIC RATE INTERFACE (ISDN)	kHz	KILOHERTZ	SMPOE	SECONDARY MAIN POINT OF ENTRY		
C	CONDUIT	km	KILOMETER	SP	SERVICE PROVIDER		
CATV	COMMUNITY ANTENNA TV (CABLE TV)	kVA	KILOVOLT AMPERES	SPEAKER	SPEAKER LEVEL SIGNAL		
CC	CONTACT CLOSURE	kW	KILOWATT	SPL	SOUND PRESSURE LEVEL		
CMP	COMMUNICATIONS PLENUM CABLE	kWh	KILOWATT-HOURS	STEREO	A BALANCED 2 CHANNEL AUDIO SIGNAL		
CMR	COMMUNICATIONS RISER CABLE	LAN	LOCAL AREA NETWORK	STI-PA	SPEECH INTELLIGIBILITY INDEX - PUBLIC ADDRESS		
CO	CENTRAL OFFICE	LED	LIGHT-EMITTING DIODE	SW	SWITCH		
COAX	COAXIAL	LEC	LOCAL EXCHANGE CARRIER (OR SP)	TBB	TELECOMMUNICATIONS BONDING BACKBONE		
CODEC	CODER / DECODER	LFC	LIQUID TIGHT FLEXIBLE CONDUIT	TCP	TRANSMISSION CONTROL PROTOCOL		
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE	LUMEN	LUMINOUS FLUX (PROJECTOR BRIGHTNESS)	TCPIP	TRANSMISSION CONTROL PROTOCOL WITH INTERNET PROTOCOL		
DAS	DISTRIBUTED ANTENNA SYSTEM	LV	LOW VOLTAGE	TDR	TELECOMMUNICATIONS DEVICE FOR THE DEAF		
DB	DECIBEL	LVC	LOW VOLTAGE CONTROL INTERFACE	TDR	TIME DOMAIN REFLECTOMETER		
DC	DIRECT CURRENT	M	METER	TDR	TELECOM DEMARC ROOM		
DEMARC	DEMARCATION	mA	MILLIAMPERE	TEL	TELEPHONE		
DISC	DISCONNECT	MAG	MAGNETIC	TELCO	TELEPHONE COMPANY (SP)		
DM	DIGITAL MEDIA SIGNAL	MB	MEGABYTE	TGB	TELECOMMUNICATIONS GROUND BUS BAR		
DMP	DIGITAL MEDIA PLAYER	Mbps	MEGABITS PER SECOND	TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION		
DP	DISPLAYPORT	MC	MAIN CROSS-CONNECT	TMGB	TELECOMMUNICATIONS MAIN GROUND BUS BAR		
DSL	DIGITAL SUBSCRIBER LINE	MDF	MAIN DISTRIBUTION FRAME	TP	TOUCH PANEL (CONTROL SYSTEM)		
DSP	DIGITAL SIGNAL PROCESSOR	MECH	MECHANICAL	TR	TELECOMMUNICATIONS ROOM		
DSS	DIGITAL SATELLITE SIGNAL	MFR	MANUFACTURER	TTB	TELEPHONE TERMINAL BOARD		
DVI-D	DIGITAL VISUAL INTERFACE-DIGITAL	MHz	MEGAHERTZ	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION		
DVI-I	DIGITAL VISUAL INTERFACE-INTEGRATED	mm	MILLIMETER	UBS	UNIFORM BUILDING CODE		
DWG	DRAWING	MMFO	MULTI-MODE FIBER OPTIC	UC	UNDER COUNTER		
EBC	EQUIPMENT BONDING CONDUCTOR	MNS	MASS NOTIFICATION SYSTEM	UG	UNDERGROUND		
EIA	ELECTRONICS INDUSTRY ALLIANCE	MPOE	MAIN POINT OF ENTRY	UNO	UNLESS NOTED OTHERWISE		
ELEC	ELECTRIC OR ELECTRICAL	MPOP	MINIMUM POINT OF PRESENCE	UPS	UNINTERRUPTIBLE POWER SUPPLY		
ELEV	ELEVATOR	MTR	MAIN TELECOM ROOM	USB	UNIVERSAL SERIAL BUS		
EMC	ELECTROMAGNETIC COMPATIBILITY	NEC	NATIONAL ELECTRIC CODE	UTP	UNSHIELDED TWISTED PAIR		
EMI	ELECTROMAGNETIC INTERFERENCE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	V	VOLTAGE		
EMT	ELECTRIC METALLIC TUBING	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	VC	VOLUME CONTROL		
ENG	ELECTRONIC NEWS GATHERING	NIC	NETWORK INTERFACE CARD	VGA	VIDEO GRAPHIC ARRAY (ANALOG COMPUTER SIGNAL, SEE ALSO RGBHV)		
EX	EXISTING	NID	NETWORK INTERFACE DEVICE	VM	VOLTMETER		
FA	FIRE ALARM	NIT	1 CANDELA PER SQUARE METER (FLAT PANEL BRIGHTNESS)	VTC	VIDEO TELECONFERENCE SYSTEM		
FAA	FEDERAL AVIATION ADMINISTRATION	nm	NANOMETER	W	WATT		
FACP	FIRE ALARM CONTROL PANEL	NTS	NOT TO SCALE	WAN	WIDE AREA NETWORK		
FLEX	FLEXIBLE	OC	ON CENTER	WATS	WIDE AREA TELECOMMUNICATIONS SERVICE		
FM	FREQUENCY MODULATION	OD	OUTSIDE DIAMETER	WLAN	WIRELESS LOCAL AREA NETWORK (WIFI)		
FO	FIBER OPTIC	OEM	ORIGINAL EQUIPMENT MANUFACTURER	WM	WIRELESS MICROPHONE		
FP	FLAT PANEL (VIDEO DISPLAY)	OFE	OWNER FURNISHED EQUIPMENT	WP	WEATHER PROOF		
FTP	FILE TRANSFER PROTOCOL	OS	OPERATING SYSTEM	WT	WATERTIGHT		
GA	GAUGE	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	XFMR	TRANSFORMER		
GALV	GALVANIZED	OSP	OUTSIDE PLANT	XP	EXPLOSION PROOF		
GB	GIGABYTE	OTDR	OPTICAL TIME DOMAIN REFLECTOMETER				
Gbps	GIGABITS PER SECOND						
GC	GENERAL CONTRACTOR						
GEN	GENERATOR						
GFCI	GROUND FAULT CIRCUIT INTERRUPTER						



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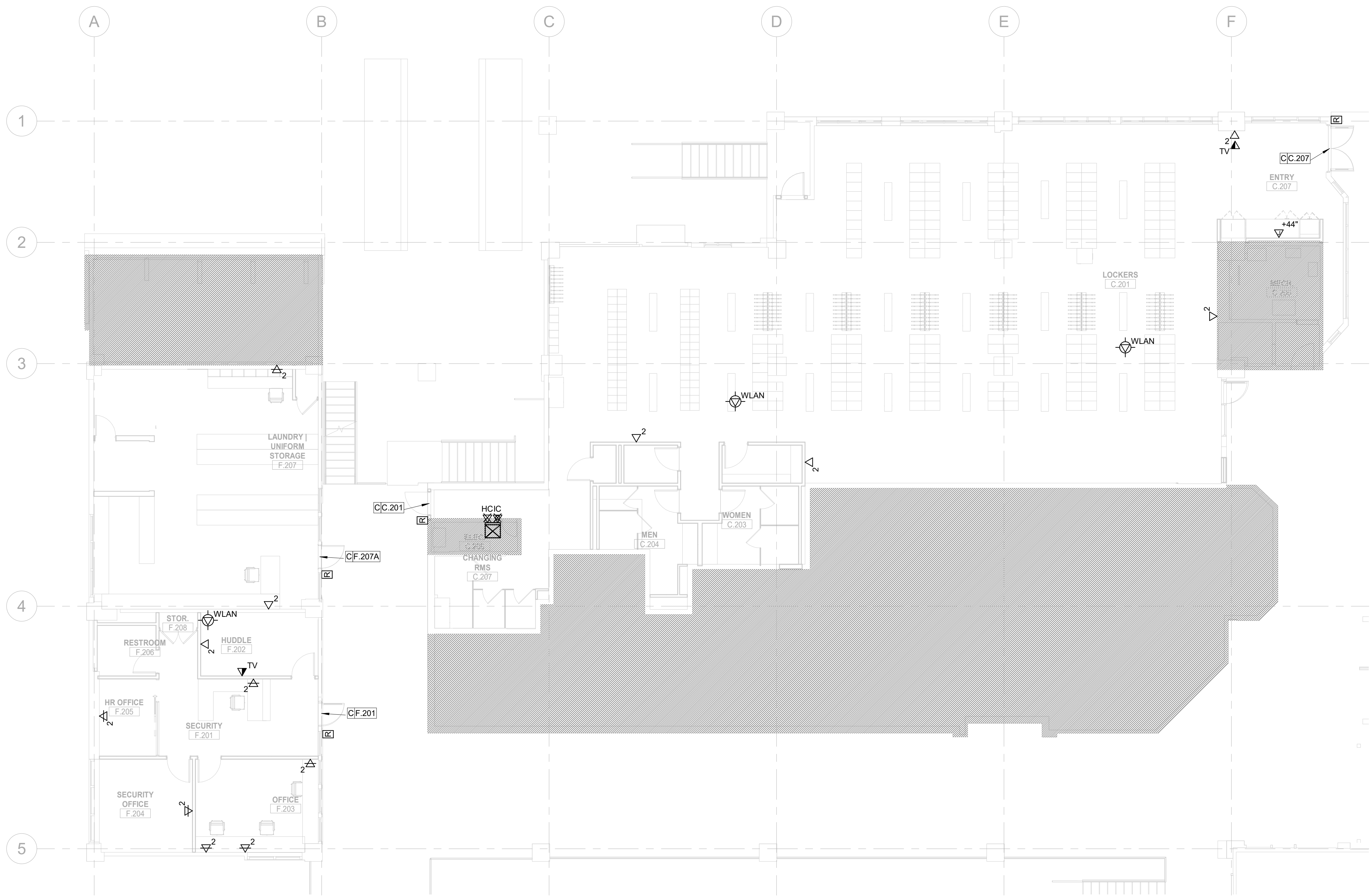
Date	Description
- 2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT
--- 2021.05.21	BP4D - GONDOLA SQUARE INTERIORS BLDG. A, C AND F - ISSUE FOR PERMIT AND CONSTRUCTION

Seal / Signature
Project Name
Steamboat Base Village Redevelopment
Project Number
003.7835.000
Description
TECHNOLOGY GENERAL NOTES & ABBREVIATIONS
Scale
NO SCALE

GENERAL NOTES:

1. REFER TO SYMBOL LEGEND FOR ADDITIONAL REQUIREMENTS, INCLUDING BUT NOT LIMITED TO, INSTALLATION OF RACEWAY, CABLING, AND DEVICES.
2. REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION PERTAINING TO DATA CENTER EQUIPMENT (PRODUCTS AND INSTALLATION) DESCRIBED IN KEYNOTES BELOW, SPECIFICALLY DIVISION 27.
3. CONTRACTOR SHALL VERIFY AND COORDINATE ALL WALL SPACE REQUIREMENTS WITH OTHER LOW VOLTAGE TRADES (SECURITY, AV, FIRE ALARM, ETC.) DURING SHOP DRAWING COORDINATION PROCESS TO CONFIRM FINAL PLACEMENT OF ALL TERMINATIONS AND EQUIPMENT WITHIN DATA CENTER.

KEYNOTES



△	Date	Description
-	2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT
---	2021.05.21	BP4D - GONDOLA SQUARE INTERIORS BLDG. A, C AND F - ISSUE FOR PERMIT AND CONSTRUCTION

Seal / Signature

Project Name

Steamboat Base Village
Redevelopment

Project Number

003.7835.000

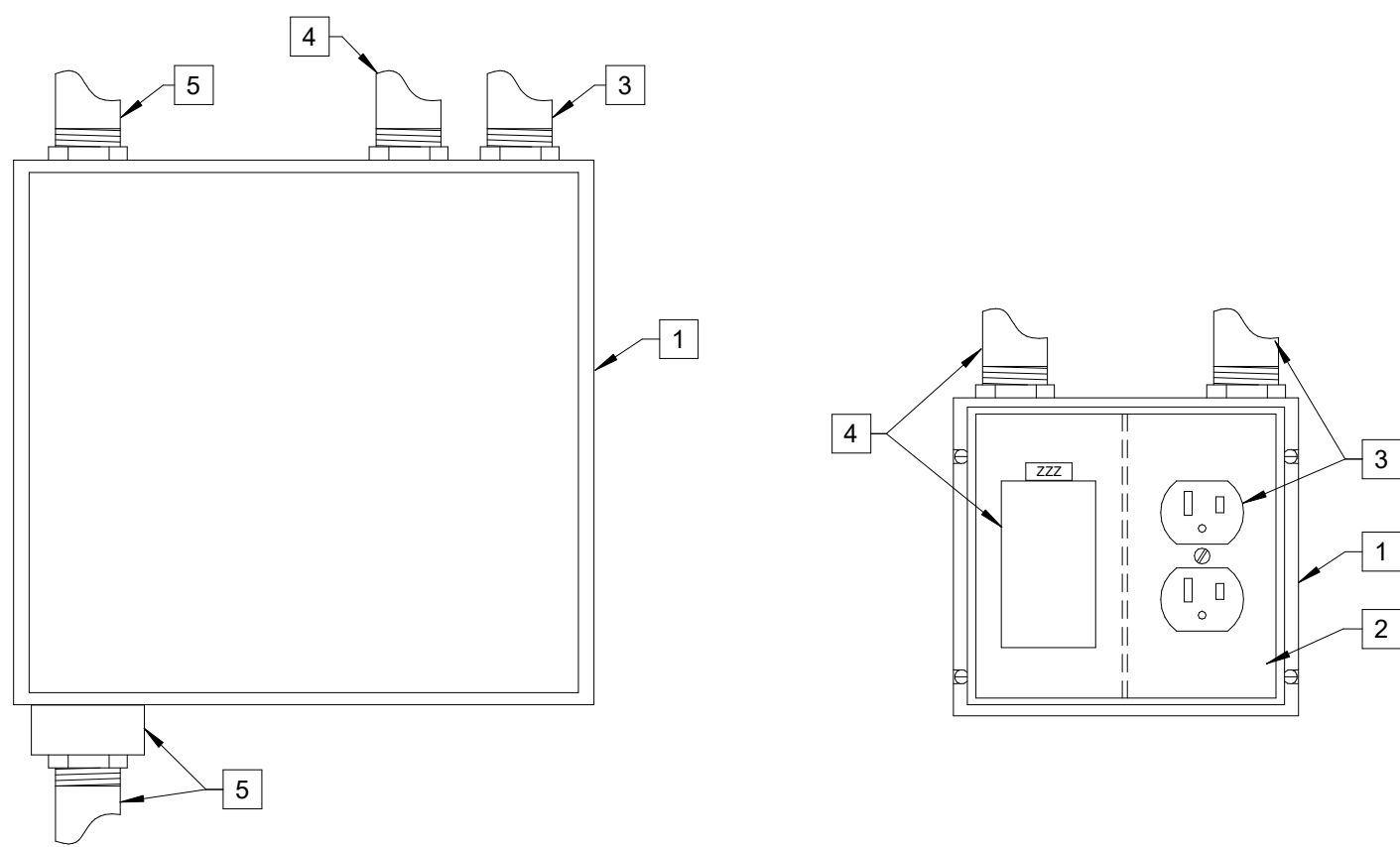
Description

TECHNOLOGY PLAN - C & F BUILDING
LEVEL 02



Scale

1/8" = 1'-0"

T1.202



R.02 TV POWER / LOW VOLTAGE DEVICE

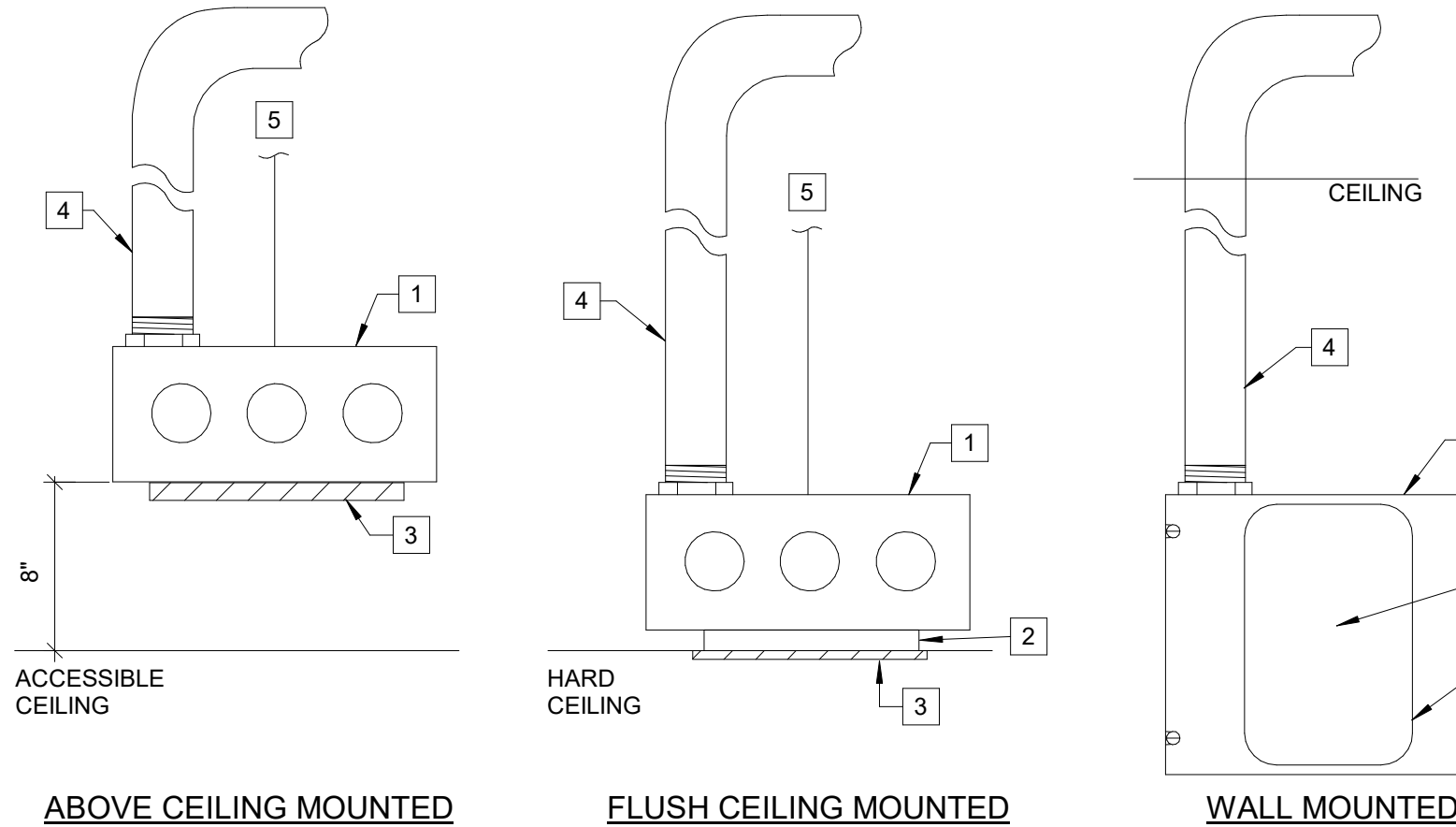
SYMBOLS: |  

GENERAL NOTES:



1. REFER TO AV DOCUMENTS FOR ADDITIONAL REQUIREMENTS RELATIVE TO TV / VIDEO MONITOR INFRASTRUCTURE.
2. REFER TO ARCHITECTURAL AND/OR AV DOCUMENTS FOR MOUNTING HEIGHTS AND/OR SPECIAL CONDITIONS.

KEYNOTES:

1. BACK-BOX: PROVIDE CUSTOM FLAT PANEL BACK-BOX AT ALL LOCATIONS AS INDICATED IN AV DOCUMENTS. PROVIDE STANDARD 4"x4"x2-1/8" BACK-BOX WITH DIVIDER FOR ALL OTHER TV / VIDEO MONITOR LOCATIONS.
2. FACE PLATE: PROVIDE 2-GANG FACE PLATE WITH RECTANGULAR (STYLE-LINE) OPENING FOR LOW VOLTAGE TERMINATIONS.
3. POWER RACEWAY: PROVIDE 3/4-INCH CONDUIT TO POWER COMPARTMENT.
4. DATA/COAX RACEWAY: PROVIDE 1-INCH CONDUIT TO DATA/COAX COMPARTMENT. REFER TO COMMUNICATION LEGEND - PATHWAY REQUIREMENT NOTES TO CONFIRM IF CONDUIT STUBS TO CEILING AND USE OF J-HOOKS IS ALLOWED OR IF CONTINUOUS CONDUIT IS REQUIRED FOR ALL LOCATIONS.
5. AV RACEWAY: REFER TO AV DRAWINGS FOR ADDITIONAL REQUIREMENTS ON CUSTOM BACK-BOX AND CONDUIT TO AV COMPARTMENT(S). REFER TO AUDIOVISUAL LEGEND - PATHWAY REQUIREMENT NOTES TO CONFIRM IF CONDUIT STUBS TO CEILING AND USE OF J-HOOKS IS ALLOWED OR IF CONTINUOUS CONDUIT IS REQUIRED FOR ALL LOCATIONS.



R.01 COMM RACEWAY DEVICES

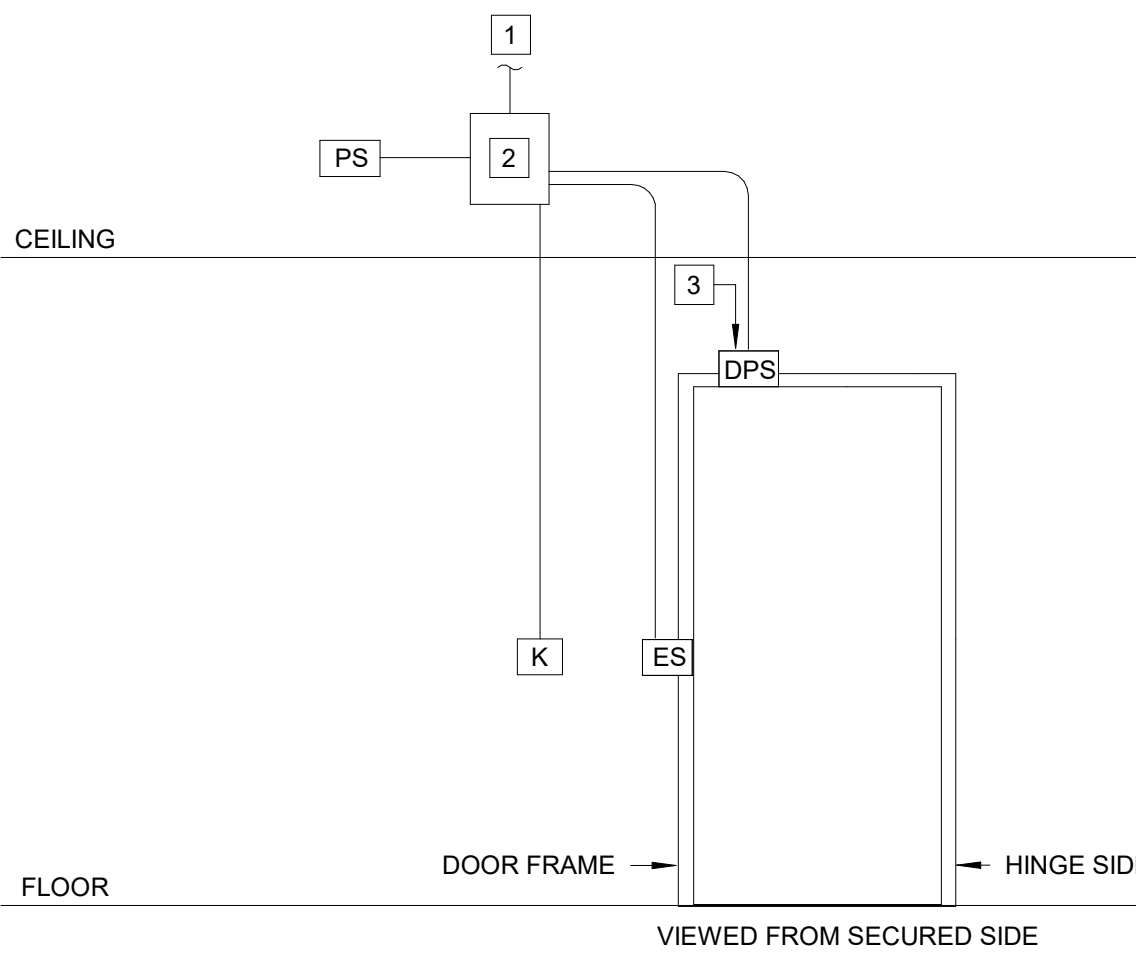
SYMBOLS: |  

GENERAL NOTES:

1. REFER TO SYSTEM SYMBOL LEGEND - PATHWAY REQUIREMENT NOTES TO CONFIRM IF CONDUIT STUBS TO CEILING AND USE OF J-HOOKS IS ALLOWED OR IF CONTINUOUS CONDUIT IS REQUIRED FOR ALL LOCATIONS. PARTICULAR ATTENTION SHALL BE GIVEN TO CONDUIT ROUTING NOTES AS EACH SYSTEM (AV, COMM, SECURITY, ETC.) HAS SPECIFIC CONDUIT ROUTING REQUIREMENTS.

KEYNOTES:

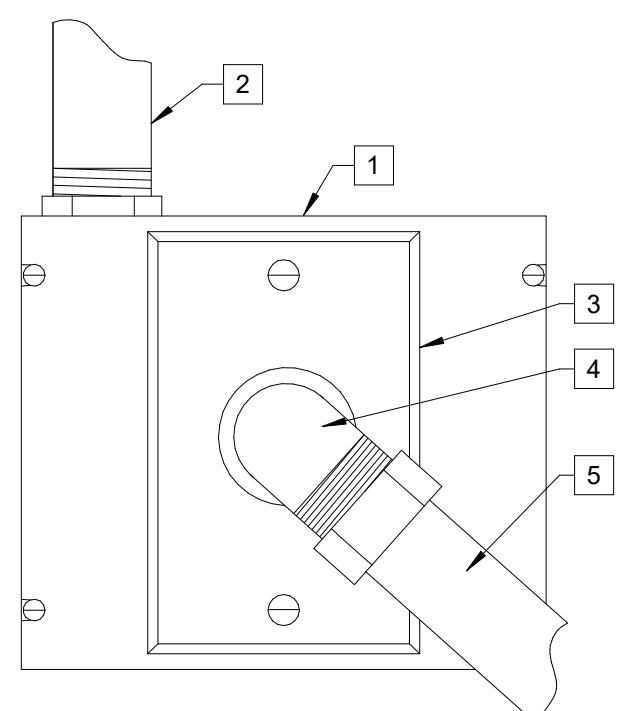
1. BACK-BOX: PROVIDE 4"x4"x2-1/8" FLUSH MOUNTED BOX.
2. MUD-RING: PROVIDE 1-GANG MUD RING FOR MOUNTING OF DEVICE / FACEPLATE. MUD RING SHALL BE SEPARATE COMPONENT FROM BACK-BOX.
3. FACE PLATE: REQUIREMENTS VARY. REFER TO SPECIFIC DEVICE DETAILS FOR ADDITIONAL INFORMATION.
4. CONDUIT: PROVIDE CONDUIT SIZED AS FOLLOWS:
(1) 1-INCH CONDUIT FOR (1-4) CABLES/PORTS
(1) 1-1/4-INCH CONDUIT FOR (5-6) CABLES/PORTS
5. SUPPORT: PROVIDE THREADED ROD ATTACHED TO STRUCTURE ABOVE.



S.01 / S - SINGLE LEAF DOOR

KEYNOTES:

1. PATHWAY TO SECURITY PANEL LOCATIONS: PROVIDE (1) 1-1/4" CONDUIT REFER TO SECURITY SYSTEM SYMBOL - PATHWAY REQUIREMENT NOTES ON LEGEND SHEET FOR CONDUIT CONTINUATION REQUIREMENTS.
2. CONSOLIDATION BOX: LOCATE 8"x8"x4" BOX ON SECURE SIDE OF DOOR. LOCATE WITHIN ACCESSIBLE CEILING SPACE (OR AREA OF ACCESS) AS CLOSE TO DOORWAY AS POSSIBLE. NOT TO EXCEED 90 FEET OF DOOR LOCATION.
3. PATHWAY TO DOOR HARDWARE: PROVIDE 3/4" CONDUIT ROUTED FROM CONSOLIDATION BOX TO HARDWARE MOUNTED IN OR AROUND DOOR FRAME. COORDINATE CONDUIT TERMINATION REQUIREMENTS WITH DOOR HARDWARE PROVIDER AND DEVICE MANUFACTURER. ROUTE CONDUIT WITHIN DOOR FRAME WHERE REQUIRED.



GENERAL NOTES:

1. REFER TO SYSTEM SYMBOL LEGEND - PATHWAY REQUIREMENT NOTES TO CONFIRM IF CONDUIT STUBS TO CEILING AND USE OF J-HOOKS IS ALLOWED OR IF CONTINUOUS CONDUIT IS REQUIRED FOR ALL LOCATIONS. PARTICULAR ATTENTION SHALL BE GIVEN TO CONDUIT ROUTING NOTES AS EACH SYSTEM (AV, COMM, SECURITY, ETC.) HAS SPECIFIC CONDUIT ROUTING REQUIREMENTS.

KEYNOTES:

1. BACK-BOX: PROVIDE 4-11/16" X 4-11/16" X 3-1/4" (HUBBEL 260) FLUSH MOUNTED BOX WITH SINGLE GANG COVER PLATE.
2. CONDUIT: PROVIDE (1) 1-1/2" CONDUIT FOR LOW VOLTAGE CABLE.
3. FACE PLATE: STAINLESS STEEL COVER PLATE WITH CENTER MOUNTED GROMMET OPENING.
4. CONDUIT FITTINGS: PROVIDE (1) 90-DEGREE CONDUIT FITTING FOR FURNITURE CONNECTOR.
5. FLEXIBLE DUCT FEED: PROVIDE (1) 1-1/2" POLYUUFF FLEXIBLE CONDUIT EXTENDED TO MODULAR FURNITURE.

