### SECURITY SYSTEMS SYMBOLS

		)
	DETAIL REFERENCE	REFER TO REFERENCED DEVICE DESCRIPTION FOR ADDITIONAL REQUIREMENTS.
L:XX #CA1 X'-Y"	N/A	CAMERA TAG INDICATES CAMERA ID# ("L:XX"), CAMERA TYPE AND MOUNTING HEIGHT. REFER TO CAMERA SCHEDULE FOR ADDITIONAL INFORMATION AND DETAIL REFERENCES.
L:XX	S.01	FIXED (INTERIOR) SECURITY CAMERA. (REF: CAMERA SCHEDULES)
L:XX	S.01	PTZ (INTERIOR) SECURITY CAMERA. (REF: CAMERA SCHEDULES)
L:XX	S.01	FIXED (EXTERIOR) SECURITY CAMERA. (REF: CAMERA SCHEDULES)
L:XX	S.01	PTZ (EXTERIOR) SECURITY CAMERA. (REF: CAMERA SCHEDULES)
CXXX	S.03	CONTROLLED DOORWAY: REFER TO ACCESS CONTROL DOOR SCHEDULE. ("XXX" = ARCHITECTURAL DOOR NUMBER)
MXXX	S.03	MONITORED ONLY DOORWAY: REFER TO ACCESS CONTROL DOOR SCHEDULE. ("XXX" = ARCHITECTURAL DOOR NUMBER)
R	S.03	PROXIMITY CARD READER MOUNTED AT 48"AFF.
K	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 REMAINING 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

W.01 / W.02 | WIRELESS LAN DATA OUTLET MOUNTED WITHIN

(# = PORT QUANTITY, NO /# = 1-PORT)

C.03 / S.02 DATA OUTLET FOR IP-BASED SECURITY CAMERA

C.03 / S.02 DATA OUTLET FOR IP-BASED SECURITY CAMERA

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 / AV

1. REFER TO DETAILS AS INDICATED ABOVE FOR ADDITIONAL RACEWAY, CABLING AND/OR

SPECIALIZED BACK-BOX TYPES, SIZES AND MOUNTING CONDITIONS AS DEPICTED IN

3. PROVIDE CAT.6 (1G) UTP CABLE TERMINATED (PER EIA/TIA-T568B) ON CAT.6 OUTLETS

4. RG-6 COAXIAL CABLE TERMINATED WITH F-TYPE CONNECTORS FOR COAXIAL DEVICES.

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

2. REFER TO OTHER SYSTEMS DRAWINGS (AV, SECURITY, ETC.) FOR BACK-BOX REQUIREMENTS SPECIFIC TO EACH DEVICE TYPE. SELECT DEVICES MAY REQUIRE

AND/OR PATCH PANELS FOR ALL TELE/DATA DEVICES, U.N.O.

ENSURE UNOBSTRUCTED CABLE PATHWAY FOR ENTIRE CABLE RUN.

C.05 / R.03 DATA OUTLET MOUNTED WITHIN POWER / DATA

NEMA ENCLOSURE MOUNTED TO WALL OR STRUCTURE.

CEILING MOUNTED WITHIN SECURITY CAMERA BACK-BOX.

C.07 / S.02 | FIBER OPTIC DATA OUTLET FOR IP-BASED SECURITY CAMERA

FLOORBOX (# = PORT QUANTITY, NO /# = 1-PORT)

FLOORBOX (# = PORT QUANTITY, NO /# = 1-PORT)

MULTI-PORT DATA DEVICE TERMINATED ON PATCH PANEL

MOUNTED IN AV ENCLOSURE. (# = PORT QUANTITY, NO / # = 1-PORT)

WALL OR POLE MOUNTED WITHIN SECURITY CAMERA BACK-BOX.

WALL OR POLE MOUNTED WITHIN SECURITY CAMERA BACK-BOX.

WLAN-E/#

▽/-�-

### **X** 

X <sub>AV/#</sub>

**GENERAL NOTES:** 

DEVICE INFORMATION.

OTHER SYSTEMS DRAWINGS.

PATHWAY REQUIREMENTS:

C.14

			1 1 ~				
	DETAIL REFERENCE	REFER TO REFERENCED DEVICE DESCRIPTION FOR ADDITIONAL REQUIREMENTS.			DETAIL REFERENCE	REFER TO REFERENCED DEVICE DESCRIPTION FOR ADDITIONAL REQUIREMENTS.	
"WP"	N/A	WEATHER-PROOF DEVICE COVER (TYPICAL FOR ALL DEVICES INDICATED WITH "WP").		X <sub>SP</sub>	N/A	TELECOMMUNICATIONS SERVICE PROVIDER CROSS-CONI (SP) PROVIDED BY OTHERS. (SHOWN FOR REFERENCE ON	
$ abla_{E/\#}$	E.01	TELE/DATA OUTLET(S) FOR ELEVATOR CAB DEVICES (PHONE, CAMERA, VIDEO DISPLAY, ETC.). COORDINATE MOUNTING HEIGHT		МС	C.12	TELECOMMUNICATIONS MAIN CROSS-CONNECT (MC).	
		WITH ELEVATOR INTERFACE PANEL. (# = PORT QUANTITY, NO /# = 1-PORT)		IC	C.12	TELECOMMUNICATIONS INTERMEDIATE CROSS-CONNECT	
$\nabla_{\!$	C.01 / R.01	TELE/DATA OUTLET FOR PHONE, WALL MOUNTED AT 48"AFF.		НС	C.12	TELECOMMUNICATIONS HORIZONTAL CROSS-CONNECT (H	
$\nabla_{\!\!\!/}$	C.02 / R.01	DATA OUTLET WALL MOUNTED AT 18"AFF U.N.O. (# = PORT QUANTITY, NO /# = 1-PORT)		₩SP	C.11	FIBER OPTIC DATA SERVICE PROVIDER CROSS-CONNECT PROVIDED BY OTHERS, (SHOWN FOR REFERENCE ONLY).	
<del>∇</del> <sub>#</sub> C.02 / R.01	DATA OUTLET WALL MOUNTED ABOVE COUNTER AT 8" ABOVE		₩ <sub>MC</sub>	C.11	FIBER OPTIC DATA MAIN CROSS-CONNECT (MC).		
		COUNTER OR MAXIMUM OF 44" AFF, U.N.O. (# = PORT QUANTITY, NO /# = 1-PORT)		<b>X</b> IC	C.11	FIBER OPTIC DATA INTERMEDIATE CROSS-CONNECT (IC).	
$- \overleftarrow{\phi}_{\overline{\#}}$	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)		X HC	C.13	DATA HORIZONTAL CROSS-CONNECT (HC).	
$\nabla_{\!$	C.06 / R.04	DATA OUTLET MOUNTED IN MODULAR FURNITURE.		TV	N/A	CABLE OR SAT TV CROSS-CONNECT.	
° F/#		(# = PORT QUANTITY, NO / # = 1-PORT)			C.12	TELECOMMUNICATIONS DATA CENTER CROSS-CONNECT.	
$\nabla_{\!$	C.02 / R.01	POINT-OF-SALE (POS) DATA OUTLET WALL MOUNTED AT 18" AFF U.N.O.		X DCC	C.11	FIBER OPTIC DATA CENTER CROSS-CONNECT (DCC).	
		(# = PORT QUANTITY, NO /# = 1-PORT)		💢 сс	C.11	FIBER OPTIC CAMPUS CROSS-CONNECT (CC).	
<b>▼</b> TV/#	C.05 / R.02	DATA / COAX OUTLET FOR TV / VIDEO DISPLAY WALL MOUNTED WITHIN SHARED BACK-BOX.		CC	C.12	TELECOMMUNICATIONS CAMPUS CROSS-CONNECT.	
۵	C.05 / R.02	DATA / COAX OUTLET FOR TV / VIDEO DISPLAY		ST	C.12	TELECOMMUNICATIONS SERVICE TIE CROSS-CONNECT.	
<b>-</b> ♥ <sub>T∨</sub>	0.037 N.02	CEILING MOUNTED WITHIN SHARED BACK-BOX.		<b>X</b> ST	C.11	FIBER OPTIC SERVICE TIE CROSS-CONNECT.	
$\nabla_{WLAN/\!\!\!/}$	C.04 / R.01	WIRELESS LAN DATA OUTLET WALL MOUNTED AT 10'-0" AFF, U.N.O. (# = PORT QUANTITY, NO /# = 1-PORT)					
<u></u>	C.04 / R.01	WIRELESS LAN OUTLET MOUNTED ABOVE ACCESSIBLE CEILING,		INFRASTRUCTURE			
-\P\_WLAN/#	t	FLUSH IN HARD CEILING, OR TIGHT TO STRUCTURE OVERHEAD (AT EXPOSED CEILINGS), U.N.O. (# = PORT QUANTITY, NO / # = 1-PORT)			DETAIL	REFER TO REFERENCED DEVICE DESCRIPTIO	

	DETAIL REFERENCE	REFER TO REFERENCED DEVICE DESCRIPTION FOR ADDITIONAL REQUIREMENTS.
<b>O</b>	R.03	TELE/DATA FURNITURE FEED FLOOR BOX (WITH COVER PLATE AND FLEXIBLE WHIP)
$\triangle$	R.04	TELE/DATA FURNITURE FEED WALL BACK-BOX (WITH COVER PLATE AND FLEXIBLE WHIP) MOUNTED AT 18" AFF.
$\forall$	R.01	RACEWAY ONLY OUTLET LOCATION MOUNTED AT 18"AFF, U.N.
<b>-</b> ф-	R.01	RACEWAY ONLY OUTLET LOCATION MOUNTED ABOVE ACCESSIBLE CEILING, FLUSH IN HARD CEILING, OR TIGHT TO STRUCTURE OVERHEAD (AT EXPOSED CEILINGS), U.N.O.
TMGB	G.01	MAIN TELECOMMUNICATIONS GROUND BUS.
TGB	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)
AV	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.
MH	U.02	COMMUNICATIONS MANHOLE.
НН	U.03	COMMUNICATIONS IN-GRADE HAND HOLE / PULL-BOX.

# CROSS-CONNECTS

REFER TO REFERENCED DEVICE DESCRIPTION FOR ADDITIONAL REQUIREMENTS.	JACKET OPENING CABLE
MMUNICATIONS SERVICE PROVIDER CROSS-CONNECT VIDED BY OTHERS. (SHOWN FOR REFERENCE ONLY)	CONDUCTOR LABEL
MMUNICATIONS MAIN CROSS-CONNECT (MC).	COMMUNICATION CABLE
MMUNICATIONS INTERMEDIATE CROSS-CONNECT (IC).  MMUNICATIONS HORIZONTAL CROSS-CONNECT (HC).	GROUND — CAI
PTIC DATA SERVICE PROVIDER CROSS-CONNECT (SP) D BY OTHERS, (SHOWN FOR REFERENCE ONLY).	SHRINK INSULATION XXX
PTIC DATA MAIN CROSS-CONNECT (MC).	JACKET OPENING LABEL
TIC DATA INTERMEDIATE CROSS-CONNECT (IC).	CONDUCTOR
RIZONTAL CROSS-CONNECT (HC).	AUDIOVISUAL / SECURITY /NURSE CALL SYSTEMS CABLE
R SAT TV CROSS-CONNECT.	
MMUNICATIONS DATA CENTER CROSS-CONNECT.	
PTIC DATA CENTER CROSS-CONNECT (DCC).	CABLE DRESS RI
TIC CAMPUS CROSS-CONNECT (CC).	
	CARLE DRESS CO

	DETAIL REFERENCE	REFER TO REFERENCED DEVICE DESCRIPTION FOR ADDITIONAL REQUIREMENTS.
<b>O</b>	R.03	TELE/DATA FURNITURE FEED FLOOR BOX (WITH COVER PLATE AND FLEXIBLE WHIP)
$\triangle$	R.04	TELE/DATA FURNITURE FEED WALL BACK-BOX (WITH COVER PLATE AND FLEXIBLE WHIP) MOUNTED AT 18" AFF.
$\forall$	R.01	RACEWAY ONLY OUTLET LOCATION MOUNTED AT 18"AFF, U.N.C
<b>-</b> ф-	R.01	RACEWAY ONLY OUTLET LOCATION MOUNTED ABOVE ACCESSIBLE CEILING, FLUSH IN HARD CEILING, OR TIGHT TO STRUCTURE OVERHEAD (AT EXPOSED CEILINGS), U.N.O.
TMGB	G.01	MAIN TELECOMMUNICATIONS GROUND BUS.
TGB	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)
AV	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)
K_7  - - - - - - - - - - - - - - - - - - -	N/A	EQUIPMENT RACK OR CABINET PROVIDED BY OTHERS. SHOWN FOR REFERENCE TO ALLOCATE FLOOR SPACE.
МН	U.02	COMMUNICATIONS MANHOLE.
	1	

# **GENERAL NOTES:**

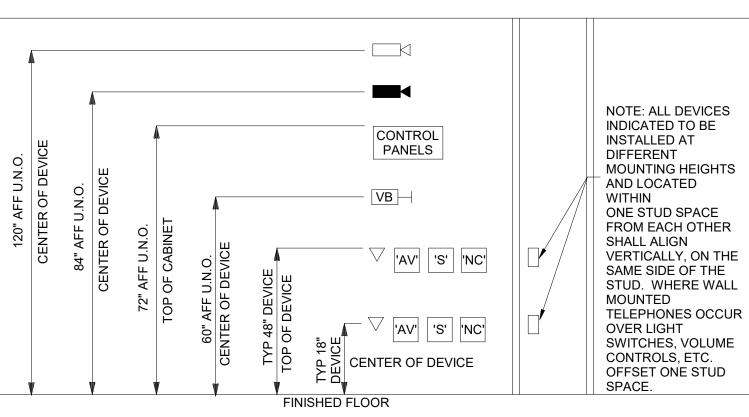
- 1. CABLES: ALL SYSTEM CABLES OUTSIDE OF CONDUIT SHALL BE SUPPORTED WITHIN CEILING SPACES, UNDER FLOORS SPACES, ALONG WALLS, AND WITHIN EQUIPMENT RACKS PER SPECIFICATIONS.
- 2. CABLE DRESSING: ALL CABLES SHALL BE INSTALLED PER INFORMATION SHOWN HERE AND WITHIN SPECIFICATIONS. ALL CABLE NOT MEETING REQUIREMENTS HEREIN WILL BE REDRESSED AND / OR REPLACED AS
- 3. LABELS: PROVIDE THERMAL TRANSFER / SELF-LAMINATING TYPE LABELS LOCATED ~2 INCHES FROM EACH END OF TERMINATED CABLE. HAND WRITTEN LABELS WILL NOT BE ACCEPTED.
- 4. HEAT SHRINK: PROVIDE HEAT SHRINK AT EACH EACH END OF TERMINATED CABLE FOR ALL AUDIOVISUAL / SECURITY / NURSE CALL CABLES. TAPE (ELECTRICAL OR OTHERWISE) UTILIZED IN PLACE OF HEAT SHRINK SHALL NOT BE ACCEPTED.
- 5. GROUND CONDUCTOR: PROVIDE CLEAR HEAT SHINK FOR ALL TERMINATED GROUND CONDUCTORS. FOR ALL UN-TERMINATED GROUND CONDUCTORS, CUT BACK TO JACKET OPENING AND COVER WITH HEAT SHRINK.

## CABLE DRESS REQUIREMENTS

JACKET OPENING

# CABLE DRESS COLOR REQUIREMENTS

CABLE COLOR	OUTLET TERMINATION	PATCH PANEL TERMINATION
BLUE	BLUE	BLUE
WHITE	BLUE	WHITE
PURPLE	BLUE	PURPLE
GREEN	BLUE	GREEN
YELLOW	BLUE	YELLOW
	BLUE WHITE PURPLE GREEN	BLUE  WHITE  BLUE  PURPLE  BLUE  GREEN  BLUE



### TYPICAL DEVICE MOUNTING HEIGHTS NO SCALE

- 1. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE
- 2. CONTRACTOR SHALL ENSURE THAT ALL MOUNTING HEIGHTS COMPLY WITH CURRENT ADA REQUIREMENTS. 3. ALL ABOVE COUNTER DEVICES SHALL BE MOUNTED 8" ABOVE COUNTER OR A MAXIMUM OF 44" AFF (TO TOP OF
- DEVICE). VERIFY HEIGHTS WITH ARCHITECT. 4. WHERE EVER DEVICES ARE INDICATED TO BE ABOVE DOORS, DEVICE SHALL BE CENTERED BETWEEN TOP OF DOOR TRIM AND CEILING LINE.

**↑LTERR east west** partners

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2021.05.19 BP3: GOLDWALK - ISSUE FOR BID AND --- 2021.05.21 BP4D - GONDOLA SQUARE INTERIORS

AND CONSTRUCTION

BLDG. A, C AND F - ISSUE FOR PERMIT

Seal / Signature

Steamboat Base Village Redevelopment

Project Number 003.7835.000

Description TECHNOLOGY LEGEND

NO SCALE

T0.000

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	ABBREVIATIONS		ABBREVIATIONS			ABBREVIATIONS
AC	ALTERNATING CURRENT	GHz	GIGAHERTZ	١١١	PA	PUBLIC ADDRESS
ADA	AMERICANS WITH DISABILITIES ACT	GMP	GUARANTEED MAXIMUM PRICE		PABX	PRIVATE AUTOMATIC BRANCH EXCHANGE
AFF	ABOVE FINISHED FLOOR	GUI	GRAPHICAL USER INTERFACE		PBX	PRIVATE BRANCH EXCHANGE
AFG	ABOVE FINISHED GRADE	HC	HORIZONTAL CROSS-CONNECT		PCI	PAYMENT CARD INDUSTRY
AHU	AIR HANDLING UNIT	HD	HIGH DEFINITION		PE	POLYETHYLENE
ALD	ASSISTED LISTENING DEVICE	HDMI	HIGH DEFINITION MULTIMEDIA INTERFACE		PH	PHASE
ALPETH	ALUMINUM POLYETHYLENE	HVAC	HEATING, VENTILATING, AND AIR-CONDITIONING		POTS	PLAIN OLD TELEPHONE SERVICE
ALS	ASSISTED LISTENING SYSTEM	Hz	HERTZ		PR	PAIRS
ALT	ALTERNATE	IC	INTERMEDIATE CROSS-CONNECT		PRI	PRIMARY RATE INTERFACE (ISDN)
AMP, A	AMPERE	ID	INSIDE DIAMETER		PSTN	PUBLIC SWITCHED TELEPHONE NETWORK
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	IDF	INTERMEDIATE DISTRIBUTION FRAME		PROX	PROXIMITY
ANT	ANTENNA	IEC	INTERNATIONAL ELECTROTECHNICAL COMMISSION		PTZ	PAN TILT ZOOM CAMERA
ATSC	ADVANCED TELEVISION SYSTEMS	IEEE	INSTITUTE OF ELECTRICAL AND		PVC	POLYVINYL CHLORIDE
AUX	COMMITTEE (DIGITAL TELEVISION SIGNAL) AUXILIARY	    IF	ELECTRONICS ENGINEERS, INC.		PWR	POWER
AUDIO	MICROPHONE OR LINE LEVEL BALANCED SIGNAL	IF   IG	INTERFACE ISOLATED GROUND		RCDD	REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
AUDIO	AUDIO VIDEO	IMC	INTERMEDIATE GRADE METALLIC CONDUIT		RF	RADIO FREQUENCY SIGNAL
AWG	AMERICAN WIRE GAUGE	IP	INTERNET PROTOCOL (ETHERNET)		RGBHV	HIGH RESOLUTION ANALOG VIDEO
BAS	BUILDING AUTOMATION SYSTEM	"    IR	INFRARED SIGNAL		RGS	RIGID GALVANIZED STEEL
BFC	BELOW FINISHED CEILING	ISDN	INTEGRATED SERVICES DIGITAL NETWORK		RH	RELATIVE HUMIDITY
BFG	BELOW FINISHED GRADE	ISO	INTERNATIONAL ORGANIZATION OF STANDARDS		RMC	RIGID METALLIC CONDUIT
BICSI	BUILDING INDUSTRY CONSULTING	J-BOX	JUNCTION BOX		RNC	RIGID NON-METALLIC CABLE
	SERVICES INTERNATIONAL	kb	KILOBIT		RS-232	BI-DIRECTIONAL CONTROL DATA
BMS	BUILDING MANAGEMENT SYSTEM	kbps	KILOBIT PER SECOND			STREAM (RS-232/RS-422/RS485)
BRI	BASIC RATE INTERFACE (ISDN)	kcmil	THOUSANDS OF CIRCULAR MILLS		RX	RECEIVE
C	CONDUIT	kHz	KILOHERTZ		SMFO	SINGLE-MODE FIBER OPTIC
CATV	COMMUNITY ANTENNA TV (CABLE TV)	km	KILOMETER		SMPOE	SECONDARY MAIN POINT OF ENTRY
CC	CONTACT CLOSURE	kVA	KILOVOLT AMPERES		SP	SERVICE PROVIDER
CMP	COMMUNICATIONS PLENUM CABLE	kW	KILOWATT		SPEAKER	SPEAKER LEVEL SIGNAL
CMR	COMMUNICATIONS RISER CABLE	   kWh	KILOWATT-HOURS		SPL	SOUND PRESSURE LEVEL
co	CENTRAL OFFICE	LAN	LOCAL AREA NETWORK		STEREO	A BALANCED 2 CHANNEL AUDIO SIGNAL
COAX	COAXIAL	LED	LIGHT-EMITTING DIODE		STI-PA	SPEECH INTELLIGIBILITY INDEX - PUBLIC ADDRESS
CODEC	CODER / DECODER	LEC	LOCAL EXCHANGE CARRIER (OR SP)		STP	SHIELDED TWISTED PAIR
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE	LFC	LIQUID TIGHT FLEXIBLE CONDUIT		SW	SWITCH
DAS	DISTRIBUTED ANTENNA SYSTEM	LUMEN	LUMINOUS FLUX (PROJECTOR BRIGHTNESS)		TBB	TELECOMMUNICATIONS BONDING BACKBONE
DB	DECIBEL	LV	LOW VOLTAGE		TCP	TRANSMISSION CONTROL PROTOCOL
DC	DIRECT CURRENT	LVC	LOW VOLTAGE CONTROL INTERFACE		TCP/IP	TRANSMISSION CONTROL PROTOCOL WITH INTERNET PROTOCOL
DEMARC	DEMARCATION	M	METER		TDD	TELECOMMUNICATIONS DEVICE FOR THE DEAF
DISC	DISCONNECT	mA	MILLIAMPERE		TDR	TIME DOMAIN REFLECTOMETER
DMP	DIGITAL MEDIA SIGNAL	MAG	MAGNETIC		TDR	TELECOM DEMARC ROOM
DP	DIGITAL MEDIA PLAYER  DISPLAYPORT	MB	MEGABYTE		TEL	TELEPHONE
DSL	DISPLATEORT  DIGITAL SUBSCRIBER LINE	Mbps	MEGABITS PER SECOND		TELCO	TELEPHONE COMPANY (SP)
DSP	DIGITAL SIGNAL PROCESSOR	МС	MAIN CROSS-CONNECT		TGB	TELECOMMUNICATIONS GROUND BUS BAR
DSS	DIGITAL SATELLITE SIGNAL	MDF	MAIN DISTRIBUTION FRAME		TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
DVI-D	DIGITAL VISUAL INTERFACE-DIGITAL	MECH	MECHANICAL		TMGB	TELECOMMUNICATIONS MAIN GROUND BUS BAR
DVI-I	DIGITAL VISUAL INTERFACE-INTEGRATED	MFR	MANUFACTURER		TP	TOUCH PANEL (CONTROL SYSTEM)
DWG	DRAWING DRAWING	MHz	MEGAHERTZ		TR	TELECOMMUNICATIONS ROOM
EBC	EQUIPMENT BONDING CONDUCTOR	mm	MILLIMETER		ТТВ	TELEPHONE TERMINAL BOARD
EIA	ELECTRONICS INDUSTRY ALLIANCE	MMFO	MULTI-MODE FIBER OPTIC		TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
ELEC	ELECTRIC OR ELECTRICAL	MNS	MASS NOTIFICATION SYSTEM		UBS	UNIFORM BUILDING CODE
ELEV	ELEVATOR	MPOE	MAIN POINT OF ENTRY		UC	UNDER COUNTER
EMC	ELECTROMAGNETIC COMPATIBILITY	MPOP	MINIMUM POINT OF PRESENCE		UG	UNDERGROUND
EMI	ELECTROMAGNETIC INTERFERENCE	MTR	MAIN TELECOM ROOM		UNO	UNLESS NOTED OTHERWISE
EMT	ELECTRIC METALLIC TUBING	NEC	NATIONAL ELECTRIC CODE		UPS	UNINTERRUPTIBLE POWER SUPPLY
ENG	ELECTRONIC NEWS GATHERING	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION		USB	UNIVERSAL SERIAL BUS
EX	EXISTING	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION		UTP	UNSHIELDED TWISTED PAIR
FA	FIRE ALARM	NIC	NETWORK INTERFACE CARD		V	VOLTAGE
FAA	FEDERAL AVIATION ADMINISTRATION	NID	NETWORK INTERFACE DEVICE		VC	VOLUME CONTROL
FACP	FIRE ALARM CONTROL PANEL	NIT	1 CANDELA PER SQUARE METER (FLAT		VGA	VIDEO GRAPHIC ARRAY (ANALOG COMPUTER SIGNAL, SEE ALSO RGBHV)
FLEX	FLEXIBLE		PANEL BRIGHTNESS)		VM	VOLTMETER
FM	FREQUENCY MODULATION	nm	NANOMETER		VTC	VIDEO TELECONFERENCE SYSTEM
FO	FIBER OPTIC	NTS	NOT TO SCALE		w	WATT
FP	FLAT PANEL (VIDEO DISPLAY)	OC	ON CENTER		WAN	WIDE AREA NETWORK
FTP	FILE TRANSFER PROTOCOL	OD	OUTSIDE DIAMETER		WATS	WIDE AREA TELECOMMUNICATIONS SERVICE
GA	GAUGE	OEM	ORIGINAL EQUIPMENT MANUFACTURER		WLAN	WIRELESS LOCAL AREA NETWORK (WIFI)
GALV	GALVANIZED	OFE	OWNER FURNISHED EQUIPMENT		WM	WIRELESS MICROPHONE
GB	GIGABYTE	OS	OPERATING SYSTEM		WP	WEATHER PROOF
GbPS	GIGABITS PER SECOND	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION		WT	WATERTIGHT
GC	GENERAL CONTRACTOR	OSP	OUTSIDE PLANT		XFMR	TRANSFORMER
GEN	GENERATOR	OTDR	OPTICAL TIME DOMAIN REFLECTOMETER		XP	EXPLOSION PROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER			Ш		

# GENERAL TECHNOLOGY SYSTEM REQUIREMENTS:

- 1. HEIGHTS SHOWN ARE TYPICAL TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE. ALL DEVICE OUTLETS SHALL BE MOUNTED VERTICALLY.
- MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE.

SHOULD BE ALLOWED FOR THIS REVIEW AND APPROVAL).

- 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. 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 GROUPED TOGETHER. THE LOCATION OF THESE

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.

RACEWAYS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. (EXTRA TIME

- 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.
- 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.).

## 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".
- BLIC ADDRESS 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)(CONTRACTOR)":"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 HIS/HER SUPPLIERS, SUBCONTRACTORS, AND EMPLOYEES. IF CLARIFICATION IS REQUIRED, CONSULT ARCHITECT BEFORE SUBMITTING BID.
  - 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 ANDCAT.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 TELE/DATA 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
  - 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 USINGINNER-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
  - 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

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∠ Date Description

2021.05.19 BP3: GOLDWALK - ISSUE FOR BID AND

--- 2021.05.21 BP4D - GONDOLA SQUARE INTERIORS BLDG. A, C AND F - ISSUE FOR PERMIT AND CONSTRUCTION

Seal / Signature

Steamboat Base Village

Redevelopment **Project Number** 

003.7835.000

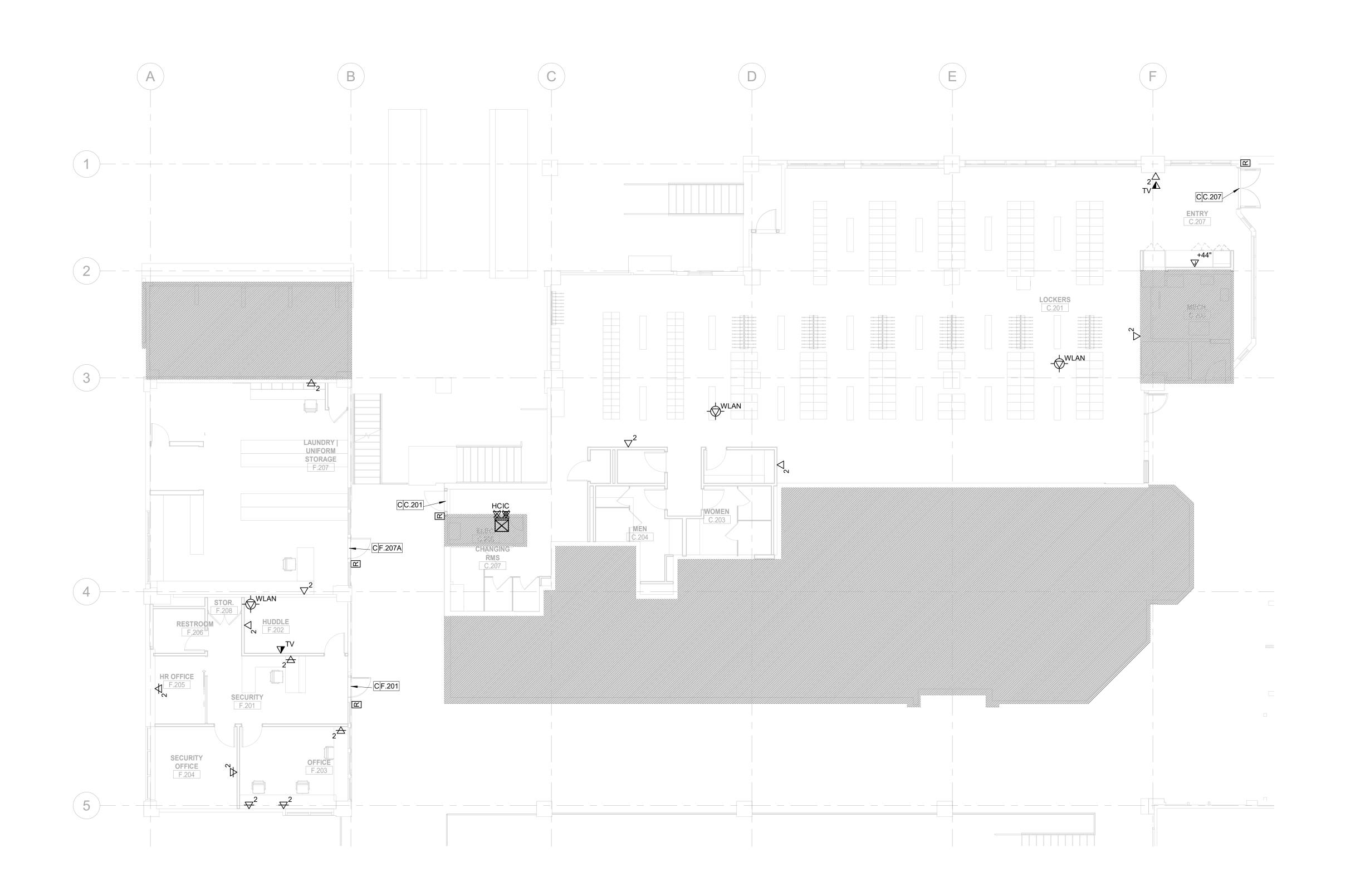
**ABBREVIATIONS** 

TECHNOLOGY GENERAL NOTES &

NO SCALE

T0.001

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**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 DIVSION 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

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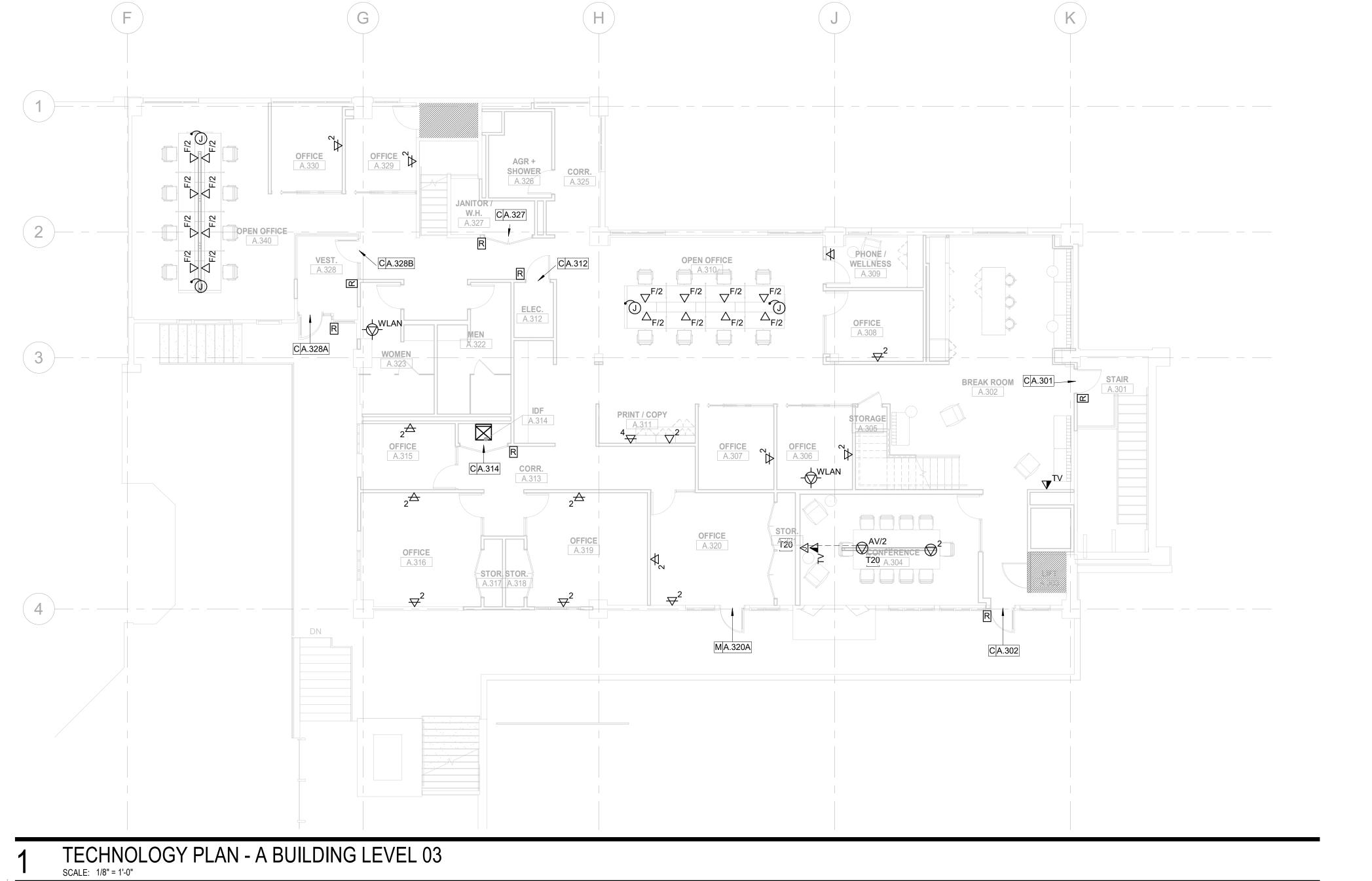
**KEY PLAN** 

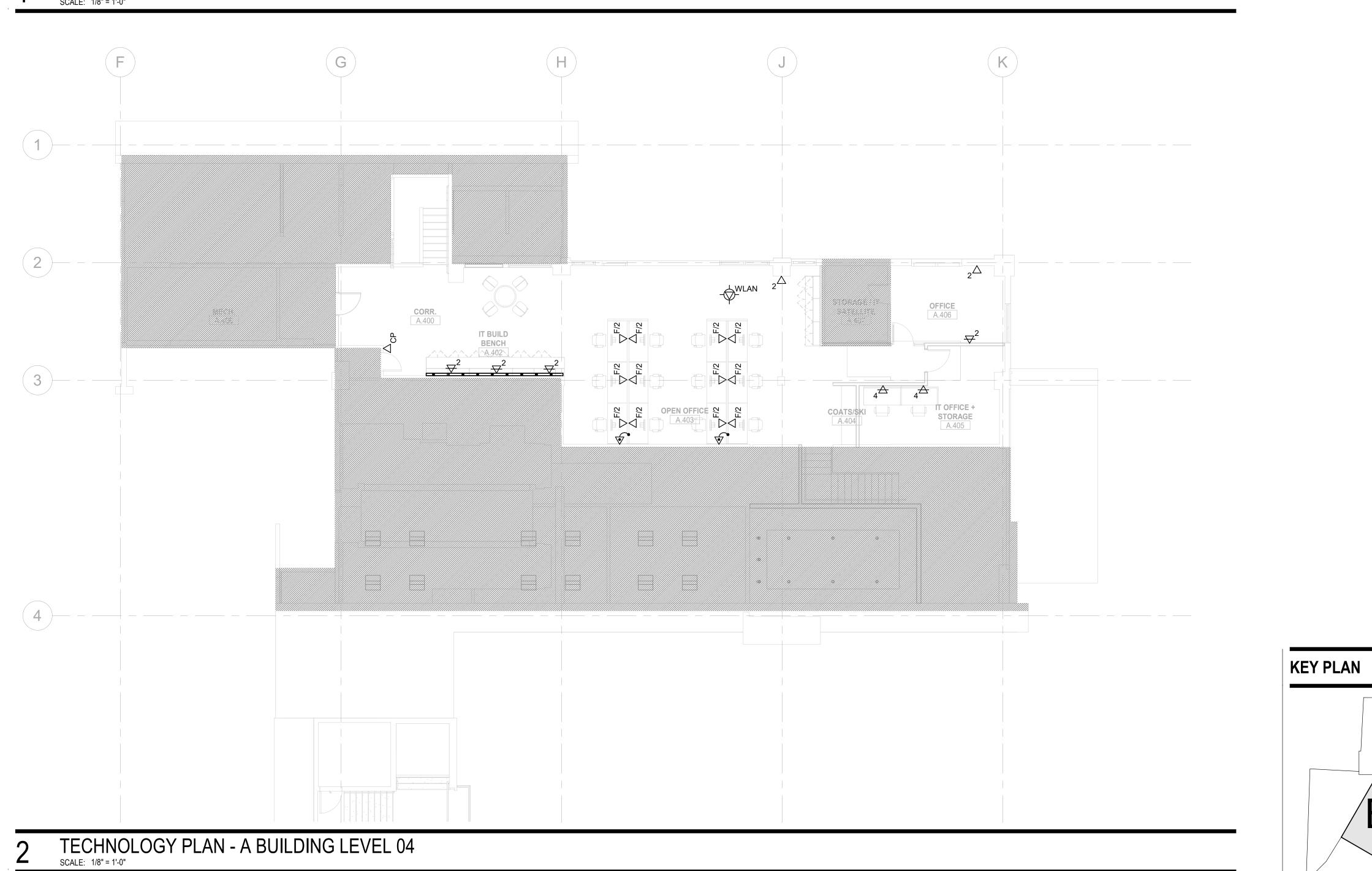
TECHNOLOGY PLAN - C & F BUILDING LEVEL 02

1/8" = 1'-0"

T1.202

TECHNOLOGY PLAN - C & F BUILDING LEVEL 02





**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 DIVSION 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** T20 INTERCONNECTING RACEWAY BETWEEN BACKBOXES.

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BLDG. A, C AND F - ISSUE FOR PERMIT
AND CONSTRUCTION

Seal / Signature

# Project Name

Steamboat Base Village Redevelopment
Project Number

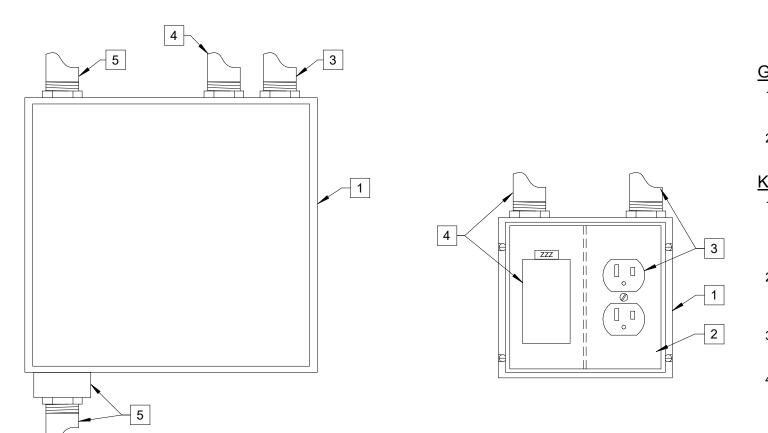
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TECHNOLOGY PLAN - A BUILDING LEVEL 03 & 04

1/8" = 1'-0"

T1.203

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TV POWER / LOW VOLTAGE DEVICE

# **GENERAL NOTES:**

- 1. REFER TO AV DOCUMENTS FOR ADDITIONAL REQUIREMENTS
- 2. REFER TO ARCHITECTURAL AND/OR AV DOCUMENTS FOR MOUNTING HEIGHTS AND/OR SPECIAL CONDITIONS.

RELATIVE TO TV / VIDEO MONITOR INFRASTRUCTURE.

- 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
- 3. POWER RACEWAY: PROVIDE 3/4-INCH CONDUIT TO POWER
- 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
- 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

**GENERAL NOTES:** 

REQUIREMENTS.

MOUNTED GROMMET OPENING.

FURNITURE CONNECTOR.

KEYNOTES: #

WALL MOUNTED FURNITURE FEED DEVICE

CONCRETE

\_\_ (1) 1 1/4" (DATA)

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,

1. BACK-BOX: PROVIDE 4-11/16" X 4-11/16 "X 3-1/4" (HUBBEL 260)

3. FACE PLATE: STAINLESS STEEL COVER PLATE WITH CENTER

5. FLEXIBLE DUCT FEED: PROVIDE (1) 1-1/2" POLYTUFF FLEXIBLE

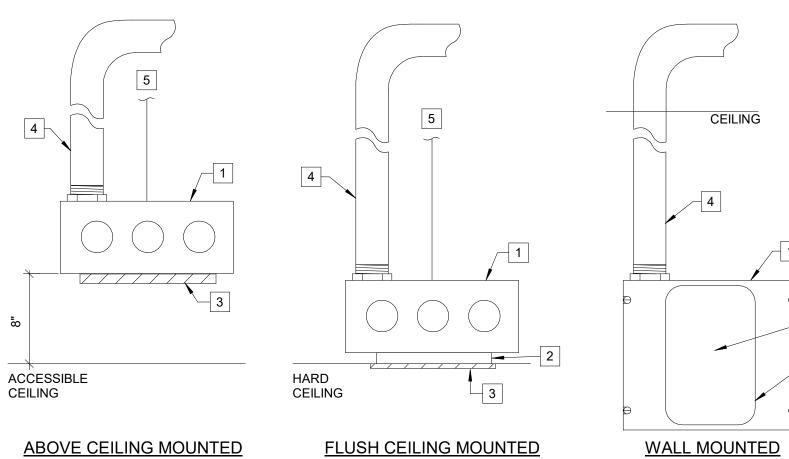
CONDUIT EXTENDED TO MODULAR FURNITURE.

2. CONDUIT: PROVIDE (1) 1-1/2" CONDUIT FOR LOW VOLTAGE CABLE.

4. CONDUIT FITTING: PROVIDE (1) 90-DEGREE CONDUIT FITTING FOR

FLUSH MOUNTED BOX WITH SINGLE GANG COVER PLATE.

SECURITY, ETC.) HAS SPECIFIC CONDUIT ROUTING



**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
- 5. SUPPORT: PROVIDE THREADED ROD ATTACHED TO STRUCTURE

(1) 1-1/4-INCH CONDUIT FOR (5-6) CABLES/PORT



**COMM RACEWAY DEVICES** 

SYMBOLS:  $\nabla X \rightarrow X$ 

### **GENERAL NOTES:**

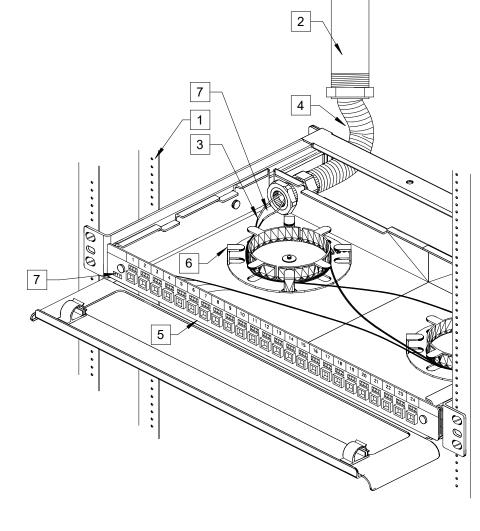
1. REFER TO DEVICE SYMBOL AND LEGEND DESCRIPTION FOR ADDITIONAL INFORMATION.

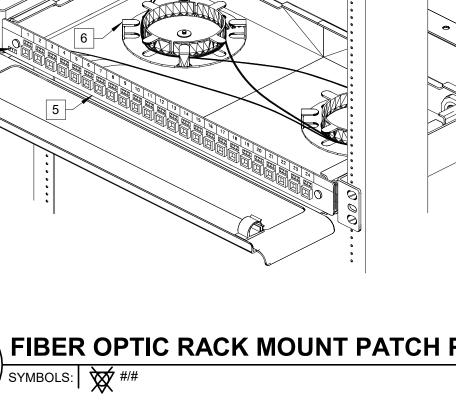
## KEYNOTES: #

- 1. EQUIPMENT RACK: SHOWN FOR REFERENCE ONLY. REFER TO PLAN DRAWINGS FOR REQUIREMENTS.
- 2. CONDUIT: PROVIDE CONDUIT FROM RACK LOCATION TO NEAREST CABLE TRAY OR COMM ROOM. REFER TO PLAN DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- 3. FIBER OPTIC CABLE: PROVIDE MMFO / SMFO STRANDS WHERE "MM" = MMFO STRAND COUNT AND "SM" = SMFO STRAND COUNT. (EX: 12/24 = 12-MMFO + 24-SMFO). ALL FIBER OPTIC CABLE SHALL ORIGINATE FROM FIBER OPTIC MAIN CROSS-CONNECT.
- 4. CABLE PROTECTION: PROVIDE (1) 1" PLENUM RATED/UL-LISTED FIBER OPTIC INNER-DUCT (OR ARMORED FIBER OPTIC CABLE).
- 5. FIBER OPTIC TERMINATIONS: PROVIDE LC-TYPE TERMINALS MOUNTED IN (1) 24-PORT MODULAR PATCH PANEL WITH FIBER CABLE ORGANIZER.
- 6. FIBER OPTIC CABLE SPOOL: PROVIDE FIBER OPTIC CABLE SPOOL(S).
- 7. LABELS: PROVIDE WHITE LABELS WITH BLACK TEXT TO NOTE STATION ID (YYY), TERMINATION ID (ZZZ) AND CABLE ID (XXX). REFER TO TYPICAL DEVICE LABELING

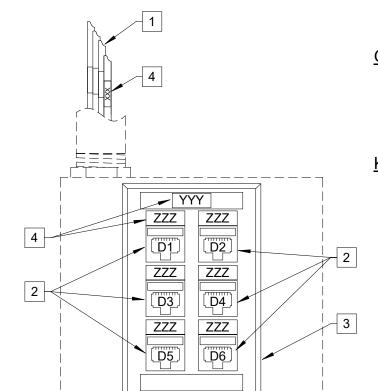
DETAIL FOR ADDITIONAL REQUIREMENTS.







FIBER OPTIC RACK MOUNT PATCH PANEL



# **GENERAL NOTES:**

- 1. REFER TO DETAIL R.01 FOR RACEWAY REQUIREMENTS INCLUDING BACK-BOX AND CONDUIT.
- 2. PROVIDE MODULAR DUST COVER(S) ON ALL UNUSED FACEPLATE PORTS AS REQUIRED.

# KEYNOTES: #

- 1. DATA CABLE: PROVIDE 4-PAIR UTP CABLE(S) ORIGINATING FROM THE NEAREST HORIZONTAL CROSS-CONNECT (HC). REFER TO DEVICE SYMBOL AND LEGEND DESCRIPTION FOR CABLE QUANTITIES.
- 2. DATA TERMINATIONS: PROVIDE RJ45 TYPE MODULAR JACK INTERCONNECTED TO EACH UTP CABLE. PROVIDE COLORED PORTS ACCORDING TO THE COLOR SCHEDULE ON THE
- . FACE PLATE: PROVIDE MODULAR FACEPLATE WITH PORTS AS REQUIRED PER CABLE COUNTS.
- 4. LABELS: PROVIDE WHITE LABELS WITH BLACK TEXT TO NOTE STATION ID (YYY), TERMINATION ID (ZZZ) AND CABLE ID (XXX). REFER TO TYPICAL DEVICE LABELING DETAIL FOR ADDITIONAL REQUIREMENTS.

SYMBOLS: 7 # 7 ATM/# POS/# P AV

**VOICE/DATA DEVICE (5 OR 6 PORTS)** 

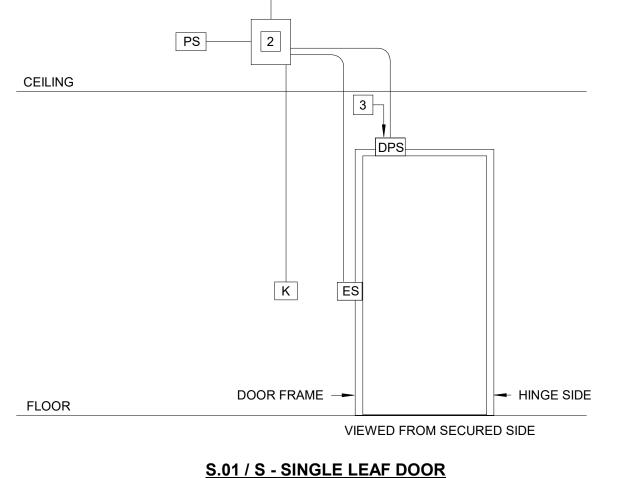
- 1. INTENT OF THIS DETAIL IS TO DEPICT STRUCTURED CABLING REQUIREMENTS. REFER TO OTHER SYSTEMS DRAWINGS (AV, SECURITY, ETC.) FOR BACK-BOX REQUIREMENTS SPECIFIC TO EACH DEVICE TYPE. SELECT DEVICES MAY REQUIRE SPECIALIZED BACK-BOX TYPES, SIZES AND MOUNTING CONDITIONS.
- 2. CONTRACTOR TO PROVIDE DATA OUTLET(S) MOUNTED IN PLENUM RATED BISCUIT IN LIEU OF BACK-BOX FOR DEVICES LOCATED ABOVE ACCESSIBLE CEILINGS.

# KEYNOTES: #

QUANTITIES.

- DEVICE SYMBOL AND LEGEND DESCRIPTION FOR CABLE
- 2. DATA TERMINATIONS: PROVIDE RJ45 TYPE MODULAR JACK INTERCONNECTED TO EACH UTP CABLE. CABLE AND JACK SHALL REMAIN LOOSE INSIDE BACK-BOX.
- 3. LABELS: PROVIDE WHITE LABELS WITH BLACK TEXT TO NOTE STATION ID (YYY), TERMINATION ID (ZZZ) AND CABLE ID (XXX) ACTUAL LABELING SCHEME SHALL BE COORDINATED WITH THE OWNER AND ENGINEER. REFER TO COMMUNICATION AND CABLE DETAILS.





SYMBOLS: V

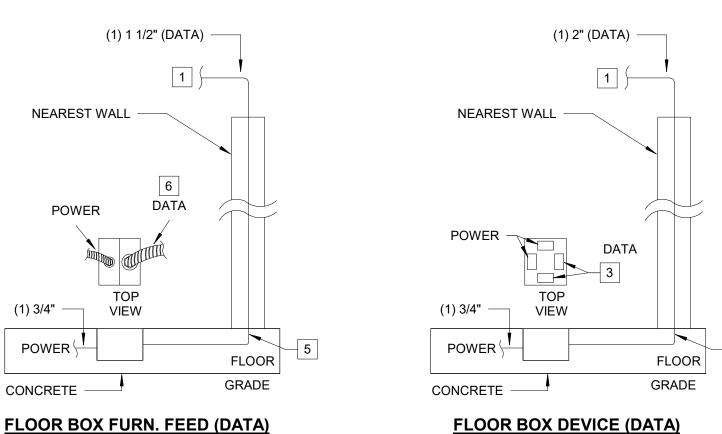
KEYNOTES: #

- 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 50 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.

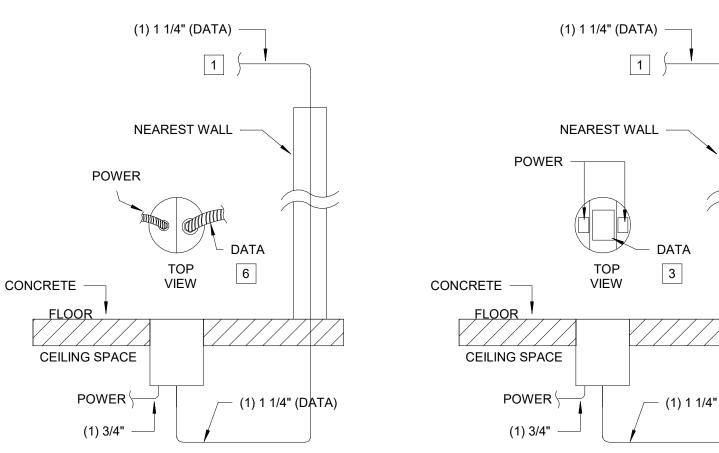
(1) 3/4"

SYMBOLS:

**SECURITY ACCESS CONTROL SYSTEM DETAILS** SYMBOLS:



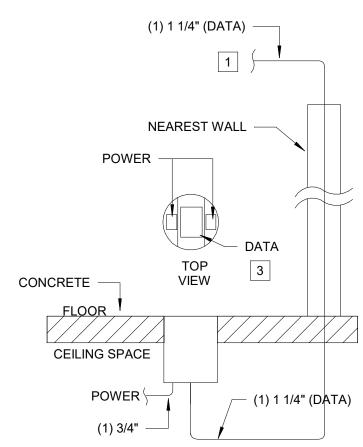
BASIS OF DESIGN: LEGRAND EFBFF-OG



**BOTTOM VIEW** POKE THRU FURN. FEED DEVICE (DATA)

BASIS OF DESIGN: LEGRAND 4FFATC

SYMBOLS:



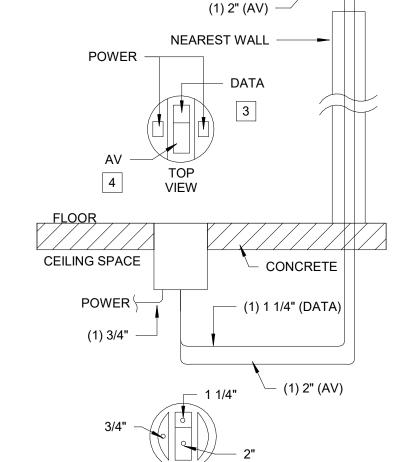
BASIS OF DESIGN: LEGRAND RFB4E-OG

**BOTTOM VIEW** 

SYMBOLS: 🔘 #

**POKE THRU DEVICE (DATA)** 

BASIS OF DESIGN: LEGRAND 6AT



SYMBOLS: \

**NEAREST WALL** 

**VIEW** 

**FLOOR BOX DEVICE (DATA & AV)** 

BASIS OF DESIGN: LEGRAND EFB8S-OG

POWER \

(1) 1" —

SYMBOLS:  $\bigcirc_{AV/\#}$ 

FLOOR

GRADE

**POKE THRU DEVICE (DATA & AV)** BASIS OF DESIGN: LEGRAND 8AT SYMBOLS:  $\bigcirc_{AV/\#}$ 

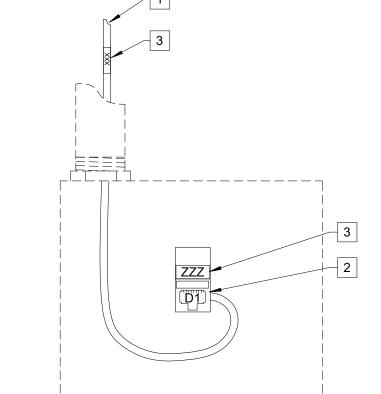
**BOTTOM VIEW** 

# **GENERAL NOTES**

- 1. FLOOR BOX DETAILS ARE SCHEMATIC IN NATURE AND DEPICT COMMON PATHWAY REQUIREMENTS. INSTALLATION REQUIREMENTS MAY VARY BASED ON FIELD CONDITION SUCH AS WALL TYPE.
- 2. FLOOR BOX DEVICES SHALL BE INSTALLED WITHIN FLOORS THAT RESIDE ON GRADE. ENCASE ENTIRE FLOOR BOX AND CONDUIT WITHIN CONTRETE SLAB. IN CASES WHERE THE FLOOR SLAB THICKNESS DOES NOT SUPPORT SPECIFIED FLOOR BOX DEPTH, PROVIDE ADDITIONAL TRENCHING AS REQUIRED TO ENCASE FLOOR BOX AND CONDUIT. COORDINATE ALL FINAL LOCATION WITH ARCHITECTURAL AND DIVISION 03 PRIOR TO INSTALL.
- 3. POKE THRU DEVICES SHALL BE INSTALLED WITHIN FLOORS CAPABLE OF PROVIDING A CORE OPENING ACCORDING TO MANUFACTURER'S REQUIREMENTS. FLOOR SHALL NOT BE AT GRADE LEVEL AND SHALL HAVE AN ACCESSIBLE LEVEL BELOW. PROVIDE FIRE RATING APPROPRIATE TO FLOOR FIRE RATING, REFER TO DIVISION 7.
- 4. BASIS OF DESIGN (BOD) PRODUCT INFORMATION IS BASED ON A COORDINATED SOLUTION FOR ALL SYSTEMS. ANY PRODUCT SUBSTITUTIONS SHALL BE APPROVED BY LOW VOLTAGE ENGINEER PRIOR TO INSTALLATION TO ENSURE DESIGN INTENT IS MET.
- 5. REFER OT ELECTRICAL DOCUMENTS FOR ALL POWER REFERENCES.

# KEYNOTES #

- 1. REFER TO COMMUNICATION LEGEND PATHWAY REQUIREMENT NOTES FOR CONDUIT CONTINUATION REQUIREMENTS.
- 2. REFER TO AUDIOVISUAL LEGEND PATHWAY REQUIREMENT NOTES FOR CONDUIT CONTINUATION REQUIREMENTS.
- 3. DATA OUTLETS: REFER TO DETAIL C.05 FOR DATA TERMINATION REQUIREMENTS. PROVIDE STYLE-LINE (DECORA) FRAME AT EACH DATA COMPARTMENT.
- 4. AV OUTLETS: PROVIDE APPROPRIATE ACCESSORIES FOR AV OUTLET TYPE AND QUANTITY AS REQUIRED PER AV DOCUMENTS. IN CASE WHERE HD-BASE-T TRANSMITTER IS LOCATED WITHIN DEVICE, UTILIZE STAND OFFS TO PROVIDE INSTALL SPACE AND HEAT DISSIPATION AS NECESSARY.
- 5. CONDUIT BENDS: IF FLOOR DEPTH IS NOT SUFFICIENT TO ACCOMIDATE CONDUIT BEND RADIUS, A HORIZONTAL 90 DEGREE BEND CAN BE UTILIZED TO PUT CONDUIT IN LINE WITH WALL SECTION IN ORDER TO BEND CONDUIT VERTICALLY INTO WALL. TOTAL CONDUIT BENDS SHALL NOT EXCEED (3) 90 DEGREE BENDS BEFORE PULL BOX IS UTILIZED
- 6. FLEXIBLE WHIP: PROVIDE 1 1/4-INCH FLEXIBLE CONDUIT WHIP EXTENDED FROM COVER PLATE TO MODULAR FURNITURE.



1. DATA CABLE: PROVIDE 4-PAIR UTP CABLE(S) ORIGINATING FROM THE NEAREST HORIZONTAL CROSS-CONNECT (HC). REFER TO

**FLOOR DEVICE DETAILS** SYMBOLS: SYMBOLS SHOWN ABOVE

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**∆** Date Description 2021.05.19 BP3: GOLDWALK - ISSUE FOR BID AND

--- 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 DETAILS

1/8" = 1'-0"

T8.000