

6 5 4 3 2 1  
E  
D  
C  
B  
A



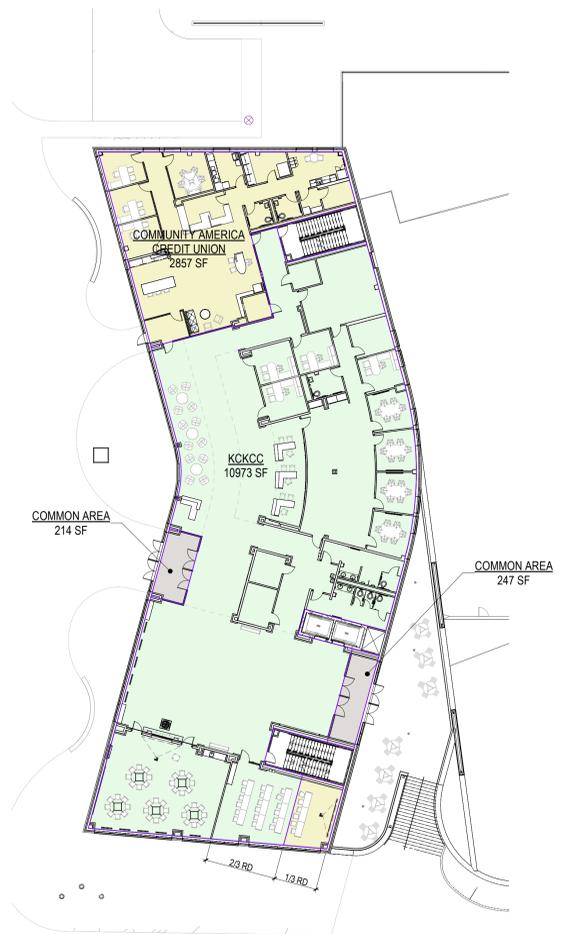
**PARTNER ALLOCATION - LEVEL 5 C4**  
3/64" = 1'-0"



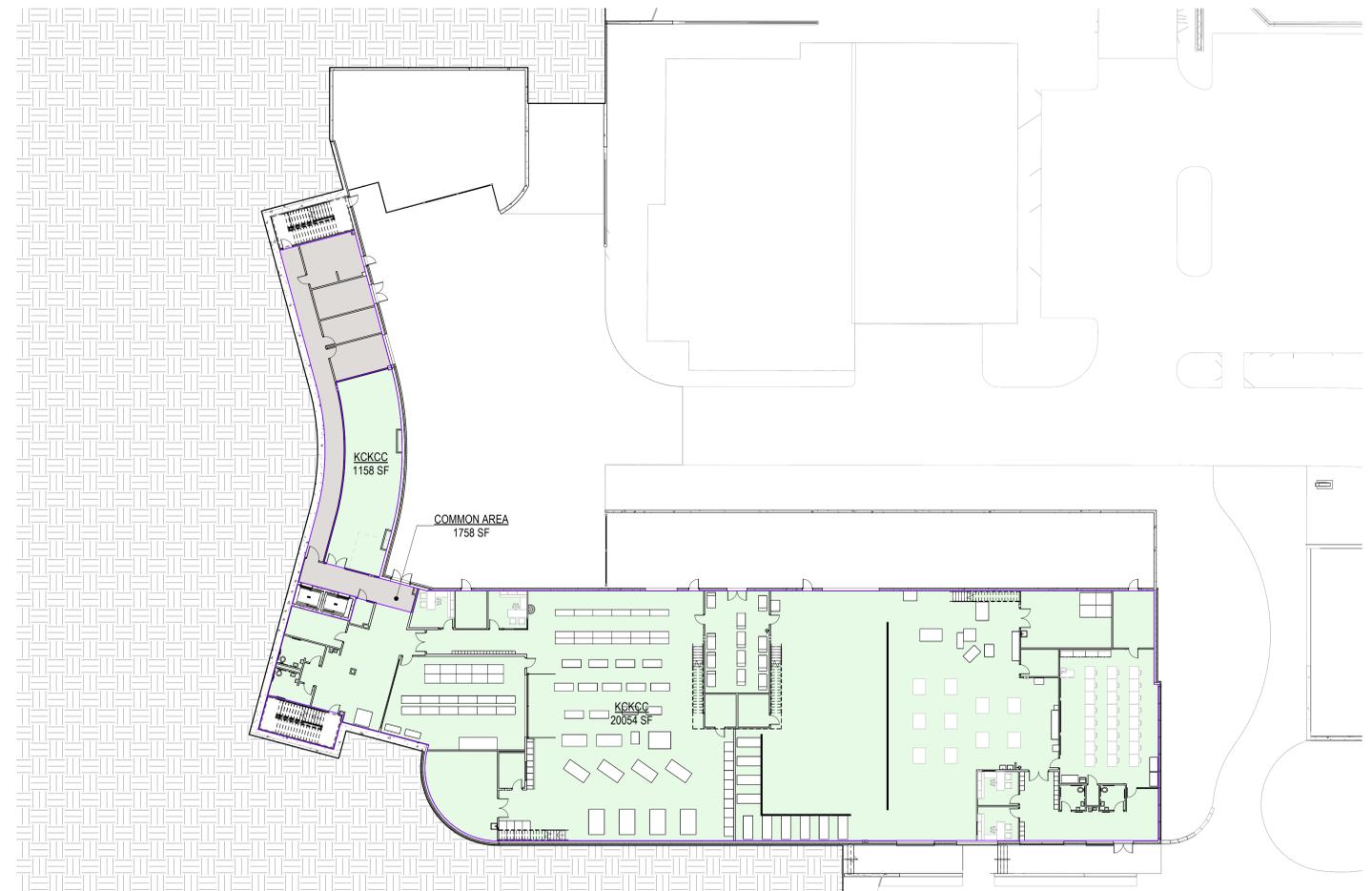
**PARTNER ALLOCATION - LEVEL 4 C3**  
3/64" = 1'-0"



**PARTNER ALLOCATION - LEVEL 3 C2**  
3/64" = 1'-0"



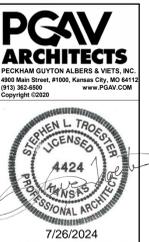
**PARNTER ALLOCATIONS - LEVEL 2 A4**  
3/64" = 1'-0"



**PARTNER ALLOCATIONS - LEVEL 1 A1**  
3/64" = 1'-0"

- COMMON AREA
- COMMUNITY AMERICA CREDIT UNION
- KCKCC
- SWOPE HEALTH

TI AREA - OVERALL	
Name	Area
COMMON AREA	2219 SF
COMMUNITY AMERICA CREDIT UNION	3128 SF
KCKCC	6439 SF
SWOPE HEALTH	15991 SF
	85729 SF



7/26/2024

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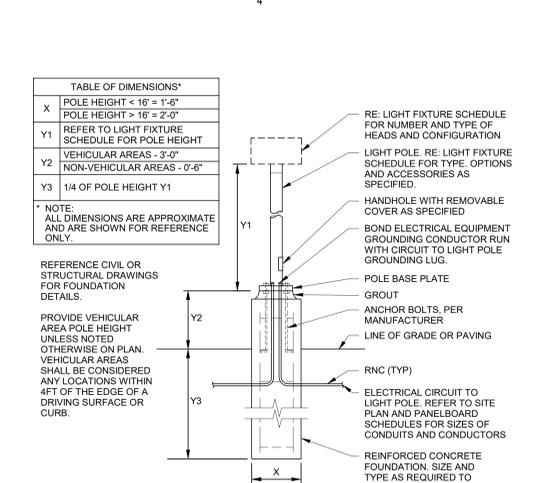
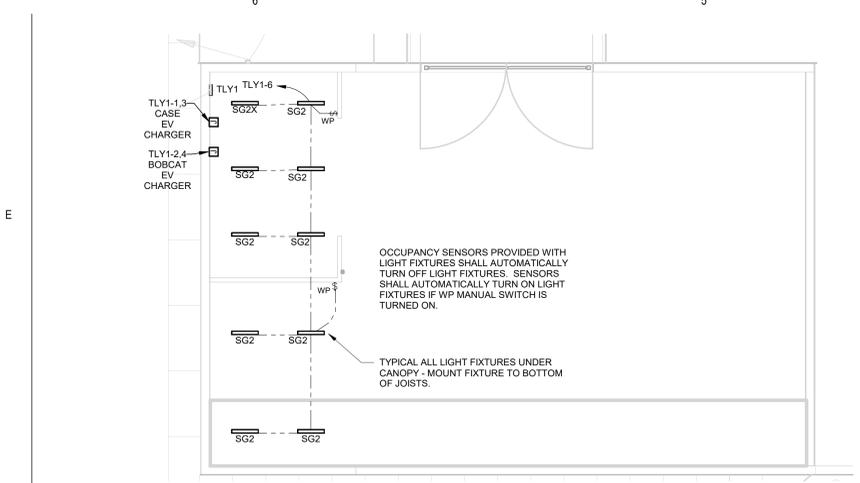
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**COMMUNITY EDUCATION, HEALTH & WELLNESS CENTER**  
KANSAS CITY, KANSAS COMMUNITY EDUCATION, HEALTH & WELLNESS CENTER CONDOMINIUM ASSOCIATION  
1101 NORTH 17TH STREET, KANSAS CITY, KS 66101

#	DATE	DESCRIPTION
		<b>BID PACKAGE #2</b>
		Original Size: 11x17 Drawing may have been reduced
		<b>PARTNER ALLOCATIONS</b>
DATE:	5/17/2024	
PGAV #:	53664-00	CLIENT #:
SHEET #:		

**A003**

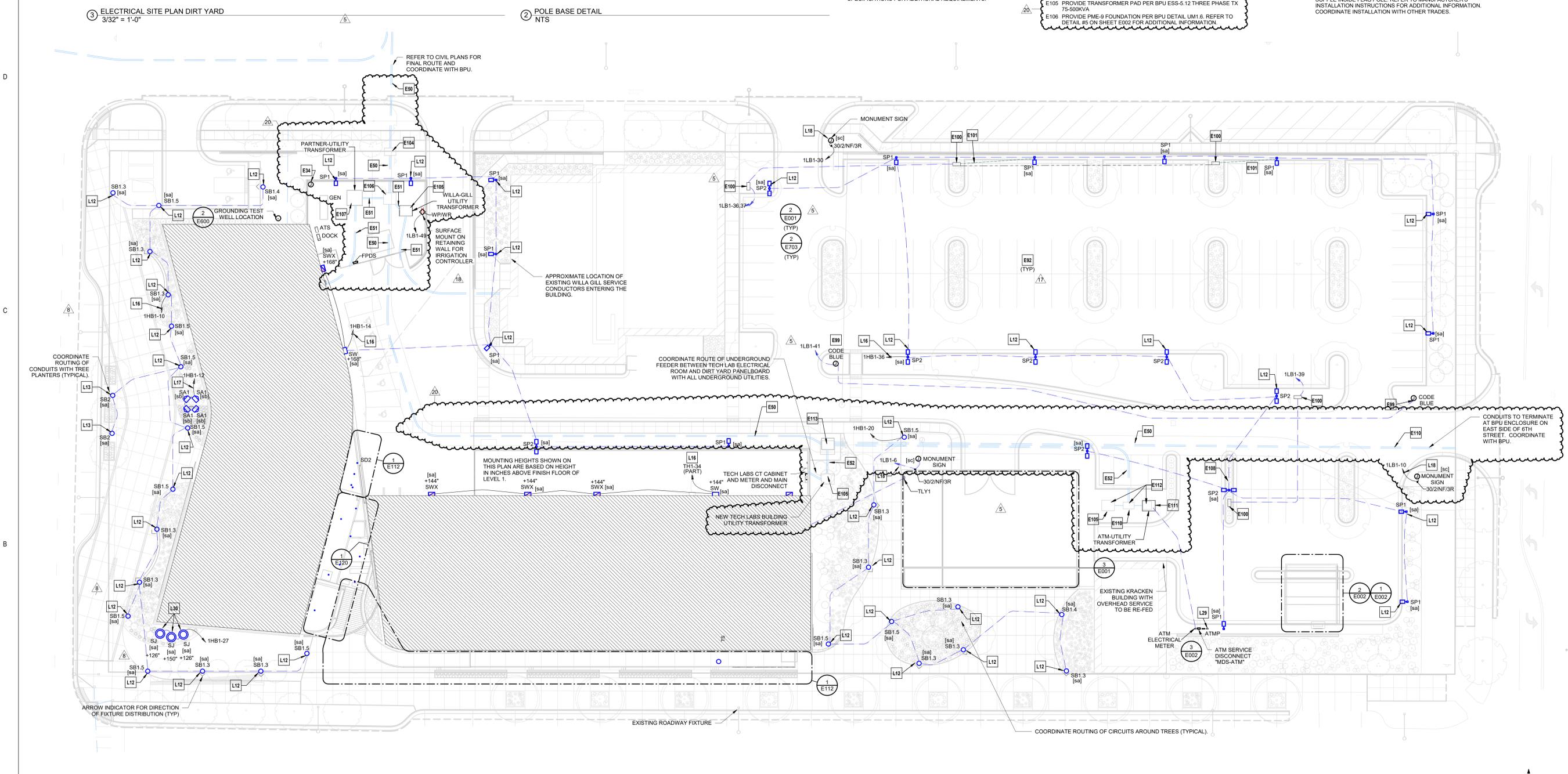
7/26/2024 2:55:03 PM Autodesk Docs:53664-00-KCC-Community Education Health and Wellness Center:53664-00-KCC-CERHC-R023.rvt



- SITE ELECTRICAL GENERAL NOTES:**
- REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE THE FINAL LOCATION OF ALL SITE LIGHTING POLES, SIGNAGE, UNDERGROUND UTILITIES, CONDUITS, CIRCUITRY, TRANSFORMERS AND OTHER EQUIPMENT WITH CIVIL DRAWINGS, LANDSCAPING DRAWINGS AND OWNER PRIOR TO INSTALLATION.
  - SITE ELECTRICAL CONDUITS SHALL BE 1" MINIMUM, UNLESS NOTED OTHERWISE. WHERE PRACTICABLE, ALL SITE ELECTRICAL CONDUITS SHALL BE INSTALLED A MINIMUM OF 24" BELOW GRADE, UNLESS NOTED OTHERWISE. COORDINATE FINAL CONDUIT ROUTING WITH EXISTING OBSTRUCTIONS AND OTHER TRADES AND ADJUST AS NECESSARY.
  - CAF AND MARK ALL UNDERGROUND CONDUITS PROVIDED FOR FUTURE USE AND INCLUDE PULL STRINGS. PROVIDE DIMENSIONED LOCATIONS OF TERMINATION POINTS ON AS-BUILT DRAWINGS AND SUBMIT TO OWNER.
  - MINIMUM WIRE SIZE FOR SITE ELECTRICAL CIRCUITS SHALL BE #10 AWG CU, UNLESS NOTED OTHERWISE. ALL SITE ELECTRICAL BRANCH CIRCUIT WIRING SHALL BE SIZED SUCH THAT THE MAXIMUM BRANCH CIRCUIT VOLTAGE DROP IS LESS THAN 3 PERCENT.
  - PROVIDE SPICE AND PULL BOXES FOR SITE LIGHTING AND SITE ELECTRICAL POWER TO LIMIT MAXIMUM CONDUIT RUN TO 300'. PLACE BOXES IN A PLANTER AREA CLEAR OF VEGETATION WHEREVER PRACTICABLE. (COORDINATE FINAL LOCATION WITH CIVIL, LANDSCAPE CONTRACTOR AND OWNER). BOXES SHALL BE SUITABLE FOR LOCATION AND PROPERLY SIZED FOR ELECTRICAL CIRCUITRY. CONTRACTOR SHALL PROVIDE LOCATION ON AS-BUILT DRAWINGS AND SUBMIT TO OWNER. SPICE BOX SHALL BE APPROPRIATE FOR LOCATION AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SPICE BOX SHALL HAVE A MINIMUM NOMINAL SIZE OF 12"X12"X12". SHALL BE AN OPEN BOTTOM NRTL LISTED UNDERGROUND ENCLOSURE. AND SHALL AT A MINIMUM BE TIER 15 TRAFFIC RATED. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

- ELECTRICAL PLAN NOTES:**
- E34 PROVIDE (1) 3/4" CONDUIT AND (1) SINGLE GANG NEMA-3R JUNCTION BOX WITH COVER PLATE FOR SECURITY CAMERA ROUGH-IN. ROUTE CONDUIT BACK TO ELEC ROOM 101. VERIFY ROUTING WITH OWNER PRIOR TO COMMENCEMENT OF WORK. COORDINATE MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
  - E50 PROVIDE (1) 4" CONDUIT AND (1) 40 CONDUITS CONCRETE ENCASED WHERE UNDER PAVEMENT PER BPU STANDARD REQUIREMENTS. REFER TO CIVIL DRAWINGS FOR ROUTING.
  - E51 INSTALL (2) 4" CONDUITS CONCRETE ENCASED WHERE UNDER PAVEMENT ENCLOSURE. CONCRETE ENCASED WHERE UNDER PAVEMENT PER BPU STANDARD REQUIREMENTS. REFER TO CIVIL DRAWINGS FOR ROUTING.
  - E52 INSTALL (2) 4" CONDUITS CONCRETE ENCASED BETWEEN BPU ENCLOSURES PER BPU STANDARDS. REFER TO CIVIL PLANS FOR ROUTING.
  - E92 UNLESS DIRECTED OTHERWISE BY KKKC SECURITY, ALL CONDUITS INDICATED FOR FIBER SHALL BE ROUTED TO LEVEL 111 ROOM 111. CURRENT DRAWINGS INTENT FOR CONDUITS IS AS FOLLOWS:
    - CONDUITS SERVING BLUE PHONES MAY BE INSTALLED IN SERIES; ONLY ONE CONDUIT TO THE FIRST SECURITY ENCLOSURE CONDUIT ON TO ADDITIONAL CODE BLUE PHONES.
    - CONDUITS SERVING POLE MOUNTED CAMERAS MAY BE INSTALLED IN SERIES; ONE CONDUIT TO THE FIRST SECURITY ENCLOSURE WITH POWER HOMERUN INDICATED, THEN CONTINUE CONDUIT FOR FIBER ON TO ADDITIONAL SECURITY ENCLOSURES.
  - E99 LOCATION OF CODE BLUE PUBLIC TELEPHONE. PROVIDE POWER AND (1) 1" CONDUIT WITH PULL STRING FROM LOCATION OF CODE BLUE STATION BACK TO BUILDING IT. ROOM FOR FIBER OPTIC CABLING. COORDINATE INSTALLATION WITH OTHER TRADES.
  - E100 PROVIDE 24" TALL, 16" WIDE, AND 12" DEEP (MIN) HOFFMAN NVENT NEMA 3R ENCLOSURE WITH HINGED GASKETED LOCKABLE COVER, LOW FILTERED INTAKE WITH TOP FRONT HOOD EXHAUST AND FAN. POWDER FINISHED STEEL WITH LOW SOLAR ABSORPTION. INSTALL 20A, 120V, WEATHER RESISTANT GFCI RECEPTACLE WITHIN ENCLOSURE. RECEPTACLE AND FAN SHALL BE ON SAME CIRCUIT. INSTALL BASE SUPPORT AS REQUIRED BY MANUFACTURER WITH BOTTOM INTAKE 6-INCHES ABOVE FINISHED GRADE. COORDINATE INSTALLATION WITH OTHER TRADES.
  - E101 INSTALL CONDUIT BELOW GRADE FROM FIBER CONVERTER ENCLOSURE TO POLE WITH SECURITY DEVICES. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
  - E104 INSTALL PRIMARY ENCLOSURE FURNISHED BY BPU PER ESS-5.15
  - E105 PROVIDE TRANSFORMER PAD PER BPU ESS-5.12 THREE PHASE TX 75-500KVA
  - E106 PROVIDE PMS-9 FOUNDATION PER BPU DETAIL UM1.6. REFER TO DETAIL #5 ON SHEET E002 FOR ADDITIONAL INFORMATION.

- ELECTRICAL PLAN NOTES:**
- E107 PROVIDE TRANSFORMER PAD PER BPU ESS-5.13 THREE PHASE TX 750-2500KVA
  - E108 PROVIDE FLUSH GRADE PULL BOX ADJACENT TO POLE WHERE MORE THAN TWO RACEWAYS FEED FIXTURES AND WILL NOT REMAIN CONCEALED WITHIN POLE EXTENTS.
  - E110 INSTALL PRIMARY ENCLOSURE FURNISHED BY BPU PER ESS-5.15 25-100 KVA
  - E111 PROVIDE TRANSFORMER PAD PER BPU ESS-5.9 SINGLE PHASE TX 25-100 KVA
  - E112 10' CLEAR AT NORTH SIDE OF ALL THREE ITEMS. 3' AT EAST, WEST, AND SOUTH SIDES
  - E113 PROVIDE PMS-9 FOUNDATION PER BPU DETAIL UM1.6. REFER TO DETAIL #4 ON SHEET E002 FOR ADDITIONAL INFORMATION.
  - L12 INSTALL LIGHT POLE IN NON-VEHICULAR AREA. LOCATE EDGE OF CONCRETE BASE A MINIMUM OF 4 FEET FROM INSIDE EDGE OF CURB.
  - L13 INSTALL TOP EDGE OF CONCRETE BASE FLUSH WITH ADJACENT PAVED SURFACE.
  - L16 LIGHTING CONTROL VIA WIRELESS CONTROL SYSTEM FOR PARKING, DRIVES & SIDEWALKS PER LIGHTING CONTROL SEQUENCE OF OPERATIONS ON SHEET E701
  - L17 LIGHTING CONTROL VIA LIGHTING CONTROL PANEL FOR LANDSCAPE, FACADE AND ARTWORK. PER LIGHTING CONTROL SEQUENCE OF OPERATIONS ON SHEET E701
  - L18 LIGHTING CONTROL VIA LIGHTING CONTROL PANEL FOR PARKING, DRIVES & SIDEWALKS PER LIGHTING CONTROL SEQUENCE OF OPERATIONS ON SHEET E701
  - L29 PROVIDE TWO SEPARATE ASTRONOMIC 7-DAY 1-CIRCUIT ELECTRONIC CONTROL IN NEMA 3R OUTDOOR METAL ENCLOSURES. TIMERS SHALL BE EQUAL TO INTERMATIC MODEL ET2950CR PROGRAMMABLE FOR ON/OFF EVENTS AND 100-HOUR INTEGRAL BATTERY BACKUP. ONE TIMECLOCK TO CONTROL SIGNAGE. ONE TIMECLOCK TO CONTROL LIGHTING. PROGRAM PER EACH REQUIREMENTS. PROVIDE SLOPED TOP HOFFMAN BOX WITH LOCKABLE HINGED DOOR TO CONCEAL TIMECLOCKS. EQUAL TO MODEL CSD161685T. STEEL BOX. IP66 RATING AND SUPPORTED BY SLOTTED STEEL SUPPORT STRUCTURE.
  - L30 TYPE SJ LIGHTS MOUNTED TO FLAG POLE. MOUNT FLAG LIGHTS AT MANUFACTURER SPECIFIED HEIGHT BASED ON HEIGHT OF EACH FLAG FLOW FROM POLE. PROVIDE WITH INVENTRONICS 24V CLASS 2 POWER SUPPLY (CAT#LWU-040D105DF). MOUNT POWER SUPPLY INSIDE FLAG POLE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION. COORDINATE INSTALLATION WITH OTHER TRADES.



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1101 NORTH 17TH STREET, KANSAS CITY, KS 66101

20 02/20/2025 PR-05  
18 02/07/2025 AS-08  
17 01/10/2025 AS-07  
8 08/15/2024 City Comments  
5 08/14/2024 Addendum #3  
# DATE DESCRIPTION

**BID PACKAGE #3**

Original Size: 11x17 Drawing may have been reduced

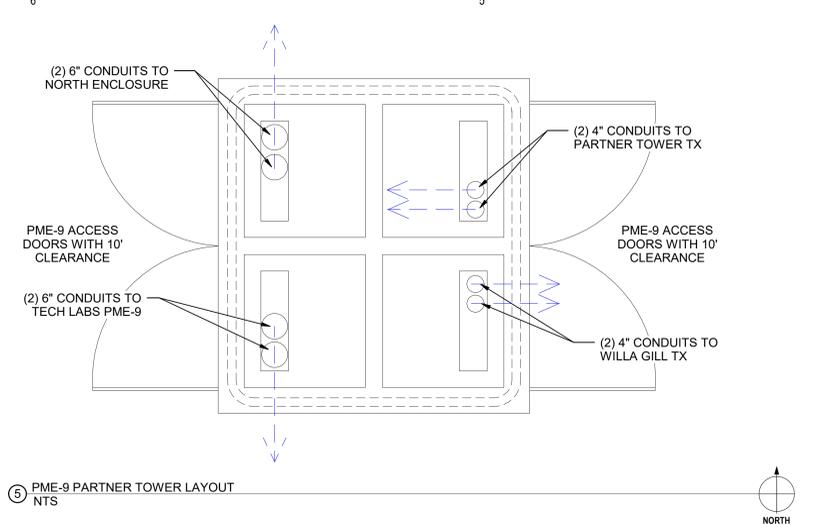
**ELECTRICAL SITE PLAN**

DATE: 7/26/2024  
CLIENT: PGAV # 53664-00  
SHEET #

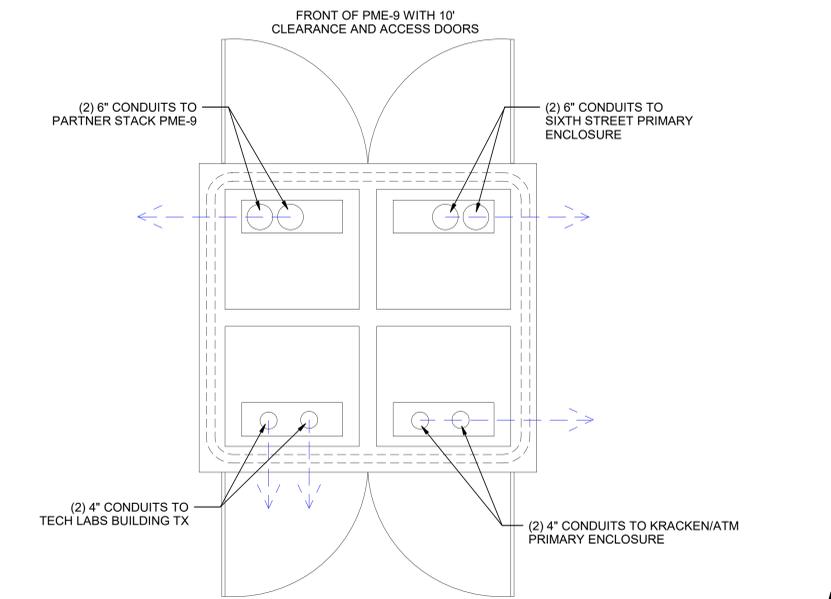
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22/000010  
KS. CORPORATE NO. E-325  
EXPIRES 12/31/2025

**E001**



⑥ PME-9 PARTNER TOWER LAYOUT NTS



④ PME-9 TECH LABS LAYOUT NTS

**PANELBOARD: ATMP**

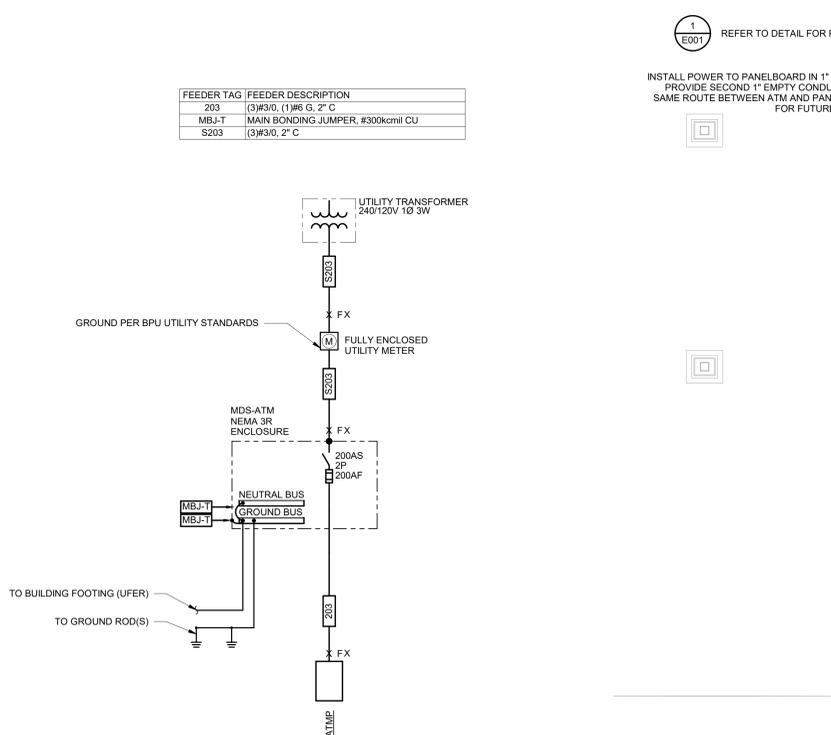
BUS AMPS: 200A  
 MAIN SIZE/TYPE: MLO  
 VOLTS/PHASE: 120/240 V 1P/3W  
 SUPPLIED BY: REFER TO ONE-LINE

FAULT CURRENT:  
 AIC RATED:  
 AIC RATING:  
 SERVES:  
 MOUNTING:  
 LOCATION: SURFACE

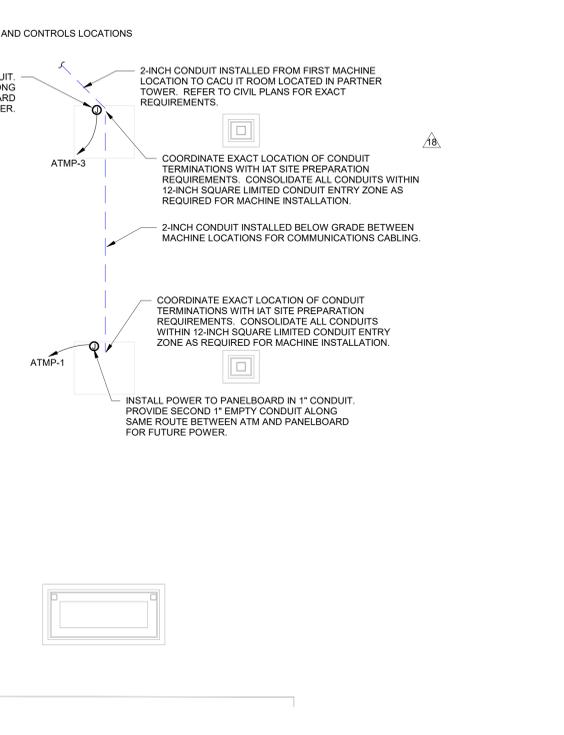
EQUIPMENT GROUND BUS

CKT NO.	DESCRIPTION	LOAD TYPE	LOAD	NOTES	WIRE SIZE	BKR AMP	P	PHASE A		PHASE B		P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.	
								A	B	A	B								
1	ATM #1	Z	10 VA		10	30	1	2400	1270			1	20	12	L Z	ATM CANOPY LIGHTING	2		
3	ATM #2	Z	10 VA		10	30	1					1	20	12	S	SIGNAGE DISPLAY	4		
5	SPARE		0 VA		20	1		0	0	0	0	1				EQUIPPED SPACE	6		
7	SPARE		0 VA		20	1		0	0	0	0	1				EQUIPPED SPACE	8		
9	SPARE		0 VA		20	1		0	0	0	0	1				EQUIPPED SPACE	10		
11	SPARE		0 VA		20	1		0	0	0	0	1				EQUIPPED SPACE	12		
13	SPARE		0 VA		20	1		0	0	0	0	1				EQUIPPED SPACE	14		
15	SPARE		0 VA		20	1		0	0	0	0	1				EQUIPPED SPACE	16		
17	SPARE		0 VA		20	1		0	0	0	0	1				EQUIPPED SPACE	18		
19	SPARE		0 VA		20	1		0	0	0	0	1				EQUIPPED SPACE	20		
21	SPARE		0 VA		20	1		0	0	0	0	1				EQUIPPED SPACE	22		
23	SPARE		0 VA		20	1		0	0	0	0	1				EQUIPPED SPACE	24		
25	SPARE		0 VA		20	1		0	0	0	0	1				EQUIPPED SPACE	26		
27	SPARE		0 VA		20	1		0	0	0	0	1				EQUIPPED SPACE	28		
29	SPARE		0 VA		20	1		0	0	0	0	1				EQUIPPED SPACE	30		
TOTAL LOAD (VA):								3670 VA	3600 VA										
TOTAL AMPS:								31 A	30 A										

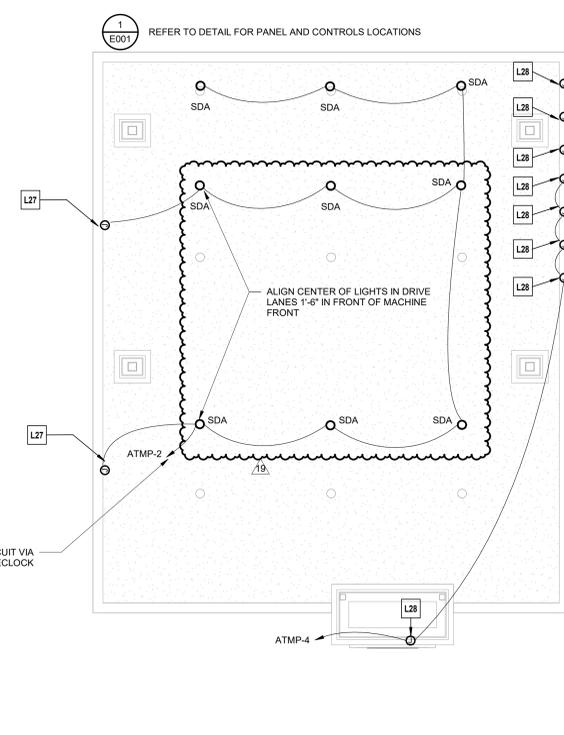
LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND	PANELBOARD NOTES	PANELBOARD TOTALS
EXISTING LOAD (E)	0 VA	100%	0 VA		TOTAL CONNECTED LOAD 7270 VA
COOLING (C)	0 VA	0%	0 VA		TOTAL NEC LOAD 7638 VA
HEATING (H)	0 VA	100%	0 VA		TOTAL CONNECTED CURRENT 30 A
LIGHTING (L)	270 VA	125%	338 VA		TOTAL NEC DEMAND CURRENT 32 A
RECEPTACLES (R)	0 VA	0%	0 VA		
MOTORS (M)	0 VA	100%	0 VA		
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA		
MISC EQUIP (Z)	5800 VA	100%	5800 VA		
REFRIGERATION (F)	0 VA	100%	0 VA		
SIGNAGE (S)	1200 VA	125%	1500 VA		
KITCHEN (K)	0 VA	100%	0 VA		
LARGEST MOTOR	0 VA	125%	0 VA		
SHOW WINDOW (W)	0 VA	125%	0 VA		
TRACK LIGHTING	0 VA	100%	0 VA		



③ ELECTRICAL ONELINE DIAGRAM-ATM NTS



② POWER PLAN - ATM CANOPY 1/4" = 1'-0"



① LIGHTING - ATM CANOPY 1/4" = 1'-0"

**ELECTRICAL PLAN NOTES:**  
 L27 PROVIDE JUNCTION BOX FOR SURFACE MOUNTED LANE LIGHTS. COORDINATE EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND OWNER PRIOR TO ROUGH-IN.  
 L28 POWER FOR ILLUMINATED SIGNAGE. PROVIDE ALL BOXES AND RACEWAYS REQUIRED FOR ALL CONNECTIONS PER MANUFACTURER REQUIREMENTS.

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03/07/2025

**APRIL L. HALLING**  
 LICENSED PROFESSIONAL ENGINEER  
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20 02/20/2025 PR-05  
 19 3/07/2025 ASH-09  
 18 02/07/2025 ASH-08  
 # DATE DESCRIPTION

**BID PACKAGE #3**

Original Size: 11x17 Drawing may have been reduced

**ELECTRICAL SITE ATM PLANS**

DATE: 7/26/2024  
 CLIENT: PGAV # 53664-00  
 SHEET: E002

**HENDERSON ENGINEERS**  
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225000100  
 KS CORPORATE NO. E-325  
 EXPIRES 12/31/2025

APRIL L. HALLING  
 3/6/2025 9:53:19 AM  
 Autodesk Docs:53664-00/KCC/Community Education Health and Wellness Center/225000100/KCC/CHWC\_MEP\_02.rvt

# TELECOMMUNICATIONS SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.

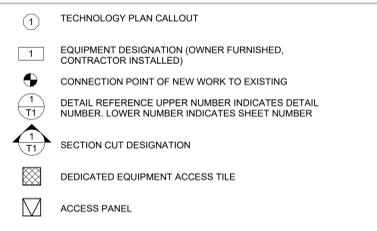
STANDARD MOUNTING HEIGHTS	
TELECOM BACKBOARD (BOTTOM OF BACKBOARD)	4"
LADDER RACK IN TELECOM ROOMS (BOTTOM OF DEVICE)	90"
CABLE TRAY / CONDUIT AFC (BOTTOM OF PATHWAY)	3'(MIN)
LIGHT FIXTURE IN TELECOM ROOMS (BOTTOM OF DEVICE)	108"(MIN)
TELEPHONE WALL OUTLET (TOP OF DEVICE)	46"
DATA WALL OUTLET (SAME AS ADJACENT DEVICE, UNO TELEVISION OUTLET REFER TO ARCH DRAWINGS)	46"
TMGB/TGB (CENTERLINE)	84"
WALL CLOCK (CENTERLINE)	84"
INTERCOM (TOP OF DEVICE)	46"

INSTALL DEVICES AT THE MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ARE ABOVE FINISHED FLOOR (AFF) OR ABOVE FINISHED GRADE (AFG) TO TOP OF OUTLET BOX. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.

## ABBREVIATIONS

A	AMPERES	LAN	LOCAL AREA NETWORK
ADA	AMERICANS WITH DISABILITIES ACT	LCC	LIMITED COMBUSTIBLE CABLE
AFC	ABOVE FINISHED CEILING	LED	LIGHT-EMITTING DIODE
AFF	ABOVE FINISHED FLOOR	LF	LINEAR FEED
AFG	ABOVE FINISHED GRADE	MAN	METROPOLITAN AREA NETWORK
AHJ	AUTHORITY HAVING JURISDICTION	MATV	MASTER ANTENNA TELEVISION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MC	MAIN CROSS-CONNECT
AP	ACCESS POINT	MDF	MAIN DISTRIBUTION FRAME
AV	AUDIO-VIDEO	MFR	MANUFACTURER
AWG	AMERICAN WIRE GAUGE	MH	MAINTENANCE HOLE
BAS	BUILDING AUTOMATION SYSTEM	MM	MULTIMODE
BBC	BACKBONE BONDING CONDUCTOR	MPOE	MAIN POINT OF ENTRANCE
BD	BUILDING DISTRIBUTOR	MPOP	MAIN POINT OF PRESENCE
BDF	BUILDING DISTRIBUTION FRAME	MTD	MOUNTED
BFC	BELOW FINISHED CEILING	N/A	NOT APPLICABLE
C	CONDUIT	NEC	NATIONAL ELECTRICAL CODE
CAT	CATEGORY	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CATV	COMMUNITY ANTENNA TELEVISION	NIC	NOT IN CONTRACT
CCTV	CLOSED CIRCUIT TELEVISION	NI	NANOMETRY
CD	CAMPUS DISTRIBUTOR	NRTL	NATIONALLY RECOGNIZED TESTING LAB
CMF	COMMUNICATIONS PLENUM JACKET	OC	ON CENTER
CMR	COMMUNICATIONS RISER JACKET	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
DAS	DISTRIBUTED ANTENNA SYSTEM	OSP	OUTSIDE PLANT
db	DECIBELS	PBB	PRIMARY BONDING BUSBAR
DEMO	DEMOLITION	PBX	PRIVATE BRANCH EXCHANGE
(E)	EXISTING	POE	POWER OVER ETHERNET
ECIA	ELECTRONIC CONTRACTOR INDUSTRY ASSOCIATION	PON	PASSIVE OPTICAL NETWORK
EMI	ELECTROMAGNETIC INTERFERENCE	POTS	PLAIN OLD TELEPHONE
EMS	ENERGY MANAGEMENT SYSTEM	PSSTN	PUBLIC SWITCHED TELEPHONE NETWORK
EMT	ELECTRICAL METALLIC TUBING	QTY	QUANTITY
ER	EQUIPMENT ROOM	RCDD	REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
ETR	EXISTING TO REMAIN	RMC	RIGID METAL CONDUIT
FAAP	FIRE ALARM ANNUNCIATOR PANEL	RU	RACK UNIT
FACP	FIRE ALARM CONTROL PANEL	SBB	SECONDARY BONDING BUSBAR
FD	FLOOR DISTRIBUTOR	SCS	STRUCTURED CABLING SYSTEM
FMC	FLEXIBLE METAL CONDUIT	SF	SQUARE FEET
FS	FIRE STOP SYSTEM	SM	SINGLEMODE
FLR	FLOOR	SPECS	SPECIFICATIONS
FUTP	SCREEN TWISTED PAIR (SHIELDED)	TBB	TELECOMMUNICATIONS BONDING BACKBONE
GC	GENERAL CONTRACTOR	TBD	TO BE DETERMINED
GYP	GYPSUM BOARD	TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
HCM	HORIZONTAL CABLE CONNECT	TR	TELECOMMUNICATIONS ROOM
HC	HORIZONTAL CROSS-CONNECT	TYP	TYPICAL
HU/TP	UNSHIELDED TWISTED PAIR	UNO	UNLESS NOTED OTHERWISE
Hz	HERTZ	UL	UNDERWRITER LABORATORIES, INC.
IMC	INTERMEDIATE METAL CONDUIT	UPS	UNINTERRUPTIBLE POWER SUPPLY
IP	INTERNET PROTOCOL	U/UTP	UNSHIELDED TWISTED PAIR
ISP	INTERNET SERVICE PROVIDER	VCM	VERTICAL CABLE MANAGER
ISP	INSIDE PLANT CABLE	W	WIRE
JB	JUNCTION BOX	WAN	WIDE AREA NETWORK
J-BOX	JUNCTION BOX	WAO	WORK AREA OUTLET
		WAP	WIRELESS ACCESS POINT
		WP	WEATHER PROOF
		WR	WEATHER RESISTANT
		WT	WATERTIGHT
		XP	EXPLOSION-PROOF

## TELECOMMUNICATIONS ROOM



## TELECOMMUNICATIONS OUTLETS

SYMBOL	DESCRIPTION
TV	DATA WALL OUTLET FOR TV AT HEIGHT SPECIFIED BY OWNER, DOUBLE GANG BOX, SINGLE GANG MUD-RING, 3/4" CONDUIT TO ABOVE CEILING
▽	DATA WALL OUTLET, DOUBLE GANG BOX, SINGLE GANG MUD-RING, 3/4" CONDUIT TO ABOVE CEILING
▽	DATA WALL OUTLET, ABOVE COUNTER, DOUBLE GANG BOX, SINGLE GANG MUD-RING, 3/4" CONDUIT TO ABOVE CEILING

## ANNOTATION

①	TECHNOLOGY PLAN CALLOUT
1	EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)
⊕	CONNECTION POINT OF NEW WORK TO EXISTING
① T1	DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER, LOWER NUMBER INDICATES SHEET NUMBER
① T1	SECTION CUT DESIGNATION
⊞	DEDICATED EQUIPMENT ACCESS TILE
▽	ACCESS PANEL

## LINETYPE LEGEND

THROUGHOUT THE DRAWINGS DIFFERENT LINE TYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF THE NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.

EXISTING	NEW
DEMOLISH	FUTURE

PATHWAYS	
W"xH	WIRE MESH CABLE TRAY (W=WIDTH, H=HEIGHT)
—	VERTICAL CABLE TRAY
(#) D"	UNDERGROUND CONDUIT ("#"-QUANTITY, "D"-CONDUIT DIAMETER)
(#) D"	CONDUIT ("#"-QUANTITY, "D"-CONDUIT DIAMETER)
—	CABLE SUPPORTS OR J-HOOKS
(#) D"	CONDUIT SLEEVE ("#"-QUANTITY, "D"-CONDUIT DIAMETER)
FS	UL FIRESTOP SYSTEM ASSEMBLY
PB L"xW"xH"	PULL BOX ("L"-LENGTH, "W"-WIDTH, "H"-HEIGHT)
SC	SPLICE

## DISTRIBUTED ANTENNA SYSTEM (DAS) DEVICES

SHOWN FOR REFERENCE ONLY	
SYMBOL	DESCRIPTION
▽ C	CELLULAR DISTRIBUTED ANTENNA SYSTEM CEILING MOUNTED DEVICE
▽ PS	PUBLIC SAFETY DISTRIBUTED ANTENNA SYSTEM CEILING MOUNTED DEVICE
▽ C	CELLULAR DISTRIBUTED ANTENNA SYSTEM WALL MOUNTED DEVICE
▽ PS	PUBLIC SAFETY DISTRIBUTED ANTENNA SYSTEM WALL MOUNTED DEVICE

## ROUGH-IN OUTLETS

ROUGH-IN ONLY SCHEDULE		BACK BOX	CONDUIT
R/FF	FURNITURE FEED, WALL BOX ROUGH-IN	2-GANG BACKBOX WITH 2" GROMMET	(2) 2" EMT
FF	FURNITURE FEED, FLOOR BOX ROUGH-IN	REFER TO SCHEDULE ON DRAWINGS	(2) 1-1/4" EMT
FF	FURNITURE FEED, POKE THROUGH ROUGH-IN	REFER TO SCHEDULE ON DRAWINGS	EMT TO ACCESS CEILING
R/S	AUDIO-VIDEO SPEAKER, WALL ROUGH-IN	INSTALL AV PROVIDER'S SPEAKER BACK CAN	(1) 3/4" EMT
R/S	AUDIO-VIDEO SPEAKER, WALL ROUGH-IN	INSTALL AV PROVIDER'S SPEAKER BACK CAN	(1) 3/4" EMT
1	AUDIO-VIDEO TELEVISION, CEILING ROUGH-IN	2-GANG BACKBOX WITH 2-GANG COVER PLATE	(2) 1-1/2" EMT
1	AUDIO-VIDEO TELEVISION, WALL ROUGH-IN	2-GANG BACKBOX WITH 2-GANG COVER PLATE	(2) 1-1/2" EMT
R/AV	AUDIO-VIDEO PLATE, CEILING ROUGH-IN	2-GANG BACKBOX WITH 2-GANG COVER PLATE	(2) 1-1/2" EMT
R/AV	AUDIO-VIDEO PLATE, WALL ROUGH-IN	2-GANG BACKBOX WITH 2-GANG COVER PLATE	(2) 1-1/2" EMT
R/MP	SECURITY MICROPHONE, WALL ROUGH-IN	2-GANG BACKBOX WITH 2-GANG COVER PLATE	(2) 1-1/2" EMT
R/EL	SECURITY ELECTRIFIED LOCK, ROUGH-IN	NA	(1) 3/4" EMT TO DOOR FRAME
R/OR	SECURITY CARD READER, WALL ROUGH-IN	1-GANG BACKBOX WITH 1-GANG COVER PLATE	(1) 3/4" EMT
R/RE	SECURITY REQUEST-TO-EXIT, WALL ROUGH-IN	1-GANG BACKBOX WITH 1-GANG COVER PLATE	(1) 3/4" EMT
R/CAM	SECURITY CAMERA, CEILING ROUGH-IN	INSTALL SECURITY PROVIDER'S BACKBOX	(1) 1" EMT
R/CAM	SECURITY CAMERA, WALL ROUGH-IN	1-GANG BACKBOX WITH 1-GANG COVER PLATE	(1) 1" EMT
R/IC	SECURITY INTERCOM, CEILING ROUGH-IN	1-GANG BACKBOX WITH 1-GANG COVER PLATE	(1) 1" EMT
R/IC	SECURITY INTERCOM, WALL ROUGH-IN	1-GANG BACKBOX WITH 1-GANG COVER PLATE	(1) 1" EMT
R/KP	SECURITY KEYPAD, WALL ROUGH-IN	1-GANG BACKBOX WITH 1-GANG COVER PLATE	(1) 1" EMT
R/PB	SECURITY PANIC BUTTON, WALL ROUGH-IN	1-GANG BACKBOX WITH 1-GANG COVER PLATE	(1) 1" EMT
R/MD	SECURITY MOTION DETECTOR, CEILING ROUGH-IN	1-GANG BACKBOX WITH 1-GANG COVER PLATE	(1) 1" EMT
R/MD	SECURITY MOTION DETECTOR, WALL ROUGH-IN	1-GANG BACKBOX WITH 1-GANG COVER PLATE	(1) 1" EMT

## TELECOMMUNICATIONS RESPONSIBILITY MATRIX

Description	Not applicable to the project	Furnish		Install	
		Construction Team	Owner	Construction Team	Owner
<b>General Communications</b>					
Grounding and Bonding		X		X	
Hangers and Supports		X		X	
Conduits and Backboxes		X		X	
Cable Trays		X		X	
Surface Raceways		X		X	
Underground pathways for utility entrance and floor boxes		X		X	
Firestops, Conduit Sleeves, and Sleeve Seals		X		X	
Vibration and Seismic Controls	X				
<b>Structured Cabling</b>					
Telecom Room Cabinets, Racks, Frames, and Enclosures			X		X
Telecom Room Buildout (ex. backboard and ladder rack)			X		X
Telecom Room Uninterruptible Power Supply (UPS)			X		X
Telecom Room Power Strips			X		X
Optical Fiber Backbone Cable and Connectivity			X		X
Copper Backbone Cable and Connectivity			X		X
Coaxial Backbone Cable and Connectivity			X		X
Copper Horizontal Cable and Connectivity			X		X
Coaxial Horizontal Cable and Connectivity			X		X
<b>Data Communications</b>					
Router / Firewall			X		X
Core Switch / Edge Switch			X		X
Wireless Access Points			X		X
Servers / Storage and Backup			X		X
Laptops / Desktops / Copiers / Printers / Scanners			X		X
Time Clock			X		X
Software			X		X
<b>Voice Communications</b>					
VoIP Gateway / Analog handsets			X		X
VoIP handset wall mount kit			X		X
VoIP handsets			X		X
VoIP Network Licensing			X		X
Cellular Elevator Phones			X		X
<b>Audio-Video Communications</b>					
Conduits and Backboxes for AV systems			X		X
Master Antenna Television Distribution System			X		X
Refer to AV drawings for AV Scope			X		X
<b>Distributed &amp; Monitoring Communications</b>					
Overhead Analog/IP Paging			X		X
Paging through Fire Alarm System			X		X
Area of Refuge Systems			X		X
Wireless Clock Systems			X		X
Analog/IP Clock Systems			X		X
Public Safety Distributed Antenna Systems (DAS)			X		X
<b>Electronic Safety and Security</b>					
Conduits and Backboxes for Security systems			X		X
Refer to Security drawings (by others) for Security Scope			X		X

## GENERAL NEW WORK NOTES

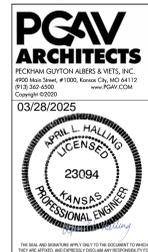
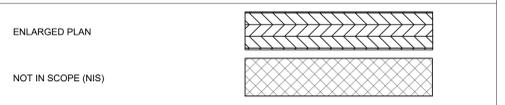
1. READ THE SPECIFICATIONS AND REVIEW DRAWINGS OF ALL DIVISIONS OF WORK. COORDINATE THIS WORK WITH ALL OTHER DIVISIONS OF WORK AND ALL SUBCONTRACTORS.
2. ALL WORK SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS (DIVISION 26, etc) AND THE CUSTOMER PRE-ESTABLISHED STRUCTURED CABLING STANDARDS. SHOULD DIFFERENCES EXIST IN THE SPECIFICATIONS RELATING TO TECHNOLOGY AND THE CLIENT'S PRE-ESTABLISHED STANDARDS THE CONTRACTOR SHALL CONTACT THE LOW VOLTAGE ENGINEER FOR CLARIFICATION THROUGH THE RFI PROCESS.
3. FULLY COORDINATE ALL CABLE TRAY, FIRE STOP CONDUITS / SLEEVES, AND CONDUIT ROUTING WITH STRUCTURAL ELEMENTS. COORDINATE CABLE TRAY AND CONDUIT INSTALLATIONS WITH ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR, AND GENERAL CONTRACTOR PRIOR TO INSTALLATION. ROUTING IN CONCRETE SLAB OR UNDER SLAB (WHERE CONDUIT WOULD BE ON GRADE) REQUIRES THE USE OF WET LOCATION RATED CABLES.
4. ALL TELECOMMUNICATIONS CONTINUOUS PATHWAYS SHALL BE BONDED TO THE TELECOMMUNICATIONS BONDING BACKBONE. FOR CONDUITS, INSULATION BUSHINGS SHALL BE USED AT THE END OF THE CONDUIT THE FARTHEST AWAY FROM THE SERVING TR. A BONDING BUSHING SHALL BE USED AT THE END CLOSEST TO THE SERVING TR. CONTRACTOR TO REFER TO THE ANSI-STD-J-607 STANDARD FOR ADDITIONAL INFORMATION AS TO THE INSTALLATION OF THE TELECOMMUNICATIONS BONDING BACKBONE.
5. ALL FIRE RATED WALL / FLOOR ASSEMBLIES PENETRATED FOR TELECOMMUNICATIONS CABLING PATHWAYS SHALL BE FIRE STOPPED WITH THE APPROVED FIRE STOP SYSTEMS (FIS). ALL FIRESTOP SYSTEMS SHALL BE INSTALLED AS DIRECTED BY THE MANUFACTURER AND AS SPECIFIED IN DIVISION 07 07 84 00 - "FIRESTOPPING". FIRE STOP ASSEMBLY LOCATIONS ARE TO BE COORDINATED WITH CABLE TRAY PATHWAY TO TELECOMMUNICATIONS ROOM.
6. BACK BOXES AND CONDUIT LOCATIONS IN PRECAST CONCRETE WALLS SHALL BE COORDINATED WITH ARCHITECT, STRUCTURAL ENGINEER, AND GC PRIOR TO ORDERING THE PRECAST WALLS.
7. TELECOMMUNICATIONS ROOMS SHALL BE DEDICATED FOR INFORMATION TECHNOLOGY USE (I.E. NO SHARED SPACE WITH A JANITOR, FIRE ALARM SYSTEM, ETC). NO SERVICES SHALL PASS THROUGH THE SPACE UNLESS DEDICATED TO THE SPACE (NO PLUMBING, MECHANICAL, ELECTRICAL, FIRE, ETC. UNLESS SPECIFICALLY REQUIRED TO SERVE TELECOMMUNICATIONS ROOM DIRECTLY).

## TWO-WAY COMMUNICATIONS GENERAL NOTES AND LEGEND

1. TWO-WAY COMMUNICATION SYSTEM SHALL PROVIDE COMMUNICATION AT EACH LOCATION AND A CENTRAL CONTROL POINT LOCATION APPROVED BY THE FIRE DEPARTMENT. WHERE THE CENTRAL CONTROL POINT IS NOT A CONSTANTLY ATTENDED LOCATION, THE TWO-WAY COMMUNICATION SYSTEM SHALL HAVE A TIMED AUTOMATIC TELEPHONE DIAL-OUT CAPABILITY TO A MONITORING LOCATION OR 9-1-1. (PER IBC 1009.8.1)
2. DIRECTIONS FOR USE OF THE TWO-WAY COMMUNICATION SYSTEM AND WRITTEN IDENTIFICATION OF THE LOCATION SHALL BE POSTED ADJACENT TO THE TWO-WAY COMMUNICATION SYSTEM. SIGNAGE SHALL COMPLY WITH THE ICC A117.1 REQUIREMENTS FOR VISUAL CHARACTERS. (PER IBC 1009.8.2)
3. THE TWO-WAY COMMUNICATION SHALL BE HANDS-FREE DEVICE AND SHALL PROVIDE BOTH AUDIBLE AND VISUAL SIGNALS TO INDICATE COMMUNICATION HAS OCCURRED, AND INDICATE TO THE RECEIVER THE LOCATION SENDING THE SIGNAL. (PER IBC 1009.8.1 AND NFPA 72, 24.10.7)

TWO-WAY COMMUNICATION DEVICE. PROVIDE CABLE FROM CALL BOX TO COMMAND CENTER PER MANUFACTURER'S RECOMMENDATIONS. REFER TO KEYNOTES FOR ADDITIONAL INFORMATION.

## HATCHING LEGEND



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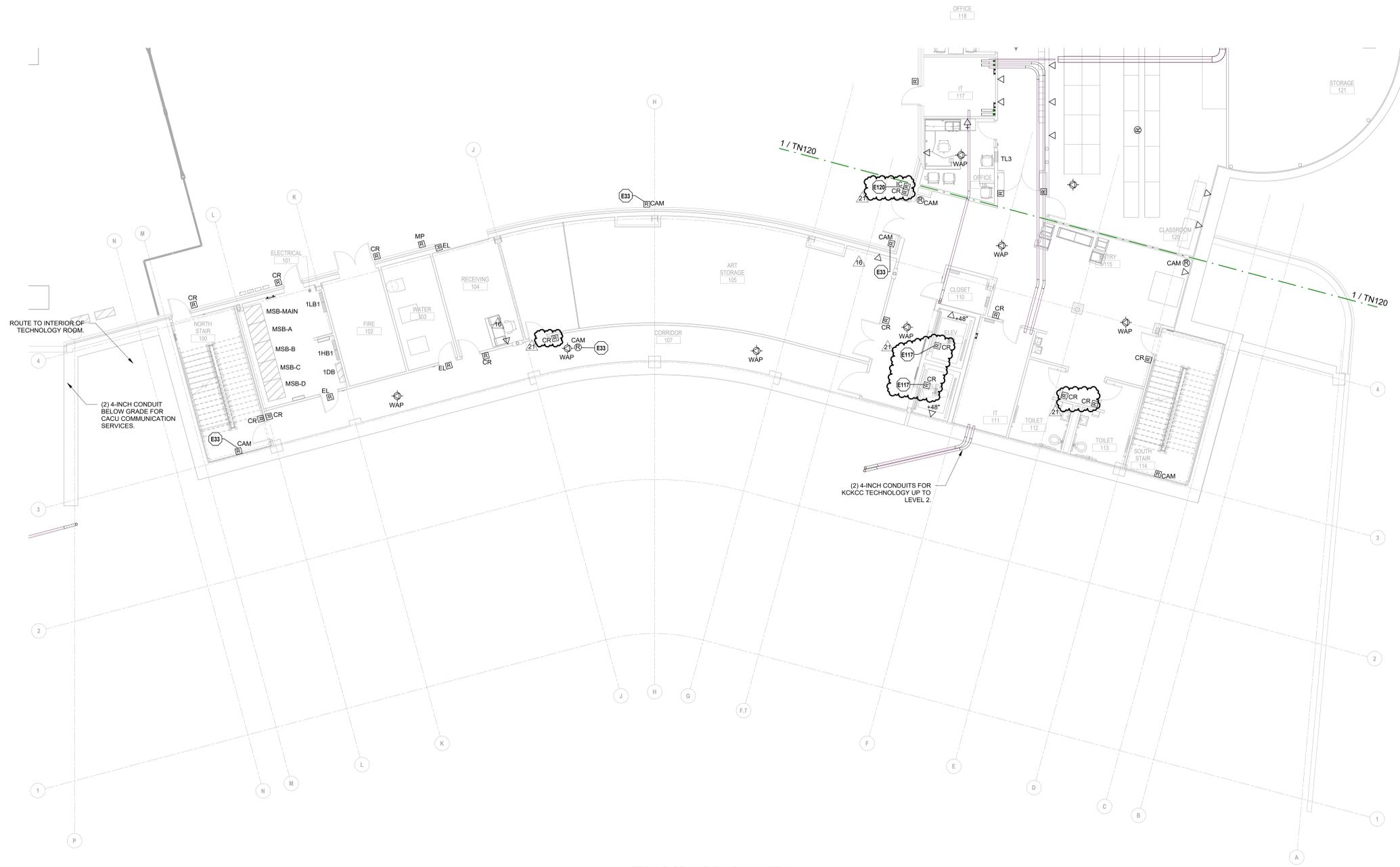
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TECHNOLOGY GENERAL NOTES AND LEGEND

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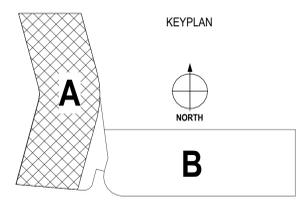
**TECHNOLOGY PLAN NOTES:**

E33 COORDINATE MOUNTING HEIGHT OF CAMERA WITH OWNER PRIOR TO ROUGH-IN

E117 COORDINATE RACEWAYS AND BOXES REQUIRED WITH ELEVATOR MANUFACTURER TO ALLOW INSTALLATION OF SECURITY CARD READER

E120 COORDINATE LOCATION OF CARD READER, ADA PUSHBUTTON, AND VIDEO INTERCOM WITH LOW VOLTAGE VENDOR PRIOR TO ROUGH-IN. A COMBINATION VIDEO INTERCOM/CR DEVICE IS PREFERRED

1 TECHNOLOGY - LEVEL 1 PLAN - AREA A  
1/8" = 1'-0"



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**TECHNOLOGY - LEVEL 1 PLAN - AREA A**

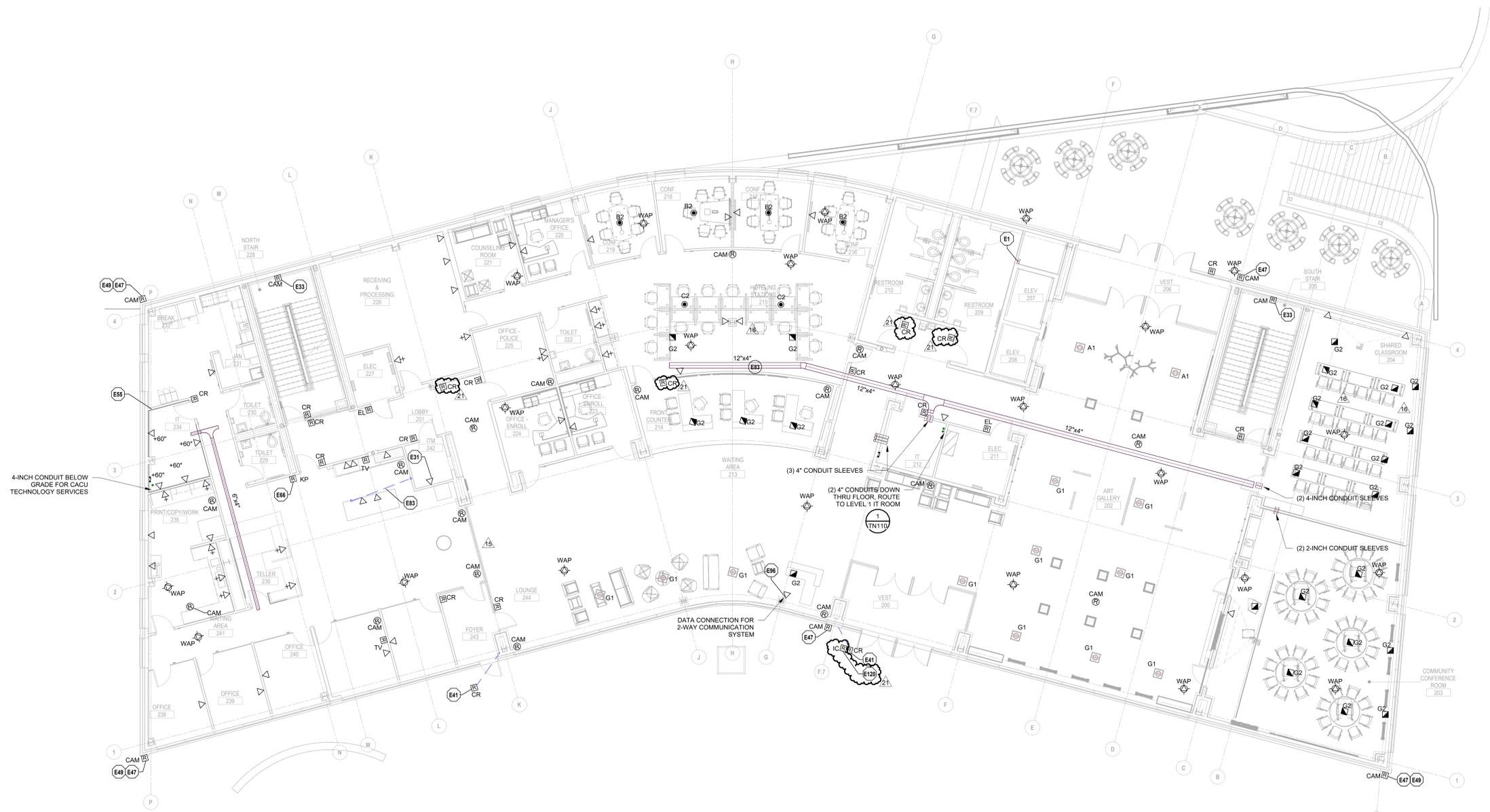
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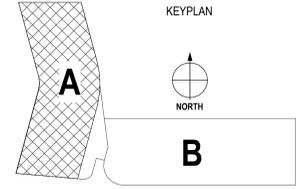
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E  
D  
C  
B  
A



1 TECHNOLOGY - LEVEL 2 PLAN - AREA A  
1/8" = 1'-0"

- TECHNOLOGY PLAN NOTES:**
- E1 4-INCH CONDUIT UP TO LEVEL 5 SWOPE HEALTH TECHNOLOGY CLOSET
  - E31 PROVIDE 1" CONDUIT FOR POWER AND 1" CONDUIT FOR DATA FOR FUTURE I.T.M.
  - E33 COORDINATE MOUNTING HEIGHT OF CAMERA WITH OWNER PRIOR TO ROUGH-IN.
  - E41 PROVIDE CARD READER ROUGH-IN IN PEDESTAL. ROUTE CONDUIT UNDERGROUND BACK TO ACCESSIBLE CEILING SPACE.
  - E47 LOCATE EXTERIOR CAMERA ON UNDERSIDE OF SOFFIT.
  - E49 LOCATE CORNER CAMERAS TO ALLOW FOR VIEW OF EACH ADJACENT ELEVATION.
  - E55 PROVIDE TELECOMMUNICATIONS BACKBOARD FOR SPACE. BACKBOARD SHALL BE 0.75" THICK PLYWOOD. PLYWOOD SHALL BE MOUNTED 6" ABOVE FINISHED FLOOR WITH BEST SIDE TOWARDS ROOM. PLYWOOD SHALL BE A/C GRADE AND FINISHED WITH TWO COATS OF FIRE-RETARDANT PAINT. PLYWOOD SHALL BE MOUNTED TO WALL VIA WALL ANCHORS UTILIZING STAINLESS STEEL HARDWARE.
  - E66 COORDINATE EXACT LOCATION OF KEYPAD WITH OWNER PRIOR TO ROUGH-IN.
  - E83 PROVIDE (1) 1-1/4" UNDERGROUND FROM FREE STANDING DESK TO ACCESSIBLE CEILING FOR DATA. COORDINATE LOCATION WITH FREE STANDING DESK.
  - E96 TWO-WAY COMMUNICATION SYSTEM MASTER CONTROL STATION SHALL BE INSTALLED AT SECURITY DESK. SYSTEM SHALL SUPPORT BOTH AUDIBLE AND VISUAL COMMUNICATION IN COMPLIANCE WITH IBC 2018 SECTION 1009.8. SYSTEM SHALL BE CONNECTED TO OWNER'S NETWORK FOR MONITORING OR 911 COMMUNICATION.
  - E12 COORDINATE LOCATION OF CARD READER, ADA PUSHBUTTON, AND VIDEO INTERCOM WITH LOW VOLTAGE VENDOR PRIOR TO ROUGH-IN. A COMBINATION VIDEO INTERCOM/CR DEVICE IS PREFERRED.



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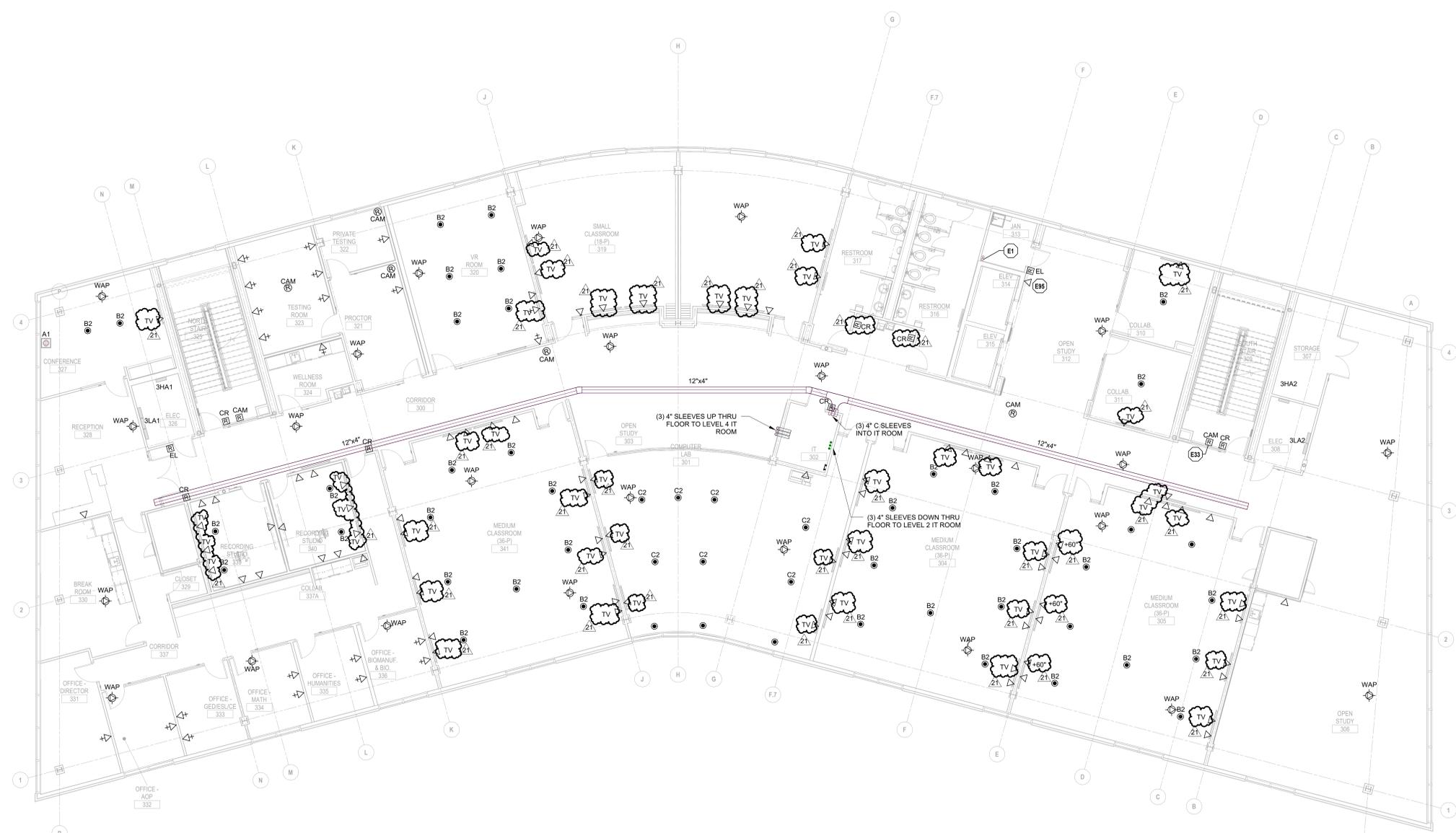
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**TN120**

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E  
D  
C  
B  
A



1 TECHNOLOGY - LEVEL 3 PLAN - AREA A  
1/8" = 1'-0"

- TECHNOLOGY PLAN NOTES:**
- E1 4-INCH CONDUIT UP TO LEVEL 5 SWOPE HEALTH TECHNOLOGY CLOSET
  - E33 COORDINATE MOUNTING HEIGHT OF CAMERA WITH OWNER PRIOR TO ROUGH-IN
  - E95 PROVIDE DATA CONNECTION, RACEWAYS AND BOXES FOR TWO-WAY COMMUNICATION SYSTEM PROVIDED IN ELEVATOR LANDING IN ACCORDANCE WITH THE IBC 1009.8 REQUIREMENTS.

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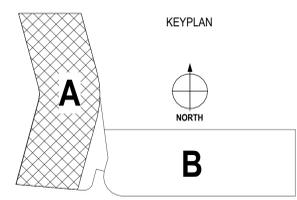
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**TECHNOLOGY - LEVEL 3 PLAN - AREA A**

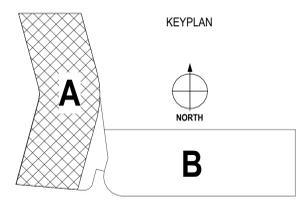
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 KS CORPORATE NO. E-325  
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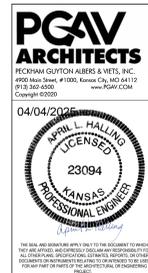


① TECHNOLOGY - LEVEL 4 PLAN - AREA A  
1/8" = 1'-0"

- TECHNOLOGY PLAN NOTES:**
- E1 4-INCH CONDUIT UP TO LEVEL 5 SWOPE HEALTH TECHNOLOGY CLOSET
  - E33 COORDINATE MOUNTING HEIGHT OF CAMERA WITH OWNER PRIOR TO ROUGH-IN
  - E95 PROVIDE DATA CONNECTION, RACEWAYS AND BOXES FOR TWO-WAY COMMUNICATION SYSTEM PROVIDED IN ELEVATOR LANDING IN ACCORDANCE WITH THE IBC 1009.8 REQUIREMENTS.



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 KANSAS CITY, KANSAS COMMUNITY EDUCATION, HEALTH & WELLNESS CENTER CONDOMINIUM ASSOCIATION  
 1101 NORTH 17TH STREET, KANSAS CITY, KS 66101

#	DATE	DESCRIPTION
21	03/24/2025	PR-07
5	08/14/2024	Addendum #3

**BID PACKAGE #3**

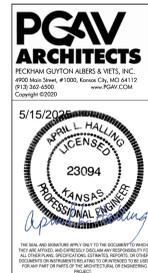
Original Size: 11" x 17" Drawing may have been reduced.

**TECHNOLOGY - LEVEL 4 PLAN - AREA A**

DATE	7/26/2024
PG#	53664-00
SHEET #	

**TN140**

- TECHNOLOGY PLAN NOTES:**
- E1 4-INCH CONDUIT UP TO LEVEL 5 SWOPE HEALTH TECHNOLOGY CLOSET
  - E33 COORDINATE MOUNTING HEIGHT OF CAMERA WITH OWNER PRIOR TO ROUGH-IN
  - E95 PROVIDE DATA CONNECTION, RACEWAYS AND BOXES FOR TWO-WAY COMMUNICATION SYSTEM PROVIDED IN ELEVATOR LANDING IN ACCORDANCE WITH THE IBC 1009.8 REQUIREMENTS
  - T1 INSTALL 2-INCH CONDUIT FROM 12-O'CLOCK BASE CABINET BELOW FLOOR TO DENTAL CHAIR BASE. CONFIRM EXACT LOCATION WITH DENTAL INSTALLATION DRAWINGS.
  - T2 INSTALL BOX FOR OWNER PROVIDED LOW VOLTAGE CABLING ON FLOOR IN CABINET TOE-KICK. INSTALL 0.75" CONDUIT ON FLOOR FROM BOX AND ROUTE UP IN WALL TO ABOVE ACCESSIBLE CEILING.

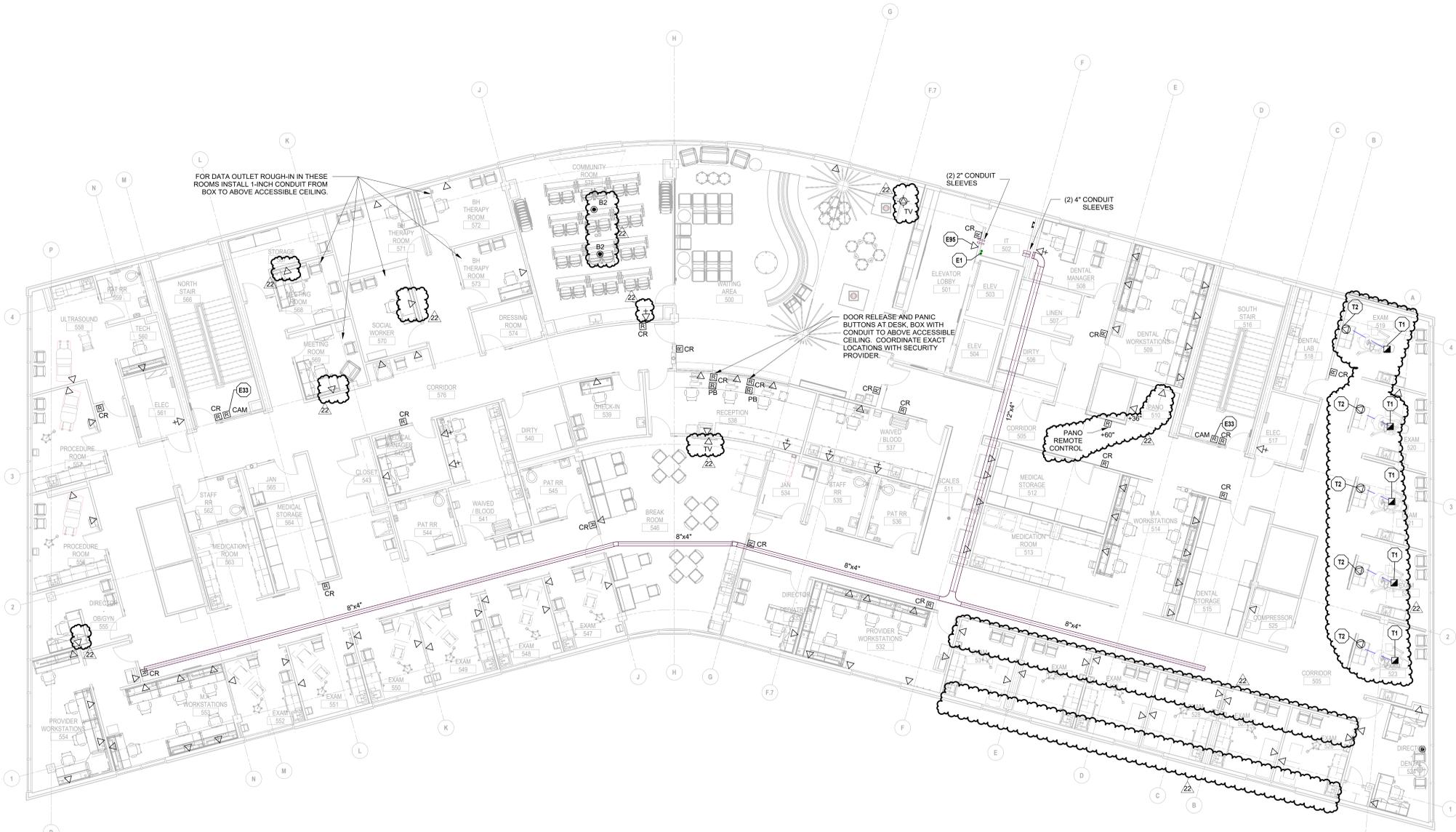


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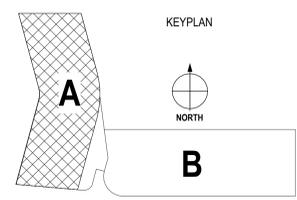
**VIREO**  
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1 TECHNOLOGY - LEVEL 5 PLAN - AREA A  
1/8" = 1'-0"



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EXPIRES 12/31/2025

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1101 NORTH 7TH STREET, KANSAS CITY, KS 66101

22	05/12/2025	PR-08-SWOPE
5	08/14/2024	Addendum #3
#	DATE	DESCRIPTION
<b>BID PACKAGE #3</b>		
Original Size: 11" x 17" Drawing may have been reduced		
<b>TECHNOLOGY - LEVEL 5 PLAN - AREA A</b>		
DATE	7/26/2024	
PG#	53664-00	CLIENT #
SHEET #	<b>TN150</b>	

