

CUI

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Standard Form 901 (11-18)
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CUI

AFMC OFF BASE LEASE
WRIGHT-PATTERSON AIR FORCE BASE, OH
1900 FOUNDERS DR.
CERTIFIED FINAL

DRAWING INDEX

DRAWING SHEET INDEX		
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GENERAL		
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E-000	2	ELECTRICAL LEGEND AND NOTES
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28 February 2023
W912QR-30409287

OWNER
88 CEG
PROJECT NUMBER: ZHTV170051
ELECTRICAL / TELECOMMUNICATIONS

HEAPY ENGINEERING
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of Engineers®
LOUISVILLE DISTRICT

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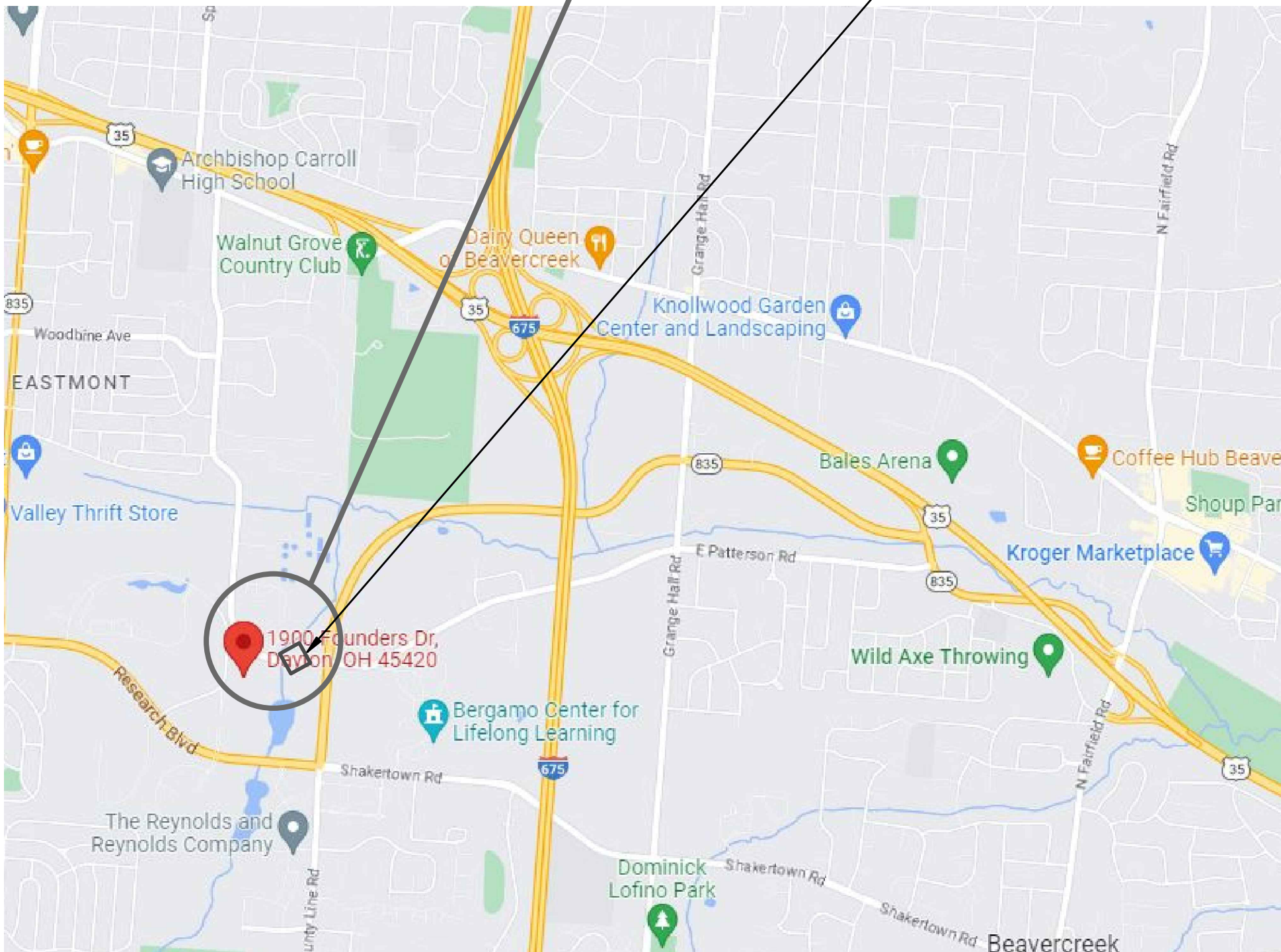
LOCATION MAP

(NOT TO SCALE)



1900 FOUNDERS DR

PROJECT SITE

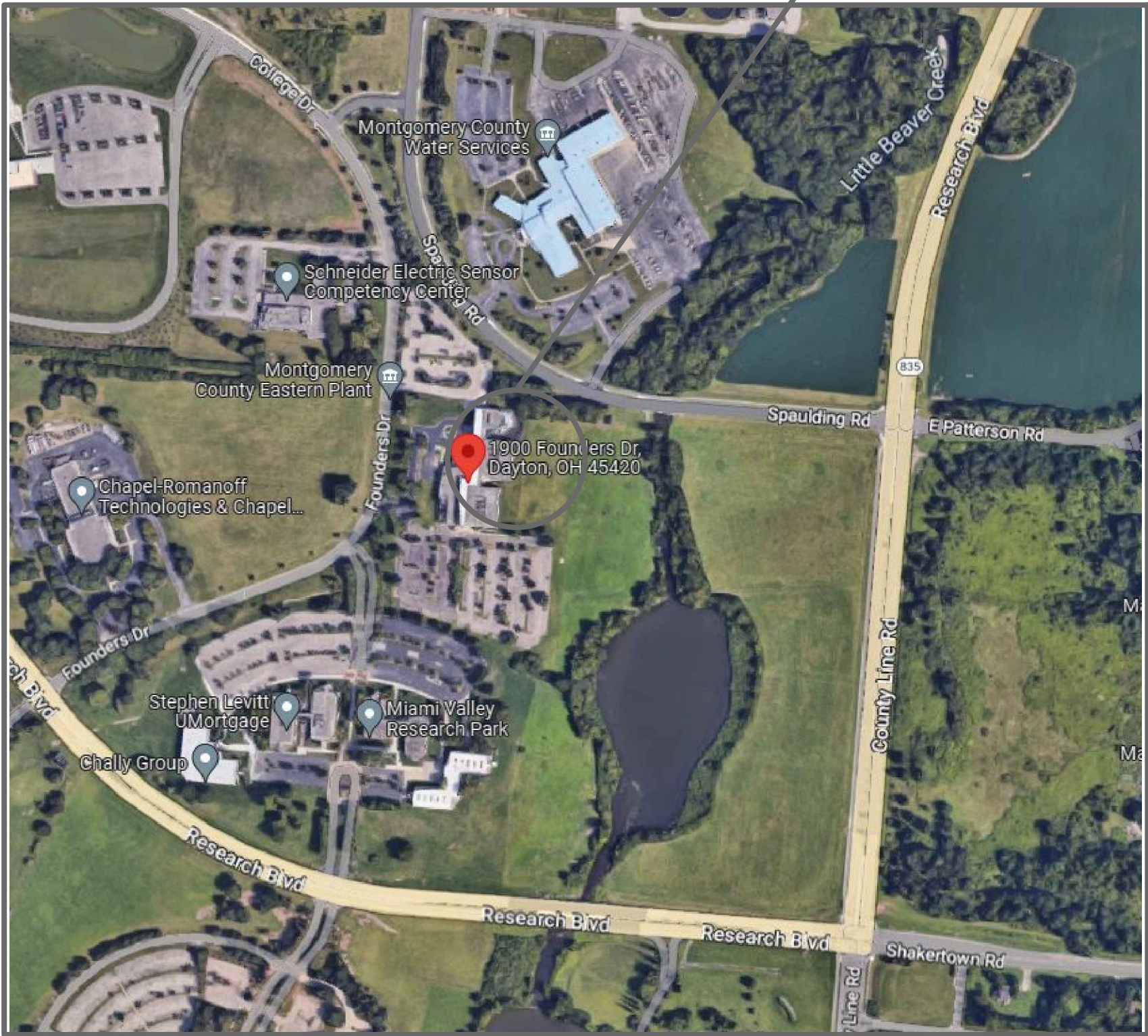


VICINITY MAP

(NOT TO SCALE)



PROJECT LOCATION































































COORDINATOR		DESIGN CHIEF		ENGINEERING CHIEF	
DATE	NO. REVISION	BY	DATE	NO. REVISION	BY
02/07/2023	CERTIFIED FINAL				
WPAFB WRIGHT-PATTERSON AIR FORCE BASE				US AF 88TH CEG CIVIL ENGINEER	
AFMC OFF BASE LEASE COVER SHEET				G-001 1	
DESIGNED: SB		DRAWN: JH		CHECKED: DA	
				DATE: 05/14/2021	

CERTIFIED FINAL


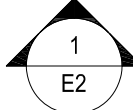



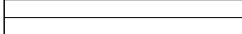
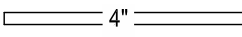
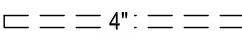
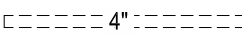








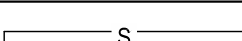


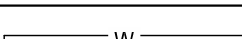
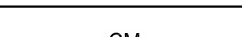

W912QR-30409287_Plans_CUI-0000

ELECTRICAL POWER SYMBOLS





	DASH SYMBOL INDICATES PARTICULAR OUTLET OR DEVICE TO BE REMOVED AND CIRCUITRY MADE CONTINUOUS WHERE REQUIRED.
	EXISTING OUTLET OR DEVICE TO REMAIN. MAINTAIN EXISTING CIRCUITING.
	ELECTRICAL CONNECTION.
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (18" MH UNLESS NOTED OTHERWISE).
	20A-125V SINGLE RECEPTACLE, NEMA 5-20R (18" MH UNLESS NOTED OTHERWISE).
	SPECIAL PURPOSE RECEPTACLE. REFER TO NOTE ON PLAN.
	20A-125V DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, (18" MH UNLESS NOTED OTHERWISE) TWO GANG ASSEMBLY.
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R WITH BOTTOM OUTLET CONTROLLED BY WALL SWITCH. (18" MH UNLESS NOTED OTHERWISE).
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (46" MH UNLESS NOTED OTHERWISE).
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" MH UNLESS NOTED OTHERWISE).
	20A-125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5-20R (HORIZONTAL 18" MH UNLESS NOTED OTHERWISE) WITH TAYMAC #10310 STANDARD COVER, VERTICAL MOUNT.
	20A-125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5-20R WITH GROUND FAULT CIRCUIT INTERRUPTER (18" MH UNLESS NOTED OTHERWISE), WITH TAYMAC #20310 STANDARD COVER, VERTICAL MOUNT.
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, INSTALLED IN DUAL (POWER/AV) TV BOX (72" MH UNLESS NOTED OTHERWISE). PROVIDE 1-1" EMT CONDUIT FOR A/V CABLING PATHWAY TO CPU'S.
	20A-125V POWERLOCK GROUNDING TYPE RECEPTACLE, HOSPITAL USE (66" MH UNLESS NOTED OTHERWISE).
	20A-125V DUPLEX PEDESTAL TYPE FLOOR RECEPTACLE, NEMA 5-20R, IN HUBBELL BA-2527 FLOOR BOX WITH SA-2525 COVERPLATE AND SC-3091 HOUSING. PROVIDE CARPET FLANGE WHERE REQUIRED.
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, IN HUBBELL BA-2527 FLUSH FLOOR BOX WITH ROUND SA-3925 COVERPLATE. PROVIDE CARPET FLANGE WHERE REQUIRED.
	20-125V DUPLEX RECEPTACLE, NEMA 5-20R, WITH ISOLATED GROUND (18" MH UNLESS NOTED OTHERWISE).
	20A-125V-1PH-4W SINGLE RECEPTACLE, NEMA 14-20R (18" MH UNLESS NOTED OTHERWISE).
	30A-125V-1PH-4W SINGLE RECEPTACLE, NEMA 14-30R (18" MH UNLESS NOTED OTHERWISE).
	50A-125V-1PH-4W SINGLE RECEPTACLE, NEMA 14-50R (18" MH UNLESS NOTED OTHERWISE).
	20A-250V-3PH-4W SINGLE RECEPTACLE, NEMA 15-20R (18" MH UNLESS NOTED OTHERWISE).
	30A-250V-3PH-4W SINGLE RECEPTACLE, NEMA 15-30R (18" MH UNLESS NOTED OTHERWISE).
	50A-250V-3PH-4W SINGLE RECEPTACLE, NEMA 15-50R (18" MH UNLESS NOTED OTHERWISE).
	JUNCTION BOX, RECESSED MOUNTED UNLESS NOTED OTHERWISE.
	MULTI-OUTLET RECEPTACLES ASSEMBLY, NEMA 5-15R (SINGLE OUTLETS ON 18" CENTERS) (46" MH UNLESS NOTED OTHERWISE).
	WIREMOLD RACEWAY, AS NOTED ON PLANS.
	CLOCK HANGER OUTLET, SINGLE NEMA 5-15R RECESSED IN COVER PLATE (84" MH UNLESS NOTED OTHERWISE).
	SINGLE POLE SWITCH (46" MH UNLESS NOTED OTHERWISE).
	TWO POLE WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
	THREE-WAY WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
	FOUR-WAY WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
	SWITCH WITH NEON PILOT LIGHT, ONE-GANG ASSEMBLY (46" MH UNLESS NOTED OTHERWISE).
	KEY OPERATED WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
	LOW-VOLTAGE MOMENTARY WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
	LIGHTING DIMMER SWITCH (46" MH UNLESS NOTED OTHERWISE) 3-BUTTON RAISE LOWER WITH ON/OFF AND PRESET.
	SWITCH WITH OCCUPANCY SENSOR (46" MH UNLESS NOTED OTHERWISE)
	VIDEO CONFERENCE PRESET LIGHTING SCENES WALL SWITCH (46" MH UNLESS NOTED OTHERWISE). NUMBER OF SCENES TO BE DETERMINED BY VIDEO TELECONFERENCE LIGHTING MANUFACTURER.
	HP RATED WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
	ELECTRICAL PANEL PER DRAWINGS.
	PULL BOX.
	DISCONNECT SWITCH.
	MOTOR STARTER.
	COMBINATION MOTOR STARTER AND DISCONNECT SWITCH.
	ELECTRIC MOTOR.
	UNIT HEATER.
	FAN COIL.
	AIR CONDITIONER.
	CONDENSING UNIT.
	UNIT VENTILATOR.
	CORD REEL.
	POWER POLE.
	LINE VOLTAGE THERMOSTAT.
	DUCT HEATER.
	ELECTRIC BASEBOARD HEATER.
	INTERCOM STAFF STATION (46" MH UNLESS NOTED OTHERWISE).
	INTERCOM HORN TYPE SPEAKER (84" MH UNLESS NOTED OTHERWISE).
	EMERGENCY POWER OFF PUSH BUTTON. PULL TO RESET.

	INTERCOM SPEAKER FLUSH MOUNT IN CEILING.
	PUSHBUTTON (46" MH UNLESS NOTED OTHERWISE) EDWARDS 852 (120 VOLT).
	BUZZER (90" MH UNLESS NOTED OTHERWISE) EDWARDS 340-A (120 VOLT).
	4" DIAMETER (90" MH UNLESS NOTED OTHERWISE) EDWARDS "ADAPTABEL" (120 VOLT).
	ELAPSED TIME INDICATOR CLOCK (90" MH UNLESS NOTED OTHERWISE) WITH RESET SWITCH (46" MH UNLESS NOTED OTHERWISE).
	PHOTOELECTRIC SENSOR.
	LIGHTING CONTACTOR.
	CEILING MOUNTED OCCUPANCY SENSOR.
	WALL MOUNTED OCCUPANCY SENSOR.
	CEILING MOUNTED DAYLIGHT SENSOR.
	OCCUPANCY SENSOR POWER PACK.
	PASSIVE INFRARED SENSOR.
	BALANCED MAGNETIC SWITCH.
	PREMISE CONTROL UNIT.
	CARD READER AND KEY PAD.

GENERAL FLOOR PLAN NOTES

	DETAIL: B = DETAIL DESIGNATION E2 = SHEET WHERE DETAIL IS LOCATED
	SECTION: 1 = SECTION DESIGNATION E2 = SHEET WHERE SECTION IS LOCATED
	PLAN NOTE. APPLIES ONLY TO THE SHEET WHICH IT IS SHOWN.
	DETAIL NOTE. APPLIES ONLY TO THE ASSOCIATED DETAIL.
	LADDER TRAY, 12" x 4" DEEP UNLESS NOTED OTHERWISE.
	CABLE TRAY, 12" x 4" DEEP UNLESS NOTED OTHERWISE.
	WIRE & CONDUIT IN WALL OR ABOVE CEILING.
	WIRE & CONDUIT IN OR BELOW SLAB OR GRADE.
	CONDUIT TO BE REMOVED.
	EXISTING WIRE & CONDUIT TO REMAIN.
	CONDUIT FOR DATA CIRCUITRY.
	WIRE & CONDUIT FOR EMERGENCY CIRCUITRY.
	WIRE & CONDUIT FOR FIRE ALARM CIRCUITRY.
	WIRE & CONDUIT FOR INTERCOM SYSTEM CIRCUITRY.
	WIRE & CONDUIT FOR NURSE CALL CIRCUITRY.
	WIRE & CONDUIT FOR NIGHT LIGHT CIRCUITRY.
	CONDUIT FOR PHONE CIRCUITRY.
	WIRE & CONDUIT FOR SOUND SYSTEM CIRCUITRY.
	WIRE & CONDUIT FOR SECURITY SYSTEM CIRCUITRY.
	WIRE & CONDUIT FOR TELEVISION SYSTEM CIRCUITRY.
	WIRE RUN IN SURFACE WIREWAY.
	CABLE MANAGEMENT SYSTEM PATHWAY.
	ARROWHEAD REPRESENTS ONE COMPLETE CIRCUIT; "X" DENOTES PANEL NAME; NUMBER(S) DENOTES CIRCUIT(S).

LUMINAIRE SYMBOLS

	LIGHTING FIXTURE. CAPITAL LETTER DENOTES FIXTURE TYPE, LOWER CASE LETTER DENOTES SWITCHING ARRANGEMENT.
	LIGHTING FIXTURE ON EMERGENCY CIRCUIT. SUBSCRIPT "NL" DENOTES LUMINAIRE ON NIGHT LIGHT.
	EXIT LIGHTING FIXTURE, ARROWS AS INDICATED.
	LIGHTING FIXTURE TO BE REMOVED.

ONE-LINE SYMBOLS

NOTE: NOT ALL SYMBOLS MAY BE USED.	
	COMBINATION MOTOR STARTER/CIRCUIT BREAKER; X: FRAME SIZE, Y: NEMA STARTER SIZE; 3 POLE UNO.
	FUSED DISCONNECT SWITCH (FSS); 3 POLE UNO
	COMBINATION MOTOR STARTER/FUSED DISCONNECT SWITCH; X: FRAME SIZE, Y: FUSE SIZE Z: NEMA STARTER SIZE; 3 POLE UNO.
	MOLDED CASE CIRCUIT BREAKER; X = BREAKER SIZE, 3 POLE UNO
	SHUNT-TRIP BREAKER
	NON-FUSED DISCONNECT SWITCH; X: FRAME SIZE, 3 POLE UNO
	NON-FUSED DISCONNECT SWITCH WITH MOTOR STARTER; X: FRAME SIZE, Y: NEMA STARTER SIZE; 3 POLE UNO.
	MOTOR STARTER: X=STARTER SIZE, Y=NUMBER OF POLES
	SURGE PROTECTIVE DEVICE
	BATTERY CABINET
	OVERLOAD MAGNETIC RELAY-LINE CIRCUIT
	CONTACTOR
	(2) COMBINATION STARTER WITH HI/LOW SPEED CONTROL X: NEMA STARTER SIZE
	POTENTIAL TRANSFORMER
	POWER FACTOR CORRECTION CAPACITOR
	FUSE
	SURGE PROTECTIVE DEVICE
	LOW VOLTAGE TRANSFORMER
	CURRENT TRANSFORMER WITH CONNECTED AMMETER;

ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED.			
A	AMPERE	MSB	MAIN SWITCHBOARD
AC	ALTERNATING CURRENT OR AIR CONDITIONER	MSP	MAIN SWITCH PANEL
AHU	AIR HANDLING UNIT	MTS	MANUAL TRANSFER SWITCH
AIC	AMPS INTERRUPTING CAPACITY	NF	NON-FUSED
AWG	AMERICAN WIRE GAUGE	NFSS	NON-FUSED SAFETY SWITCH
ATS	AUTOMATIC TRANSFER SWITCH	PDOS	POWER DISTRIBUTION SYSTEM
BCE	BASE CIVIL ENGINEERING	PDU	POWER DISTRIBUTION UNIT
C	CONDUIT	PH	DESIGNATION ENDING IN "H" – HVAC POWER
CB	CIRCUIT BREAKER	PNL	PANEL
CHWP	CHILLED WATER PUMP	PP	DESIGNATION ENDING IN "P" – ORDINARY PWR
CKT	CIRCUIT	PU	DESIGNATION ENDING IN "U" – UPS PWR
CP	CONTROL PANEL	PWR	POWER
CRU	COMPUTER ROOM UNIT	RAF	RETURN AIR FAN
DP	DISTRIBUTION PANELBOARD	RP	RECEPTACLE PANEL
EF	EXHAUST FAN	SAF	SUPPLY AIR FAN
ELP	EMERGENCY LIGHTING PANEL	SCP	SYSTEM CONTROL PANEL
EM	EMERGENCY	SLD	SINGLE LINE DIAGRAM
EPP	EMERGENCY POWER PANEL	SUB	SUBSTATION
FA	FIRE ALARM	SWBD	SWITCHBOARD
FSS	FUSED SAFETY SWITCH	SWGR	SWITCHGEAR
G	GROUND	TB	TERMINAL BLOCK
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TPP	TEMPORARY POWER PANEL
GEN	GENERATOR	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
GOA	HAND-OFF-AUTOMATIC (SWITCH)	TYP	TYPICAL
HP	HORSEPOWER	UL	UNDERWRITERS LABORATORIES
HWP	HOT WATER PUMP	UNO	UNLESS NOTED OTHERWISE
HX	HEAT EXCHANGER	UPS	UNINTERRUPTABLE POWER SUPPLY
IG	ISOLATED GROUND	V	VOLT
KCM	THOUSAND CIRCULAR MILS (FORMERLY MCM)	VFD	VARIABLE FREQUENCY DRIVE
KVA	KILOVOLT AMPERE	W	WATT
KW	KILOWATT	WP	WEATHERPROOF, NEMA 3R UNO
LDP	LIGHTING DISTRIBUTION PANEL	XFMR	TRANSFORMER
LP	LIGHTING PANEL	Z	IMPEDANCE
MBS	MAIN BUILDING SWITCH	ø	PHASE
MCA	MAXIMUM CURRENT AMPACITY		
MCB	MAIN CIRCUIT BREAKER		
MCC	MOTOR CONTROL CENTER		
MDP	MAIN DISTRIBUTION PANEL		
MLO	MAIN LUGS ONLY		

KEYNOTES:

1. CONTRACTOR RESPONSIBLE FOR REMOVING EXISTING CEILING TILES, STORING ON SITE, AND RE-INSTALLING. IF TILES ARE DAMAGED EH CONTRACTOR IS RESPONSIBLE FOR REPLACING WITH LIKE KIND. FOR ACCESS IN A GYP BD CEILING/SOFTS/WALLS THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH THIS WORK. THIS INCLUDES, BUT NOT LIMITED TOO (CUTTING, REMOVAL, PATCHING, PRIMING, PAINTING, ETC.)
2. THE ENTIRETY OF THIS PROJECT SHALL COMPLY WITH ALL RELATED UFC'S.
3. INTENT OF DESIGN IS TO USE EXISTING 120V PANELS TO SUPPLY ALL FURNITURE POWER. CONTRACTOR SHALL NOTIFY CO BEFORE FURNISH AND INSTALL OF ADDITIONAL 120V PANELS.
4. CONTRACTOR SHALL CLEARLY LABEL EACH POWER DROP WITH THE ASSOCIATED CIRCUIT AND PANEL IT IS FED FROM.

[illegible]

WPAFB		DESIGNED BY: C. WILSON	DATE: NOV 2022
WRIGHT PATTERSON AIR FORCE BASE		DWN BY: C. WILSON	COORDINATOR:
		DESIGN CHIEF: J. LEVY	ENGINEERING CHIEF: J. BORDAS
88TH CIVIL ENGINEERING GROUP		PLT SCALE:	PLT DATE:
3161 WRIGHT AVE.		FILE NAME:	PROJ NO.:
WPAFB OH 45433		SIZE:	21X17 165000
		E/5000	

AFMC OFF BASE LEASE
LEGEND AND NOTES

SHEET
IDENTIFICATION
E-000
SHEET 1 OF #

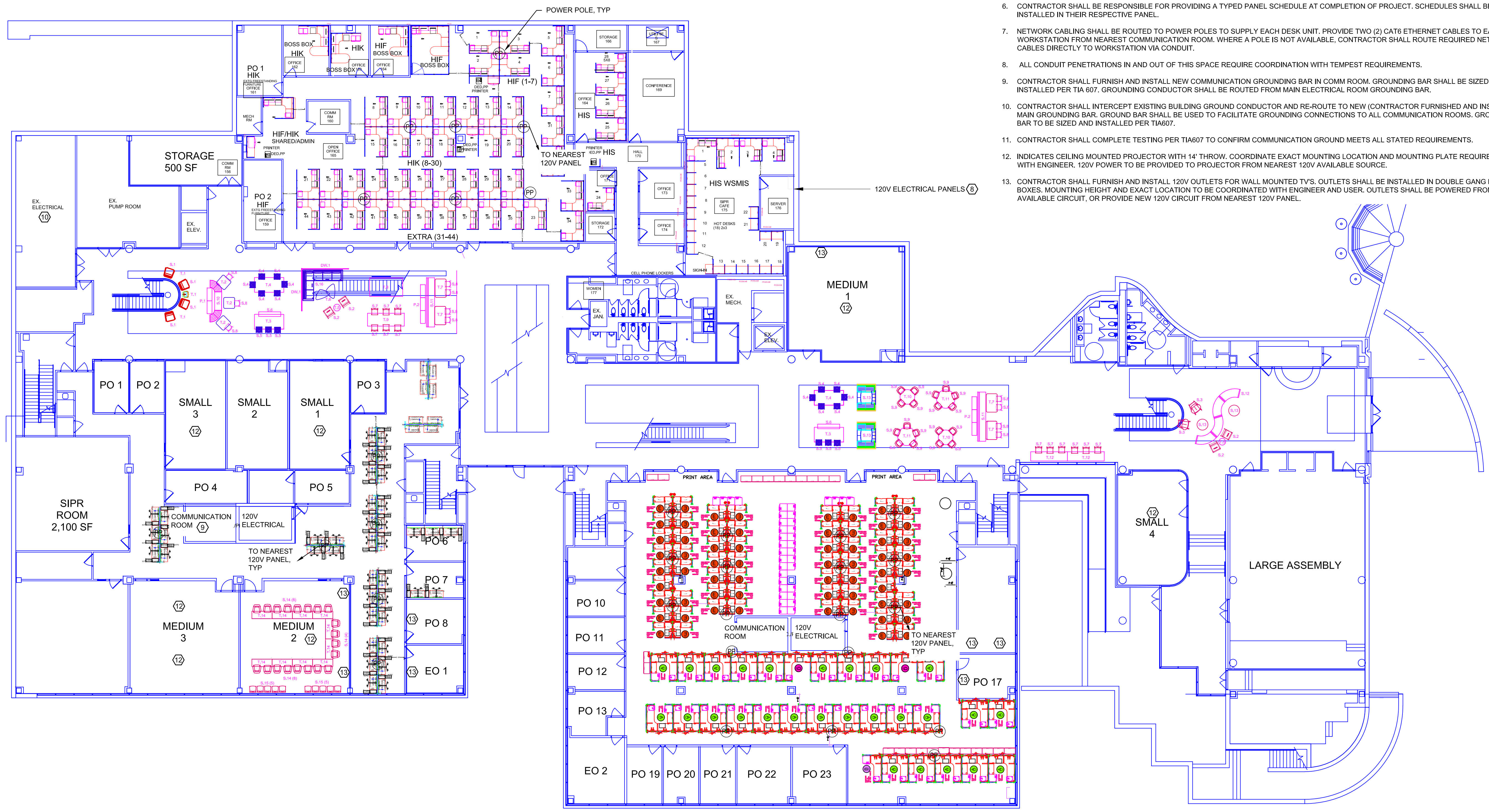
- KEYNOTES:
- LOCATIONS OF 120V ELECTRICAL PANELS ARE SHOWN ON THIS DRAWING FOR REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF PANELS TO PULL FURNITURE CIRCUITS FROM.
 - FURNITURE CIRCUITS ARE ALL 8-WIRE SYSTEMS. CONTRACTOR TO VERIFY EXACT WIRING REQUIREMENTS WITH FURNITURE MANUFACTURER. ALL POWER WIRE SHALL BE NO SMALLER THAN #12AWG WITH #12GND SOLID CORE WIRE. WIRE SHALL BE COPPER.
 - CONTRACTOR SHALL ROUTE ALL WIRING FROM 120V PANELS TO POWER POLES IN RIGID CONDUIT. CONDUIT SHALL BE SIZED AND ROUTED PER LATEST ADOPTED VERSION OF THE NEC.
 - FOR CLARITY CONDUIT ROUTING IS NOT SHOWN ON THESE DRAWINGS. ONLY HOMERUNS ARE SHOWN.
 - CONTRACTOR SHALL UTILIZE SPARE BREAKERS IN ELECTRICAL ROOM 120V PANELS. WHERE REQUIRED, CONTRACTOR TO REPLACE EXISTING SPARE BREAKERS WITH 20A WHEN 20A IS NOT AVAILABLE.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A TYPED PANEL SCHEDULE AT COMPLETION OF PROJECT. SCHEDULES SHALL BE INSTALLED IN THEIR RESPECTIVE PANEL.
 - NETWORK CABLING SHALL BE ROUTED TO POWER POLES TO SUPPLY EACH DESK UNIT. PROVIDE TWO (2) CAT6 ETHERNET CABLES TO EACH WORKSTATION FROM NEAREST COMMUNICATION ROOM. WHERE A POLE IS NOT AVAILABLE, CONTRACTOR SHALL ROUTE REQUIRED NETWORK CABLES DIRECTLY TO WORKSTATION VIA CONDUIT.
 - ALL CONDUIT PENETRATIONS IN AND OUT OF THIS SPACE REQUIRE COORDINATION WITH TEMPEST REQUIREMENTS.
 - CONTRACTOR SHALL FURNISH AND INSTALL NEW COMMUNICATION GROUNDING BAR IN COMM ROOM. GROUNDING BAR SHALL BE SIZED AND INSTALLED PER TIA 607. GROUNDING CONDUCTOR SHALL BE ROUTED FROM MAIN ELECTRICAL ROOM GROUNDING BAR.
 - CONTRACTOR SHALL INTERCEPT EXISTING BUILDING GROUND CONDUCTOR AND RE-ROUTE TO NEW (CONTRACTOR FURNISHED AND INSTALLED) MAIN GROUNDING BAR. GROUND BAR SHALL BE USED TO FACILITATE GROUNDING CONNECTIONS TO ALL COMMUNICATION ROOMS. GROUNDING BAR TO BE SIZED AND INSTALLED PER TIA607.
 - CONTRACTOR SHALL COMPLETE TESTING PER TIA607 TO CONFIRM COMMUNICATION GROUND MEETS ALL STATED REQUIREMENTS.
 - INDICATES CEILING MOUNTED PROJECTOR WITH 14" THROW. COORDINATE EXACT MOUNTING LOCATION AND MOUNTING PLATE REQUIREMENTS WITH ENGINEER. 120V POWER TO BE PROVIDED TO PROJECTOR FROM NEAREST 120V AVAILABLE SOURCE.
 - CONTRACTOR SHALL FURNISH AND INSTALL 120V OUTLETS FOR WALL MOUNTED TV'S. OUTLETS SHALL BE INSTALLED IN DOUBLE GANG RECESSED BOXES. MOUNTING HEIGHT AND EXACT LOCATION TO BE COORDINATED WITH ENGINEER AND USER. OUTLETS SHALL BE POWERED FROM NEAREST AVAILABLE CIRCUIT, OR PROVIDE NEW 120V CIRCUIT FROM NEAREST 120V PANEL.

D

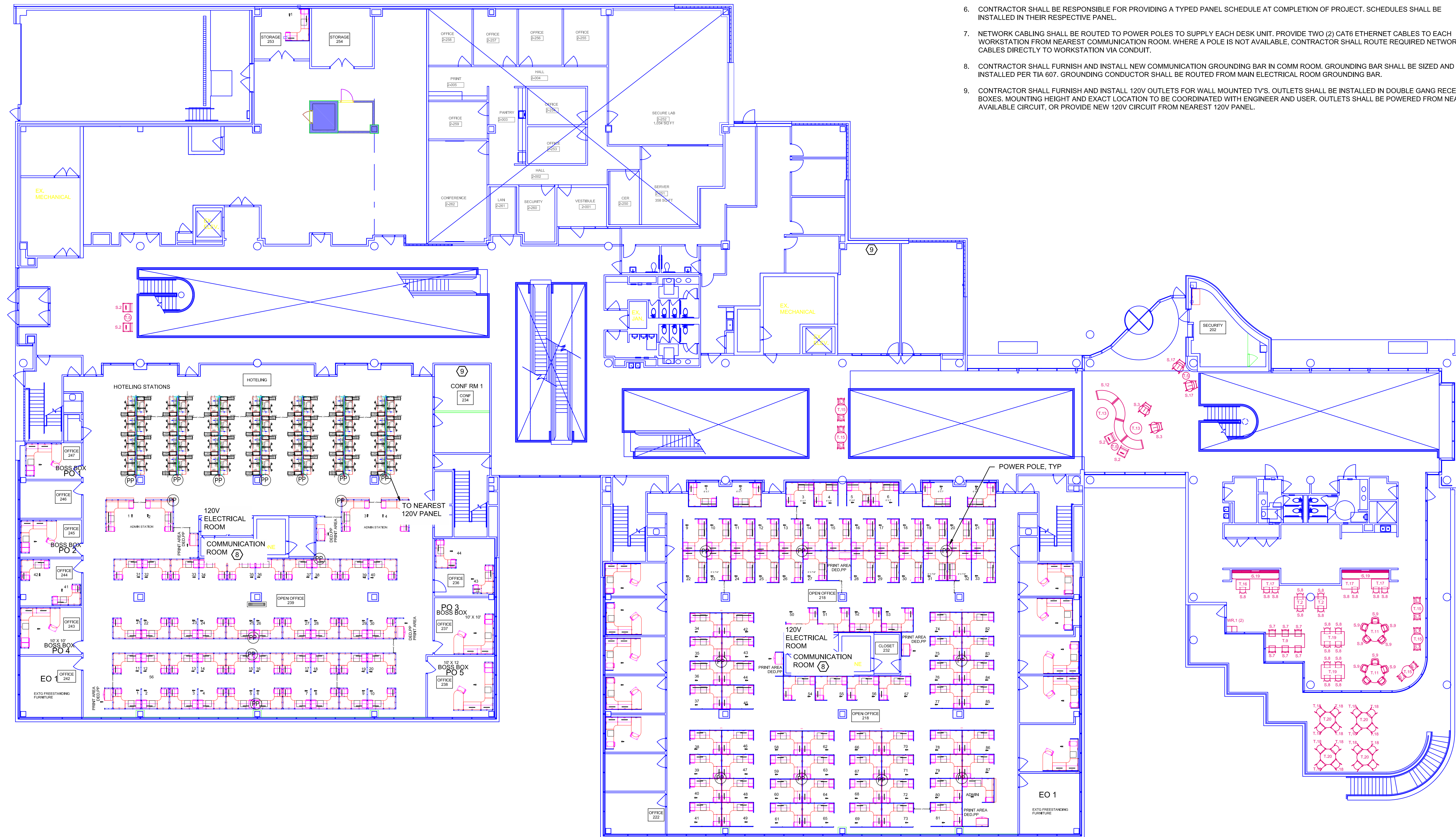
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B

A



1. LOCATIONS OF 120V ELECTRICAL PANELS ARE SHOWN ON THIS DRAWING FOR REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF PANELS TO PULL FURNITURE CIRCUITS FROM.
2. FURNITURE CIRCUITS ARE ALL 8-WIRE SYSTEMS. CONTRACTOR TO VERIFY EXACT WIRING REQUIREMENTS WITH FURNITURE MANUFACTURER. ALL POWER WIRE SHALL BE NO SMALLER THAN #12AWG WITH #12GND SOLID CORE WIRE. WIRE SHALL BE COPPER.
3. CONTRACTOR SHALL ROUTE ALL WIRING FROM 120V PANELS TO POWER POLES IN RIGID CONDUIT. CONDUIT SHALL BE SIZED AND ROUTED PER LATEST ADOPTED VERSION OF THE NEC.
4. FOR CLARITY CONDUIT ROUTING IS NOT SHOWN ON THESE DRAWINGS. ONLY HOMERUNS ARE SHOWN.
5. CONTRACTOR SHALL UTILIZE SPARE BREAKERS IN ELECTRICAL ROOM 120V PANELS. WHERE REQUIRED, CONTRACTOR TO REPLACE EXISTING SPARE BREAKERS WITH 20A WHEN 20A IS NOT AVAILABLE.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A TYPED PANEL SCHEDULE AT COMPLETION OF PROJECT. SCHEDULES SHALL BE INSTALLED IN THEIR RESPECTIVE PANEL.
7. NETWORK CABLING SHALL BE ROUTED TO POWER POLES TO SUPPLY EACH DESK UNIT. PROVIDE TWO (2) CAT6 ETHERNET CABLES TO EACH WORKSTATION FROM NEAREST COMMUNICATION ROOM. WHERE A POLE IS NOT AVAILABLE, CONTRACTOR SHALL ROUTE REQUIRED NETWORK CABLES DIRECTLY TO WORKSTATION VIA CONDUIT.
8. CONTRACTOR SHALL FURNISH AND INSTALL NEW COMMUNICATION GROUNDING BAR IN COMM ROOM. GROUNDING BAR SHALL BE SIZED AND INSTALLED PER TIA 607. GROUNDING CONDUCTOR SHALL BE ROUTED FROM MAIN ELECTRICAL ROOM GROUNDING BAR.
9. CONTRACTOR SHALL FURNISH AND INSTALL 120V OUTLETS FOR WALL MOUNTED TV'S. OUTLETS SHALL BE INSTALLED IN DOUBLE GANG RECESSED BOXES. MOUNTING HEIGHT AND EXACT LOCATION TO BE COORDINATED WITH ENGINEER AND USER. OUTLETS SHALL BE POWERED FROM NEAREST AVAILABLE CIRCUIT, OR PROVIDE NEW 120V CIRCUIT FROM NEAREST 120V PANEL.



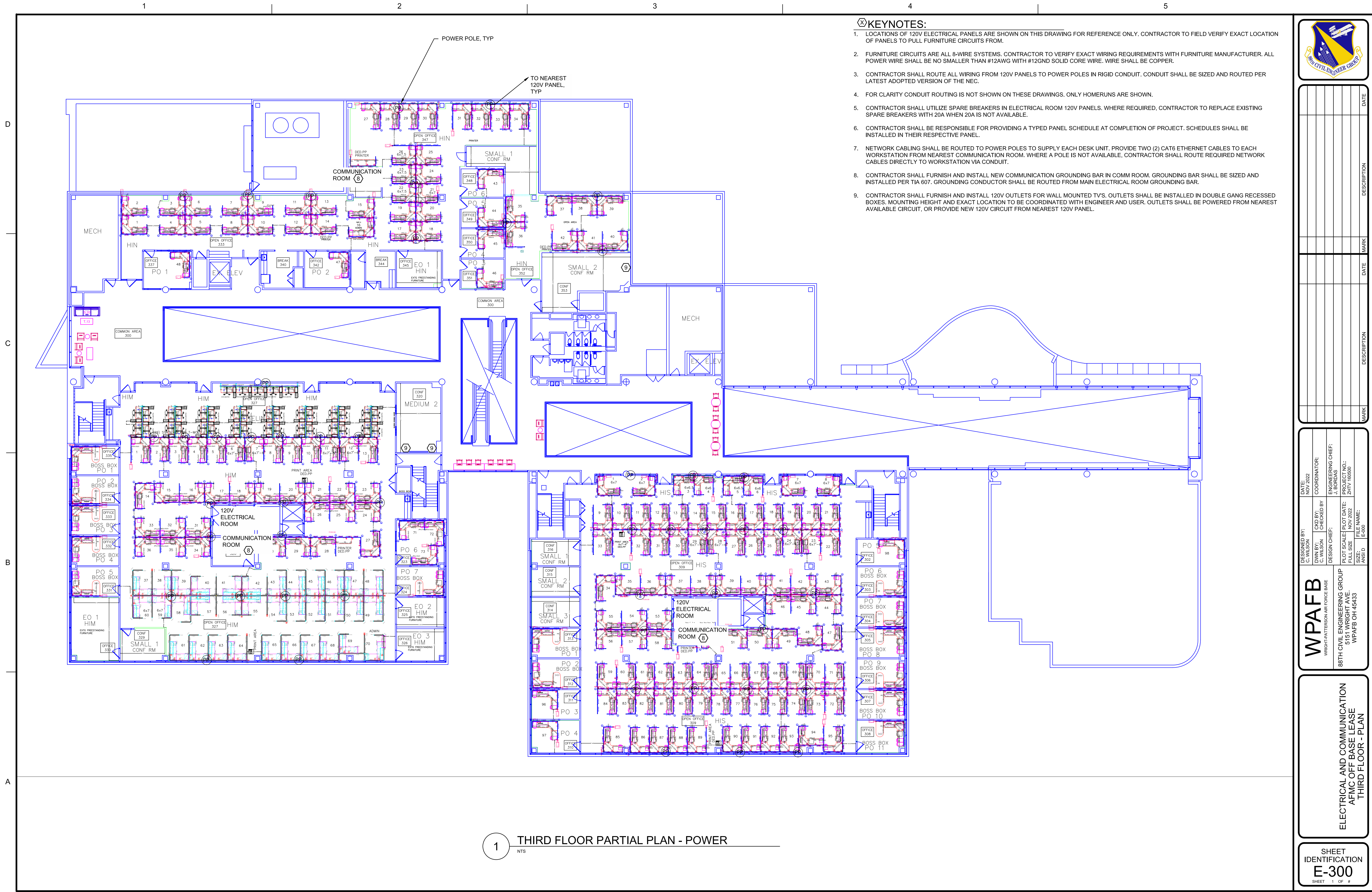
1 SECOND FLOOR PARTIAL PLAN - POWER

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WPAFB	
WRIGHT-PATTERSON AIR FORCE BASE	
88TH CIVIL ENGINEERING GROUP 5151 WRIGHT AVE. WPAFB OH 45433	
DRAWN BY: C. WILSON	CHECKED BY: E. BARADAS
DATE: NOV 2022	DATE: 21TV 165040
DESIGN CHIEF:	
A. LEVY	K. COLE
FULL SIZE:	PLOT DATE:
SIZE:	FILE NAME:
ANSI D	E-5000

**ELECTRICAL AND COMMUNICATION
AFMC OFF BASE LEASE
SECOND FLOOR - PLAN**

SHEET
IDENTIFICATION
E-200
SHEET 1 OF #



KEYNOTES:

1. LOCATIONS OF 120V ELECTRICAL PANELS ARE SHOWN ON THIS DRAWING FOR REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF PANELS TO PULL FURNITURE CIRCUITS FROM.

2. FURNITURE CIRCUITS ARE ALL 8-WIRE SYSTEMS. CONTRACTOR TO VERIFY EXACT WIRING REQUIREMENTS WITH FURNITURE MANUFACTURER. ALL POWER WIRE SHALL BE NO SMALLER THAN #12AWG WITH #12GND SOLID CORE WIRE. WIRE SHALL BE COPPER.

3. CONTRACTOR SHALL ROUTE ALL WIRING FROM 120V PANELS TO POWER POLES IN RIGID CONDUIT. CONDUIT SHALL BE SIZED AND ROUTED PER LATEST ADOPTED VERSION OF THE NEC.

4. FOR CLARITY CONDUIT ROUTING IS NOT SHOWN ON THESE DRAWINGS. ONLY HOMERUNS ARE SHOWN.

5. CONTRACTOR SHALL UTILIZE SPARE BREAKERS IN ELECTRICAL ROOM 120V PANELS. WHERE REQUIRED, CONTRACTOR TO REPLACE EXISTING SPARE BREAKERS WITH 20A WHEN 20A IS NOT AVAILABLE.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A TYPED PANEL SCHEDULE AT COMPLETION OF PROJECT. SCHEDULES SHALL BE INSTALLED IN THEIR RESPECTIVE PANEL.

7. NETWORK CABLING SHALL BE ROUTED TO POWER POLES TO SUPPLY EACH DESK UNIT. PROVIDE TWO (2) CAT6 ETHERNET CABLES TO EACH WORKSTATION FROM NEAREST COMMUNICATION ROOM. WHERE A POLE IS NOT AVAILABLE, CONTRACTOR SHALL ROUTE REQUIRED NETWORK CABLES DIRECTLY TO WORKSTATION VIA CONDUIT.

8. CONTRACTOR SHALL FURNISH AND INSTALL NEW COMMUNICATION GROUNDING BAR IN COMM ROOM. GROUNDING BAR SHALL BE SIZED AND INSTALLED PER TIA 607. GROUNDING CONDUCTOR SHALL BE ROUTED FROM MAIN ELECTRICAL ROOM GROUNDING BAR.

9. CONTRACTOR SHALL FURNISH AND INSTALL 120V OUTLETS FOR WALL MOUNTED TV'S. OUTLETS SHALL BE INSTALLED IN DOUBLE GANG RECESSED BOXES. MOUNTING HEIGHT AND EXACT LOCATION TO BE COORDINATED WITH ENGINEER AND USER. OUTLETS SHALL BE POWERED FROM NEAREST AVAILABLE CIRCUIT, OR PROVIDE NEW 120V CIRCUIT FROM NEAREST 120V PANEL.

1

THIRD FLOOR PARTIAL PLAN - POWER

NTS

WPAFB

WRIGHT-PATTERSON AIR FORCE BASE

88TH CIVIL ENGINEERING GROUP

5151 WRIGHT AVE.

WPAFB OH 45433

DESIGNED BY:

C. WILSON

CHECKED BY:

C. WILSON

DATE:

NOV 2022

COORDINATOR:

J. BORDAS

ENGINEERING CHIEF:

J. BORDAS

PROJECT NO.:

ZHTV 160000

DESIGN CHIEF:

J. BORDAS

DATE:

NOV 2022

FILE NAME:

E-000

SIZE:

ANSI D

FULL SIZE:

NOV 2022

FILE NAME:

E-000

ELECTRICAL AND COMMUNICATION

AFMC OFF BASE LEASE

THIRD FLOOR - PLAN

SHEET IDENTIFICATION

E-300

SHEET 1 OF 1

W912QR-30409287_Plans_CUI-0000

CERTIFIED FINAL

The Cable Installer will:

Provide all materials required to install the structured cable plant (copper and/or fiber optic) and cable pathways.

Install structured cable plant as designed, without deviation, unless otherwise directed by Network Engineering & Integration/SCO.

Implement the design in conformance with the latest editions of UFC 3-580-01, American National Standards Institute/Telecommunications Industry Association/Electronics Industries Alliance (ANSI/TIA/EIA), National Fire Protection Association (NFPA), National Electric Code (NEC) codes and standards and the AF Installation Facilities Standards(IFS). Adhering to any exceptions/guidance in the WPAFB Installation Facility Standard (IFS) and any ETL’s and AFI’s.

Install Ortronics Rack(s) or Great Lakes Cabinet(s) in Communications Equipment Room (CER) in accordance with drawings provided by Network Engineering & Integration/SCO.

Ground the racks, cabinets and the cable tray systems in accordance with TIA-607 standards.

All ground connections to the TGB will use non-reversible compression type two hole lugs.

Mount all Category 6/6A patch panels, horizontal/vertical wire management, equipment shelves, fiber optic distribution panels (FODP), and fiber adapter panels (FAP) in accordance with rack/cabinet elevation drawings provided by Network Engineering & Integration/SCO.

Label all network drops (both ends), face plates, patch panels, rack(s) and/or cabinet(s).

Label all user network drops as “CER#-Patch Panel Jack Number” based upon the current Installation Facility Standard Labeling Requirements (unless otherwise directed by Network Engineering & Integration/SCO).

Label all backbone house fiber segments as “HF-CER##-CER##” based upon the current Installation Facility Standard Labeling Requirements (unless otherwise directed by Network Engineering & Integration/SCO).

Install jacks into face plates and/or surface mount boxes in fixed walls and/or the modular furniture.

Terminate network drops into jacks at designated user locations.

Terminate network drops into patch panels and/or fiber adapter panels (FAPs) in designated CERs.

Terminate fiber optic network drops using LC connectors and connect them to the fiber adapter panel (FAP) with couplers.

Test all Category 6/6A cables. Any network drop that does not meet the Category 6/6A standard will be repaired and retested by the Cable Installer. Any network drop that cannot be repaired, will be replaced and retested to ensure it meets Category 6/6A standards.

Test all fiber optic cable runs (backbone and/or fiber drops). Any fiber optic cable run that does not meet fiber optic standards will be repaired and retested by the Cable Installer. Any fiber optic cabling that cannot be repaired, will be replaced and retested to ensure it meets fiber optic cabling standards.

Provide testing results and a certification letter after the installation is completed.

Perform a final physical walk-through with Network Engineering & Integration/SCO, and Project Manager/SCXPR to note any discrepancies.

Fix all discrepancies noted from the aforementioned final walk-through.

If necessary, another walk-through will be performed by the Cable Installer, Network Engineering & Integration/SCO, and Project Manager/SCXPR pertaining to noted discrepancies only.

Provide red line drawings indicating all network drop locations (copper and/or fiber optic).

Notes:

- Transport nine (9) racks, eighteen (18) vertical wire management channels, and one (1) half-height cabinet (Government Furnished Equipment [GFE]) from 5237 Cooper St, Building 30258, Door 3, Wright Patterson AFB, 88th CS warehouse and deliver, assemble, and install at the OBL site.
- Transport eight (8) SMART UPS SRT 5000VA RM 208VTAA, eight (8) 3.23.8KW 208/240V 1 PHASE METERED PDU3.2/3.8KW 208/240V 6FT CORD 1URM, fourteen (14) 2200VA 1800W UPS SMART OL RM LCD 120V and fourteen (14) UNIVERSAL RACK TO TOWER MOUNT FOR ANY 1U OR 2U SERVER, MOUNTS ANY 1U OR 2U SERVE (Government Furnished Equipment) form 5237 Cooper St, Building 30258, Door 3, Wright Patterson AFB, 88th CS warehouse and deliver to RM 158 at the OBL site
- Fiber Optic Distribution Panels (FODP)s and Fiber Adapter Panels (FAP) are notional examples and do not indicate actual hardware.
- Within 20 days of starting fiber backbone install submit to the Government the proposed fiber path to each TR.
- Within 10 days of starting a section/floor, submit RED lines for Government approval of the proposed network drop path or paths. The use of J-hooks is acceptable.
- Deliver to the Government at end of task AutoCAD file and 3 paper copies documenting fiber path from RM 158 (TR1) to each TR and location of each network drop (fiber and copper) by number and path of drop from TR to end location
- Label each NIPRNet copper user drop location as TRroom#-Rack#-patch panel port# ex TR160-A1-A1 through TR160-A1-A48, TR160-A1-B1, etc

List of Drawings

- 1 – General Cable Installer Requirements
- 2 – Basic Cable Plant Wiring Diagram
- 3 – TR Layout
- 4 – 1st and 2nd Floor Notes
- 5 – 1st FI Backbone Fiber
- 6 – 2nd FI Backbone Fiber
- 7 – 3rd FI Backbone Fiber
- 8 – Main TR1 Cabinet Elevation
- 9 – Typical TR Rack Elevation
- 10 – SIPRNet Café
- 11 – Fiber Drop Install

Controlled By: 88 CS/SCO
CUI Category: CIT
Distribution/Dissemination Controls: FEDCON
POC: Raymond E Direito, Chief, Infrastructure
Flight 937-255-0732

CSRD PROJECT # 2019-0414A

Project Title: Telecommunications Infrastructure

Building: 1900 Founders Dr Kettering, OH

Project Engineer: Frederick Swartz

Date:8 Feb 2023

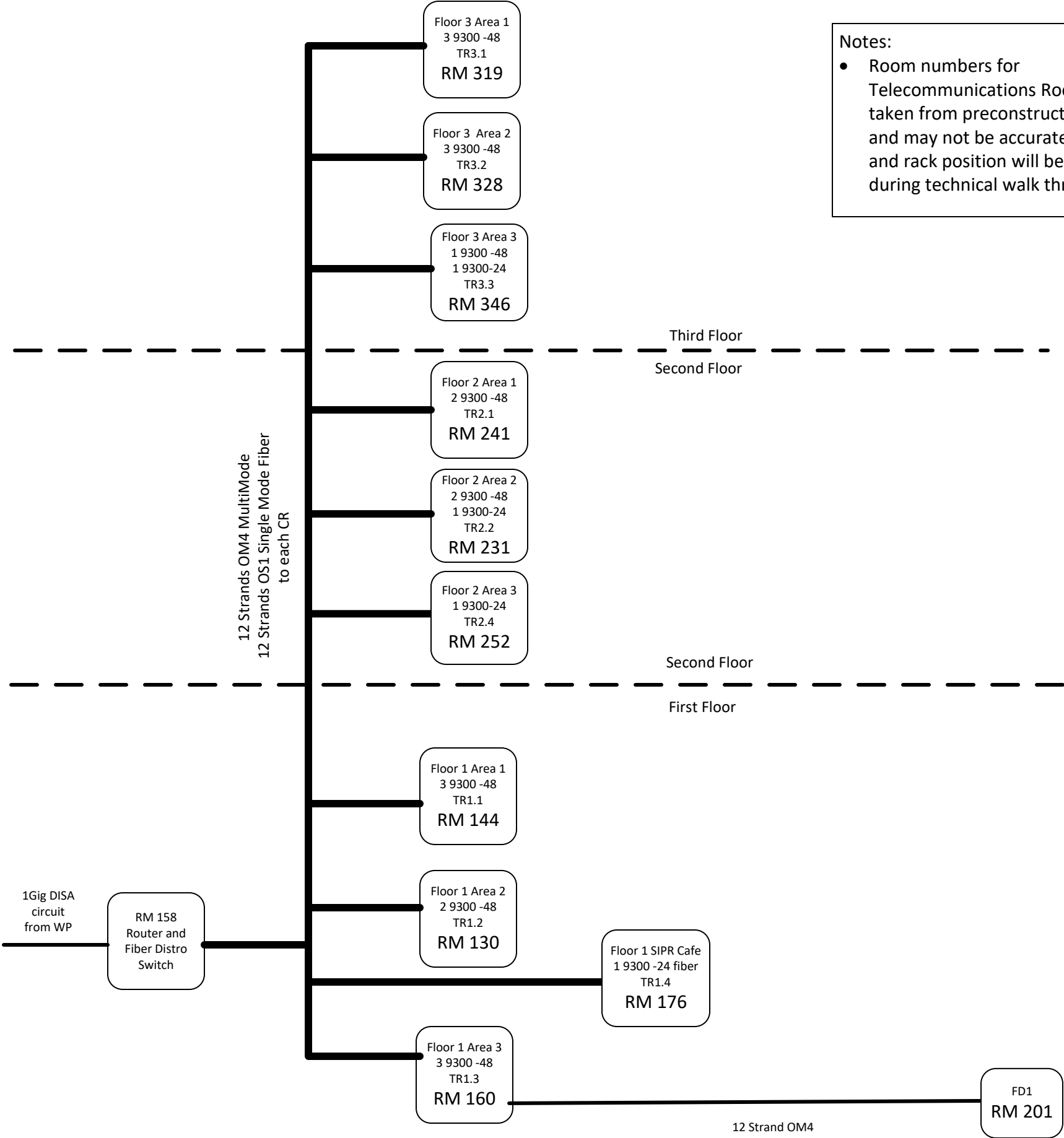
ON-SITE CHANGE: _____

DATE: _____
COORDINATION: _____ PM _____ QA _____ ENG _____ CONTRACTOR/INSTALLER _____

***CONTRACTOR NOTE ***

THIS DRAWING SHOWS A GENERALIZED DETAIL OF WORK TO BE COMPLETED AND IS NOT TO SCALE.
CONTRACTOR SHOULD SURVEY THE PROJECT WORK AREAS USING THE PWS AND PROJECT INSTALLATION DRAWINGS.
POTENTIAL CHANGES AND/OR CONCERNS ARE TO BE REPORTED ASAP TO THE PROJECT MANAGER AND/OR THE PROJECT ENGINEER AND ADDRESSED ACCORDINGLY.

** DRAWING CERTIFICATION **	SIGNATURE		DATE				
	TITLE	88 CS ENG	88 CS QA	88 CS PM	CTR/INST		



Notes:

- Room numbers for Telecommunications Rooms (TR) are taken from preconstruction drawings and may not be accurate. TR location and rack position will be confirmed during technical walk through.

Controlled By: 88 CS/SCO
CUI Category: CIT
Distribution/Dissemination Controls: FEDCON
POC: Raymond E Direito, Chief, Infrastructure
Flight 937-255-0732

CSRD PROJECT # 2019-0414A

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COORDINATION: _____ PM _____ QA _____ ENG _____ CONTRACTOR/INSTALLER _____

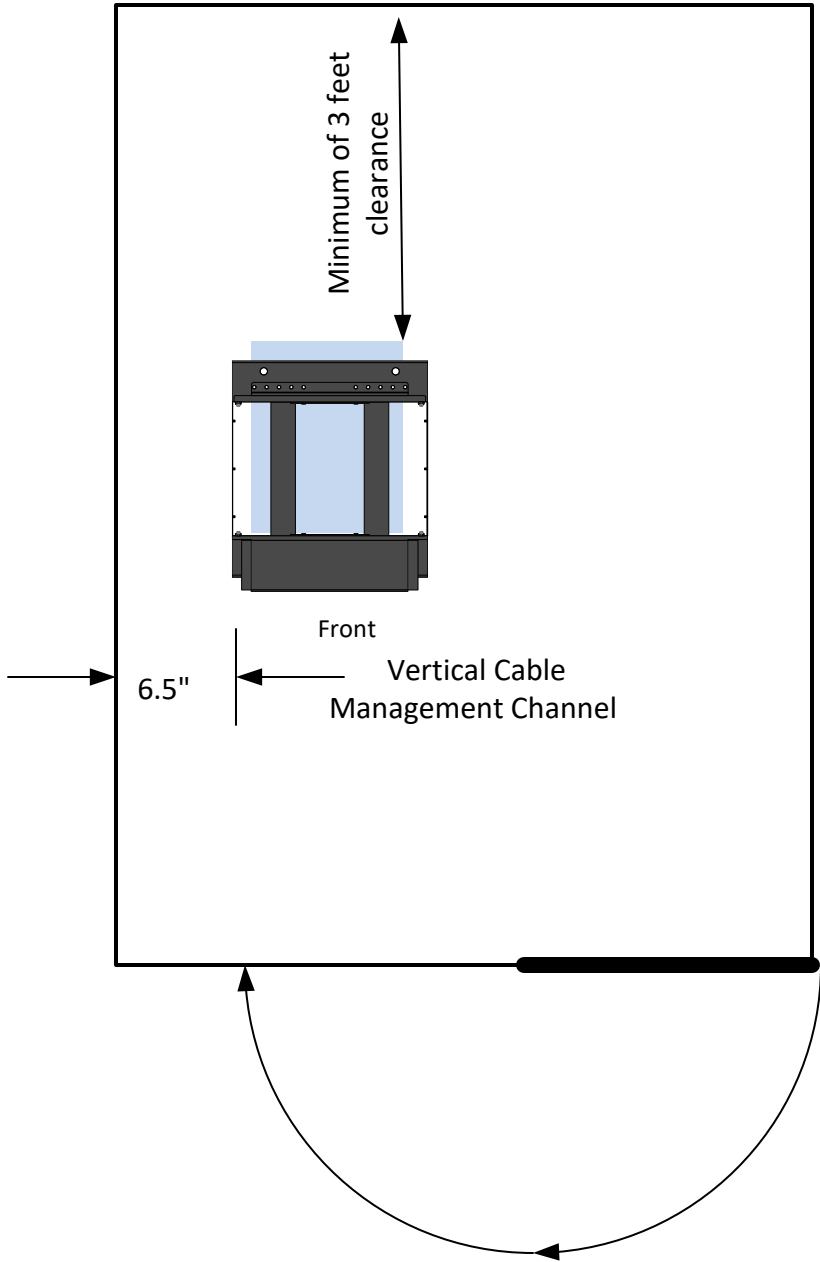
*** CONTRACTOR NOTE ***

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88 CS ENG						
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88 CS PM						
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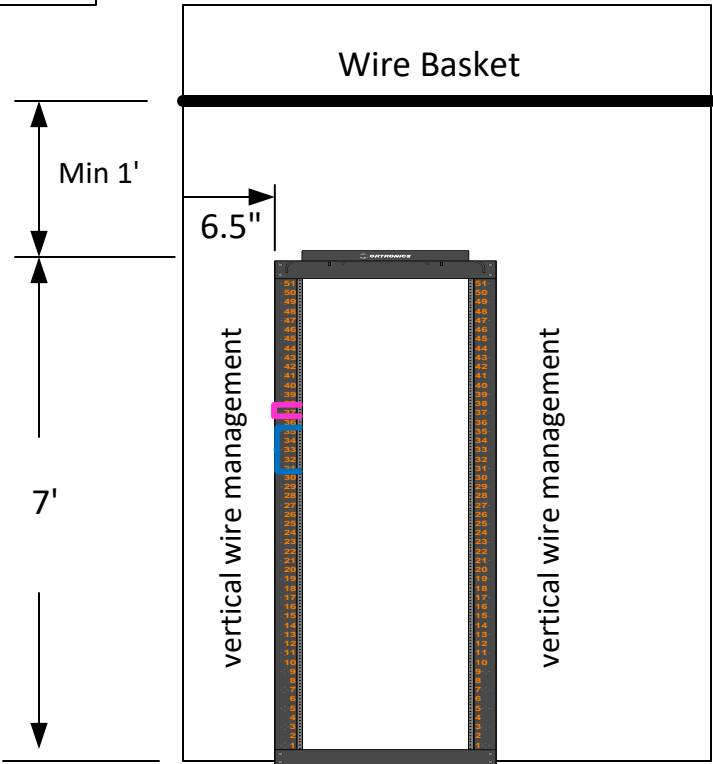
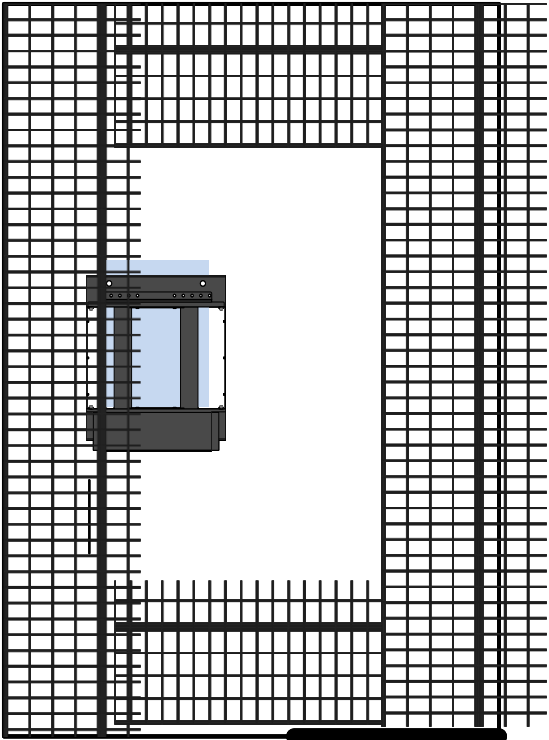
Basic Backbone Wiring Diagram

Typical Telecommunications Room
Layout



- Notes:
- This is a typical rack installation and variations may be needed with approval from network engineer
 - Placement of rack in each TR will be determined during technical interchange walk through.
 - Insure minimum of 3 feet behind rack
 - Install wire basket tray around perimeter of Telecommunication Room (TR)
 - Install vertical wire management channels on each side front of rack.
 - Install half height cabinet in SIPRNet Café as indicated on drawing 9
 - Install ground bar and ground rack and basket tray
 - Properly attach ground bar to building communications ground

Typical Telecommunications Room
Layout



TR Layout

Controlled By: 88 CS/SCO
CUI Category: CIT
Distribution/Dissemination Controls: FEDCON
POC: Raymond E Direito, Chief, Infrastructure
Flight 937-255-0732

CSRD PROJECT # 2019-0414A

Project Title: Telecommunications Infrastructure

Building: 1900 Founders Dr Kettering, OH

Project Engineer: Frederick Swartz

Date: 8 Feb 2023

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** DRAWING CERTIFICATION **		DATE	
TITLE	SIGNATURE		
88 CS ENG			
88 CS QA			
88 CS PM			
CTR/INST			

1st Floor Notes:

- Install racks and vertical wire management in TR144 (rm144 TR1.1), TR130 (rm130 TR1.2) and TR160 (rm160 TR1.3)
- Install a half height cabinet in TR176 (rm176 TR1.4)
- Install fiber optic distribution panels in racks and cabinet
- Install 12 strands of OS1 singlemode fiber and 12 stands of OM4 multimode fiber from TR158 (rm158 TR1) to TR130, TR144, TR 160, and TR176
- Install a network drop inside each TR next to the door for a wall mounted VOIP phone
- Excluding the WSMIS SIPRNet Café, install a single network copper category 6 drop at each workstation location from the closest TR.
- Excluding the WSMIS SIPRNet Café, Install 2 network copper category 6 drops at each printer location, PO and Boss Box office from the closest TR.
- Excluding the WSMIS SIPRNet Café, install 3 copper category 6 network drops in each EO office from the closest TR. Drops locations will be indicated by the customer before work begins with a note on walls.
- Excluding the WSMIS SIPRNet Café, install 4 network copper category 6 drops in each conference room. Drops locations will be indicated by the customer before work begins with a note on walls.
- Install additional network copper category 6 drops in locations indicated on drawing
- Label each drop as TRroom#-Rack#-patch panel port# ex TR160-A1-A1
- Within 10 days of starting a section submit to the Government for approval the proposed network drop path or paths. The use of J-hooks is acceptable.

2nd Floor Notes:

- Install racks and vertical wire management in TR241 (RM241 TR2.1) , TR231 (rm231 TR2.2), and TR252 (RM252 TR2.3)
- Install fiber optic distribution panels (FODP) in racks
- Install 12 strands of OS1 singlemode fiber and 12 stands of OM4 multimode fiber from TR158 to TR241, TR231, and TR252
- Install wall mounted FODP at locations FD1.
- Install 12 strands of OM4 from TR1.3 to FD1
- Install a network drop inside each TR next to the door for a wall mounted VOIP phone
- Install a single network copper category 6 drop at each workstation location from the closest TR.
- Install 2 network copper category 6 drops at each printer location and PO and Boss Box office from the closest TR.
- Install 3 copper category 6 network drops in each EO office from the closest TR. Drops locations will be indicated by the customer before work begins with a note on walls..
- Install 4 network copper category 6 drops in conference rooms. Drops locations will be indicated by the customer before work begins with a note on walls.
- Install additional network copper category 6 drops in locations indicated on drawing
- Label each drop as TRroom#-Rack#-patch panel port# ex TR241-A1-A1
- Within 10 days of starting a section submit to the Government for approval the proposed network drop path or paths. The use of J-hooks is acceptable.

Controlled By: 88 CS/SCO
CUI Category: CIT
Distribution/Dissemination Controls: FEDCON
POC: Raymond E Direito, Chief, Infrastructure
Flight 937-255-0732

CSRD PROJECT # 2019-0414A

Project Title: Telecommunications Infrastructure

Building: 1900 Founders Dr Kettering, OH

Project Engineer: Frederick Swartz

Date: 8 Feb 2023

ON-SITE CHANGE: _____

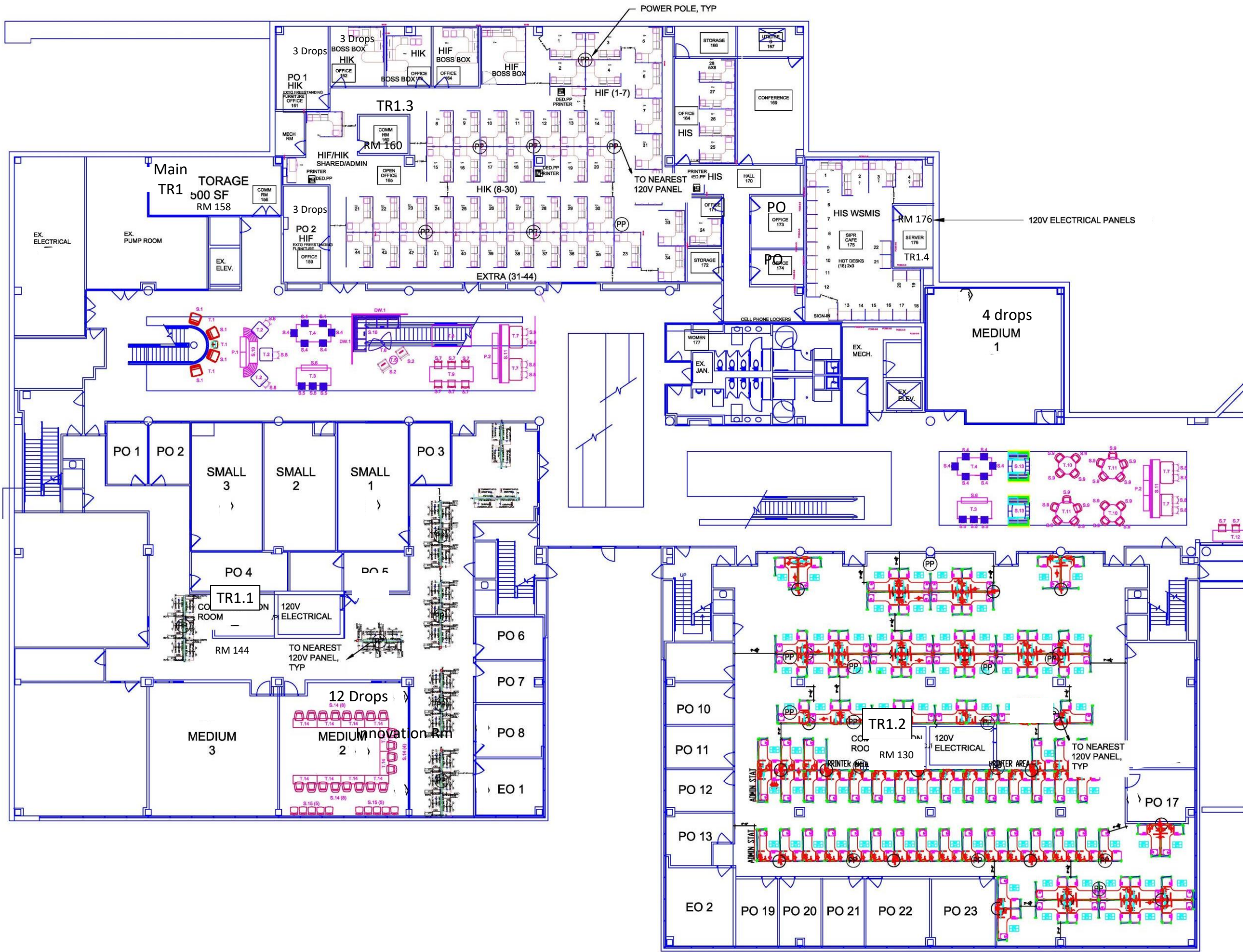
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*** CONTRACTOR NOTE ***

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POTENTIAL CHANGES AND/OR CONCERNS ARE TO BE REPORTED ASAP TO THE PROJECT MANAGER AND/OR THE PROJECT ENGINEER AND ADDRESSED ACCORDINGLY.

** DRAWING CERTIFICATION **		DATE			
TITLE	SIGNATURE				
88 CS ENG					
88 CS QA					
88 CS PM					
CTR/INST					

CUI/FEDCON



1st FI Network

CUI/FEDCON

Controlled By: 88 CS/SCO
CUI Category: CIT
Distribution/Dissemination Controls: FEDCON
POC: Raymond E Direito, Chief, Infrastructure
Flight 937-255-0732

CSRD PROJECT # 2019-0414A

Project Title: Telecommunications Infrastructure

Building: 1900 Founders Dr Kettering, OH

Project Engineer: Frederick Swartz

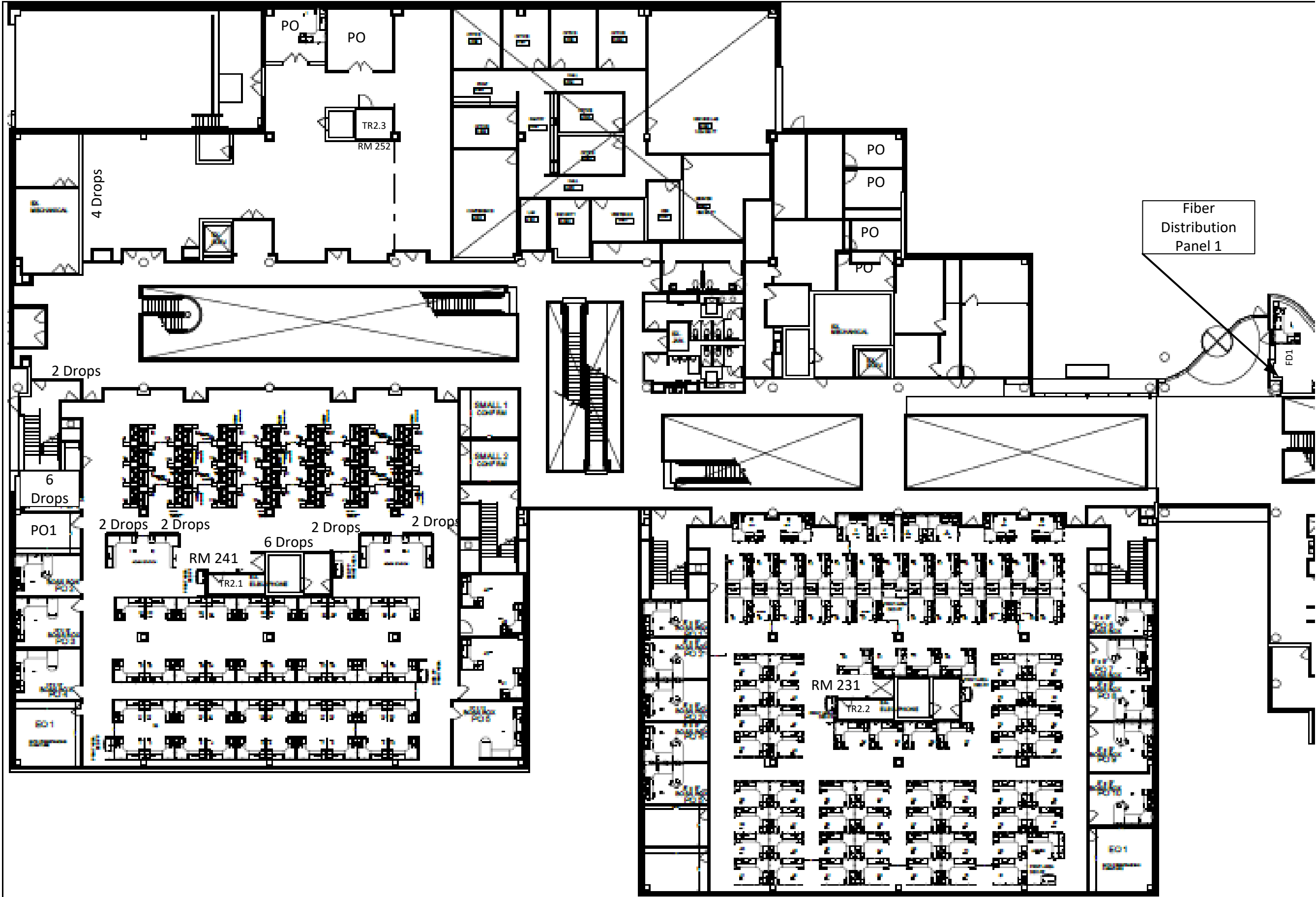
Date: 8 Feb 2023

ON-SITE CHANGE:	CONTRACTOR/INSTALLER
DATE:	ENG
COORDINATION:	PM
QA	CONTRACTOR

*** CONTRACTOR NOTE ***

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** DRAWING CERTIFICATION **		DATE
TITLE	SIGNATURE	
88 CS ENG		
88 CS QA		
88 CS PM		
CTR/INST		



Fiber
Distribution
Panel 1

Controlled By: 88 CS/SCO
CUI Category: CIT
Distribution/Dissemination Controls: FEDCON
POC: Raymond E Direito, Chief, Infrastructure
Flight 937-255-0732

CSRD PROJECT # 2019-0414A
Project Title: Telecommunications Infrastructure
Building: 1900 Founders Dr Kettering, OH
Project Engineer: Frederick Swartz
Date: 8 Feb 2023

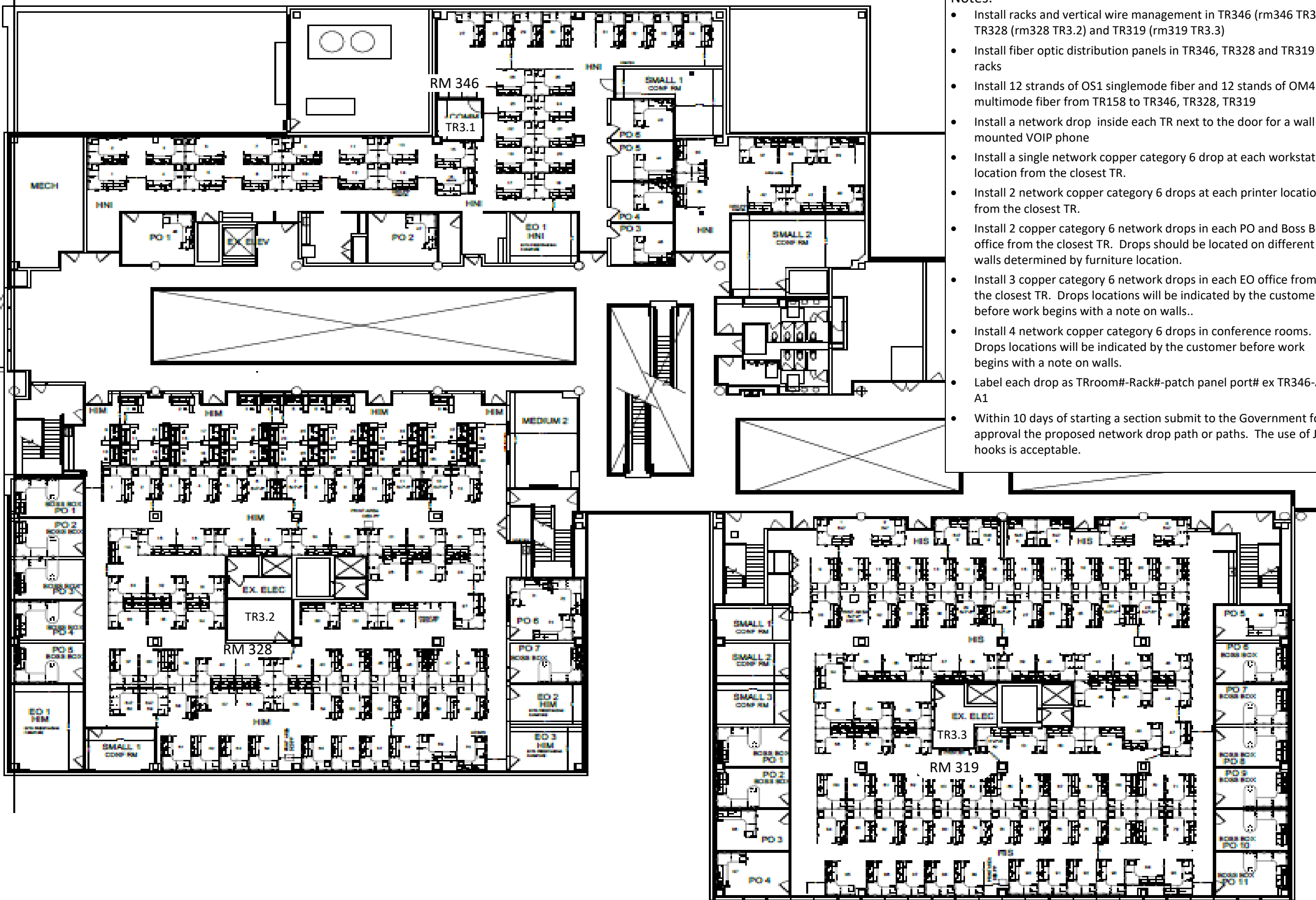
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DATE: _____ COORDINATION: _____ PM _____ QA _____ ENG _____ CONTRACTOR/INSTALLER _____

*** CONTRACTOR NOTE ***

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** DRAWING CERTIFICATION **		SIGNATURE		DATE
TITLE	88 CS ENG			
	88 CS QA			
	88 CS PM			
	CTR/INST			



- Notes:
- Install racks and vertical wire management in TR346 (rm346 TR3.1), TR328 (rm328 TR3.2) and TR319 (rm319 TR3.3)
 - Install fiber optic distribution panels in TR346, TR328 and TR319 racks
 - Install 12 strands of OS1 singlemode fiber and 12 stands of OM4 multimode fiber from TR158 to TR346, TR328, TR319
 - Install a network drop inside each TR next to the door for a wall mounted VOIP phone
 - Install a single network copper category 6 drop at each workstation location from the closest TR.
 - Install 2 network copper category 6 drops at each printer location from the closest TR.
 - Install 2 copper category 6 network drops in each PO and Boss Box office from the closest TR. Drops should be located on different walls determined by furniture location.
 - Install 3 copper category 6 network drops in each EO office from the closest TR. Drops locations will be indicated by the customer before work begins with a note on walls..
 - Install 4 network copper category 6 drops in conference rooms. Drops locations will be indicated by the customer before work begins with a note on walls.
 - Label each drop as TRroom#-Rack#-patch panel port# ex TR346-A1-A1
 - Within 10 days of starting a section submit to the Government for approval the proposed network drop path or paths. The use of J-hooks is acceptable.

Controlled By: 88 CS/SCO
CUI Category: CIT
Distribution/Dissemination Controls: FEDCON
POC: Raymond E Direito, Chief, Infrastructure
Flight 937-255-0732

CSRD PROJECT # 2019-0414A
Project Title: Telecommunications Infrastructure
Building: 1900 Founders Dr Kettering, OH
Project Engineer: Frederick Swartz
Date: 8 Feb 2023

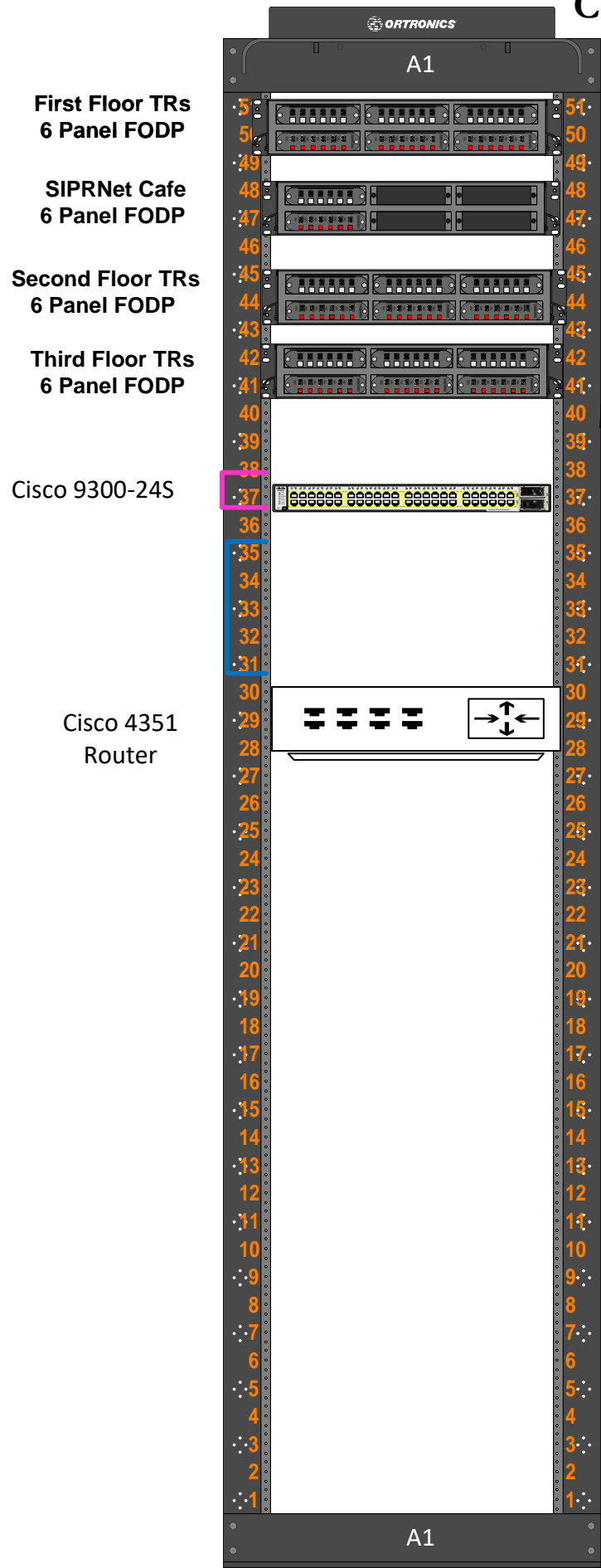
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COORDINATION: _____ PM _____ QA _____ ENG _____ CONTRACTOR/INSTALLER _____

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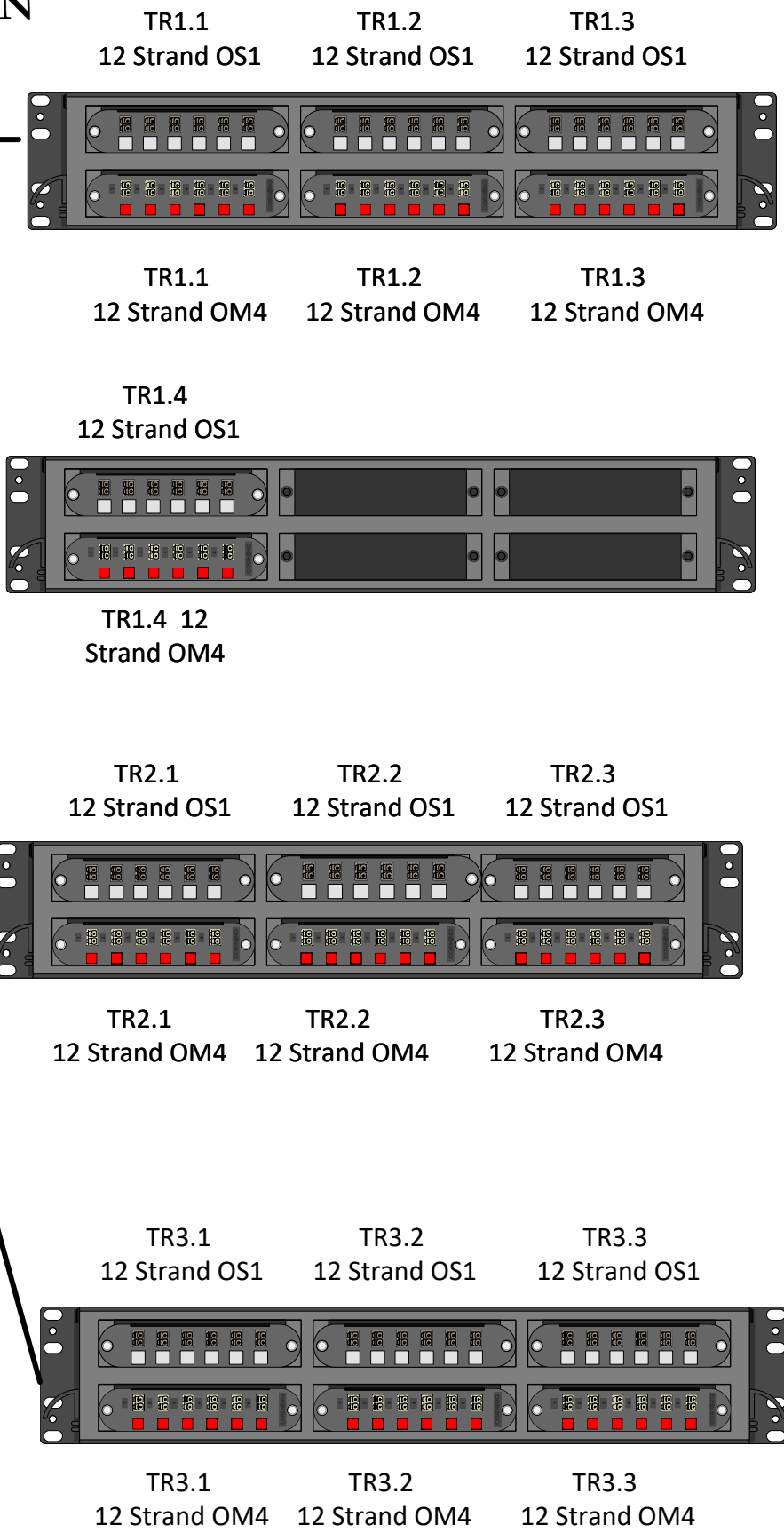
** DRAWING CERTIFICATION **	
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88 CS ENG	
88 CS QA	
88 CS PM	
CTR/INST	

DRAWING 07 of 11
CERTIFIED FINAL

- Notes:
- Install fiber optic distribution pannels in TR1 cabinet as shown.
 - Install 12 strands OS1 singlemode and 12 strands OM4 multimode fiber from cabinet to each Telecommunication Room (TR)
 - Fiber Adapter Panels are notional examples and do not represent actual inserts.



CUI/FEDCON



Main TR1 Cabinet Elevations

CUI/FEDCON

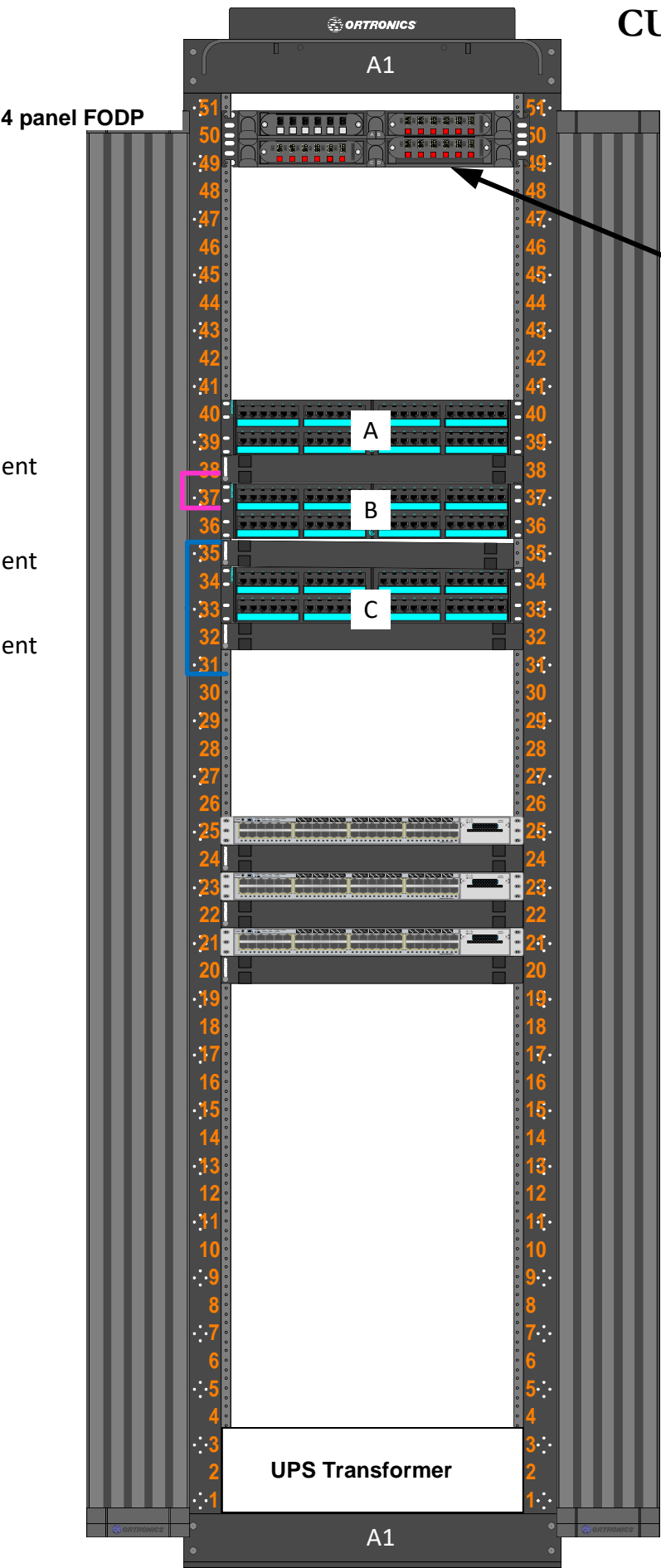
Controlled By: 88 CS/SCO
CUI Category: CIT
Distribution/Dissemination Controls: FEDCON
POC: Raymond E Direito, Chief, Infrastructure
Flight 937-255-0732

CSRD PROJECT # 2019-0414A
Project Title: Telecommunications Infrastructure
Building: 1900 Founders Dr Kettering, OH
Project Engineer: Frederick Swartz
Date: 8 Feb 2023

ON-SITE CHANGE: _____
DATE: _____
COORDINATION: _____ PM _____ QA _____ ENG _____ CONTRACTOR/INSTALLER _____

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** DRAWING CERTIFICATION **		DATE	
TITLE	SIGNATURE		
88 CS ENG			
88 CS QA			
88 CS PM			
CTR/INST			



- Notes:**
- Install a fiber optic distribution panel at top of rack
 - Install a ground bar on wall near rack.
 - Ground all installed communications infrastructure support hardware to the TGB onto the back left side of the rack connecting to the above mentioned grounding strip where present. The AWG for these runs are determined by length as set in TIA 607.
 - These ground connections will not interfere with equipment installation.
 - Install 12 strands of multimode and 12 strands of single mode from TR1 to each of 9 TRs.
 - Install 12 strands of multimode fiber from TR1.3 to fiber optic distribution panel 1 on shown on drawing 6.
 - Terminate all fibers in LC connectors
 - Install a single dedicated 208V (208-240V) 30 Amp L6-30 locking receptacle in wall within 3 feet of rack
 - Install patch panels in racks as needed.
 - Label patch panels as indicated.
 - Install horizontal wire management between each patch panel.
 - Install category 6 copper cable from each TR to each drop location (furniture, printer, and conference room)
 - Patch panel location is approximate and may be higher or lower as needed.

Typical TR Rack Elevation

Controlled By: 88 CS/SCO
CUI Category: CIT
Distribution/Dissemination Controls: FEDCON
POC: Raymond E Direito, Chief, Infrastructure
Flight 937-255-0732

CSRD PROJECT # 2019-0414A

Project Title: Telecommunications Infrastructure

Building: 1900 Founders Dr Kettering, OH

Project Engineer: Frederick Swartz

Date: 8 Feb 2023

ON-SITE CHANGE: _____

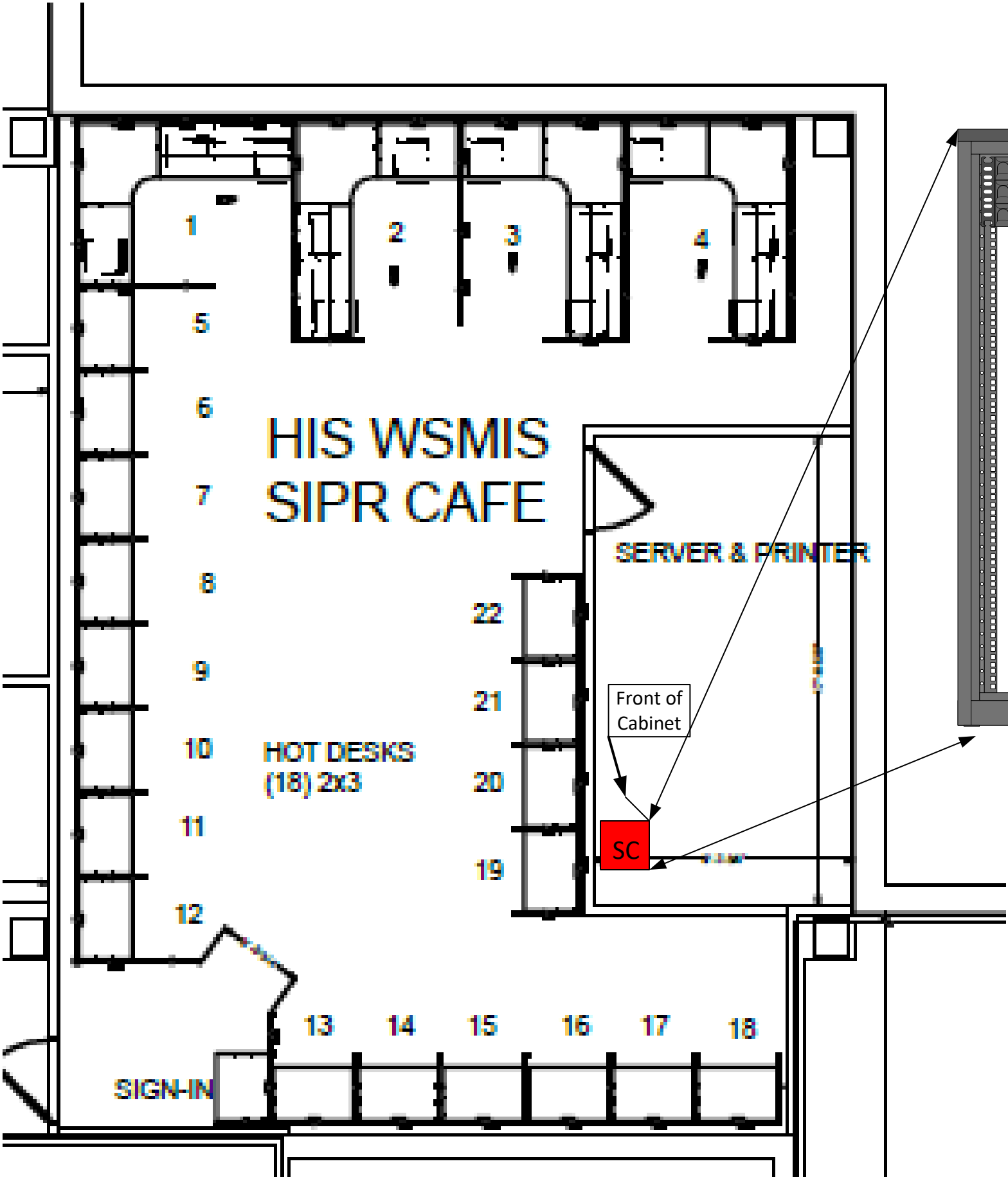
DATE: _____

COORDINATION: _____ PM _____ QA _____ ENG _____ CONTRACTOR/INSTALLER _____

*** CONTRACTOR NOTE ***

THIS DRAWING SHOWS A GENERALIZED DETAIL OF WORK TO BE COMPLETED AND IS NOT TO SCALE.
CONTRACTOR SHOULD SURVEY THE PROJECT WORK AREAS USING THE PWS AND PROJECT INSTALLATION DRAWINGS.
POTENTIAL CHANGES AND/OR CONCERNS ARE TO BE REPORTED ASAP TO THE PROJECT MANAGER AND/OR THE PROJECT ENGINEER AND ADDRESSED ACCORDINGLY.

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- Notes:
- Install a half height cabinet as indicated
- Install a ground bar near cabinet and ground cabinet.
- Install a fiber optic distribution panel (FODP) capable of holding 6 connector panels in the cabinet.
- Terminate 12 strands of OS1 singlemode and 12 strands of OM4 multimode in FODP. Label both ends as HF-158-176-SM and HF-158-176-MM
- Install a 120V 20 amp electrical receptacle in wall within 3 feet of cabinet.
- Install 12 port fiber adapter panels (FAP) in FODP
- Terminate SIPRNet fiber drops in the installed FAPs
- Label each fiber drop as TR176-A1-C1 – C12 and TR176-A1-D1- D12

SIPRNet Cafe

Controlled By: 88 CS/SCO
CUI Category: CIT
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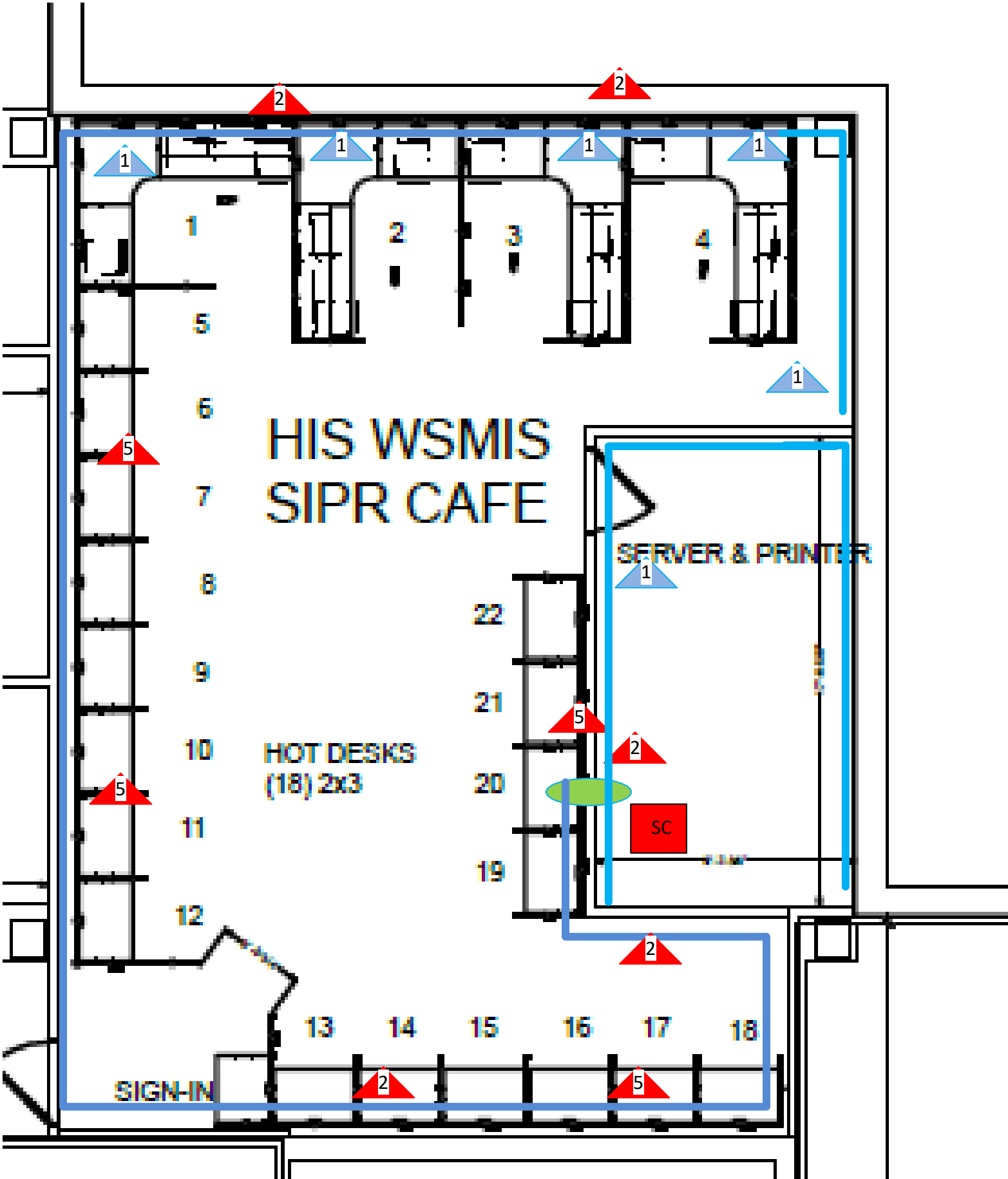
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COORDINATION: _____ PM _____ QA _____ ENG _____ CONTRACTOR/INSTALLER _____

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- Snake cable tray
- 5 fiber SIPRNet drops
- 2 fiber SIPRNet drops
- Below ceiling through wall penetration
- Single NIPNet copper network drop

- Notes:
- Install snake cable tray around outside walls of Café RM 175 as shown.
 - Install NIPNet copper network drop from TR1.3 RM 160 in locations indicated. Drop in Server/printer room RM 176 should be for a wall mounted VOIP phone.
 - Install a through wall penetration conduit as shown
 - Install fiber drops from half height cabinet SC RM 176 to designated locations in RM 175.
 - Install above furniture using Panduit.
 - Terminate all fiber drops in **RED** LC connectors.

Controlled By: 88 CS/SCO
CUI Category: CIT
Distribution/Dissemination Controls: FEDCON
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Flight 937-255-0732

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DATE:	COORDINATION: PM QA ENG
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CTR/INST			

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