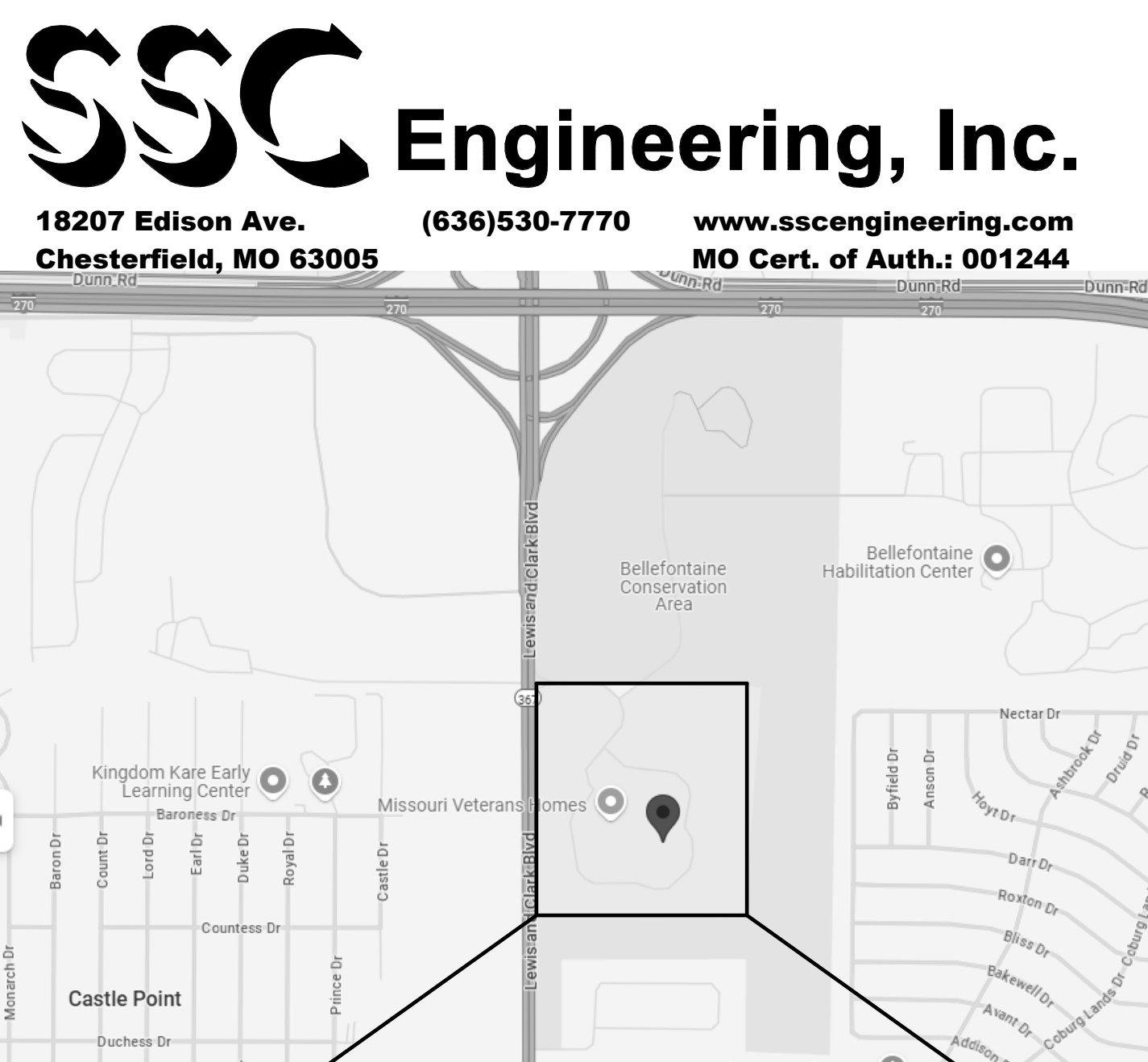


ST. LOUIS VETERANS HOME - INSTALL ACCESS POINTS FOR WIFI ST LOUIS, MO



OWNER: STATE OF MISSOURI
MIKE KEHOE
GOVERNOR

DEPARTMENT OF VETERANS AFFAIRS

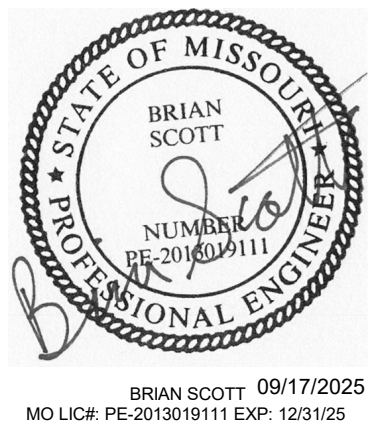
PROJECT MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION



DESIGNER: SSC ENGINEERING INC.

STATE OF MISSOURI PROJECT NUMBER: U2411-01
SSC PROJECT NUMBER: 2024206

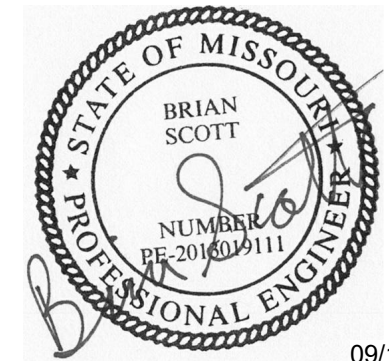
SITE NUMBER: 6804
FACILITY NUMBER: 8136804001
ADDRESS: 10600 LEWIS & CLARK BLVD
BELLEFONTAINE NEIGHBORS, MO 63136



SHEET INDEX	
Sheet Number	Sheet Name
G1.0	COVER SHEET
E0.1	ELECTRICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES
E0.2	ELECTRICAL SITE PLAN
E0.3	ELECTRICAL DETAILS
E0.4	ELECTRICAL DETAILS
E1.0	ELECTRICAL A-WING DATA PLAN
E1.1	ELECTRICAL B-WING DATA PLAN
E1.2	ELECTRICAL C-WING DATA PLAN
E1.3	ELECTRICAL MAIN BUILDING DATA PLAN
E1.3A	ELECTRICAL MAIN BUILDING DATA DEVICE SCHEDULE
E1.4	ELECTRICAL BASMENT DATA PLAN
E1.5	ELECTRICAL GEN/MAINT BUILDING DATA PLAN



18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770 Fax: 636.530.7877
Missouri Certificate of Authority #NC 001244



BRIAN SCOTT
MO LIC# PE-20132019111 EXP. 12/31/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND
CONSTRUCTION
DEPARTMENT OF
VETERANS AFFAIRS

WI-FI DEPLOYMENT PLAN

10600 Lewis and Clark Blvd
ST. LOUIS MO 63136 6005

PROJECT # U2411-01

SITE # 6804

FACILITY # 8136804001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 09/17/2025

CAD DWG FILE: _____
DRAWN BY: ZHB
CHECKED BY: HAP
DESIGNED BY: BDS

SHEET TITLE:

ELECTRICAL SYMBOLS,
ABBREVIATIONS &
GENERAL NOTES

SHEET NUMBER:

E0.1

SHEET 2 OUT OF 12
09/17/2025

ELECTRICAL SYMBOLS LEGEND

WIRING DEVICES		ABBREVIATIONS	
	-WIRELESS ACCESS POINT MOUNTING TYPE 'A'	AC	ABOVE COUNTER
	-UTILIZE STANDARD MOUNTING BRACKET INCLUDED WITH AP	AIC	AMP INTERRUPTING CURRENT
	-WIRELESS ACCESS POINT MOUNTING TYPE 'B'	AFC	AVAILABLE FAULT CURRENT
	-UTILIZE OBERON 900 MOUNT; FURNISHED BY OWNER	AFF	ABOVE FINISHED FLOOR
	-WIRELESS ACCESS POINT MOUNTING TYPE 'C'	CATV	CABLE TELEVISION
	-UTILIZE OBERON 1012 MOUNT; FURNISHED BY OWNER	EC	ELECTRICAL CONTRACTOR
	-WIRELESS ACCESS POINT MOUNTING TYPE 'D'	EM	EMERGENCY
	-UTILIZE AIR-MNT-ART1= MOUNT; FURNISHED BY OWNER	EX	EXISTING
	-WIRELESS ACCESS POINT MOUNTING TYPE 'E'	FLA	FULL LOAD AMPS
	-UTILIZE AIR-MNT-HORZ1= MOUNT; FURNISHED BY OWNER	GC	GENERAL CONTRACTOR
	-WIRELESS ACCESS POINT MOUNTING TYPE 'F'	GF/GFCI	GROUND FAULT CIRCUIT INTERRUPTER TYPE DEVICE. (U.N.O.)
	-UTILIZE AIR-AP-BRACKET2= MOUNT; FURNISHED BY OWNER	IG	ISOLATED GROUND TYPE DEVICE
		MAX	MAXIMUM
		MFR	MANUFACTURER
		MH	MOUNTING HEIGHT
		MIN	MINIMUM
		NF	NON-FUSED SWITCH
		NTS	NOT TO SCALE
		RT	RAINTIGHT
		TP	TAMPER PROOF TYPE DEVICE
		TCC	TEMPERATURE CONTROL CONTRACTOR
		TYP	TYPICAL
		U.N.O.	UNLESS NOTED OTHERWISE
		UPS	UNINTERRUPTIBLE POWER SUPPLY
		WAPI/AP	WIRELESS ACCESS POINT
		WP	WEATHERPROOF
MISCELLANEOUS			
		MECHANICAL EQUIPMENT ITEM IDENTIFICATION PER EQUIPMENT SCHEDULE ON MECHANICAL DRAWINGS.	
		MISCELLANEOUS EQUIPMENT NUMBER. SEE MISCELLANEOUS EQUIPMENT SCHEDULE.	
		INDICATES 2HR FIRE WALL.	

SEISMIC RESTRAINTS FOR ELECTRICAL SYSTEM COMPONENTS (EARTHQUAKE LOAD RESISTANCE)

OCCUPANCY CATEGORY (III)				SEISMIC DESIGN CATEGORY (D)			
LISTING OF EQUIPMENT & SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOFS, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY SEALED ANCHORAGE AND SWAY BRACING DETAILS		COMMENTS
	NOT PROVIDED	PROVIDED	NOT PROVIDED	PROVIDED	ON CONST. DOCUMENTS	SUBSEQUENT SUBMITTAL	
					DRAWING NO. OR SPEC. SECTION	SEPARATE PERMIT & PLANS	
OTHER EQUIPMENT & SYSTEM COMPONENTS NEEDED FOR CONTINUED OPERATION OF SEISMIC USE GROUP III FACILITIES OR WHOSE FAILURE COULD IMPAIR THEIR CONTINUED OPERATION:							
PATIENT CARE AREAS EQUIPMENT/WIRING	X		X				1
OTHER GENERAL EQUIPMENT & SYSTEM COMPONENTS:							
MAIN SWITCHGEAR/PANELS							N/A, EXISTING
TRANSFORMERS							N/A, EXISTING
IT RACK		X	X			X	4
LIGHTING FIXTURES							N/A, EXISTING
CONDUIT AND WIRING	X		X				1, 2, 3
IT IS THE BASIC INTENT OF THIS CODE BLOCK TO DECLARE WHETHER OR NOT ANCHORAGE AND SWAY BRACING IS REQUIRED ON THE PROJECT. IF SO, TO DECLARE WHETHER OR NOT THE DETAILS ARE SHOWN ON THE PLANS OR WILL BE SHOWN ON A SUBSEQUENT SUBMISSION. IF SEISMIC RESTRAINT OF A COMPONENT IS NOT REQUIRED BY CODE THIS SHOULD BE STATED IN COMMENTS. IF SEISMIC RESTRAINT, WHICH IS NOT REQUIRED BY CODE, IS BEING PROVIDED DUE TO OWNER/DESIGNER REQUIREMENTS THIS SHOULD ALSO BE STATED IN THE COMMENTS.							
PLANS SIGNED AND SEALED BY A MISSOURI PROFESSIONAL ENGINEER ALONG WITH A SEPARATE PERMIT APPLICATION NEED TO BE SUBMITTED TO THE AHJ A MINIMUM OF TWO WEEKS PRIOR TO THE PLANNED INSTALLATION TO ALLOW FOR PLAN REVIEW AND DISTRIBUTION TO THE INSPECTOR. ADDITIONAL TIME MAY BE NEEDED IF SUCH SUBMISSIONS ARE DEFICIENT.							
1. EXCEPTION FOR IP=1.0, WEIGHT 5LBS/FT OR LESS. 2. FLEXIBLE CONNECTION REQUIRED BETWEEN EQUIPMENT AND COMPONENTS IF INSTALLATION OTHER THAN MOUNTED TO WALLS AND FLOORS. 3. EXCEPTION FOR RIGID STEEL IMC CONDUIT ≤ 1-1/2 INCHES IN DIAMETER, AND EMT OR ALUMINUM CONDUIT ≤ 2 INCHES IN DIAMETER. 4. PLANS SIGNED AND SEALED BY A MISSOURI PROFESSIONAL ENGINEER TO BE SUBMITTED SEPARATELY WITH PERMIT APPLICATION FOR REVIEW. TYPICAL SEISMIC ANCHORAGE (OR SWAY BRACING) PROVIDED ON DRAWINGS IS FOR REFERENCE ONLY.							

GENERAL CONSTRUCTION NOTES:

- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR NECESSARY PERMITS, LICENSES, INSPECTIONS AND FEES FROM THE LOCAL AUTHORITIES. CONTRACTOR SHALL BE LICENSED BY LOCAL AND/OR STATE AUTHORITIES HAVING JURISDICTION.
- ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), NATIONAL ELECTRICAL CODE (NEC), INTERNATIONAL BUILDING CODE (IBC) AND OTHER APPLICABLE LOCAL, STATE AND NATIONAL CODES.
- ALL ELECTRICAL MATERIAL USED ON THIS PROJECT SHALL BE "UL" LISTED AND LABELED.
- THE ENTIRE ELECTRICAL SYSTEM AND ALL ELECTRICAL EQUIPMENT SHALL BE GROUNDED IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND AS SHOWN ON THE DRAWINGS. PROVIDE A GROUND WIRE IN EACH POWER CONDUIT, SIZED PER THE NEC.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE SYSTEM PER CONTRACT DRAWINGS AND ENSURING THAT THE SYSTEM IS OPERATIONAL UPON JOB COMPLETION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL OTHER TRADES AND DISCIPLINES TO AVOID CONFLICTS AND TO VERIFY ALL EQUIPMENT CONNECTIONS. COORDINATE ALL WIRING DEVICE LOCATIONS AND ELEVATIONS INDICATED ON THE PLANS WITH THE OWNER, ARCHITECT AND FINAL FURNITURE/EQUIPMENT LAYOUTS.
- CONTRACTOR SHALL GUARANTEE ALL LABOR AND MATERIAL INSTALLED OR FURNISHED UNDER THIS CONTRACT FOR A PERIOD OF NOT LESS THAN ONE YEAR AFTER FINAL ACCEPTANCE OF THE BUILDING.
- MAINTAIN AND VERIFY ELECTRICAL EQUIPMENT CLEARANCES AND WORKING SPACE PER NEC.
- PROVIDE ELECTRICAL SYSTEMS IDENTIFICATION AS INDICATED IN THE SPECIFICATIONS AND REQUIRED BY THE NEC OR NFPA 70E.
- IF ANYTHING ON THE PLANS IS NOT IN COMPLIANCE WITH NATIONAL, STATE OR LOCAL CODES, THE ENGINEER SHALL BE ADVISED BY THE ELECTRICAL CONTRACTOR DURING THE BIDDING PROCESS. THERE ARE TO BE NO CHANGES TO THE CONTRACT DOCUMENTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS AND METHODS FOR NEW WORK, SAFETY, ETC., IN ACCORDANCE WITH ALL AUTHORITIES HAVING JURISDICTION. (I.E. OSHA, NEC, ETC.)
- THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR PHASING AND SCHEDULING OF THIS PROJECT. COORDINATE WITH OWNER'S FIELD REPRESENTATIVE.
- VERIFY ALL INDICATED DIMENSIONS BY FIELD MEASUREMENTS. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- PROVIDE ACCESS PANELS OR DOORS WHERE EQUIPMENT OR DEVICES REQUIRED TO BE ACCESSIBLE ARE CONCEALED BEHIND INACCESSIBLE SURFACES.
- PRIOR TO TURNOVER, THIS CONTRACTOR SHALL REMOVE ALL RUBBISH, DIRT, DEBRIS AND STAINS ON THEIR WORK OR CAUSED BY THEIR WORK AND SHALL THOROUGHLY CLEAN ALL EQUIPMENT, FIXTURES, DEVICES, ETC. CONTRACTOR SHALL REPLACE, TOUCH-UP OR REFINISH THE FACTORY FINISH ON EQUIPMENT, FIXTURES, DEVICES, ETC. MARRED DURING SHIPMENT, INSTALLATION OR CONSTRUCTION.
- PANELBOARD CIRCUIT BREAKERS SHALL BE EQUIPPED WITH BOLT-ON TYPE BREAKERS, PHENOLIC NAME TAGS AND KEYED LOCK AND LATCH. EACH PANEL SHALL BE PROVIDED WITH TWO KEYS WITH ALL PANELS KEYED ALIKE. ALL CIRCUIT BREAKERS USED TO SWITCH LIGHT FIXTURES SHALL BE TYPE SWD SHALL BE APPROVED FOR THE PURPOSE. ALL CIRCUIT BREAKERS SERVING HVAC EQUIPMENT SHALL BE HACR TYPE.
- ALL CIRCUITS INDICATED ON THESE DRAWINGS ARE 20A, 1P CIRCUIT BREAKERS IN PANELS UNLESS NOTED OTHERWISE.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER IDENTIFICATION AND LABELING OF ALL CIRCUIT BREAKERS. EACH PANELBOARD SHALL BE EQUIPPED WITH A TYPE WRITTEN CIRCUIT DIRECTORY. ALL EXISTING PANELBOARDS THAT HAVE CIRCUITS ALTERED SHALL HAVE A NEW TYPE WRITTEN CIRCUIT DIRECTORY SHOWING CIRCUIT REVISIONS AND EXISTING CIRCUIT CONDITIONS ON THE NEW DIRECTORY.
- MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED. MINIMUM CONDUIT SIZE SHALL BE 1/2" UNLESS OTHERWISE NOTED. ALL CONDUIT IN SLABS OR EXTERIOR TO BUILDING SHALL BE MINIMUM 1". PROVIDE A NYLON/POLY PULL CORD IN ALL EMPTY CONDUITS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL COPPER CONDUCTORS TYPE THHN OR THWN FOR ALL INTERIOR BUILDING WIRE. FOR EXTERIOR FEEDERS AND BRANCH CIRCUITS PROVIDE ALL COPPER CONDUCTORS TYPE XHHW-2.
- VOLTAGE DROP MINIMUM WIRE SIZING (20A CIRCUIT) USE: 120V CIRCUIT OVER 100' SHALL BE #10 MINIMUM; 120V CIRCUIT OVER 175' SHALL BE #8 MINIMUM; 208V CIRCUIT OVER 200' SHALL BE #10 MINIMUM; 277V CIRCUIT OVER 200' SHALL BE #10 MINIMUM. MINIMUM WIRE SIZE FOR ANY 20A BRANCH CIRCUIT SHALL BE #12. FURTHERMORE, CONSIDER ALL DERATING OF CONDUCTORS AS REQUIRED IN ACCORDANCE WITH THE APPLICABLE NEC.
- ALL HOME RUNS SHALL BE IN EMT CONDUIT. MC CABLE IS PERMITTED ABOVE CEILINGS FROM HOMERUNS TO FIXTURES AND WIRING DEVICES WITHIN WALLS AND FURRED COLUMNS. REFER TO ELECTRICAL SPECIFICATIONS FOR MORE DETAILED INFORMATION.
- HEATING, VENTILATING, AIR CONDITIONING EQUIPMENT AND PLUMBING EQUIPMENT ALONG WITH ALL OTHER MISCELLANEOUS EQUIPMENT, MOTORS, AND KITCHEN EQUIPMENT SHALL BE POWERED AS CALLED OUT ON EQUIPMENT PROVIDER'S SCHEDULES UNLESS OTHERWISE NOTED. EC SHALL PROVIDE DISCONNECTING MEANS UNLESS SPECIFICALLY NOTED ON EQUIPMENT PROVIDER'S SCHEDULE.
- ALL WIRING DEVICES SHALL BE FLUSH MOUNTED, UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL BE RUN WITHIN WALL CAVITIES, BELOW FLOOR AND ABOVE CEILINGS. SURFACE MOUNTED ELECTRICAL WORK SHALL NOT BE USED UNLESS SPECIFICALLY NOTED ON THE PLANS.
- ALL OPENINGS IN FIRE AND/OR SMOKE RATED WALLS, FLOORS, AND PARTITIONS FOR CONDUITS SHALL BE SEALED WITH RED FIRE RESISTANT CAULK OR PUTTY TO MAINTAIN THE FIRE AND/OR SMOKE RATING. ALL OPENINGS IN FIRE RATED AND/OR SMOKE WALLS, FLOORS, AND PARTITIONS FOR CABLING SHALL BE SEALED WITH WIREMOLD FLAMESTOPPER, STI EZ-PATH, HILTI SPEED SLEEVE OR EQUIVALENT.
- NO CONDUIT OR CABLES SHALL BE INSTALLED EXPOSED IN FINISHED AREA. NON-CEILING AREA CONDUITS SHALL BE INSTALLED EXPOSED IN A NEAT WORKMAN LIKE MANNER AND BE PAINTED TO MATCH ADJACENT FINISHES.
- ALL MATERIALS, DEVICES, FIXTURES, ETC., THAT ARE REQUIRED FOR THIS PROJECT ARE TO BE FURNISHED AND INSTALLED BY THE EC, UNLESS SPECIFICALLY INDICATED TO BE FURNISHED AND OR INSTALLED BY OTHERS.
- SCOPE OF WORK ALSO INCLUDES ANY ASSOCIATED WORK FOR DEMOLITION AND REPLACEMENT / PATCHING / PAINTING / ETC. AS REQUIRED FOR INSTALLATION AND MODIFICATION TO THE EXISTING SYSTEM AND EQUIPMENT CONNECTIONS AS NOTED WITHIN THE BID DOCUMENTS. CONTRACTOR SHALL COORDINATE ALL REPAIRS TO MATCH EXISTING.
- OWNER WILL FURNISH ALL WIRELESS ACCESS POINTS (APs) WITH PRE-DEFINED LABELS. CONTRACTOR SHALL INSTALL THE RESPECTIVE AP AT THE LOCATION DEFINED. ALL APs ARE INTENDED TO BE INSTALLED FACING CUSTOMER (TYPICALLY DOWN), UNLESS SPECIFICALLY NOTED OTHERWISE.
- TIMING OF ALL WORK IN RESIDENT UNITS AND DIRECTLY OUTSIDE RESIDENT UNITS MUST BE COORDINATED WITH OWNER. SAFETY AND CARE OF ALL RESIDENTS IN THE FACILITY IS TOP PRIORITY AND ACCESS TO RESIDENT UNITS MAY BE LIMITED AND UNPREDICTABLE AT TIMES. OWNER WILL MAKE EFFORTS TO FIND ACCEPTABLE WORK TIMES IN THE RESIDENT UNITS.
- ALL DATA CABLING SHALL BE INSTALLED, TESTED AND CERTIFIED. CONTRACTOR SHALL PROVIDE ALL CERTIFICAIONS TO OWNER AND ENGINEER IN A SUBMITTAL FOR REVIEW AS OUTLINED IN THE SPECIFICATIONS. EACH INDIVIDUAL CABLE SHALL BE TESTED AND THE CERTIFICATION REPORT SHALL INCLUDE THE CORRESPONDING CABLE IDENTIFICATION NUMBER. THERE IS POTENTIAL FOR MULTIPLE PROJECTS IN THIS FACILITY TO BE RUNNING IN PARALLEL AND IT IS CRITICAL FOR CABLING TO BE TESTED AND CERTIFIED AND PROPERLY DOCUMENTED. CONTRACTOR SHALL INCLUDE ON AS-BUILT DOCUMENTATION THE CABLE IDENTIFICATION NUMBER.

CODES & STANDARDS

2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL FIRE CODE
2014 NATIONAL ELECTRICAL CODE
2012 NFPA 101
2012 NFPA 99

ELECTRICAL SHEET LIST

Sheet Number	Sheet Name
G1.0	COVER SHEET
E0.1	ELECTRICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES
E0.2	ELECTRICAL SITE PLAN
E0.3	ELECTRICAL DETAILS
E0.4	ELECTRICAL DETAILS
E1.0	ELECTRICAL A-WING DATA PLAN
E1.1	ELECTRICAL B-WING DATA PLAN
E1.2	ELECTRICAL C-WING DATA PLAN
E1.3	ELECTRICAL MAIN BUILDING DATA PLAN
E1.3A	ELECTRICAL MAIN BUILDING DATA DEVICE SCHEDULE
E1.4	ELECTRICAL BASMENT DATA PLAN
E1.5	ELECTRICAL GEN/MANT BUILDING DATA PLAN

SSC JOB# 2024206 - BID DOCUMENTS 09/17/2025



18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770 Fax: 636.530.7877
Missouri Certificate of Authority #NC 001244



09/17/2025

BRIAN SCOTT
MO LIC# PE-20132018111 EXP. 12/31/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND
CONSTRUCTION
DEPARTMENT OF
VETERANS AFFAIRS

WI-FI DEPLOYMENT PLAN

10600 Lewis and Clark Blvd
ST. LOUIS MO 63136 6005

PROJECT # U2411-01
SITE # 6804
FACILITY # 8136804001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 09/17/2025

CAD DWG FILE: _____
DRAWN BY: ZHB
CHECKED BY: HAP
DESIGNED BY: BDS

SHEET TITLE:

ELECTRICAL SITE PLAN

SHEET NUMBER:

E0.2

SHEET 3 OUT OF 12
09/17/2025

ELECTRICAL GENERAL NOTES:

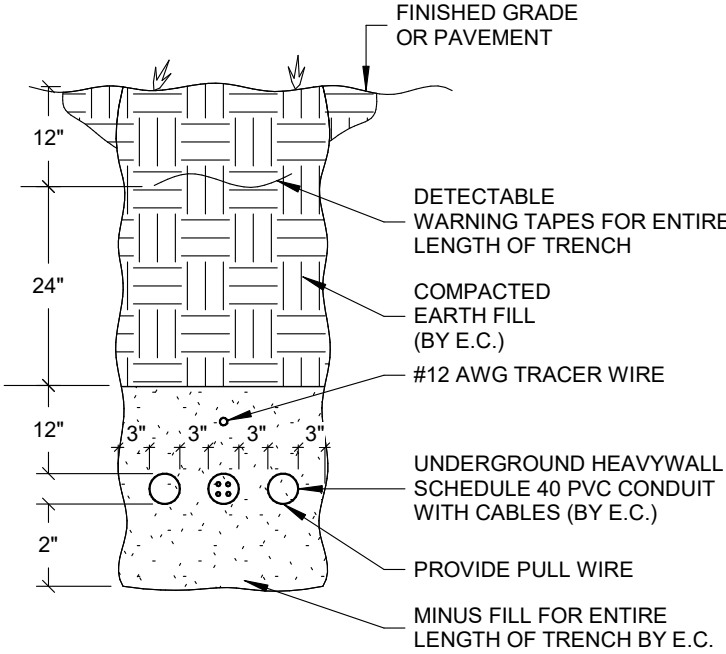
- REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
- EC SHALL FIELD VERIFY EXISTING POLES, MANHOLES, SPARE CONDUIT, RIGHTS-OF-WAY, UTILITIES, AND BUILDING LOCATIONS PRIOR TO STARTING WORK. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.
- PROVIDE 1800# MULETAPE IN ALL NEW CONDUITS, INNERDUCTS AND IN ALL CONDUITS FOR NEW CABLE RUNS.
- UNDERGROUND FACILITY STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDED INFORMATION. THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF LOCATION OF ALL UNDERGROUND STRUCTURES AND FACILITIES EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PERFORM PRIVATE & PUBLIC UTILITY LOCATES.
- ALL IN-GROUND CONDUITS SHALL BE 1" MINIMUM, SCHEDULE 40 PVC, UNLESS NOTED OTHERWISE.
- INFORMATION ON THIS SHEET IS COMPILED FROM EXISTING DRAWINGS AND CASUAL FIELD OBSERVATIONS AND SHALL BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF ALL EQUIPMENT AND DEVICES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- WHERE ROUTING OF RACEWAYS ARE PROVIDED, THE INTENT IS TO PROVIDE GENERAL GUIDANCE. ALTERNATE ROUTES MAY BE CONSIDERED TO SIMPLIFY ROUTING. THE INTENT IS TO MINIMIZE EXPOSED CONDUIT AND MINIMIZE CONCRETE/ASPHALT WORK. EC SHALL PROVIDE ALTERNATE ROUTING PATHS IN SHOP DRAWING PHASE FOR REVIEW.
- ELECTRICAL CONTRACTOR MAY ELECT TO OPEN TRENCH, EXCAVATE AND BACKFILL OR DIRECTIONALLY BORE. IF DIRECTIONAL BORING IS EXECUTED, UTILIZE HIGH DENSITY POLYETHYLENE (HDPE) CONDUIT, TYPE 40 THAT COMPLIES WITH NEMA TCB 4. CONDUITS FOR DATA OR FIBER USE SHALL BE PROVIDED WITH A 12AWG TRACER WIRE. DO NOT DIRECTIONALLY BORE BELOW BUILDINGS OR FOOTINGS, BORING SHOULD NOT OCCUR WITHIN 10' OF THE BUILDINGS.

KEYED NOTES:

- IF ALTERNATE #1 IS ACCEPTED, PROVIDE (1) 2" CONDUIT FROM EXISTING MAINT. BUILDING TO GENERATOR BUILDING. TRENCH PER DETAIL #2/E0.2. PROVIDE MAX CELL INNERDUCT FOR FIBER. FIBER TERMINATING AT GENERATOR BUILDING SHALL BE ROUTED THROUGH PULL BOX AT MAINT. BUILDING AND BACK TO MAIN BUILDING; DO NOT DAISEY CHAIN FROM MAIN. BUILDING.
- PROVIDE ONE 2" CONDUIT FROM EXISTING MAIN BUILDING TO MAINTENANCE BUILDING. PROVIDE MAXCELL FABRIC INNERDUCT FOR FIBER.
- SEE E1.3 FOR CONTINUATION.
- SEE E1.5 FOR CONTINUATION.



ROUTING OF EXISTING UNDERGROUND UTILITIES IS UNKNOWN. PRIOR TO TRENCHING, CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE FOR PRIVATE AND PUBLIC LOCATES.



NOTES:

- ALL EXCAVATION IN ELECTRICAL ONLY TRENCHES BY E.C.
- COORDINATE ALL WORK WITH UTILITY COMPANIES.
- EXCAVATED MATERIAL SHALL BE PLACED A MINIMUM OF 2' FROM BOTH EDGES OF THE TRENCH.
- EDGES OF TRENCH SHALL BE A MIN OF 36" FROM EDGE OF WATER, GAS OR SEWER PIPES.
- SEE GENERAL NOTES ON THIS SHEET FOR DIRECTIONAL BORING OPTIONS.

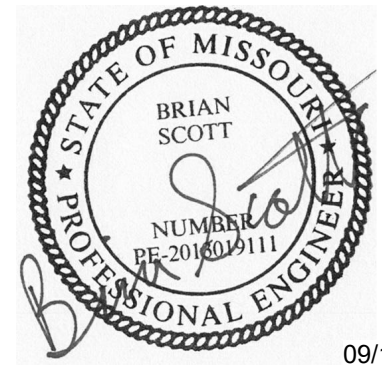
2 TRENCH DETAIL FOR TELEPHONE AND CABLE TV CONDUITS
NOT TO SCALE

ELECTRICAL SITE PLAN
SCALE: 1" = 60'-0"
NORTH

SSC JOB# 2024206 - BID DOCUMENTS 09/17/2025



18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770 Fax: 636.530.7877
Missouri Certificate of Authority #NC 001244



09/17/2025

BRIAN SCOTT
MO LIC# PE-20132019111 EXP. 12/31/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND
CONSTRUCTION
DEPARTMENT OF
VETERANS AFFAIRS

WI-FI DEPLOYMENT PLAN

10600 Lewis and Clark Blvd
ST. LOUIS MO 63136 6005

PROJECT # U2411-01
SITE # 6804
FACILITY # 8136804001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 09/17/2025

CAD DWG FILE: _____
DRAWN BY: ZHB
CHECKED BY: HAP
DESIGNED BY: BDS

SHEET TITLE:
ELECTRICAL DETAILS

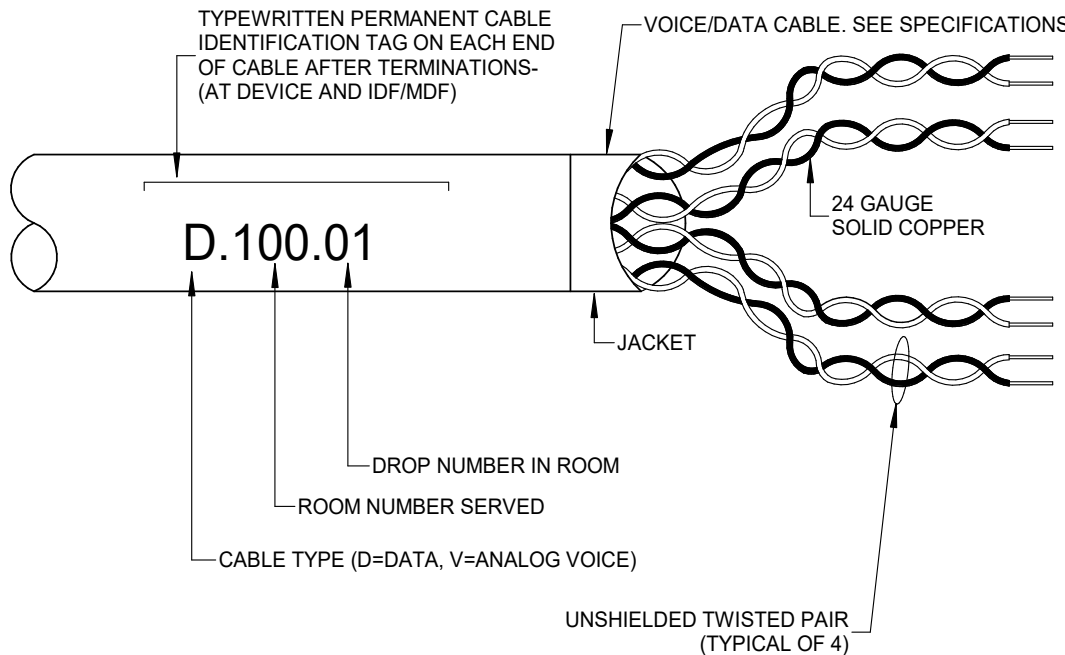
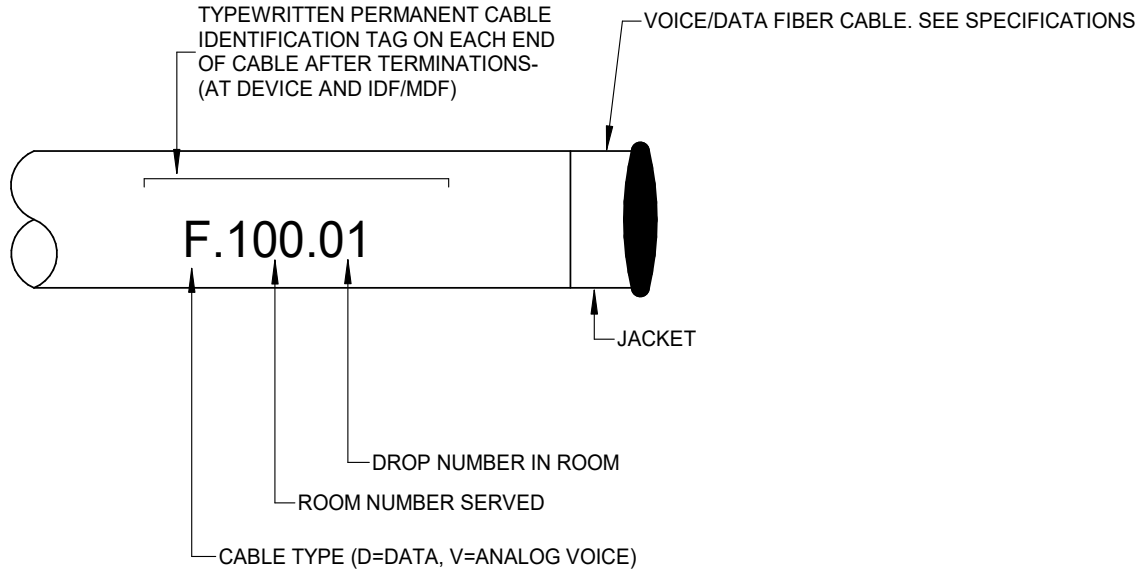
SHEET NUMBER:

E0.3

SHEET 4 OUT OF 12
09/17/2025

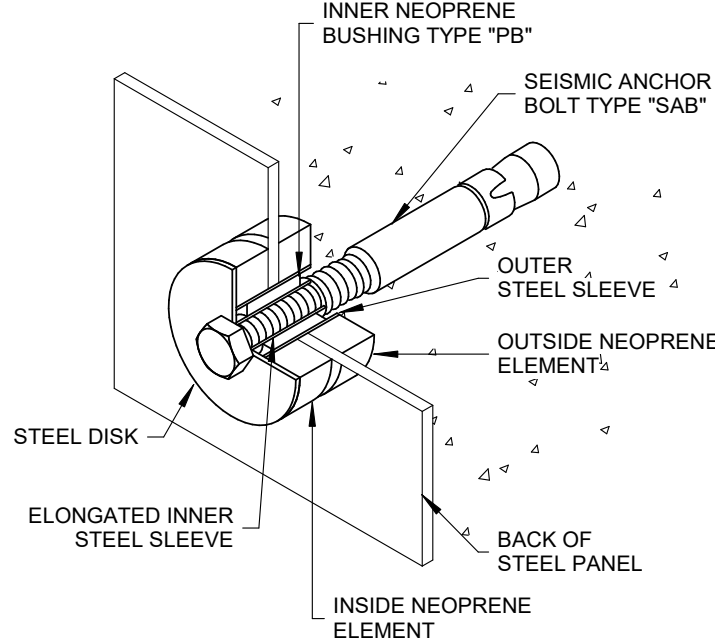
ALL DATA CABLING SHALL BE INSTALLED, TESTED AND CERTIFIED. CONTRACTOR SHALL PROVIDE ALL CERTIFICAIONS TO OWNER AND ENGINEER IN A SUBMITTAL FOR REVIEW AS OUTLINED IN THE SPECIFICATIONS. EACH INDIVIDUAL CABLE SHALL BE TESTED AND THE CERTIFICAION REPORT SHALL INCLUDE THE CORRESPONDING CABLE IDENTIFICATION NUMBER. THERE IS POTENTIAL FOR MULTIPLE PROJECTS IN THIS FACILITY TO BE RUNNING IN PARALLEL AND IT IS CRITICAL FOR CABLING TO BE TESTED AND CERTIFIED AND PROPERLY DOCUMENTED. CONTRACTOR SHALL INCLUDE ON AS-BUILT DOCUMENTATION THE CABLE IDENTIFICATION NUMBER.

FIBER



ALTERNATIVE NAMING CONVENTIONS MAYBE ACCEPTABLE. SUBMIT IN RFI.
WIRING SHALL BE SOLID COPPER, 24 GAUGE, FOUR UNSHIELDED TWISTED PAIR(UTP), EIA/TIA 568-A CATEGORY 6 CABLE. SEE SPECIFICATIONS FOR COLOR CODING. SPLICING OF WIRING IS NOT PERMITTED. REFER TO SPECIFICATIONS FOR INSTALLATION TECHNIQUES. LABELING SHALL BE 1/4" HIGH, MINIMUM.

2 VOICE AND DATA WIRING IDENTIFICATION
NOT TO SCALE



GENERAL NOTES:

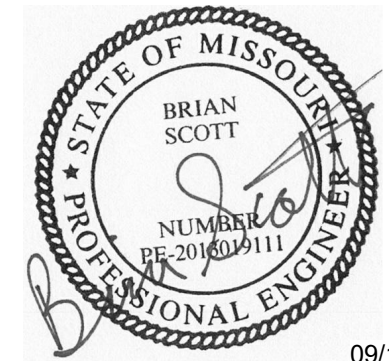
1. BASED ON MASON INDUSTRIES INC. TYPE "PB" NEOPRENE BUSHING.

1 CONCRETE WALL MOUNTED EQUIPMENT SEISMIC ANCHOR
NOT TO SCALE

SSC JOB# 2024206 - BID DOCUMENTS 09/17/2025



18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770 Fax: 636.530.7877
Missouri Certificate of Authority #NC 001244



THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND
CONSTRUCTION
DEPARTMENT OF
VETERANS AFFAIRS

WI-FI DEPLOYMENT PLAN

10600 Lewis and Clark Blvd
ST. LOUIS MO 63136 6005

PROJECT # U2411-01
SITE # 6804
FACILITY # 8136804001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 09/17/2025

CAD DWG FILE: _____
DRAWN BY: ZHB
CHECKED BY: HAP
DESIGNED BY: BDS

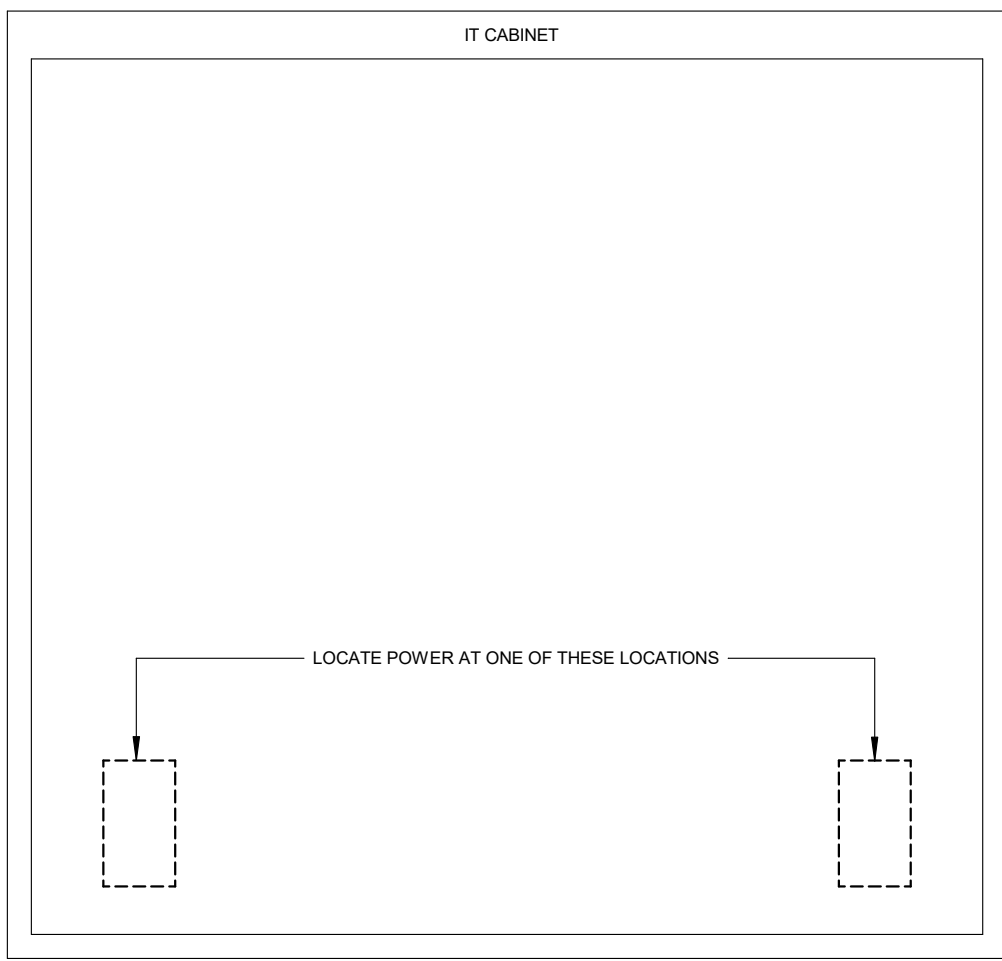
SHEET TITLE:
ELECTRICAL DETAILS

SHEET NUMBER:

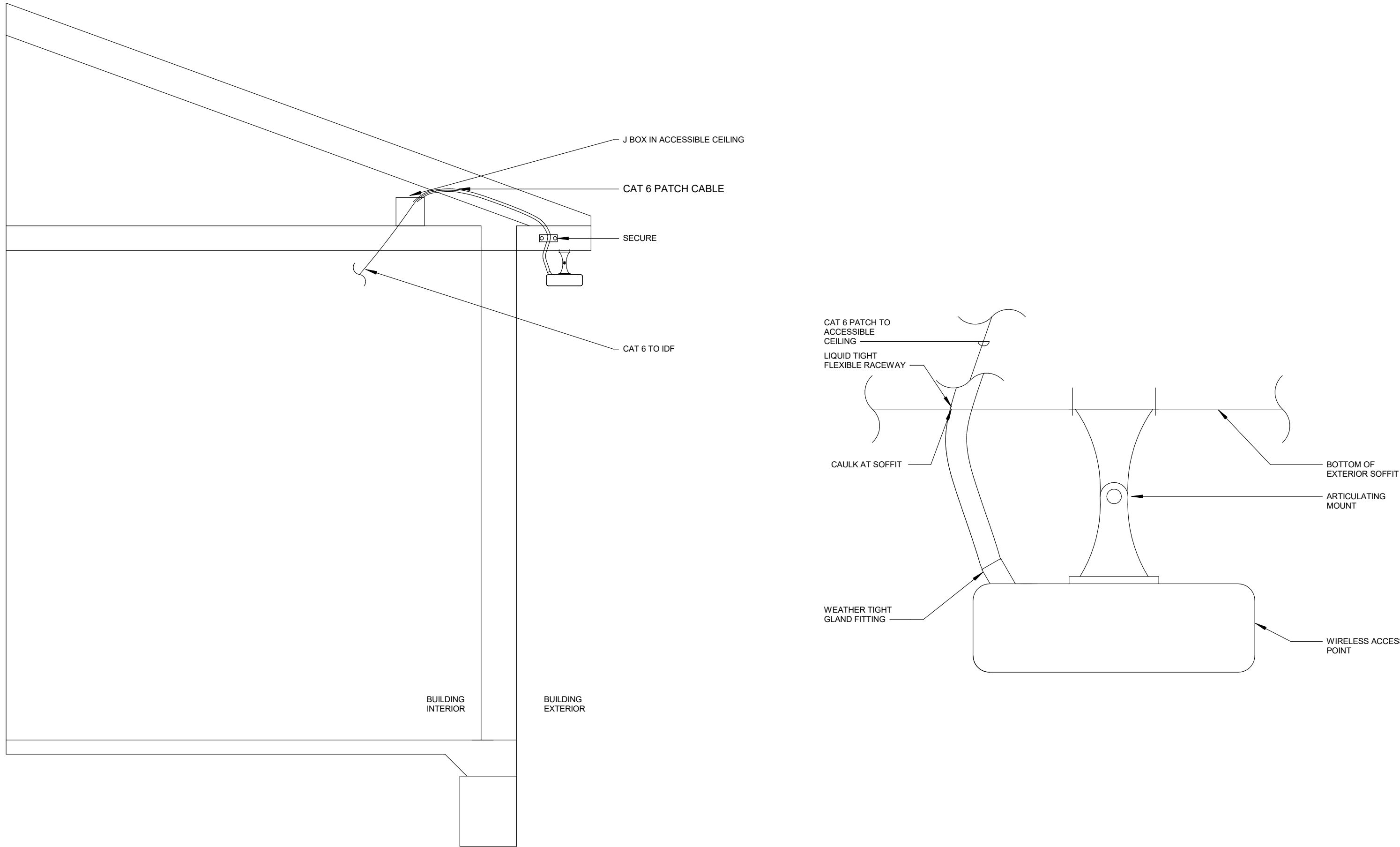
E0.4

SHEET 5 OUT OF 12
09/17/2025

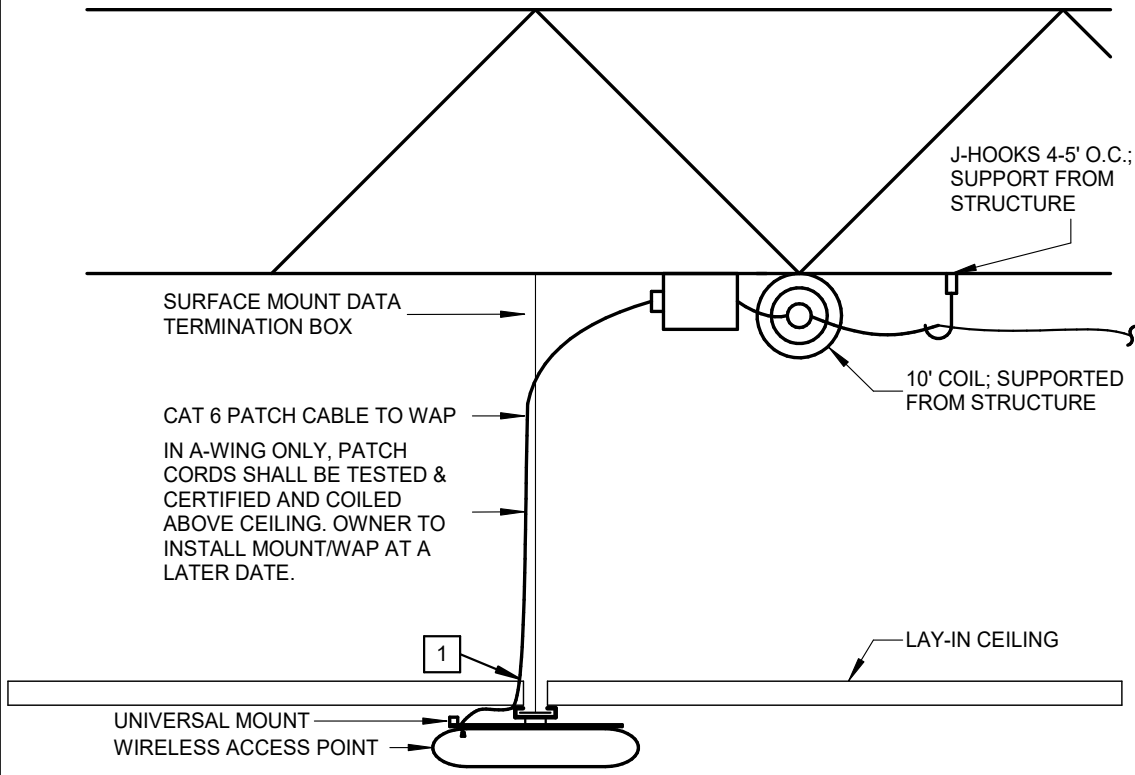
SSC JOB# 2024206 - BID DOCUMENTS 09/17/2025



15 NEW WALL MOUNT IT RACK
NOT TO SCALE

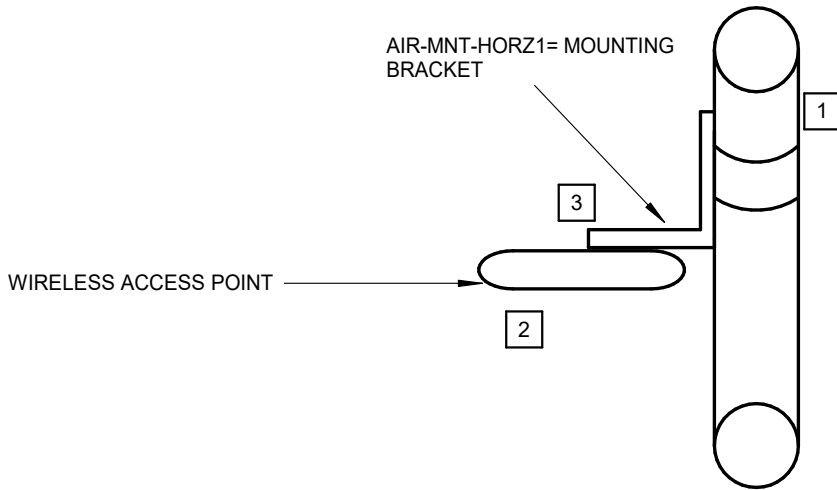


11 ARTICULATING MOUNT TYPE 'D'
NOT TO SCALE



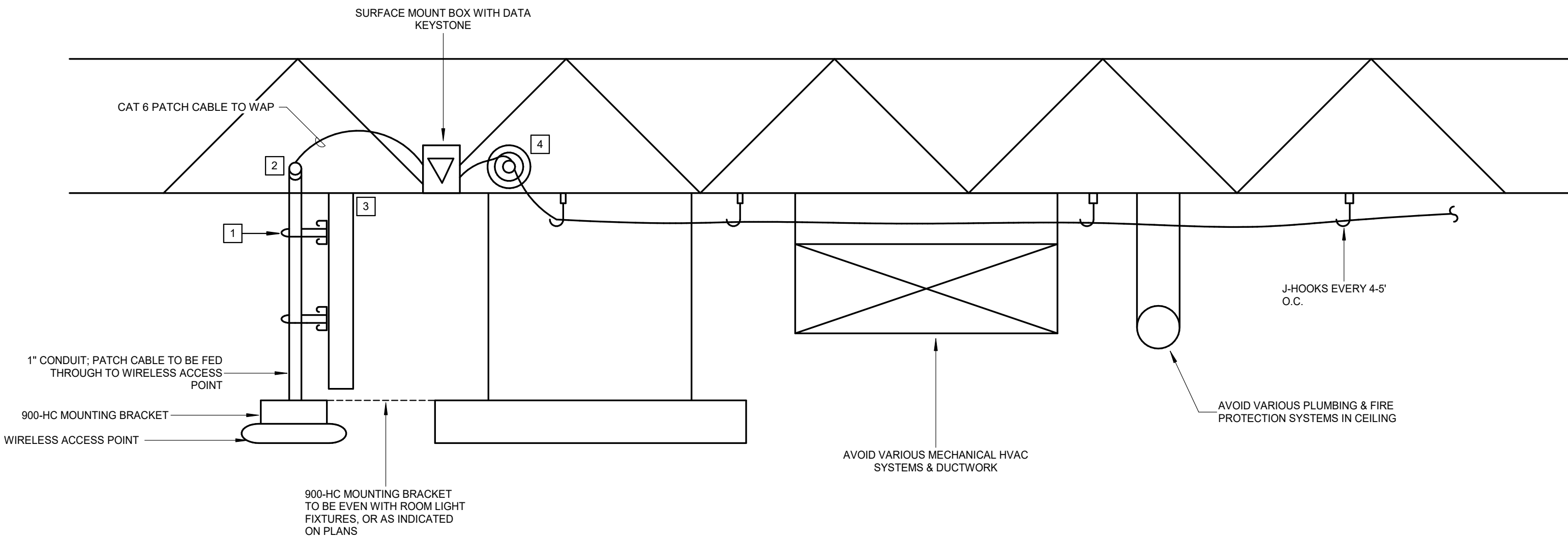
1 NOTCH CEILING TILE ONLY AS REQUIRED TO AVOID PINCHING

14 UNIVERSAL MOUNT (TYPE 'A')
NOT TO SCALE



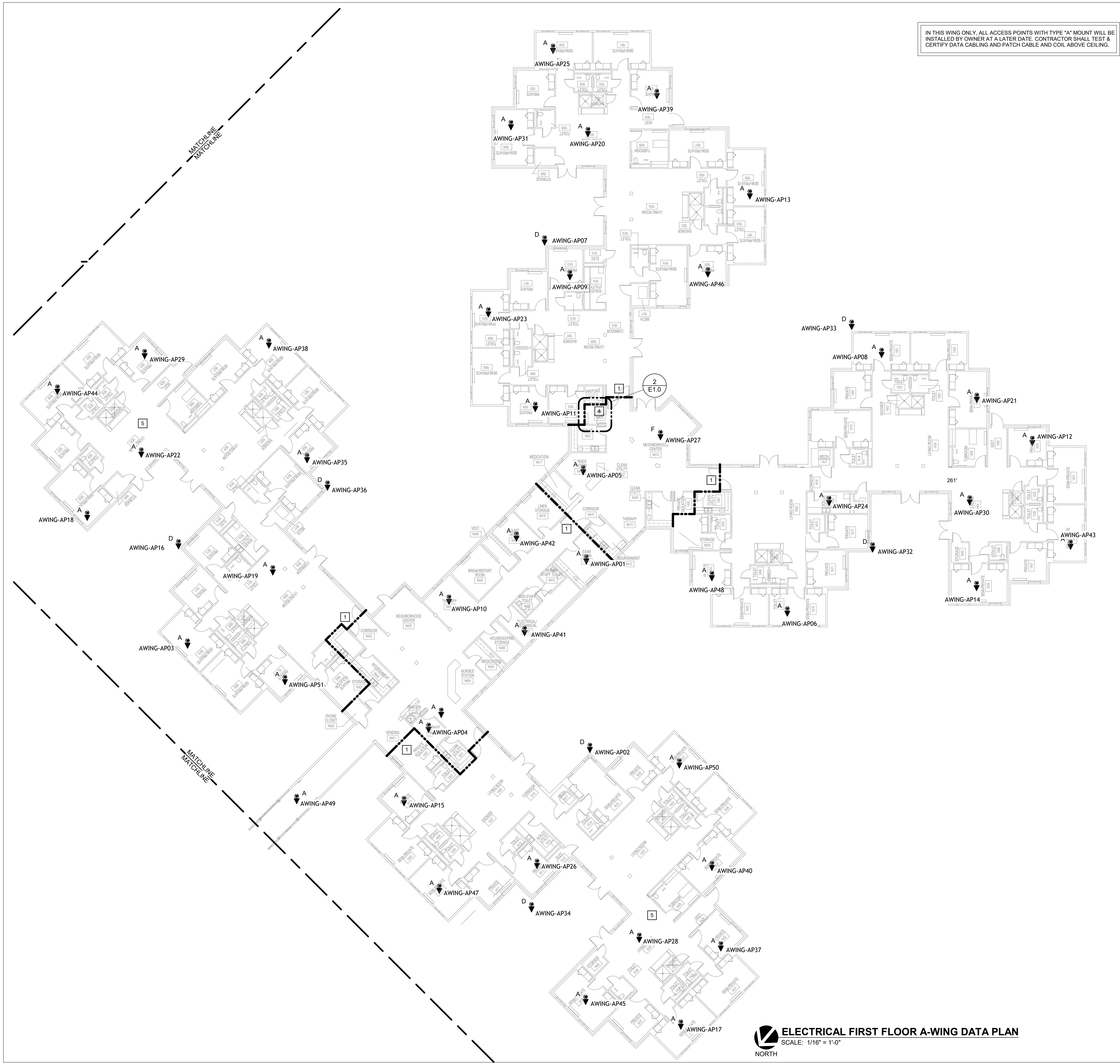
- 1 CONTRACTOR TO PROVIDE 2-5" DIAMETER POLE OR MAST
- 2 ACCESS POINT MUST POINT STRAIGHT DOWN TOWARDS THE GROUND
- 3 GLAND ASSEMBLY REQUIRED TO WATERPROOF CAT6 CABLING.

13 AIR-MNT-HORZ1= WAP MOUNTING
NOT TO SCALE



- 1 FASTEN CONDUIT EVERY 4', PROVIDE ADDITIONAL UNISTRUT SUPPORT
- 2 PROVIDE INSULATED BUSHING
- 3 UNISTRUT SUPPORT FASTENED TO JOIST OR BEAM
- 4 10' SERVICE LOOP TO BE FED TO SURFACE MOUNT BOX WITH DATA KEYSTONE

9 900-HC WAP MOUNTING
NOT TO SCALE



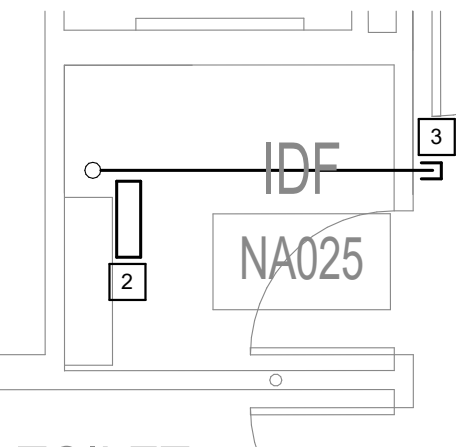
ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250.122. SEE SPECIFICATIONS.
3. INFORMATION ON THIS SHEET IS COMPILED FROM EXISTING DRAWINGS AND CASUAL FIELD OBSERVATIONS AND SHALL BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF ALL EQUIPMENT AND DEVICES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. ALL WIRELESS ACCESS POINTS SHALL BE PROVIDED WITH ONE (1) CAT 6 CABLE. PROVIDE WITH 10' OF COILED CABLE ABOVE CEILING FOR FUTURE FLEXIBILITY. ALL CABLING SHALL BE PLENUM RATED. TERMINATE THE CAT 6 IN A SURFACE MOUNT BOX AT THE ACCESS POINT. PROVIDE A CAT 6 PATCH CABLE AND PATCH TO WAP.
5. WHERE WORK IS PERFORMED AT EXISTING IT RACKS AND CABINETS, EC SHALL COORDINATE WITH OWNERS IT REPRESENTATIVE PRIOR TO WORK. EC SHALL PROTECT ALL EXISTING CABLING, NETWORK SWITCHES, PATCH PANELS, ETC FROM DAMAGE. WHERE NEW WORK CREATES DUST AND DEBRIS, PROVIDE PROTECTION OF COMPONENTS.
6. INSTALL ALL WIRELESS ACCESS POINTS WITHIN 3' OF THE LOCATIONS DEPICTED. OWNER WILL LABEL EACH ACCESS POINT, AND EC SHALL ENSURE IT IS INSTALLED AT THE CORRECT LOCATION. ALL ACCESS POINTS SHALL BE INSTALLED BELOW THE DROP CEILING GRID FACING THE CUSTOMER, OR AS OTHERWISE INDICATED AND DETAILED.
7. CONTRACTOR SHALL MAINTAIN FIRE, SMOKE AND STC RATINGS OF ALL PARTITIONS AND WALLS. MAJOR FIRE WALLS ARE SHOWN ON PLANS FOR GENERAL GUIDANCE, HOWEVER, IT IS NOTED THAT ALL RESIDENT UNITS HAVE SMOKE RATINGS AND ANY PENETRATIONS SHALL BE FIRE CAULKED TO MAINTAIN SPECIFIC RATING. IF ANY FIRE WALLS ARE PENETRATED AND ARE NOT SHOWN ON THE PLANS AS FIRE RATED, CONTRACTOR IS EXPECTED TO FIRE CAULK AND MARK UP CHANGES TO AS-BUILT DOCUMENTATION.
8. ALL DATA CABLING SHALL BE ROUTED IN CORRIDORS TO THE GREATEST EXTENT POSSIBLE. CABLING FEEDING ACCESS POINTS IN RESIDENT UNITS SHALL NOT BE ROUTED THROUGH ADJACENT RESIDENT UNITS. UNLESS SPECIFICALLY NOTED AND REQUIRED, DO NOT ROUTE CABLING THROUGH CLEAN UTILITY ROOMS, SOILED UTILITY ROOMS, ELEVATOR MACHINE ROOMS, EGRESS STAIRWELLS, ETC.
9. ALL RESIDENT UNIT WALLS ARE SMOKE RATED PARTITIONS. PROVIDE FIRE CAULKING TO SEAL ALL PENETRATIONS IN RESIDENT UNIT WALLS. (ROOMS LABELED AS "PRIVATE" AND SEMI PRIVATE".)

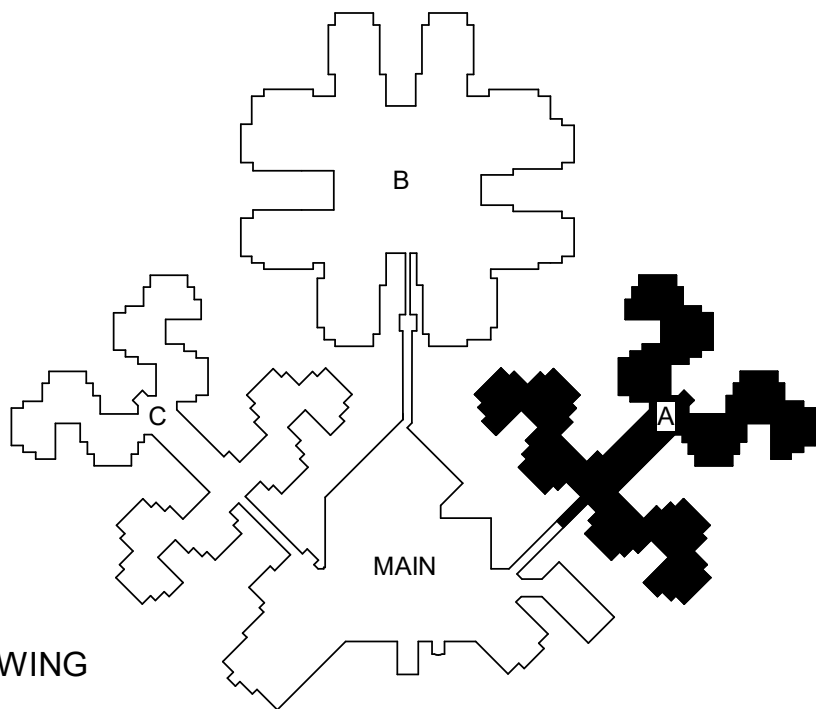
KEYED NOTES:

1. EXISTING FIRE WALL. PROVIDE FIRE SEALANT/CAULK AT PENETRATIONS.
2. PROVIDE (2) 48 PORT RACK MOUNT PATCH PANELS BELOW THE EXISTING PATCH PANELS. PROVIDE CAT 6 CABLING TO EVERY ACCESS POINT IN THE A-WING FROM THESE NEW PATCH PANELS. AT EVERY ACCESS POINT, PROVIDE 10' SERVICE LOOP AND TERMINATE AT A SURFACE MOUNT BOX ABOVE CEILING. CONNECT A 4" CAT 6 PATCH CABLE FROM THE SURFACE MOUNT PATCH PANEL TO THE ACCESS POINT. LABEL ALL CAT6 CABLING AT BOTH ENDS WITH THE AP NAME. PROVIDE A 8" CAT 6 PATCH CABLE AT THE NEW PATCH PANELS, BUT DO NOT CONNECT CAT 6 PATCH CABLES TO THE SWITCHES. PROVIDE RACK MOUNTED, 1RU 12 PORT FIBER PATCH PANEL IN THE TOP OF THE RACK. PROVIDE 12 STRANDS OF ARMOR JACKETED MULTIMODE FIBER TO FIBER PATCH PANEL IN THE MAIN DATA ROOM 141. TERMINATE WITH LC CONNECTORS. IN MAIN DATA RACK, TERMINATE AT FIBER PATCH PANEL OUTLINED ON SHEET E1.3. AT NEW RACK, PROVIDE FIBER PATCH CABLE LONG ENOUGH TO REACH NEW NETWORK SWITCH FURNISHED BY OWNER'S IT DEPARTMENT. DO NOT CONNECT TO SWITCH, OWNER TO MAKE ALL FINAL CONNECTIONS.
3. PROVIDE ONE (1) - 4" EMT CONDUIT, STUB FROM 12" ABOVE IT RACK VERTICALLY ABOVE GYP CEILING AND CONTINUE HORIZONTALLY AS SHOWN. APPLY FIRE CAULK AND FIRE PUTTY AT BOTH ENDS. PAINT CONDUITS TO MATCH EXISTING WALL FINISH.
4. REFER TO ENLARGED PLAN ON THIS SHEET.
5. DATA CABLING IN THIS AREA IS NEARING THE LIMIT OF 330 FEET WITH ANTICIPATED LENGTHS OF ABOUT 290-305 LINEAR FEET. DURING INSTALLATION, ENSURE THE TOTAL LENGTH OF DATA CABLING DOES NOT EXCEED 315 FEET INCLUDING ALL SERVICE LOOPS. 15 FEET OF CABLE LENGTH SHALL BE RESERVED FOR PATCH CABLES. IF NECESSARY TO MAINTAIN COMPLIANCE, EC MAY SUBMIT RFI TO REDUCE SERVICE LOOP LENGTH IN THESE LOCATIONS.

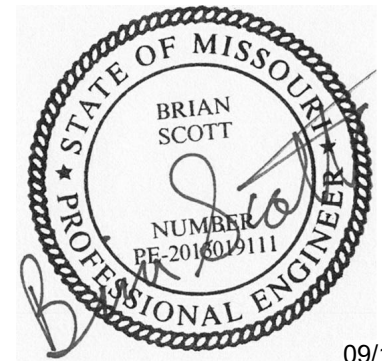
2 ENLARGED RM NA025 IDF DATA PLAN
NOT TO SCALE



KEYPLAN - A-WING



Engineering, Inc.
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770 Fax: 636.530.7877
Missouri Certificate of Authority #NC 001244



BRIAN SCOTT
MO LIC# PE-2013019111 EXP. 12/31/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

**OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND
CONSTRUCTION
DEPARTMENT OF
VETERANS AFFAIRS**

WI-FI DEPLOYMENT PLAN

10600 Lewis and Clark Blvd
ST. LOUIS MO 63136 6005

PROJECT # U2411-01
SITE # 6804
FACILITY # 8136804001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 09/17/2025

CAD DWG FILE: _____
DRAWN BY: ZHB
CHECKED BY: HAP
DESIGNED BY: BDS

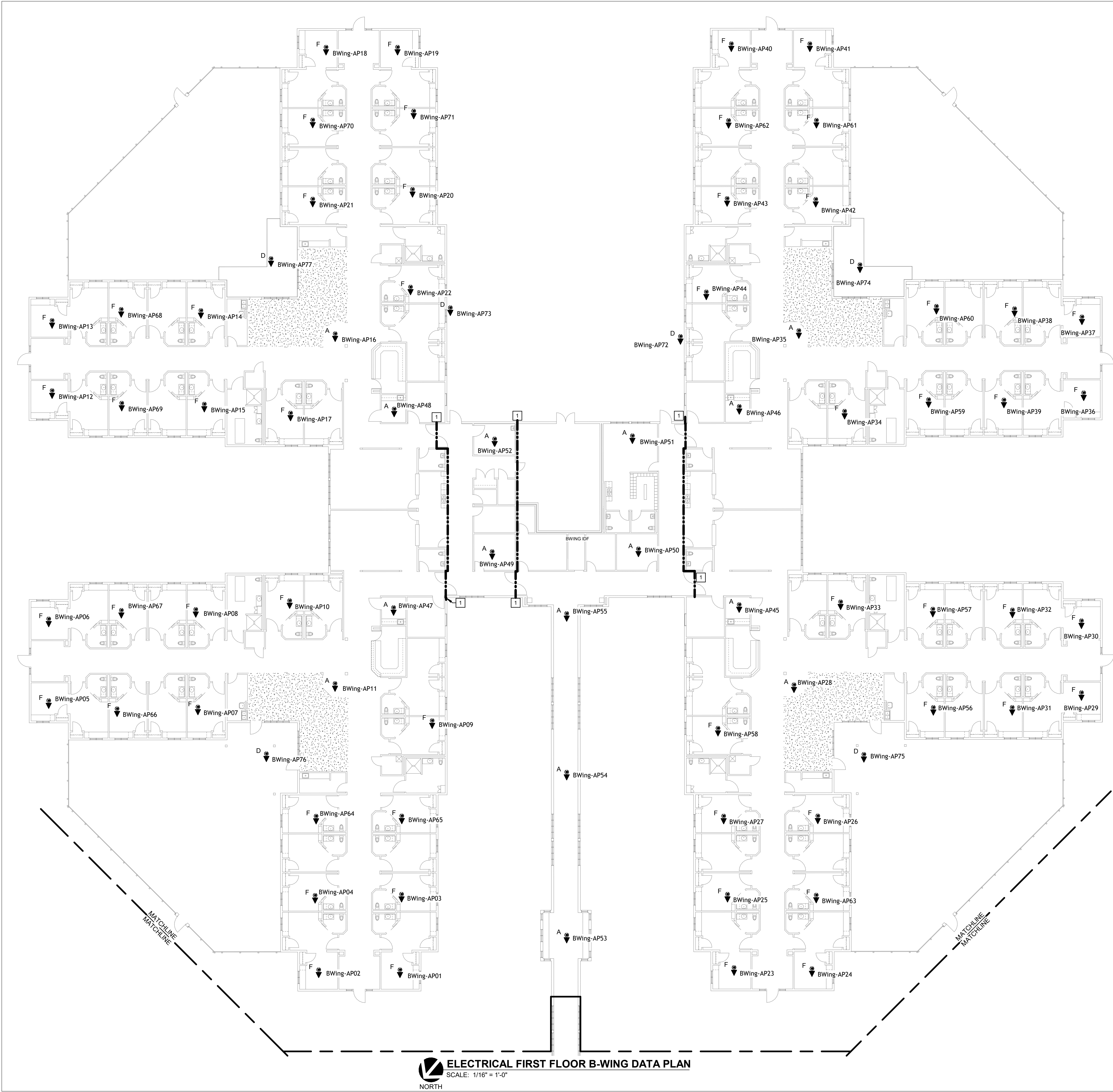
**SHEET TITLE:
ELECTRICAL A-WING
DATA PLAN**

SHEET NUMBER:

E1.0

SHEET 6 OUT OF 12
09/17/2025

SSC JOB# 2024206 - BID DOCUMENTS 09/17/2025



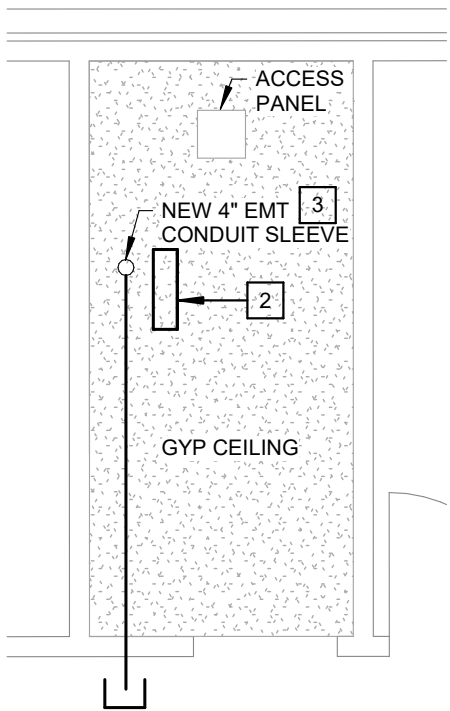
ELECTRICAL FIRST FLOOR B-WING DATA PLAN
SCALE: 1/16" = 1'-0"
NORTH

ELECTRICAL GENERAL NOTES:

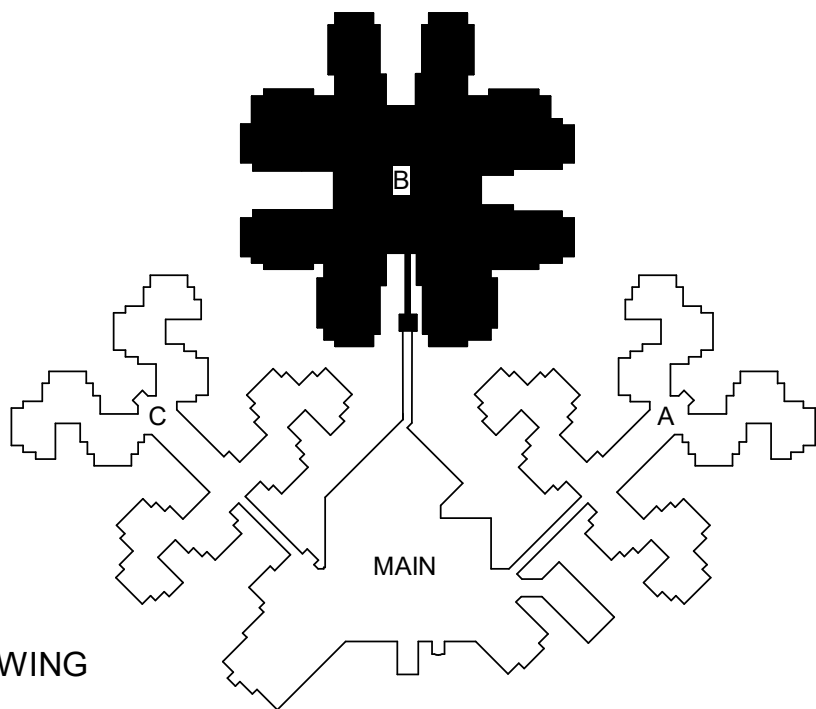
1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250.122, SEE SPECIFICATIONS.
3. INFORMATION ON THIS SHEET IS COMPILED FROM EXISTING DRAWINGS AND CASUAL FIELD OBSERVATIONS AND SHALL BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF ALL EQUIPMENT AND DEVICES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. ALL WIRELESS ACCESS POINTS SHALL BE PROVIDED WITH ONE (1) CAT 6 CABLE. PROVIDE WITH 10' OF COILED CABLE ABOVE CEILING FOR FUTURE FLEXIBILITY. ALL CABLING SHALL BE PLENUM RATED. TERMINATE THE CAT 6 IN A SURFACE MOUNT BOX AT THE ACCESS POINT. PROVIDE A CAT 6 PATCH CABLE AND PATCH TO WAP.
5. WHERE WORK IS PERFORMED AT EXISTING IT RACKS AND CABINETS, EC SHALL COORDINATE WITH OWNERS IT REPRESENTATIVE PRIOR TO WORK. EC SHALL PROTECT ALL EXISTING CABLING, NETWORK SWITCHES, PATCH PANELS, ETC FROM DAMAGE. WHERE NEW WORK CREATES DUST AND DEBRIS, PROVIDE PROTECTION OF COMPONENTS.
6. INSTALL ALL WIRELESS ACCESS POINTS WITHIN 3' OF THE LOCATIONS DEPICTED. OWNER WILL LABEL EACH ACCESS POINT, AND EC SHALL ENSURE IT IS INSTALLED AT THE CORRECT LOCATION. ALL ACCESS POINTS SHALL BE INSTALLED BELOW THE DROP CEILING GRID FACING THE CUSTOMER, OR AS OTHERWISE INDICATED AND DETAILED.
7. CONTRACTOR SHALL MAINTAIN FIRE, SMOKE AND STC RATINGS OF ALL PARTITIONS AND WALLS. MAJOR FIRE WALLS ARE SHOWN ON PLANS FOR GENERAL GUIDANCE. HOWEVER, IT IS NOTED THAT ALL RESIDENT UNITS HAVE SMOKE RATINGS AND ANY PENETRATIONS SHALL BE FIRE CAULKED TO MAINTAIN SPECIFIC RATING. IF ANY FIRE WALLS ARE PENETRATED AND ARE NOT SHOWN ON THE PLANS AS FIRE RATED, CONTRACTOR IS EXPECTED TO FIRE CAULK AND MARK UP CHANGES TO AS-BUILT DOCUMENTATION.
8. ALL DATA CABLING SHALL BE ROUTED IN CORRIDORS TO THE GREATEST EXTENT POSSIBLE. CABLING FEEDING ACCESS POINTS IN RESIDENT UNITS SHALL NOT BE ROUTED THROUGH ADJACENT RESIDENT UNITS. UNLESS SPECIFICALLY NOTED AND REQUIRED, DO NOT ROUTE CABLING THROUGH CLEAN UTILITY ROOMS, SOILED UTILITY ROOMS, ELEVATOR MACHINE ROOMS, EGRESS STAIRWELLS, ETC.
9. ALL RESIDENT UNIT WALLS ARE SMOKE RATED PARTITIONS. PROVIDE FIRE CAULKING TO SEAL ALL PENETRATIONS IN RESIDENT UNIT WALLS. (ROOMS LABELED AS "PRIVATE" AND SEMI PRIVATE")

KEYED NOTES:

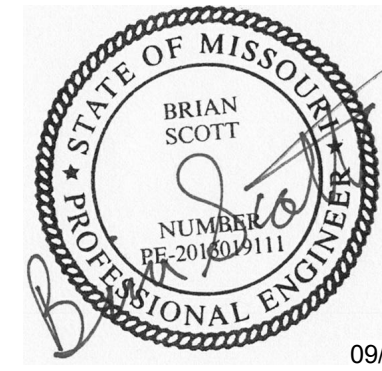
1. EXISTING FIRE WALL. PROVIDE FIRE SEALANT/CAULK AT PENETRATIONS.
2. IN THE 8 WING IDF, RM B143, PROVIDE TWO (2) 48 PORT HIGH DENSITY MODULAR 19 INCH RACK MOUNT PATCH PANELS IN THE EXISTING 2-POST RACK. INSTALL THE NEW PATCH PANELS BELOW THE EXISTING PATCH PANELS. PROVIDE CAT 6 CABLE TO EVERY ACCESS POINT IN THE B WING FROM THESE NEW PATCH PANELS. AT EVERY ACCESS POINT, PROVIDE 10' SERVICE LOOP AND TERMINATE AT A SURFACE MOUNT BOX ABOVE CEILING. CONNECT A 4' CAT 6 PATCH CABLE FROM THE SURFACE MOUNT PATCH PANEL TO THE ACCESS POINT. LABEL ALL CAT6 CABLING AT BOTH ENDS WITH THE AP NAME. PROVIDE A 6' CAT 6 PATCH CABLE AT THE NEW PATCH PANELS, BUT DO NOT CONNECT CAT 6 PATCH CABLES TO THE SWITCHES.
3. PROVIDE ONE (1) 4" CONDUIT FROM ABOVE IT RACK. STUB FROM 12" ABOVE IT RACK VERTICALLY ABOVE GYP CEILING AND CONTINUE HORIZONTALLY AS SHOWN. APPLY FIRE CAULK AND FIRE PUTTY AT BOTH ENDS. PAINT CONDUITS TO MATCH EXISTING WALL FINISH.



2 ENLARGED B-WING IDF DATA PLAN
NOT TO SCALE



KEYPLAN - B-WING



THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND
CONSTRUCTION
DEPARTMENT OF
VETERANS AFFAIRS

WI-FI DEPLOYMENT PLAN

10600 Lewis and Clark Blvd
ST. LOUIS MO 63136 6005

PROJECT # U2411-01
SITE # 6804
FACILITY # 8136804001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 09/17/2025

CAD DWG FILE: _____
DRAWN BY: ZHB
CHECKED BY: HAP
DESIGNED BY: BDS

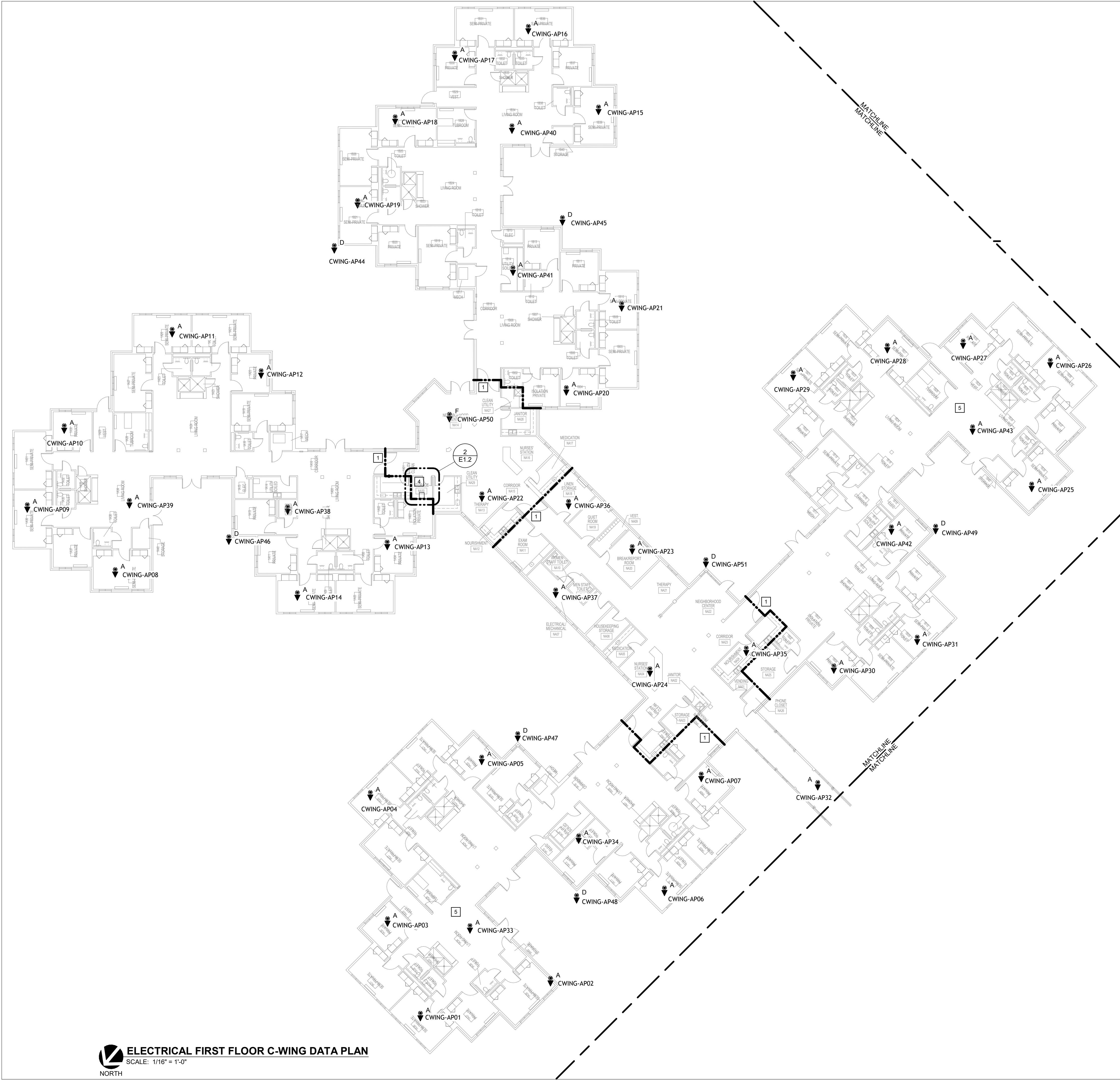
SHEET TITLE:
**ELECTRICAL B-WING
DATA PLAN**

SHEET NUMBER:

E1.1

SHEET 7 OUT OF 12
09/17/2025

SSC JOB# 2024206 - BID DOCUMENTS 09/17/2025

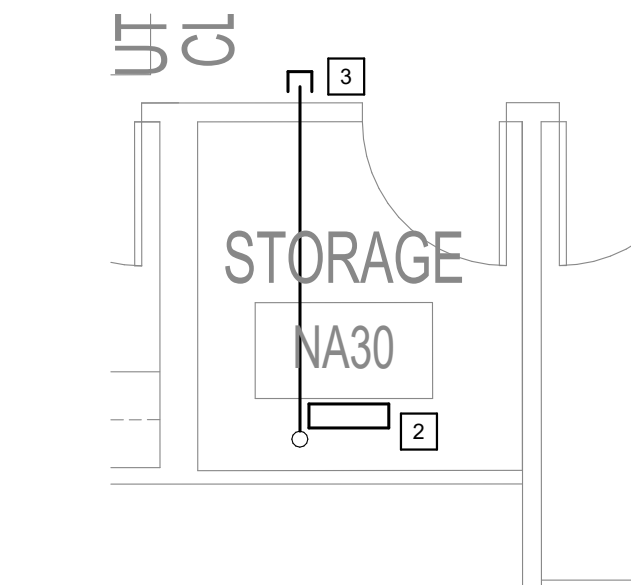


ELECTRICAL GENERAL NOTES:

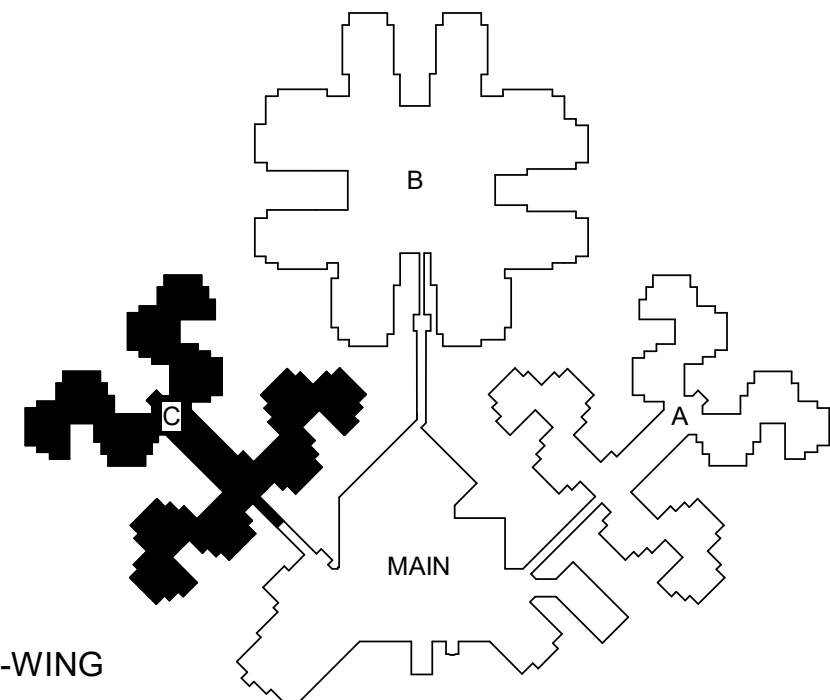
1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250.122, SEE SPECIFICATIONS.
3. INFORMATION ON THIS SHEET IS COMPILED FROM EXISTING DRAWINGS AND CASUAL FIELD OBSERVATIONS AND SHALL BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF ALL EQUIPMENT AND DEVICES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. ALL WIRELESS ACCESS POINTS SHALL BE PROVIDED WITH ONE (1) CAT 6 CABLE. PROVIDE WITH 10' OF COILED CABLE ABOVE CEILING FOR FUTURE FLEXIBILITY. ALL CABLING SHALL BE PLENUM RATED. TERMINATE THE CAT 6 IN A SURFACE MOUNT BOX AT THE ACCESS POINT. PROVIDE A CAT 6 PATCH CABLE AND PATCH TO WAP.
5. WHERE WORK IS PERFORMED AT EXISTING IT RACKS AND CABINETS, EC SHALL COORDINATE WITH OWNERS IT REPRESENTATIVE PRIOR TO WORK. EC SHALL PROTECT ALL EXISTING CABLING, NETWORK SWITCHES, PATCH PANELS, ETC FROM DAMAGE. WHERE NEW WORK CREATES DUST AND DEBRIS, PROVIDE PROTECTION OF COMPONENTS.
6. INSTALL ALL WIRELESS ACCESS POINTS WITHIN 3' OF THE LOCATIONS DEPICTED. OWNER WILL LABEL EACH ACCESS POINT, AND EC SHALL ENSURE IT IS INSTALLED AT THE CORRECT LOCATION. ALL ACCESS POINTS SHALL BE INSTALLED BELOW THE DROP CEILING GRID FACING THE CUSTOMER, OR AS OTHERWISE INDICATED AND DETAILED.
7. CONTRACTOR SHALL MAINTAIN FIRE, SMOKE AND STC RATINGS OF ALL PARTITIONS AND WALLS. MAJOR FIRE WALLS ARE SHOWN ON PLANS FOR GENERAL GUIDANCE, HOWEVER, IT IS NOTED THAT ALL RESIDENT UNITS HAVE SMOKE RATINGS AND ANY PENETRATIONS SHALL BE FIRE CAULKED TO MAINTAIN SPECIFIC RATING. IF ANY FIRE WALLS ARE PENETRATED AND ARE NOT SHOWN ON THE PLANS AS FIRE RATED, CONTRACTOR IS EXPECTED TO FIRE CAULK AND MARK UP CHANGES TO AS-BUILT DOCUMENTATION.
8. ALL DATA CABLING SHALL BE ROUTED IN CORRIDORS TO THE GREATEST EXTENT POSSIBLE. CABLING FEEDING ACCESS POINTS IN RESIDENT UNITS SHALL NOT BE ROUTED THROUGH ADJACENT RESIDENT UNITS. UNLESS SPECIFICALLY NOTED AND REQUIRED, DO NOT ROUTE CABLING THROUGH CLEAN UTILITY ROOMS, SOILED UTILITY ROOMS, ELEVATOR MACHINE ROOMS, EGRESS STAIRWELLS, ETC.
9. ALL RESIDENT UNIT WALLS ARE SMOKE RATED PARTITIONS. PROVIDE FIRE CAULKING TO SEAL ALL PENETRATIONS IN RESIDENT UNIT WALLS. (ROOMS LABELED AS "PRIVATE" AND SEMI PRIVATE.)

KEYED NOTES:

- 1 EXISTING FIRE WALL. PROVIDE FIRE SEALANT/CAULK AT PENETRATIONS.
- 2 PROVIDE (2) 48 PORT RACK MOUNT PATCH PANELS BELOW THE EXISTING PATCH PANELS. PROVIDE CAT 6 CABLING TO EVERY ACCESS POINT IN THE C-WING FROM THESE NEW PATCH PANELS. AT EVERY ACCESS POINT, PROVIDE 10' SERVICE LOOP AND TERMINATE AT A SURFACE MOUNT BOX ABOVE CEILING. CONNECT A 4' CAT 6 PATCH CABLE FROM THE SURFACE MOUNT PATCH PANEL TO THE ACCESS POINT. LABEL ALL CAT6 CABLING AT BOTH ENDS WITH THE AP NAME. PROVIDE A 6' CAT 6 PATCH CABLE AT THE NEW PATCH PANELS, BUT DO NOT CONNECT CAT 6 PATCH CABLES TO THE SWITCHES. PROVIDE RACK MOUNTED, 1RU 12 PORT FIBER PATCH PANEL IN THE TOP OF THE RACK. PROVIDE 12 STRANDS OF ARMOR JACKETED MULTIMODE FIBER TO FIBER PATCH PANEL IN THE MAIN DATA ROOM 141. TERMINATE WITH LC CONNECTORS. IN MAIN DATA RACK, TERMINATE AT FIBER PATCH PANEL OUTLINED ON SHEET E1.3. AT RACK, PROVIDE FIBER PATCH CABLE LONG ENOUGH TO REACH NEW NETWORK SWITCH FURNISHED BY OWNERS IT DEPARTMENT. DO NOT CONNECT TO SWITCH, OWNER TO MAKE ALL FINAL CONNECTIONS.
- 3 PROVIDE ONE (1) 1"-4" EMT CONDUITS, STUB FROM 12" ABOVE IT RACK VERTICALLY ABOVE GYP CEILING AND CONTINUE HORIZONTALLY AS SHOWN. APPLY FIRE CAULK AND FIRE PUTTY AT BOTH ENDS. PAINT CONDUITS TO MATCH EXISTING WALL FINISH.
- 4 REFER TO ENLARGED PLAN ON THIS SHEET.
- 5 DATA CABLING IN THIS AREA IS NEARING THE LIMIT OF 330 FEET WITH ANTICIPATED LENGTHS OF ABOUT 290-305 LINEAR FEET. DURING INSTALLATION, ENSURE THE TOTAL LENGTH OF DATA CABLING DOES NOT EXCEED 315 FEET INCLUDING ALL SERVICE LOOPS. 15 FEET OF CABLE LENGTH SHALL BE RESERVED FOR PATCH CABLES. IF NECESSARY TO MAINTAIN COMPLIANCE, EC MAY SUBMIT RFI TO REDUCE SERVICE LOOP LENGTH IN THESE LOCATIONS.

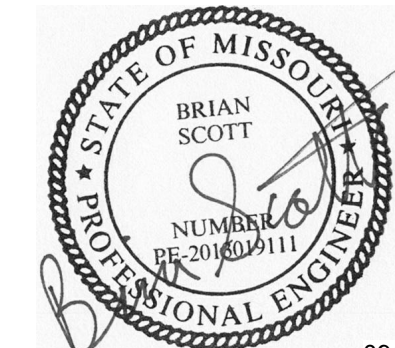


2 ENLARGED NA26 IDF DATA PLAN
NOT TO SCALE



KEYPLAN - C-WING

STATE OF MISSOURI MIKE KEHOE GOVERNOR



09/17/2025
BRIAN SCOTT
MO LIC# PE-2013010111 EXP. 12/31/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION DEPARTMENT OF VETERANS AFFAIRS

WI-FI DEPLOYMENT PLAN

10600 Lewis and Clark Blvd
ST. LOUIS MO 63136 6005

PROJECT # U2411-01
SITE # 6804
FACILITY # 8136804001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 09/17/2025

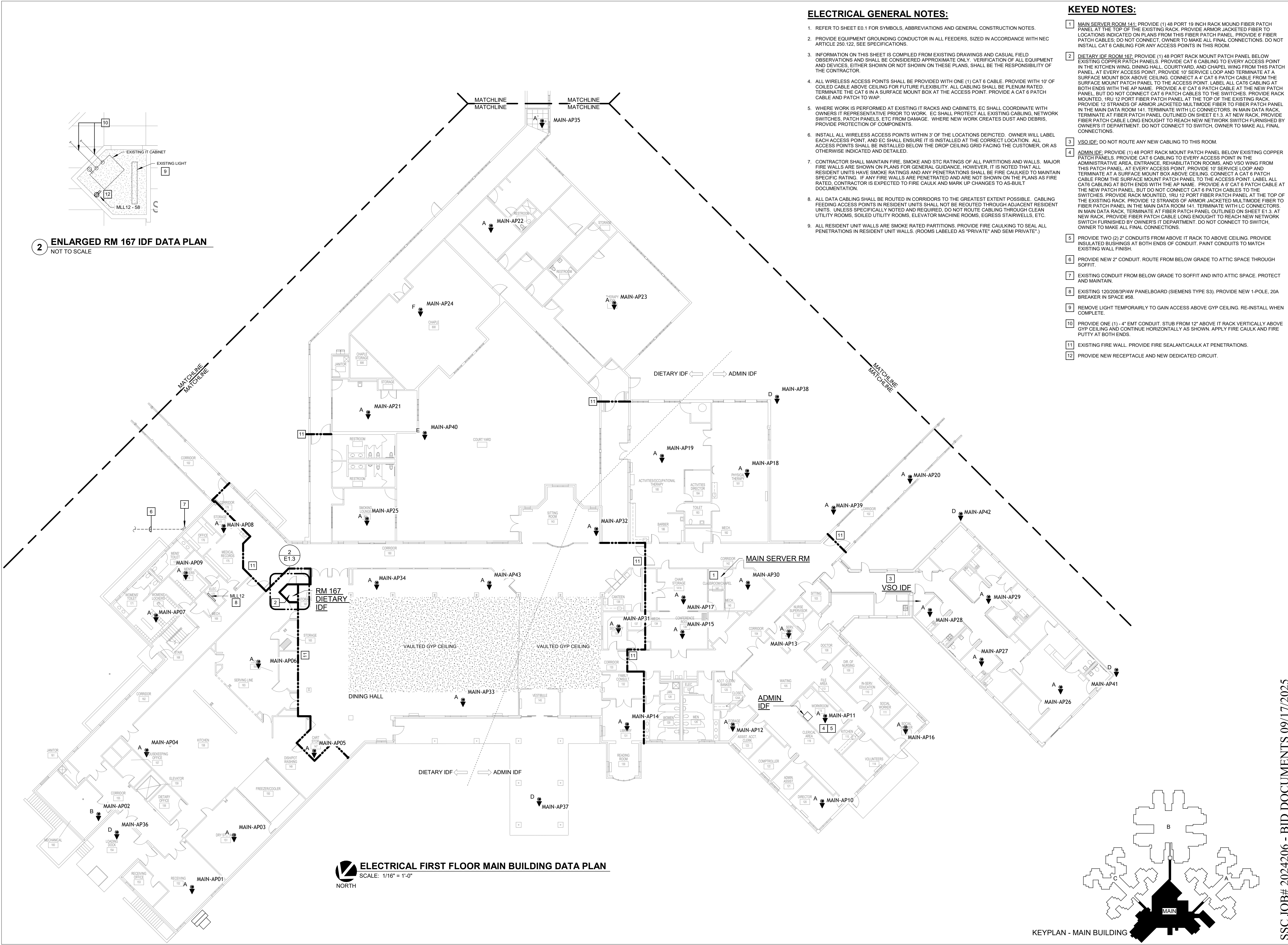
CAD DWG FILE: _____
DRAWN BY: ZHB
CHECKED BY: HAP
DESIGNED BY: BDS

SHEET TITLE: ELECTRICAL C-WING DATA PLAN

SHEET NUMBER:

E1.2

SHEET 8 OUT OF 12
09/17/2025



ELECTRICAL GENERAL NOTES:

- REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
- PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250.122, SEE SPECIFICATIONS.
- INFORMATION ON THIS SHEET IS COMPILED FROM EXISTING DRAWINGS AND CASUAL FIELD OBSERVATIONS AND SHALL BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF ALL EQUIPMENT AND DEVICES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL WIRELESS ACCESS POINTS SHALL BE PROVIDED WITH ONE (1) CAT 6 CABLE. PROVIDE WITH 10' OF COILED CABLE ABOVE CEILING FOR FUTURE FLEXIBILITY. ALL CABLING SHALL BE PLENUM RATED. TERMINATE THE CAT 6 IN A SURFACE MOUNT BOX AT THE ACCESS POINT. PROVIDE A CAT 6 PATCH CABLE AND PATCH TO WAP.
- WHERE WORK IS PERFORMED AT EXISTING IT RACKS AND CABINETS, EC SHALL COORDINATE WITH OWNERS IT REPRESENTATIVE PRIOR TO WORK. EC SHALL PROTECT ALL EXISTING CABLING, NETWORK SWITCHES, PATCH PANELS, ETC FROM DAMAGE. WHERE NEW WORK CREATES DUST AND DEBRIS, PROVIDE PROTECTION OF COMPONENTS.
- INSTALL ALL WIRELESS ACCESS POINTS WITHIN 3' OF THE LOCATIONS DEPICTED. OWNER WILL LABEL EACH ACCESS POINT, AND EC SHALL ENSURE IT IS INSTALLED AT THE CORRECT LOCATION. ALL ACCESS POINTS SHALL BE INSTALLED BELOW THE DROP CEILING GRID FACING THE CUSTOMER, OR AS OTHERWISE INDICATED AND DETAILED.
- CONTRACTOR SHALL MAINTAIN FIRE, SMOKE AND STC RATINGS OF ALL PARTITIONS AND WALLS. MAJOR FIRE WALLS ARE SHOWN ON PLANS FOR GENERAL GUIDANCE, HOWEVER, IT IS NOTED THAT ALL RESIDENT UNITS HAVE SMOKE RATINGS AND ANY PENETRATIONS SHALL BE FIRE CAULKED TO MAINTAIN SPECIFIC RATING. IF ANY FIRE WALLS ARE PENETRATED AND ARE NOT SHOWN ON THE PLANS AS FIRE RATED, CONTRACTOR IS EXPECTED TO FIRE CAULK AND MARK UP CHANGES TO AS-BUILT DOCUMENTATION.
- ALL DATA CABLING SHALL BE ROUTED IN CORRIDORS TO THE GREATEST EXTENT POSSIBLE. CABLING FEEDING ACCESS POINTS IN RESIDENT UNITS SHALL NOT BE ROUTED THROUGH ADJACENT RESIDENT UNITS. UNLESS SPECIFICALLY NOTED AND REQUIRED, DO NOT ROUTE CABLING THROUGH CLEAN UTILITY ROOMS, SOILED UTILITY ROOMS, ELEVATOR MACHINE ROOMS, EGRESS STAIRWELLS, ETC.
- ALL RESIDENT UNIT WALLS ARE SMOKE RATED PARTITIONS. PROVIDE FIRE CAULKING TO SEAL ALL PENETRATIONS IN RESIDENT UNIT WALLS. (ROOMS LABELED AS "PRIVATE" AND SEMI PRIVATE.)

KEYED NOTES:

- MAIN SERVER ROOM 141:** PROVIDE (1) 48 PORT 19 INCH RACK MOUNT FIBER PATCH PANEL AT THE TOP OF THE EXISTING RACK. PROVIDE ARMOR JACKETED FIBER TO LOCATIONS INDICATED ON PLANS FROM THIS FIBER PATCH PANEL. PROVIDE 6' FIBER PATCH CABLES. DO NOT CONNECT. OWNER TO MAKE ALL FINAL CONNECTIONS. DO NOT INSTALL CAT 6 CABLING FOR ANY ACCESS POINTS IN THIS ROOM.
- DIETARY IDF ROOM 167:** PROVIDE (1) 48 PORT RACK MOUNT PATCH PANEL BELOW EXISTING COPPER PATCH PANELS. PROVIDE CAT 6 CABLING TO EVERY ACCESS POINT IN THE KITCHEN WING, DINING HALL, COURTYARD, AND CHAPEL WING FROM THIS PATCH PANEL. AT EVERY ACCESS POINT, PROVIDE 10' SERVICE LOOP AND TERMINATE AT A SURFACE MOUNT BOX ABOVE CEILING. CONNECT A 4' CAT 6 PATCH CABLE FROM THE SURFACE MOUNT PATCH PANEL TO THE ACCESS POINT. LABEL ALL CAT6 CABLING AT BOTH ENDS WITH THE AP NAME. PROVIDE A 6' CAT 6 PATCH CABLE AT THE NEW PATCH PANEL, BUT DO NOT CONNECT CAT 6 PATCH CABLES TO THE SWITCHES. PROVIDE RACK MOUNTED, TRU 12 PORT FIBER PATCH PANEL AT THE TOP OF THE EXISTING RACK. PROVIDE 12 STRANDS OF ARMOR JACKETED MULTIMODE FIBER TO FIBER PATCH PANEL IN THE MAIN DATA ROOM 141. TERMINATE WITH LC CONNECTORS. IN MAIN DATA RACK, TERMINATE AT FIBER PATCH PANEL OUTLINED ON SHEET E1.3. AT NEW RACK, PROVIDE FIBER PATCH CABLE LONG ENOUGH TO REACH NEW NETWORK SWITCH FURNISHED BY OWNERS IT DEPARTMENT. DO NOT CONNECT TO SWITCH, OWNER TO MAKE ALL FINAL CONNECTIONS.
- VSO IDF:** DO NOT ROUTE ANY NEW CABLING TO THIS ROOM.
- ADMIN IDF:** PROVIDE (1) 48 PORT RACK MOUNT PATCH PANEL BELOW EXISTING COPPER PATCH PANELS. PROVIDE CAT 6 CABLING TO EVERY ACCESS POINT IN THE ADMINISTRATIVE AREA, ENTRANCE, REHABILITATION ROOMS, AND VSO WING FROM THIS PATCH PANEL. AT EVERY ACCESS POINT, PROVIDE 10' SERVICE LOOP AND TERMINATE AT A SURFACE MOUNT BOX ABOVE CEILING. CONNECT A CAT 6 PATCH CABLE FROM THE SURFACE MOUNT PATCH PANEL TO THE ACCESS POINT. LABEL ALL CAT6 CABLING AT BOTH ENDS WITH THE AP NAME. PROVIDE A 6' CAT 6 PATCH CABLE AT THE NEW PATCH PANEL, BUT DO NOT CONNECT CAT 6 PATCH CABLES TO THE SWITCHES. PROVIDE RACK MOUNTED, TRU 12 PORT FIBER PATCH PANEL AT THE TOP OF THE EXISTING RACK. PROVIDE 12 STRANDS OF ARMOR JACKETED MULTIMODE FIBER TO FIBER PATCH PANEL IN THE MAIN DATA ROOM 141. TERMINATE WITH LC CONNECTORS. IN MAIN DATA RACK, TERMINATE AT FIBER PATCH PANEL OUTLINED ON SHEET E1.3. AT NEW RACK, PROVIDE FIBER PATCH CABLE LONG ENOUGH TO REACH NEW NETWORK SWITCH FURNISHED BY OWNERS IT DEPARTMENT. DO NOT CONNECT TO SWITCH, OWNER TO MAKE ALL FINAL CONNECTIONS.
- PROVIDE TWO (2) 2" CONDUITS FROM ABOVE IT RACK TO ABOVE CEILING. PROVIDE INSULATED BUSHINGS AT BOTH ENDS OF CONDUIT. PAINT CONDUITS TO MATCH EXISTING WALL FINISH.
- PROVIDE NEW 2" CONDUIT. ROUTE FROM BELOW GRADE TO ATTIC SPACE THROUGH SOFFIT.
- EXISTING CONDUIT FROM BELOW GRADE TO SOFFIT AND INTO ATTIC SPACE. PROTECT AND MAINTAIN.
- EXISTING 120/208/3P/4W PANELBOARD (SIEMENS TYPE S3). PROVIDE NEW 1-POLE, 20A BREAKER IN SPACE #56.
- REMOVE LIGHT TEMPORAIRLY TO GAIN ACCESS ABOVE GYP CEILING. RE-INSTALL WHEN COMPLETE.
- PROVIDE ONE (1) - 4" EMT CONDUIT. STUB FROM 12" ABOVE IT RACK VERTICALLY ABOVE GYP CEILING AND CONTINUE HORIZONTALLY AS SHOWN. APPLY FIRE CAULK AND FIRE PUTTY AT BOTH ENDS.
- EXISTING FIRE WALL. PROVIDE FIRE SEALANT/CAULK AT PENETRATIONS.
- PROVIDE NEW RECEPTACLE AND NEW DEDICATED CIRCUIT.

STATE OF MISSOURI
MIKE KEHOE
GOVERNOR

SSC
Engineering, Inc.
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770 Fax: 636.530.7877
Missouri Certificate of Authority #NC 001244



THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND
CONSTRUCTION
DEPARTMENT OF
VETERANS AFFAIRS

WI-FI DEPLOYMENT PLAN

10600 Lewis and Clark Blvd
ST. LOUIS MO 63136 6005

PROJECT # U2411-01
SITE # 6804
FACILITY # 8136804001

REVISION:
DATE: _____
REVISION:
DATE: _____
REVISION:
DATE: _____
ISSUE DATE: 09/17/2025

CAD DWG FILE:
DRAWN BY: ZHB
CHECKED BY: HAP
DESIGNED BY: BDS

SHEET TITLE:
ELECTRICAL MAIN
BUILDING DATA PLAN

SHEET NUMBER:

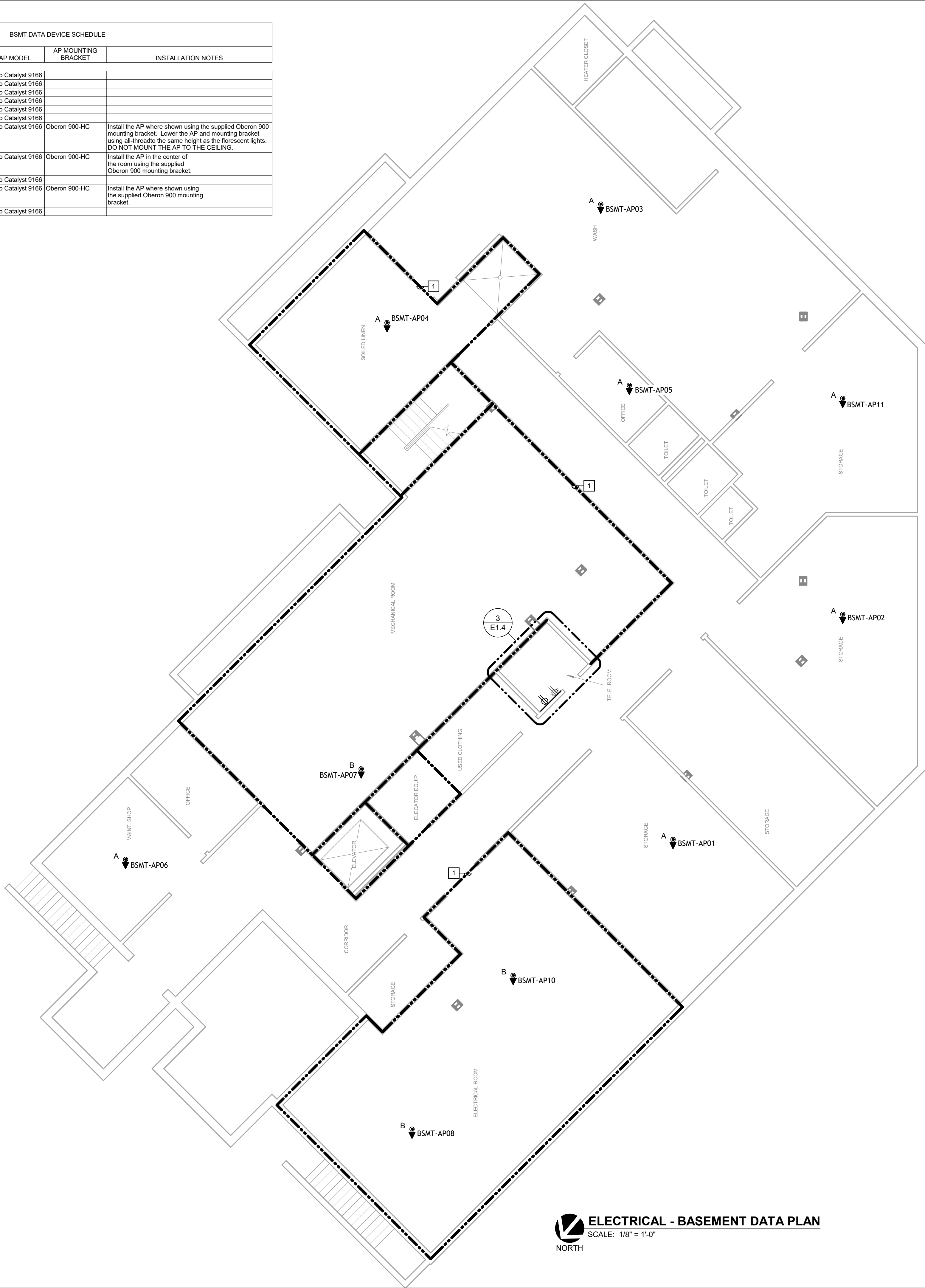
E1.3

SHEET 9 OUT OF 12
09/17/2025

SSC JOB# 2024206 - BID DOCUMENTS 09/17/2025

KEYPLAN - MAIN BUILDING

BSMT DATA DEVICE SCHEDULE				
Type	NAME	AP MODEL	AP MOUNTING BRACKET	INSTALLATION NOTES
Data Wireless Access Point A	AP-01	Cisco Catalyst 9166		
Data Wireless Access Point A	AP-02	Cisco Catalyst 9166		
Data Wireless Access Point A	AP-03	Cisco Catalyst 9166		
Data Wireless Access Point A	AP-04	Cisco Catalyst 9166		
Data Wireless Access Point A	AP-05	Cisco Catalyst 9166		
Data Wireless Access Point A	AP-06	Cisco Catalyst 9166		
Data Wireless Access Point B	AP-07	Cisco Catalyst 9166	Oberon 900-HC	Install the AP where shown using the supplied Oberon 900 mounting bracket. Lower the AP and mounting bracket using all-thread to the same height as the fluorescent lights. DO NOT MOUNT THE AP TO THE CEILING.
Data Wireless Access Point B	AP-08	Cisco Catalyst 9166	Oberon 900-HC	Install the AP in the center of the room using the supplied Oberon 900 mounting bracket.
Data Wireless Access Point A	AP-09	Cisco Catalyst 9166		
Data Wireless Access Point B	AP-10	Cisco Catalyst 9166	Oberon 900-HC	Install the AP where shown using the supplied Oberon 900 mounting bracket.
Data Wireless Access Point A	AP-11	Cisco Catalyst 9166		



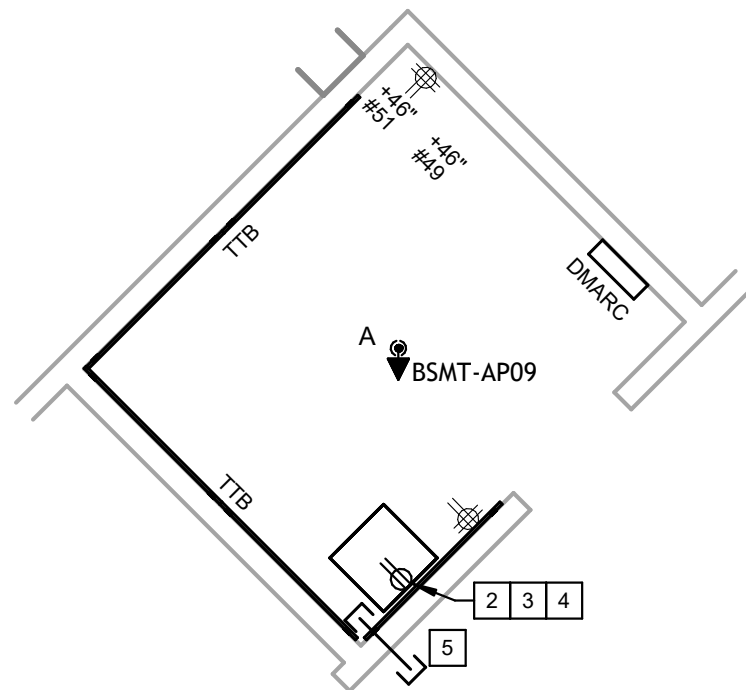
 **ELECTRICAL - BASEMENT DATA PLAN**
SCALE: 1/8" = 1'-0"

ELECTRICAL GENERAL NOTES:

- REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
- PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250.122. SEE SPECIFICATIONS.
- INFORMATION ON THIS SHEET IS COMPILED FROM EXISTING DRAWINGS AND CASUAL FIELD OBSERVATIONS AND SHALL BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF ALL EQUIPMENT AND DEVICES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL WIRELESS ACCESS POINTS SHALL BE PROVIDED WITH ONE (1) CAT 6 CABLE. PROVIDE WITH 10' OF COILED CABLE ABOVE CEILING FOR FUTURE FLEXIBILITY. ALL CABLING SHALL BE PLENUM RATED. TERMINATE THE CAT 6 IN A SURFACE MOUNT BOX AT THE ACCESS POINT. PROVIDE A CAT 6 PATCH CABLE AND PATCH TO WAP.
- WHERE WORK IS PERFORMED AT EXISTING IT RACKS AND CABINETS, EC SHALL COORDINATE WITH OWNERS IT REPRESENTATIVE PRIOR TO WORK. EC SHALL PROTECT ALL EXISTING CABLING, NETWORK SWITCHES, PATCH PANELS, ETC FROM DAMAGE. WHERE NEW WORK CREATES DUST AND DEBRIS, PROVIDE PROTECTION OF COMPONENTS.
- INSTALL ALL WIRELESS ACCESS POINTS WITHIN 3' OF THE LOCATIONS DEPICTED. OWNER WILL LABEL EACH ACCESS POINT, AND EC SHALL ENSURE IT IS INSTALLED AT THE CORRECT LOCATION. ALL ACCESS POINTS SHALL BE INSTALLED BELOW THE DROP CEILING GRID FACING THE CUSTOMER, OR AS OTHERWISE INDICATED AND DETAILED.
- CONTRACTOR SHALL MAINTAIN FIRE, SMOKE AND STC RATINGS OF ALL PARTITIONS AND WALLS. MAJOR FIRE WALLS ARE SHOWN ON PLANS FOR GENERAL GUIDANCE. HOWEVER, IT IS NOTED THAT ALL RESIDENT UNITS HAVE SMOKE RATINGS AND ANY PENETRATIONS SHALL BE FIRE CAULKED TO MAINTAIN SPECIFIC RATING. IF ANY FIRE WALLS ARE PENETRATED AND ARE NOT SHOWN ON THE PLANS AS FIRE RATED, CONTRACTOR IS EXPECTED TO FIRE CAULK AND MARK UP CHANGES TO AS-BUILT DOCUMENTATION.
- ALL DATA CABLING SHALL BE ROUTED IN CORRIDORS TO THE GREATEST EXTENT POSSIBLE. CABLING FEEDING ACCESS POINTS IN RESIDENT UNITS SHALL NOT BE ROUTED THROUGH ADJACENT RESIDENT UNITS. UNLESS SPECIFICALLY NOTED AND REQUIRED, DO NOT ROUTE CABLING THROUGH CLEAN UTILITY ROOMS, SOILED UTILITY ROOMS, ELEVATOR MACHINE ROOMS, EGRESS STAIRWELLS, ETC.
- ALL RESIDENT UNIT WALLS ARE SMOKE RATED PARTITIONS. PROVIDE FIRE CAULKING TO SEAL ALL PENETRATIONS IN RESIDENT UNIT WALLS. (ROOMS LABELED AS "PRIVATE" AND SEMI PRIVATE")

KEYED NOTES:

- EXISTING FIRE WALL. PROVIDE FIRE SEALANT/CAULK AT PENETRATIONS.
- PROVIDE NEW TRIPP LITE SMARTRACK 12U WALL MOUNT RACK (CAT#SRW12US33) WITH HINGED BACK, SWINGING DOORS AND REMOVEABLE SIDES; LOCATE 12" BELOW EXISTING LENSEL ACCESS CONTROL ENCLOSURE. PROVIDE 4X4 FIRE RETARDANT PLYWOOD BACKERBOARD ANCHORED TO WALL STUDS. IN THE CABINET, ADJUST THE FRONT RAILS TO BE 6" FROM THE DOOR. INSTALL RACK AND DOOR TO BOTH SWING TO THE RIGHT. PROVIDE (1) 48 PORT RACK MOUNT PATCH PANEL IN THE NEW RACK. PROVIDE CAT 6 CABLING TO EVERY ACCESS POINT IN THE BASEMENT FROM THESE NEW PATCH PANELS. AT EVERY ACCESS POINT, PROVIDE 10' SERVICE LOOP AND TERMINATE AT A SURFACE MOUNT BOX ABOVE CEILING. CONNECT A CAT 6 PATCH CABLE FROM THE SURFACE MOUNT PATCH PANEL TO THE ACCESS POINT. LABEL ALL CAT6 CABLING AT BOTH ENDS WITH THE AP NAME. PROVIDE A 6' CAT 6 PATCH CABLE AT THE NEW PATCH PANEL, BUT DO NOT CONNECT CAT 6 PATCH CABLES TO THE SWITCHES. PROVIDE RACK MOUNTED, 1RU 12 PORT FIBER PATCH PANEL IN THE NEW RACK. PROVIDE 12 STRANDS OF ARMOR JACKETED MULTIMODE FIBER TO FIBER PATCH PANEL IN THE MAIN DATA ROOM 141. TERMINATE WITH LC CONNECTORS. IN MAIN DATA RACK, TERMINATE AT FIBER PATCH PANEL OUTLINED ON SHEET E1.3. AT NEW RACK, PROVIDE FIBER PATCH CABLE LONG ENOUGH TO REACH NEW NETWORK SWITCH FURNISHED BY OWNER'S IT DEPARTMENT. DO NOT CONNECT TO SWITCH, OWNER TO MAKE ALL FINAL CONNECTIONS.
- PROVIDE TWO (2) 2" CONDUITS FROM ABOVE IT RACK TO ABOVE GRID CEILING. COORDINATE LOCATION TO ALIGN WITH KNOCKOUTS IN TOP OF RACK, PROVIDE INSULATED BUSHINGS AT BOTH ENDS OF CONDUIT. PAINT CONDUITS TO MATCH EXISTING WALL FINISH.
- PROVIDE NEW DEDICATED DUPLEX RECEPTACLE FOR IT RACK POWER. INSTALL RECESSED IN EXISTING DRYWALL. LOCATE DUPLEX RECEPTACLE TO LAND INSIDE RACK, AT BOTTOM PER DETAIL #15/E0.4. POWER FROM CIRCUIT #49 AS SHOWN.
- PROVIDE 2" HILTI SPEED SLEEVE OR EQUIVALENT FIRE RATED WALL PENETRATION ABOVE ACCESSIBLE CEILING SPACE AS INDICATED FOR LOW VOLTAGE CABLE PATHWAYS.



3 ENLARGED BASMENT IDF
NOT TO SCALE

STATE OF MISSOURI
MIKE KEHOE
GOVERNOR

SSC
Engineering, Inc.
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770 Fax: 636.530.7877
Missouri Certificate of Authority #NC 001244



THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND
CONSTRUCTION
DEPARTMENT OF
VETERANS AFFAIRS

WI-FI DEPLOYMENT PLAN

10600 Lewis and Clark Blvd
ST. LOUIS MO 63136 6005

PROJECT # U2411-01
SITE # 6804
FACILITY # 8136804001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 09/17/2025

CAD DWG FILE: _____
DRAWN BY: ZHB
CHECKED BY: HAP
DESIGNED BY: BDS

SHEET TITLE:

ELECTRICAL BASMENT
DATA PLAN

SHEET NUMBER:

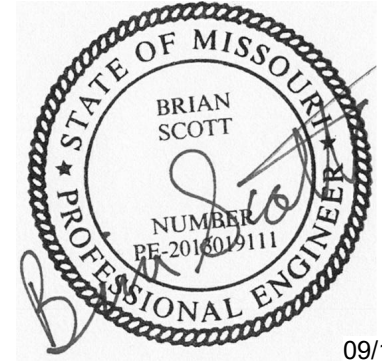
E1.4

SHEET 11 OUT OF 12
09/17/2025

SSC JOB# 2024206 - BID DOCUMENTS 09/17/2025



Engineering, Inc.
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770 Fax: 636.530.7877
Missouri Certificate of Authority #NC 001244



BRIAN SCOTT
MO LIC# PE-2013010111 EXP. 12/31/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND
CONSTRUCTION
DEPARTMENT OF
VETERANS AFFAIRS

WI-FI DEPLOYMENT PLAN

10600 Lewis and Clark Blvd
ST. LOUIS MO 63136 6005

PROJECT # U2411-01
SITE # 6804
FACILITY # 8136804001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 09/17/2025

CAD DWG FILE: _____
DRAWN BY: ZHB
CHECKED BY: HAP
DESIGNED BY: BDS

SHEET TITLE:
ELECTRICAL
GEN/MAINT BUILDING
DATA PLAN

SHEET NUMBER:

E1.5

SHEET 12 OUT OF 12
09/17/2025

ELECTRICAL GENERAL NOTES:

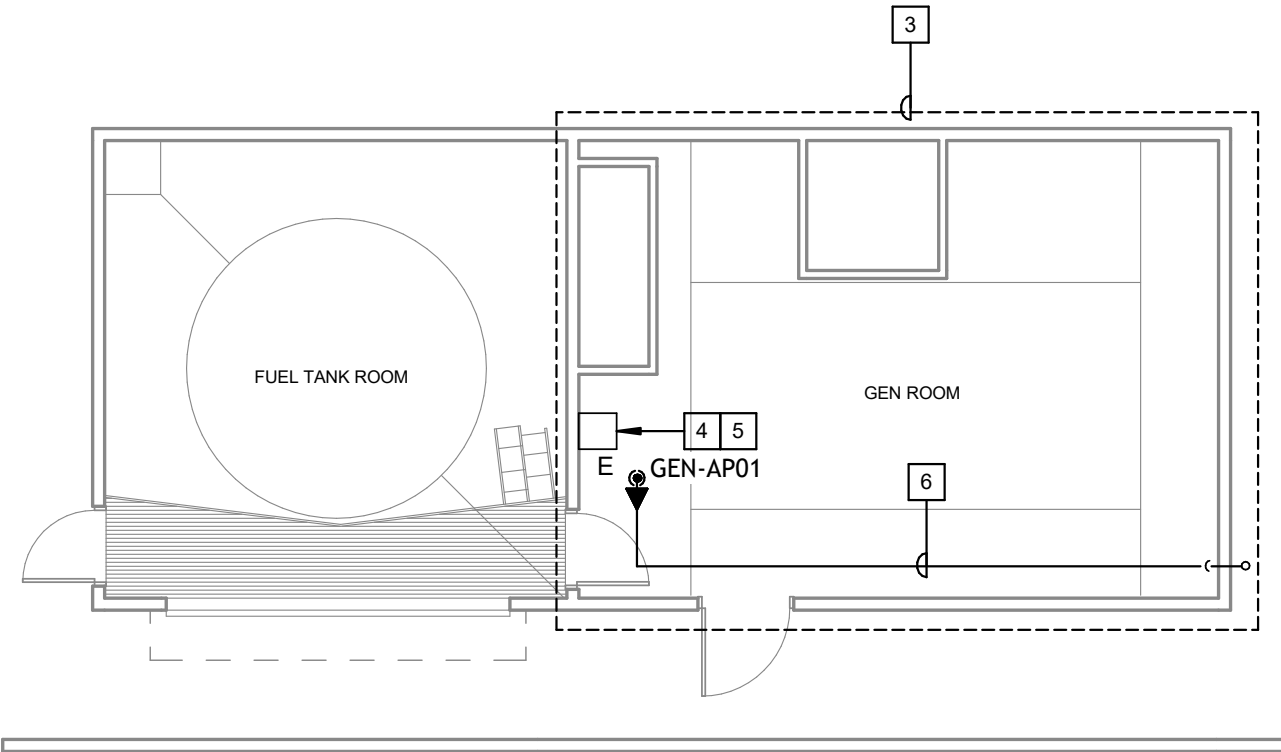
- REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
- PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250.122, SEE SPECIFICATIONS.
- INFORMATION ON THIS SHEET IS COMPILED FROM EXISTING DRAWINGS AND CASUAL FIELD OBSERVATIONS AND SHALL BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF ALL EQUIPMENT AND DEVICES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL WIRELESS ACCESS POINTS SHALL BE PROVIDED WITH ONE (1) CAT 6 CABLE. PROVIDE WITH 10' OF COILED CABLE ABOVE CEILING FOR FUTURE FLEXIBILITY. ALL CABLING SHALL BE PLENUM RATED. TERMINATE THE CAT 6 IN A SURFACE MOUNT BOX AT THE ACCESS POINT. PROVIDE A CAT 6 PATCH CABLE AND PATCH TO WAP.
- WHERE WORK IS PERFORMED AT EXISTING IT RACKS AND CABINETS, EC SHALL COORDINATE WITH OWNERS IT REPRESENTATIVE PRIOR TO WORK. EC SHALL PROTECT ALL EXISTING CABLING, NETWORK SWITCHES, PATCH PANELS, ETC FROM DAMAGE. WHERE NEW WORK CREATES DUST AND DEBRIS, PROVIDE PROTECTION OF COMPONENTS.
- INSTALL ALL WIRELESS ACCESS POINTS WITHIN 3' OF THE LOCATIONS DEPICTED. OWNER WILL LABEL EACH ACCESS POINT, AND EC SHALL ENSURE IT IS INSTALLED AT THE CORRECT LOCATION. ALL ACCESS POINTS SHALL BE INSTALLED BELOW THE DROP CEILING GRID FACING THE CUSTOMER, OR AS OTHERWISE INDICATED AND DETAILED.
- CONTRACTOR SHALL MAINTAIN FIRE, SMOKE AND STC RATINGS OF ALL PARTITIONS AND WALLS. MAJOR FIRE WALLS ARE SHOWN ON PLANS FOR GENERAL GUIDANCE. HOWEVER, IT IS NOTED THAT ALL RESIDENT UNITS HAVE SMOKE RATINGS AND ANY PENETRATIONS SHALL BE FIRE CAULKED TO MAINTAIN SPECIFIC RATING. IF ANY FIRE WALLS ARE PENETRATED AND ARE NOT SHOWN ON THE PLANS AS FIRE RATED, CONTRACTOR IS EXPECTED TO FIRE CAULK AND MARK UP CHANGES TO AS-BUILT DOCUMENTATION.
- ALL DATA CABLING SHALL BE ROUTED IN CORRIDORS TO THE GREATEST EXTENT POSSIBLE. CABLING FEEDING ACCESS POINTS IN RESIDENT UNITS SHALL NOT BE REROUTED THROUGH ADJACENT RESIDENT UNITS. UNLESS SPECIFICALLY NOTED AND REQUIRED, DO NOT ROUTE CABLING THROUGH CLEAN UTILITY ROOMS, SOILED UTILITY ROOMS, ELEVATOR MACHINE ROOMS, EGRESS STAIRWELLS, ETC.
- ALL RESIDENT UNIT WALLS ARE SMOKE RATED PARTITIONS. PROVIDE FIRE CAULKING TO SEAL ALL PENETRATIONS IN RESIDENT UNIT WALLS. (ROOMS LABELED AS "PRIVATE" AND SEMI PRIVATE.)

KEYED NOTES:

- MOUNT THE IE 3400 SWITCH AND POWER SUPPLY ON DIN RAIL AT 4" AFF. MOUNT THE WALL MOUNT FIBER PATCH PANEL NEXT TO THE SWITCH. RUN 6 STRANDS OF SINGLE MODE FIBER BACK TO THE MAIN DATA ROOM 141 INTO THE 48 PORT RACK MOUNT FIBER PATCH PANEL. TERMINATE WITH LC CONNECTORS. LEAVE FIBER PATCH CABLE IN PATCH PANEL BUT DO NOT CONNECT TO THE SWITCH. INSTALL A 12 PORT WALL MOUNT MODULAR PATCH PANEL NEXT TO THE IE 3400 SWITCH. RUN CAT 6 CABLE TO EVERY ACCESS POINT IN THE MAINTENANCE BUILDING WITH A 4FT SERVICE LOOP TERMINATED WITH A SURFACE MOUNT BOX. CONNECT THE ACCESS POINT THE THE SURFACE MOUNT BOX WITH A 6FT CAT 6 PATCH CABLE. SEE DETAIL.
- PROVIDE ENCLOSURE WITH DIN RAIL. PROVIDE 120V FROM ELEC. PANEL CIRCUIT #2. FIELD COORDINATE ENCLOSURE SIZE, BUT ENCLOSURE IS ANTICIPATED TO BE APPROX 18"X18"X10" TO ACCOMMODATE EQUIPMENT.
- IF ALTERNATE #1 IS NOT ACCEPTED, NO WORK IN THIS AREA.
- IF ALTERNATE #1 IS ACCEPTED, PROVIDE ENCLOSURES SIMILAR TO MAINT. BUILDING AND MOUNT THE IE 3400 SWITCH AND POWER SUPPLY ON DIN RAIL AT 4" AFF. MOUNT THE WALL MOUNT FIBER PATCH PANEL NEXT TO THE SWITCH. RUN 6 STRANDS OF SINGLE MODE FIBER BACK TO THE MAIN DATA ROOM 141 INTO THE 48 PORT RACK MOUNT FIBER PATCH PANEL. TERMINATE WITH LC CONNECTORS. LEAVE FIBER PATCH CABLE IN PATCH PANEL BUT DO NOT CONNECT TO THE SWITCH. INSTALL AN 8 PORT WALL MOUNT MODULAR PATCH PANEL NEXT TO THE IE 3400 SWITCH. RUN CAT 6 CABLE TO EVERY ACCESS POINT IN THE GENERATOR BUILDING WITH A 4FT SERVICE LOOP TERMINATED WITH A SURFACE MOUNT BOX. CONNECT THE ACCESS POINT THE THE SURFACE MOUNT BOX WITH A 6FT CAT 6 PATCH CABLE.
- IF ALTERNATE #1 IS ACCEPTED, PROVIDE NEW DEDICATED 120V, 20A CIRCUIT FOR POWER SUPPLY FROM NEAREST ELECTRICAL PANEL.
- PROVIDE ONE (1) 1-1/2" EMT CONDUIT. PAINT TO MATCH CEILING.

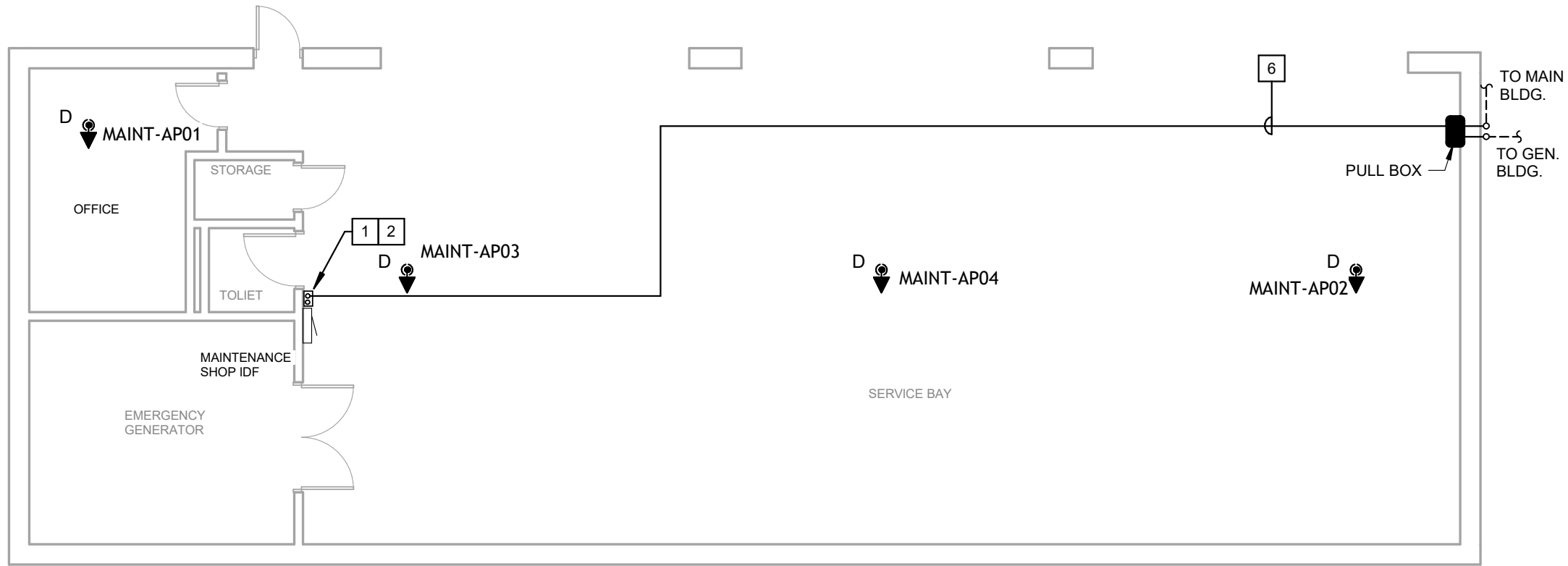


2 PHOTO AT MAINT.
NOT TO SCALE



ELECTRICAL GENERATOR BUILDING DATA PLAN
SCALE: 1/8" = 1'-0"
NORTH

GENERATOR DATA DEVICE SCHEDULE				
Type	NAME	AP MODEL	AP MOUNTING BRACKET	INSTALLATION NOTES
Data Wireless Access Point E	AP-01	Cisco C9124i	AIR-MNT-HORZ1=	Install the supplied IE3400 switch on the wall 4 ft high on a din rail at the location shown. Install a wall mount fiber patch panel on the wall next to the IE3400 switch. Run 6 strand OSI fiber to the Main building MDF. Rm 141. Terminate fiber with LC connectors. Label fiber at both ends accordingly. Leave a 6 ft LC-LC fiber patch cable taped to the wall in the room. Install the AP on the wall at 8ft high, facing down, at the location shown, using the supplied AIR-MNT-HORZ1= mounting bracket. DO NOT mount the AP to the wall like a clock. Attach an 8ft CAT6 patch cable to the AP. Refer to the Cisco Catalyst 9124AX Hardware Installation Guide for guidelines on mounting the wireless access point and connecting cabling.



ELECTRICAL MAINTENANCE DATA PLAN
SCALE: 1/8" = 1'-0"
NORTH

MAINT DATA DEVICE SCHEDULE				
Type	NAME	AP MODEL	AP MOUNTING BRACKET	INSTALLATION NOTES
Data Wireless Access Point D	AP-01	Cisco C9124i	AIR-MNT-ART1=	Install the AP on the ceiling, facing down, at the location shown, using the supplied AIR-MNT-ART1=mounting bracket. Refer to the Cisco Catalyst 9124AX Hardware Installation Guide for guidelines on mounting the wireless access point and connecting cabling. You must use the included gland assembly to waterproof the CAT6 cabling.
Data Wireless Access Point D	AP-02	Cisco C9124i	AIR-MNT-ART1=	Install the AP on the ceiling, facing down, at the location shown, using the supplied AIR-MNT-ART1=mounting bracket. Refer to the Cisco Catalyst 9124AX Hardware Installation Guide for guidelines on mounting the wireless access point and connecting cabling. You must use the included gland assembly to waterproof the CAT6 cabling.
Data Wireless Access Point D	AP-03	Cisco C9124i	AIR-MNT-ART1=	Install the AP on the ceiling, facing down, at the location shown, using the supplied AIR-MNT-ART1=mounting bracket. Refer to the Cisco Catalyst 9124AX Hardware Installation Guide for guidelines on mounting the wireless access point and connecting cabling. You must use the included gland assembly to waterproof the CAT6 cabling.
Data Wireless Access Point D	AP-04	Cisco C9124i	AIR-MNT-ART1=	Install the AP on the ceiling, facing down, at the location shown, using the supplied AIR-MNT-ART1=mounting bracket. Refer to the Cisco Catalyst 9124AX Hardware Installation Guide for guidelines on mounting the wireless access point and connecting cabling. You must use the included gland assembly to waterproof the CAT6 cabling.

SSC JOB# 2024206 - BID DOCUMENTS 09/17/2025