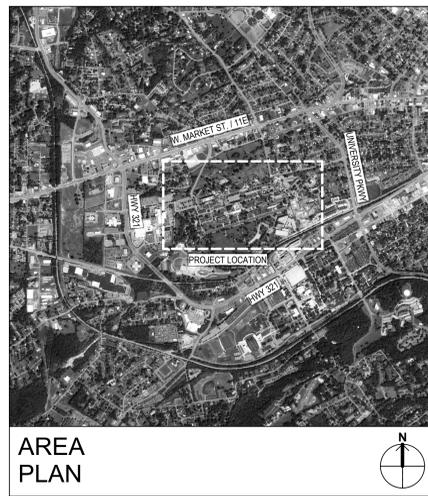
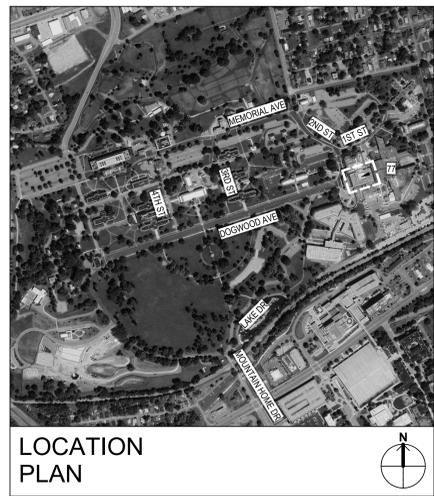




U.S. DEPARTMENT OF VETERANS AFFAIRS
JAMES H. QUILLEN VA MEDICAL CENTER
LAMONT ST. AND VETERANS WAY
MOUNTAIN HOME, TN 37684

EHRM INFRASTRUCTURE UPGRADES -
TIER 3 DC MOUNTAIN HOME, TN

VA PROJECT NUMBER: 621-24-701
FINAL BID DOCUMENTS



SEQUENCE		SHEET INDEX	
NUMBER	SHEET NAME	NUMBER	SHEET NAME
[01] GENERAL			
01	GI000		COVER SHEET
02	GI001		GENERAL INFORMATION
03	GI002		ICRA CONSTRUCTION DETAILS
04	GI010		PHASING PLANS - BUILDING 77 - LEVEL 3 - MCR
05	GI011		LIFE SAFETY PLAN
06	GI012		LIFE SAFETY PLAN - DURING CONSTRUCTION
[02] ENVIRONMENTAL			
07	HA101		LEVEL 3 - KNOWN ENVIRONMENTAL HAZARDS
[03] STRUCTURAL			
08	S001		STRUCTURAL GENERAL NOTES
09	SF101		STRUCTURAL ENLARGED FRAMING PLANS
10	SF102		STRUCTURAL ENLARGED FRAMING PLANS
[04] ARCHITECTURAL			
11	AS001		ARCHITECTURAL SITE PLAN
12	AD101		DEMOLITION PLAN - BUILDING 77 - LEVEL 3 - MCR
13	AE001		PARTITION TYPES
14	AE101		ENLARGED PLAN, SECTIONS, & ISOMETRIC - BUILDING 77 - LEVEL 3 - MCR
15	AE121		ROOF PLAN - BUILDING 77 - LEVEL 3 - MCR
16	AC131		REFLECTED CEILING PLANS - BUILDING 77 - LEVEL 3 - MCR
17	AE001		DOOR SCHEDULE, FINISH SCHEDULE, & DETAILS
18	AE101		POSITION IDENTIFICATION PLAN
[05] FIRE PROTECTION			
19	FA001		FIRE ALARM NOTES MATRIX AND RISER DIAGRAM
20	FA101		ENLARGED FIRE ALARM PLANS - BUILDING 77 - LEVEL 3 - MCR
21	FA001		FIRE ALARM DETAILS
22	FG001		CLEAN AGENT GENERAL NOTES AND LEGEND
23	FG101		ENLARGED CLEAN AGENT PLANS - BUILDING 77 - LEVEL 3 - MCR
24	FG001		CLEAN AGENT DETAILS
25	FX001		FIRE SPRINKLER GENERAL NOTES AND LEGEND
26	FX101		ENLARGED FIRE SPRINKLER PLANS - BUILDING 77 - LEVEL 3 - MCR
27	FX001		FIRE SPRINKLER DETAILS

SEQUENCE		SHEET INDEX	
NUMBER	SHEET NAME	NUMBER	SHEET NAME
[06] MECHANICAL			
28	M-001		LEGEND AND ABBREVIATIONS
29	M-101		MECHANICAL REFERENCE PLAN
30	M-201		MECHANICAL ROOF PLAN
31	M-401		MECHANICAL ENLARGED PLANS
32	M-501		MECHANICAL DETAILS
33	M-502		MECHANICAL DETAILS
34	M-601		MECHANICAL SCHEDULES
35	M-701		MECHANICAL CONTROLS
[07] ELECTRICAL			
36	E-001		ELECTRICAL LEGEND AND ABBREVIATIONS
37	ED101		ELECTRICAL DEMOLITION POWER PLANS - BUILDING 77 - LEVEL 3
38	ED102		ELECTRICAL DEMOLITION LIGHTING PLANS - BUILDING 77 - LEVEL 3
39	EP101		ELECTRICAL POWER PLANS - BUILDING 204
40	EP102		ELECTRICAL POWER PLAN - BUILDING 77 - LEVEL 3
41	EP103		ELECTRICAL PLAN - ROOF
42	EP104		CONDUIT PLANS
43	EL101		ELECTRICAL LIGHTING PLAN - BUILDING 77 - LEVEL 3
44	E-501		ELECTRICAL DETAILS
45	E-601		ELECTRICAL PARTIAL ONE-LINE DIAGRAM - BUILDING 77, 204
46	E-701		ELECTRICAL SCHEDULES
[08] TELECOMMUNICATIONS			
47	T-001		TELECOMMUNICATIONS COVER SHEET
48	T-101		TELECOMMUNICATIONS REFERENCE PLAN - BUILDING 77 - LEVEL 3
49	TD401		TELECOMMUNICATIONS ENLARGED PHASE 2 PLAN - BUILDING 77 - LEVEL 3 - MCR
50	TN401		TELECOMMUNICATIONS ENLARGED PHASE 2 PLAN - BUILDING 77 - LEVEL 3 - NEW MCR 3A112
51	TN402		TELECOMMUNICATIONS ENLARGED PHASE 3 PLANS
52	TN403		TELECOMMUNICATIONS ENLARGED PHASE 3 FIBER OPTIC DEMARC PLANS
53	TN404		TELECOMMUNICATIONS ENLARGED PHASE 4 PLAN - BUILDING 77 - LEVEL 3 - NEW MCR 3A112
54	TN405		CABINET ELEVATIONS - BUILDING 77 - LEVEL 3 - MCR
55	TN501		TELECOMMUNICATIONS DETAILS - BUILDING 77 - LEVEL 3 - MCR
56	TN502		TELECOMMUNICATIONS DETAILS - BUILDING 77 - LEVEL 3 - MCR
57	TN601		MEDIA SCHEDULE - BUILDING 77 - LEVEL 3 - MCR
58	TN602		MEDIA SCHEDULE - BUILDING 77 - LEVEL 3 - MCR
59	TY501		ELECTRONIC SECURITY SYSTEM DETAILS - BUILDING 77 - LEVEL 3 - MCR
60	TY001		ELECTRONIC SECURITY SYSTEM RISERS - BUILDING 77 - LEVEL 3 - MCR

14
TOTAL SHEETS: 60

No.	REVISION DESCRIPTION	DATE

CONSULTANTS:		
FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 359-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169
INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 11140 S. TOWNE SQUARE, #100 ST. LOUIS, MO 63123 (314) 917-0148	PHYSICAL SECURITY FORCE PROTECT 10901 FRONT BEACH RD. #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500

ARCHITECT:

SPUR DESIGN, LLC
 312 SW 25TH STREET
 Oklahoma City, OK 73109
 (405) 842-6100

ARCH REG. NO. 71069
 MECH REG. NO. 123862
 ELEC REG. NO. 130235

EXP. 04/30/2027
 EXP. 06/30/2026
 EXP. 04/30/2026

STAMP:

Drawing Title
COVER SHEET

VA Health Care System Approval:

Project Title
EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN

Location JAMES H. QUILLEN VAMC
 LAMONT ST. AND VETERANS WAY
 MOUNTAIN HOME, TN 37684

Date **08/14/2025**

Checked **AJS**

Drawn **NSM**

Project Number
621-24-701

Building Number
77

Drawing Number
GI000

Drawing # **01** OF 60

Veterans Health Administration

U.S. Department of Veterans Affairs

FINAL BID DOCUMENTS FULLY SPRINKLERED

ABBREVIATIONS

Table of abbreviations for construction materials and components, including ACB, ACST, ADA, ADD, ADJ, ADMN, AE, AF, AFG, AHJ, AIA, ALT, ALT NO, ALUM, AMT, APPROX, ARCH, ASC, AT, AVC, B, BD, BG, BLGD, BLKG, BLT, BOS, BOT, BRT, BTKN, CAB, CAV, CBB, CCB, CD, CFM, CFS, CG, CH, CP, CJ, CLG, CLR, CLM, CO, COMM, CONC, CONT, COORD, COP, CRT, CS, CSWK, CT, CTR, CU FT.

ABBREVIATIONS

Table of abbreviations for construction materials and components, including DBL, DEMO, DET, DIA, DIR, DIST, DOC, DOR, DS, DWG, DWP, E, EA, EL, ENTR, EPY, ERU, EQ, ETR, EXT, EXP, EX, F, FAB, FED, FF, FIN, FIN BS, FIN FLR, FIN GR, FLDG, FLEX, FLO, FLMT, FLR, FOC, FOM, FT, FTG, FWC, G, GDR, GL, GRN, GR FL, GT, GSM, GYV BD, H, HDW, HEPA, HIR, HM, HORZ, HRZ, HT, I, IBC, ICRA, INSUL, INT, ILO, IRM, J, J BOX.

MATERIALS LEGEND

Table of materials legend showing symbols for various materials like FIBERGLASS BATT INSULATION, RIGID INSULATION, CONCRETE/PRECAST CONCRETE, SAND, EIFS FINISH, OR PLASTER FINISH, GYPSUM BOARD FINISH, BRICK, CONCRETE MASONRY UNIT, STONE / CAST STONE, GYPSUM BOARD SECTION, EXTERIOR SHEATHING BOARD SECTION, PLYWOOD SECTION.

CODES STANDARDS AND EXECUTIVE ORDERS

PURPOSE: THE PUBLIC BUILDINGS AMENDMENT ACT OF 1988, PUBLIC LAW (PUB. L.) 100-678 REQUIRES FEDERAL AGENCIES TO FOLLOW NATIONAL RECOGNIZED "MODEL" BUILDING CODES... GENERAL: VA HAS ADOPTED THE LATEST EDITION OF THE FOLLOWING CODES AND STANDARDS AS A MINIMUM FOR ALL PROJECTS PERFORMED IN THE MODERNIZATION, ALTERATION, ADDITION, OR IMPROVEMENT OF ITS REAL PROPERTY AND THE CONSTRUCTION OF NEW STRUCTURES...

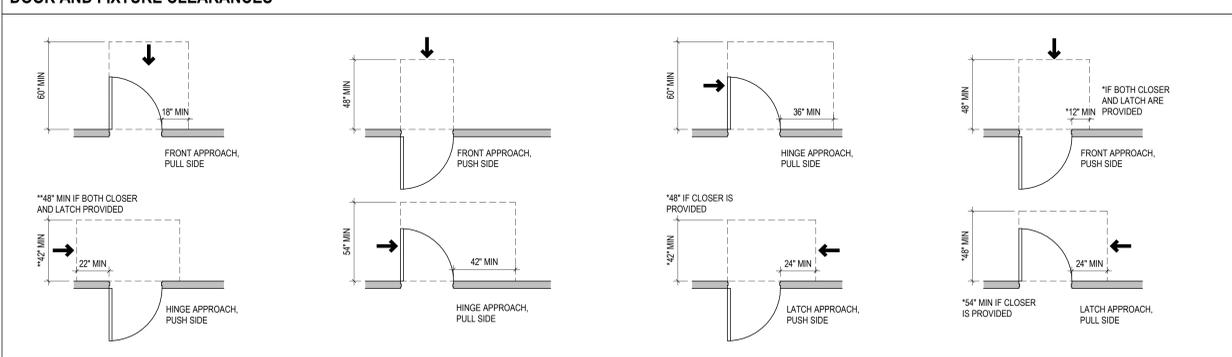
ENERGY REQUIREMENTS

ASHRAE 90.1 - 2019 EDITION
BUILDING LOCATION: MOUNTAIN HOME, TN
CLIMATE ZONE (TABLE ANNEX 1-1): ZONE 4A
INTERIOR DESIGN CONDITIONS: THE INTERIOR DESIGN TEMPERATURES FOR HEATING AND COOLING AS DEPICTED IN THE PROJECT DESIGN CONDITIONS SCHEDULE IN THE MECHANICAL CONTROL DRAWINGS SHALL BE THE MAXIMUM AND MINIMUM VALUES FOR THE ASSOCIATED TEMPERATURE CONTROL ZONES.

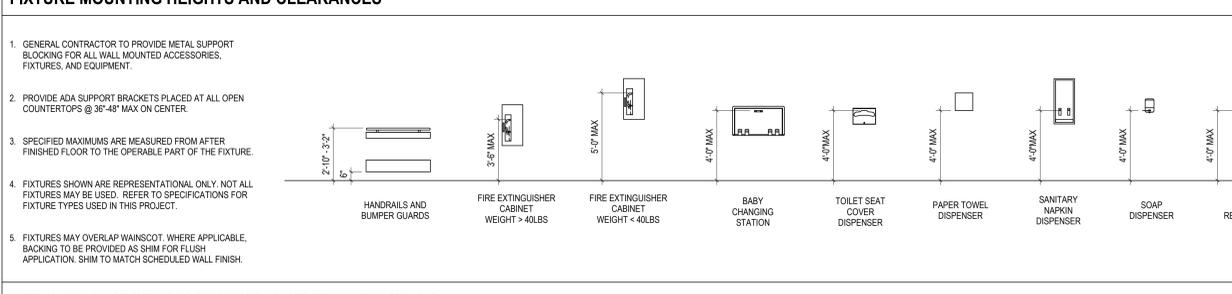
GENERAL NOTES

- 1. DRAWINGS ARE PART OF A COMPLETE DOCUMENTS SET. CONTRACTOR SHALL CONFIRM ALL ITEMS REQUIRED BASED UPON THE OVERALL DESIGN INTENT OF THE ENTIRE DOCUMENT SET.
2. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, PRIOR TO BEGINNING ANY WORK, TO CONFIRM THE ACCURACY OF THE DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT 30 DAYS PRIOR TO THE START OF CONSTRUCTION WORK.

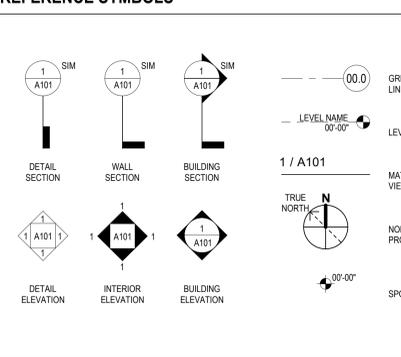
DOOR AND FIXTURE CLEARANCES



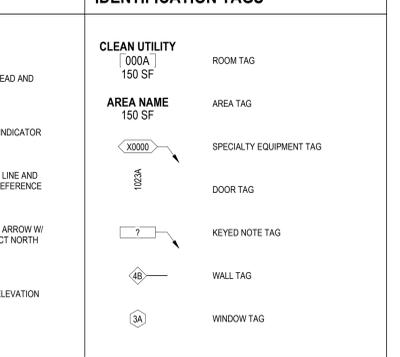
FIXTURE MOUNTING HEIGHTS AND CLEARANCES



REFERENCE SYMBOLS



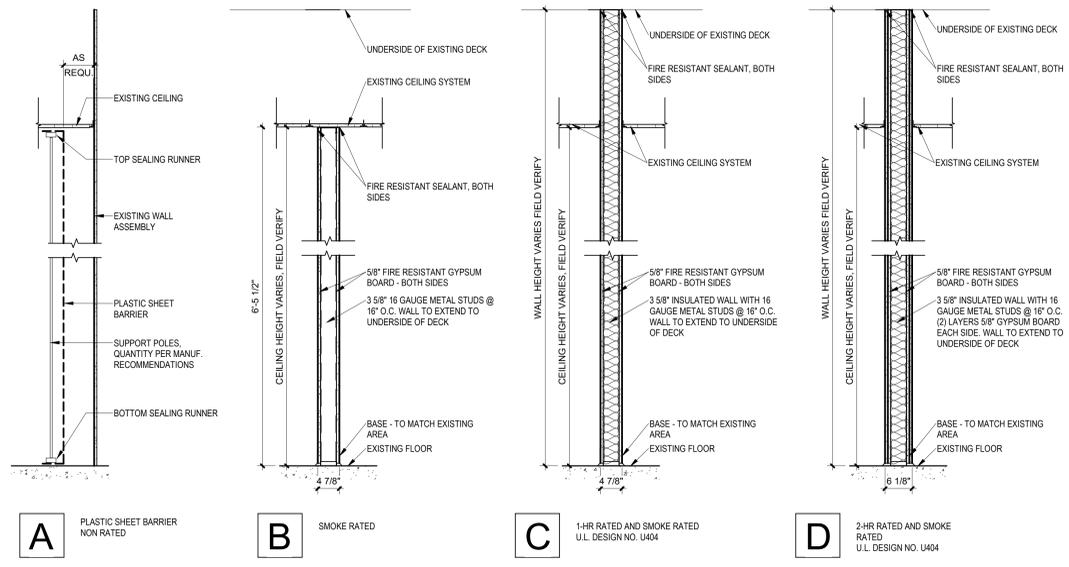
IDENTIFICATION TAGS



FINAL BID DOCUMENTS FULLY SPRINKLERED

Project information including revision table, consultants (Fire Protection, MEP/TELECOM, Structural), architect (SPUR DESIGN, LLC), drawing title (EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN), project number (621-24-701), drawing number (GI001), and date (08/14/2025).

Vertical scale bars on the left margin: three inches = one foot, one and one half inches = one foot, one inch = one foot, three quarters inch = one foot, one eighth inch = one foot.



5 ICRA BARRIER WALL TYPES
3/8" = 1'-0"

MATRIX OF PRECAUTIONS FOR CONSTRUCTION & RENOVATION

CATEGORY A INSPECTIONS AND NON-INVASIVE ACTIVITIES
 INCLUDES BUT NOT LIMITED TO:
 • WORK CAN BE COMPLETED IN A SINGLE SHIFT, DOES NOT EXCEED 10 HOURS, AND DOES NOT CREATE DUST OR DEBRIS.
 • PATIENTS AND/OR EMPLOYEES MAY BE IN THE AREA DEPENDING ON THE ACTIVITY.
 • REMOVAL OF CEILING TILE OR ACCESS TO MECHANICAL OR ELECTRICAL CHASE FOR VISUAL INSPECTION LIMITED TO 1 TILE PER 50 SQUARE FEET WITH LIMITED EXPOSURE TIME NOT TO EXCEED AN HOUR FOR EACH TILE WITHIN THE SHIFT.
 • MINOR INTERIOR UPDATES (E.G., REPLACING FLOOR OR CEILING TILES, CARPENTRY WORK TO INCLUDE HANGING SIGNAGE, AND PAINTING WITHOUT SANDING) THAT DO NOT CREATE DUST OR DEBRIS.
 • LIMITED BUILDING SYSTEM MAINTENANCE SUCH AS PLUMBING ON POTABLE SYSTEMS LIMITED TO FAUCET REPLACEMENT ETC. AND ELECTRICAL WORK SUCH AS REPLACEMENT OF BULBS, RECEPTACLES, OR SWITCHES.

CATEGORY B SMALL SCALE, SHORT DURATION ACTIVITIES WHICH CREATES MINIMAL DUST
 INCLUDES BUT NOT LIMITED TO:
 • PROLONGED INSPECTION AND WORK THAT MAY TAKE LONGER THAN A SINGLE SHIFT BUT NOT EXCEEDING A WEEK.
 • PATIENTS AND EMPLOYEES ARE NOT TO BE IN THE AREA UNTIL ACTIVITY IS COMPLETED.
 • WORK THAT CREATES MINIMAL DUST AND DEBRIS.
 • INTERIOR FINISH OR SURFACE REPAIRS, UPDATES, OR MODIFICATIONS SUCH AS REPAIR OF FIREWALLS AND BARRIERS, AND NEW FLOORING THAT PRODUCES MINIMAL DUST AND DEBRIS. CONTROLLED SANDING ACTIVITIES (E.G., WET OR DRY SANDING) THAT PRODUCES MINIMAL DUST AND DEBRIS.
 • PLUMBING WORK SUCH AS INSTALLATION OR REPLACEMENT OF A SINGLE FIXTURE OR PIPING FOR A SINGLE FIXTURE. ANY WORK ON SANITARY PLUMBING INCLUDING SINKING OF DRAINS.
 • ELECTRICAL WORK SUCH AS INSTALLATION OF CABLING/WIRING/CONDUIT FOR A SINGLE DEVICE. INSTALLATION OF NEW DEVICE SUCH AS A LIGHT FIXTURE THAT PRODUCES MINIMAL DUST AND DEBRIS.
 • AIR HANDLER AND/OR FAN SHUTDOWN/STARTUP AND HVAC WORK SUCH AS REPLACEMENT OF A SINGLE DIFFUSER, SINGLE TERMINAL UNIT OR A SINGLE DEVICE THAT PRODUCES MINIMAL DUST AND DEBRIS.

CATEGORY C WORK THAT GENERATES A MODERATE TO HIGH LEVEL OF DUST OR REQUIRES DEMOLITION OR REMOVAL OF ANY FIXED BUILDING COMPONENTS OR ASSEMBLIES
 INCLUDES BUT NOT LIMITED TO:
 • WORK DURATION EXCEEDING 6 MONTHS. PATIENTS AND EMPLOYEES NOT TO BE IN THE AREA UNTIL ACTIVITY IS COMPLETED.
 • LARGE-SCALE DEMOLITION OF BUILDING COMPONENTS AND INFRASTRUCTURE INCLUDING REMOVAL OF MULTIPLE DOORS, WALLS, FRAMING, CEILING, FLOORING, PIPING, ELECTRICAL AND HVAC.
 • THE INSTALLATION BUILDING COMPONENTS SUCH AS NEW WALLS, CEILING AND DOORS INCLUDING FRAMING, DRYWALL AND ASSOCIATED PLASTER WORK.
 • PLUMBING WORK SUCH AS THE INSTALLATION OF NEW MEDICAL GAS SYSTEMS, STEAMHEATING HOT WATER, CONDENSATE SYSTEMS, MULTIPLE SINKS, SHOWERS AND TOILETS INCLUDING ASSOCIATED PLUMBING.
 • SHUTDOWN OF POTABLE WATER, STEAMHEATING HOT WATER, CONDENSATE, AND MEDICAL GAS SYSTEMS.
 • ELECTRICAL WORK SUCH AS INSTALLATION OF ELECTRICAL FEEDERS, DISTRIBUTION PANELS, CONDUIT AND WIRE FOR LIGHTING, RECEPTACLES AND SWITCHES. THE INSTALLATION OF CONDUIT AND WIRE FOR NEW DEVICES SUCH AS TERMINAL UNITS, FANS, ELECTRICAL SHUTDOWN OF MULTIPLE PANELS, ETC.
 • INSTALLATION OF FIRE ALARM AND SUPPRESSION SYSTEMS.
 • MECHANICAL WORK SUCH AS THE INSTALLATION OF AIR HANDLING EQUIPMENT, ASSOCIATED DUCTWORK, DIFFUSERS, HEAT EXCHANGERS, TERMINAL UNITS AND CONTROLS.

CATEGORY D MAJOR DEMOLITION AND CONSTRUCTION PROJECTS
 INCLUDES BUT NOT LIMITED TO:
 • WORK DURATION EXCEEDING 6 MONTHS. PATIENTS AND EMPLOYEES NOT TO BE IN THE AREA UNTIL ACTIVITY IS COMPLETED.
 • LARGE-SCALE DEMOLITION OF BUILDING COMPONENTS AND INFRASTRUCTURE INCLUDING REMOVAL OF MULTIPLE DOORS, WALLS, FRAMING, CEILING, FLOORING, PIPING, ELECTRICAL AND HVAC.
 • THE INSTALLATION BUILDING COMPONENTS SUCH AS NEW WALLS, CEILING AND DOORS INCLUDING FRAMING, DRYWALL AND ASSOCIATED PLASTER WORK.
 • PLUMBING WORK SUCH AS THE INSTALLATION OF NEW MEDICAL GAS SYSTEMS, STEAMHEATING HOT WATER, CONDENSATE SYSTEMS, MULTIPLE SINKS, SHOWERS AND TOILETS INCLUDING ASSOCIATED PLUMBING.
 • SHUTDOWN OF POTABLE WATER, STEAMHEATING HOT WATER, CONDENSATE, AND MEDICAL GAS SYSTEMS.
 • ELECTRICAL WORK SUCH AS INSTALLATION OF ELECTRICAL FEEDERS, DISTRIBUTION PANELS, CONDUIT AND WIRE FOR LIGHTING, RECEPTACLES AND SWITCHES. THE INSTALLATION OF CONDUIT AND WIRE FOR NEW DEVICES SUCH AS TERMINAL UNITS, FANS, ELECTRICAL SHUTDOWN OF MULTIPLE PANELS, ETC.
 • INSTALLATION OF FIRE ALARM AND SUPPRESSION SYSTEMS.
 • MECHANICAL WORK SUCH AS THE INSTALLATION OF AIR HANDLING EQUIPMENT, ASSOCIATED DUCTWORK, DIFFUSERS, HEAT EXCHANGERS, TERMINAL UNITS AND CONTROLS.

PATIENT RISK GROUPS

LOW RISK	MEDIUM RISK	HIGH RISK	HIGHEST RISK
NON-PATIENT CARE AREAS SUCH AS: • PUBLIC HALLWAYS AND GATHERING AREAS NOT IN CLINICAL AREAS • OFFICE AREAS NOT IN CLINICAL AREAS • BREAKROOMS NOT IN CLINICAL AREAS • BATHROOMS OR LOCKER ROOMS NOT IN CLINICAL AREAS • MECHANICAL/ELECTRICAL ROOMS NOT IN CLINICAL AREAS • EMS CLOSETS NOT ON CLINICAL UNITS	PATIENT CARE SUPPORT AREAS SUCH AS: • WAITING AREAS • CLINICAL, ENGINEERING (BIOMEDICAL) STORAGE CLOSETS FOR ITEMS USED ON A CLINICAL UNIT • STERILE PROCESSING DEPARTMENT - DIRTY SIDE • KITCHEN, CAFETERIA, GIFT SHOP, COFFEE SHOP, AND FOOD KIOSKS	PATIENT CARE AREAS SUCH AS: • ALL ACUTE CARE UNITS, INCLUDING MENTAL HEALTH • ALL OUTPATIENT UNITS AND CLINICS • EMERGENCY DEPARTMENT • DOMICILIARIES AND TRANSITIONAL RESIDENCES • EMPLOYEE HEALTH • PHARMACY - GENERAL WORK ZONE • MEDICATION ROOMS AND CLEAN UTILITY ROOMS • IMAGING SUITES - DIAGNOSTIC IMAGING • LABORATORY	PROCEDURAL, INVASIVE, STERILE SUPPORT AND HIGHLY COMPROMISED PATIENT CARE AREAS SUCH AS: • ALL TRANSPLANT UNITS • ALL INTENSIVE CARE UNITS • ALL ONCOLOGY UNITS AND CHEMOTHERAPY/INFUSION CENTERS • OR THEATERS AND RESTRICTED AREAS • HEMODIALYSIS UNITS • PROCEDURAL ROOMS* • PHARMACY COMPOUNDING AREA • STERILE PROCESSING DEPARTMENT - CLEAN SIDE • TRANSFUSION SERVICES • IMAGING SUITES - INTERVENTIONAL IMAGING • DEDICATED ISOLATION WARDENS/UNITS FOR INFECTIOUS DISEASES

CONSTRUCTION PROJECT TYPE

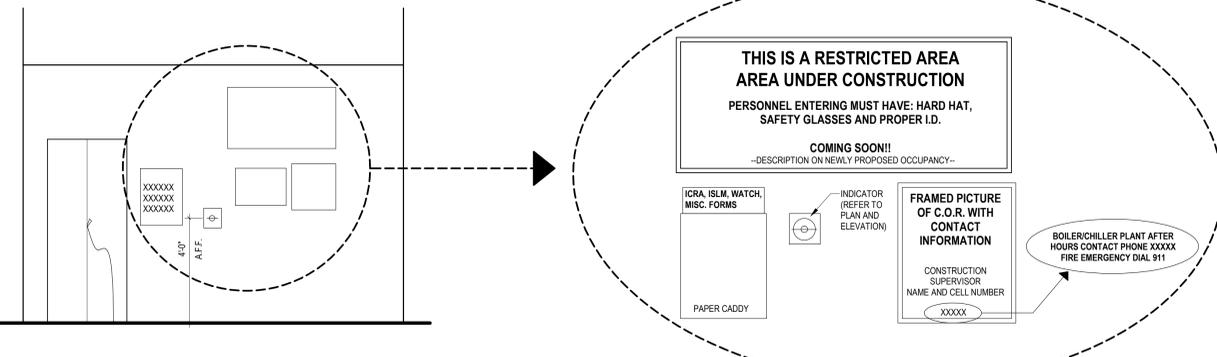
RISK RELATED GROUP	TYPE A	TYPE B	TYPE C	TYPE D
LOW RISK GROUP	I	II	III	IV
MEDIUM RISK GROUP	I	II	III	IV
HIGH RISK GROUP	I	II	III	IV
HIGHEST RISK GROUP	I	II	III	IV

NOTE: AN INFECTION PREVENTION AND CONTROL PERMIT IS REQUIRED FOR LEVEL III AND LEVEL IV. CONSULT WITH INFECTION PREVENTION AND CONTROL FOR LEVEL I AND LEVEL II.

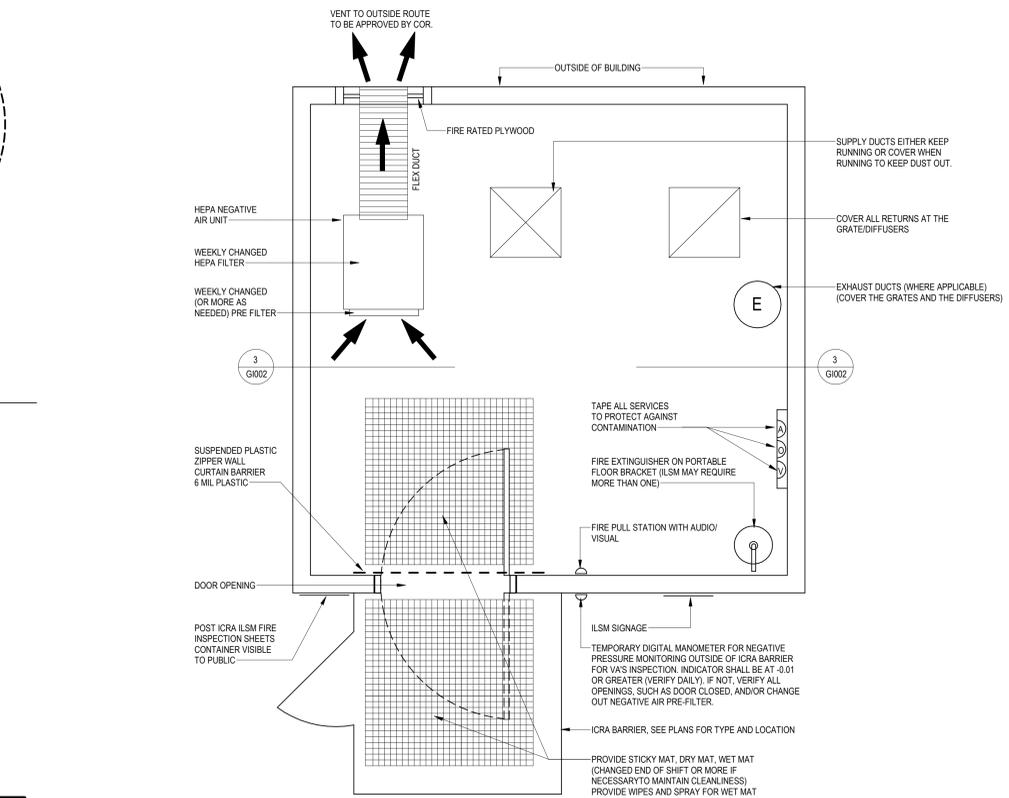
GENERAL ICRA NOTES - LEVEL OF PRECAUTIONS & CONTROL MEASURES

CONTROLS DEFINED BELOW FOR THE LEVEL OF PRECAUTIONS IDENTIFIED FOR THE ACTIVITY MUST BE IN PLACE BEFORE THE ACTIVITY BEGINS AND MAINTAINED UNTIL WORK IS COMPLETED AND THE AREA IS ACTIVATED. CONTROL MEASURES FOR EACH PRECAUTION LEVEL MUST ALSO INCLUDE THE CONTROL MEASURES FOR THE PRECEDING LEVELS. AS THE ACTIVITY PROGRESSES, THE FULL RE-EVALUATION OF REMAINING ACTIVITY TYPE AND PATIENT RISK IS REQUIRED PRIOR TO DOWNGRADING THE LEVEL OF PRECAUTIONS.

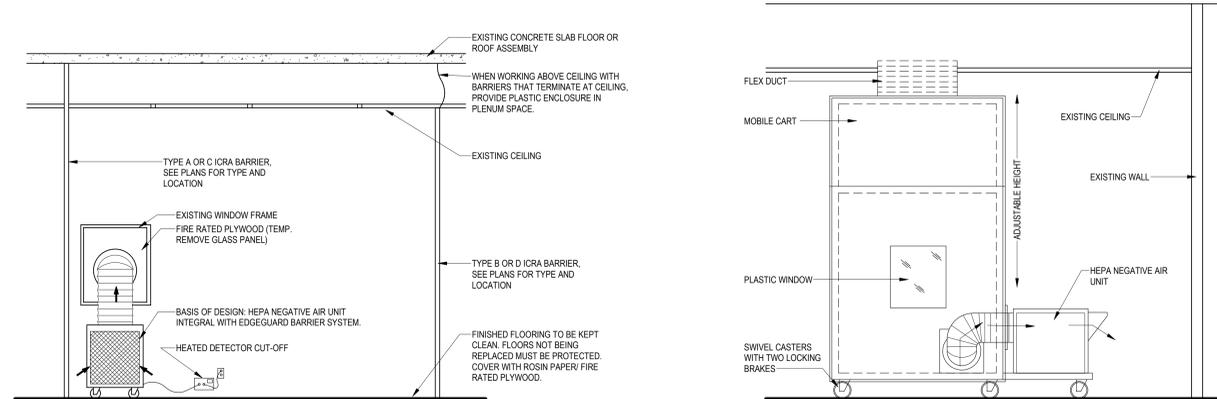
- LEVEL I:**
- PERFORM WORK ACTIVITY IN A MANNER THAT DOES NOT CREATE DUST.
 - IMMEDIATELY REPLACE ANY CEILING TILE, CLOSE ACCESS PANELS, ETC. UPON COMPLETION OF WORK.
 - ANY MATERIALS AND EQUIPMENT BEING BROUGHT INTO THE FACILITY MUST BE FREE OF CONTAMINANTS AND LOOSE MATERIAL.
- LEVEL II:**
- ALL CONTROL MEASURES IN LEVEL I AND THE FOLLOWING:**
- PROVIDE ACTIVE MEANS TO CONTROL AIRBORNE DUST FROM DISPERSING INTO OCCUPIED AREAS AND/OR WATER MIST SURFACE TO CONTROL DUST (E.G., MOBILE DUST CONTAINMENT CART OR SOME OTHER SYSTEM).
 - IF WORK SITE CONTAINED, MUST BE NEUTRAL OR NEGATIVELY PRESSURIZED.
 - ENSURE WORKER CLOTHING IS CLEAN AND FREE OF VISIBLE DUST BEFORE LEAVING THE WORK AREA.
 - REMOVE/ISOLATE/TAPE OFF AIR DIFFUSERS (SUPPLY AND RETURN) TO PROTECT THE HVAC SYSTEM FROM DUST AND REDUCE AIR TURBULENCE. REBALANCE SYSTEM TO ADDRESS DIFFUSER ISOLATION.
 - WHEN THE WORK INVOLVES OR IMPACTS POTABLE WATER SYSTEMS INCLUDING STAGNATION DUE TO REDUCED USAGE, THE PIPING SHALL BE FLUSHED TWICE A WEEK OR ISOLATED FROM THE MAIN SYSTEM.
 - SEAL/CLOSE DOORS TO PREVENT DUST MIGRATION. MAY PUT ZIPPER PLASTIC BARRIER OVER DOOR.
 - CONSIDER CART CART USE.
 - CONTAIN ALL TRASH AND DEBRIS IN THE WORK AREA. PERFORM DAILY CLEANING AND DISPOSAL OF TRASH (COVERED) FROM WORK AREA USING AN IDENTIFIED ROUTE.
 - ANY EQUIPMENT, TOOLS OR MATERIALS REMOVED FROM THE WORK AREA MUST BE IN SEALED CONTAINERS AND/OR CLEANED OF DUST AND DEBRIS PRIOR TO REMOVAL FROM THE AREA.
 - NONPOROUS/SMOOTH AND CLEANABLE CONTAINERS (WITH A HARD LID) MUST BE USED TO TRANSPORT TRASH AND DEBRIS FROM THE CONSTRUCTION AREA. THESE CONTAINERS MUST BE DAMP-WIPED CLEAN AND FREE OF VISIBLE DUST/DEBRIS BEFORE LEAVING THE CONTAINED WORK AREA.
 - INSTALL A STICKY DUST COLLECTION MAT AT ENTRANCE OF CONTAINED WORK AREA BASED ON FACILITY POLICY. STICKY MATS MUST BE CHANGED ROUTINELY AND WHEN VISIBLY SOILED.
 - MAINTAIN CLEAN SURROUNDINGS WHEN AREA IS NOT CONTAINED BY DAMP MOPPING OR HEPA VACUUMING SURFACES AT LEAST DAILY.
- LEVEL III:**
- ALL CONTROL MEASURES IN LEVELS I AND II AND THE FOLLOWING:**
- ENSURE AVAILABILITY OF EQUIPMENT FOR CLEANING HANDS.
 - CONSTRUCT AND COMPLETE CRITICAL BARRIERS MEETING NFPA 241 REQUIREMENTS. BARRIERS MUST EXTEND TO THE CEILING OR IF CEILING TILE IS REMOVED, TO THE DECK ABOVE.
 - ALL PLASTIC OR HARD BARRIER CONSTRUCTION ACTIVITIES MUST BE COMPLETED IN A MANNER THAT PREVENTS DUST RELEASE. PLASTIC BARRIERS MUST BE EFFECTIVELY AFFIXED TO FLOOR AND CEILING (OR FLOOR/ROOF DECK ABOVE) AND SECURE FROM MOVEMENT OR DAMAGE.
 - SEAL ALL PENETRATIONS IN CONTAINMENT BARRIERS, INCLUDING FLOORS AND CEILING, USING APPROVED MATERIALS (UL SCHEDULE FIRESTOP IF APPLICABLE FOR BARRIER TYPE).
 - MAINTAIN 0.1 INCHES WATER GAUGE NEGATIVE PRESSURIZATION OF THE ENTIRE WORKSPACE BY USE OF HEPA EXHAUST AIR SYSTEMS DIRECTED OUTDOORS (UNLESS A WORK SPECIFIC WAIVER IS APPROVED BY VHA'S OFFICE OF HEALTHCARE ENGINEERING); THIS MUST BE MAINTAINED CONTINUOUSLY FOR THE DURATION OF THE PROJECT. EXHAUST DISCHARGED DIRECTLY TO THE OUTDOORS THAT IS 25 FEET OR GREATER FROM ENTRANCES, AIR INTAKES AND WINDOWS IS NOT REQUIRED TO BE HEPA-FILTERED. EXHAUSTING DISCHARGED AIR INTO SHARED OR RECIRCULATING HVAC SYSTEMS, OR OTHER SHARED EXHAUST SYSTEMS (E.G., BATHROOM EXHAUST) IS PROHIBITED.
 - INSTALL A DIFFERENTIAL PRESSURE SENSING DEVICE (E.G., MAGNETIC, MANOMETER, OR DIGITAL MONITORING) ON EXTERIOR OF WORK CONTAINMENT TO CONTINUALLY MONITOR AND DOCUMENT NEGATIVE PRESSURIZATION. THE "BALL IN THE WALL" OR SIMILAR APPARATUS ARE NOT ACCEPTABLE.
- LEVEL IV:**
- ALL CONTROL MEASURES IN LEVELS I, II AND III AND THE FOLLOWING:**
- BARRIERS MUST BE HARD BARRIERS UNLESS TEMPORARY TO INSTALL FINAL BARRIER.
 - CONTAINMENT MUST INCLUDE AN ANTEROOM TO ENSURE PRESSURE CONTROL. ANTEROOM MUST BE LARGE ENOUGH FOR EQUIPMENT STAGING, CART CLEANING, WORKERS PPE AND CLEANING.
 - WORKER CLOTHING AND/OR PPE MUST BE REMOVED OR CLEAN AND FREE OF VISIBLE DUST BEFORE LEAVING THE WORK AREA ANTEROOM. HEPA VACUUMING OF CLOTHING OR USE OF COVER SUITS IS ACCEPTABLE.
 - WORKERS MUST WEAR SHOE COVERS OR HAVE A METHOD TO CLEAN SHOES IN ANTEROOM. SHOE COVERS MUST BE REMOVED PRIOR TO EXITING THE ANTEROOM TO THE OCCUPIED SPACE (NON-WORK AREA). DAMAGED SHOE COVERS MUST BE CHANGED IMMEDIATELY.



4 ICRA ELEVATION
3/8" = 1'-0"



1 GENERAL ICRA CONSTRUCTION PLAN LAYOUT
1/2" = 1'-0"



GENERAL PHASING NOTES

- CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES AND ALLOWABLE WORK HOURS (DAY/NIGHT/WEKEND) WITH VA REPRESENTATIVES.
- COORDINATE WITH AHJ REGARDING TEMPORARY LIFE SAFETY, EGRESS, AND FIRE PROTECTION PROVISIONS.
- ASBESTOS CONTAINING MATERIALS (ACM) HAVE BEEN IDENTIFIED IN SOME AREAS OF WORK. REFER TO THE ENVIRONMENTAL DRAWINGS AND SPECIFICATIONS FOR SCOPE. IF ADDITIONAL MATERIALS ARE FOUND THAT ARE SUSPECTED OF BEING ACM, STOP WORK AND NOTIFY COR.
- ALL PHASING ACTIVITIES MUST ACCOUNT FOR MAINTAINING CONTINUOUS IT AND TELECOMMUNICATIONS SERVICES TO THE FACILITY THROUGHOUT CONSTRUCTION.
- MULTIPLE PHASES MAY OPERATE CONCURRENTLY WHERE REQUIRED TO ENSURE CONTINUITY AND MINIMIZE DISRUPTIONS.
- CONTRACTOR SHALL PROVIDE DUST/DIRT CONTAINMENT AND ENSURE ACTIVE TELECOM ROOMS AND CABINETS REMAIN FULLY OPERATIONAL AND PROTECTED THROUGHOUT.
- FOR TEMPORARY PARTITION LOCATIONS SEE DEMOLITION PLANS. TEMPORARY PARTITIONS ARE SUGGESTED LOCATIONS. COORDINATE FINAL LOCATION IN FIELD WITH COR.
- TEMPORARY DOOR LOCATIONS AND SIZES ARE AS REQUIRED BY THE GENERAL CONTRACTOR. DOORS SHALL INTERFERE WITH DAILY OPERATIONS AS LITTLE AS POSSIBLE. CONFIRM FINAL LOCATIONS WITH COR.
- VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO FABRICATION, ERECTION, AND CONSTRUCTION.
- COORDINATE PHASE COMPLETION AND START-UP WITH REQUIREMENTS AS SET FORTH BY THE COR TO MAINTAIN DAILY OPERATIONS TO NEAR AS NORMAL AS POSSIBLE.
- COORDINATE LOCATION OF JOB DUMPSTER WITH THE COR TO AVOID DISTURBING DAILY OPERATIONS AS MUCH AS POSSIBLE.
- COORDINATE ACCESS TO ALL PHASES OF CONSTRUCTION, DELIVERIES, AND DEBRIS REMOVAL WITH COR.
- EXISTING MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION TO BE MAINTAINED THROUGHOUT AS REQUIRED FOR EACH PHASE. COORDINATE PHASING WITH MECHANICAL AND PLUMBING CONTRACTOR. SUPPORT AND PROTECT ALL LINES DURING EACH PHASE OF CONSTRUCTION.
- PROVIDE AND MAINTAIN NEGATIVE AIR PRESSURE AT ALL AREAS OF CONSTRUCTION. COORDINATE WITH HVAC CONTRACTOR.
- EXISTING POWER MUST BE MAINTAINED THROUGHOUT AS REQUIRED DURING EACH PHASE OF CONSTRUCTION. COORDINATE PHASING WITH ELECTRICAL CONTRACTOR. COORDINATE POWER TURNOVER WITH REQUIREMENTS AS DICTATED BY THE COR.
- COORDINATE SEQUENCE OF CONSTRUCTION WITH COR.
- SEE OTHER DISCIPLINES' DRAWINGS FOR ADDITIONAL PHASING REQUIREMENTS.

PARTITION LEGEND

	1 HOUR FIRE RATED		EXISTING WALL TO REMAIN
	2 HOUR FIRE RATED		NEW NON-RATED WALLS
	3 HOUR FIRE RATED		SMOKE PARTITION/BARRIER

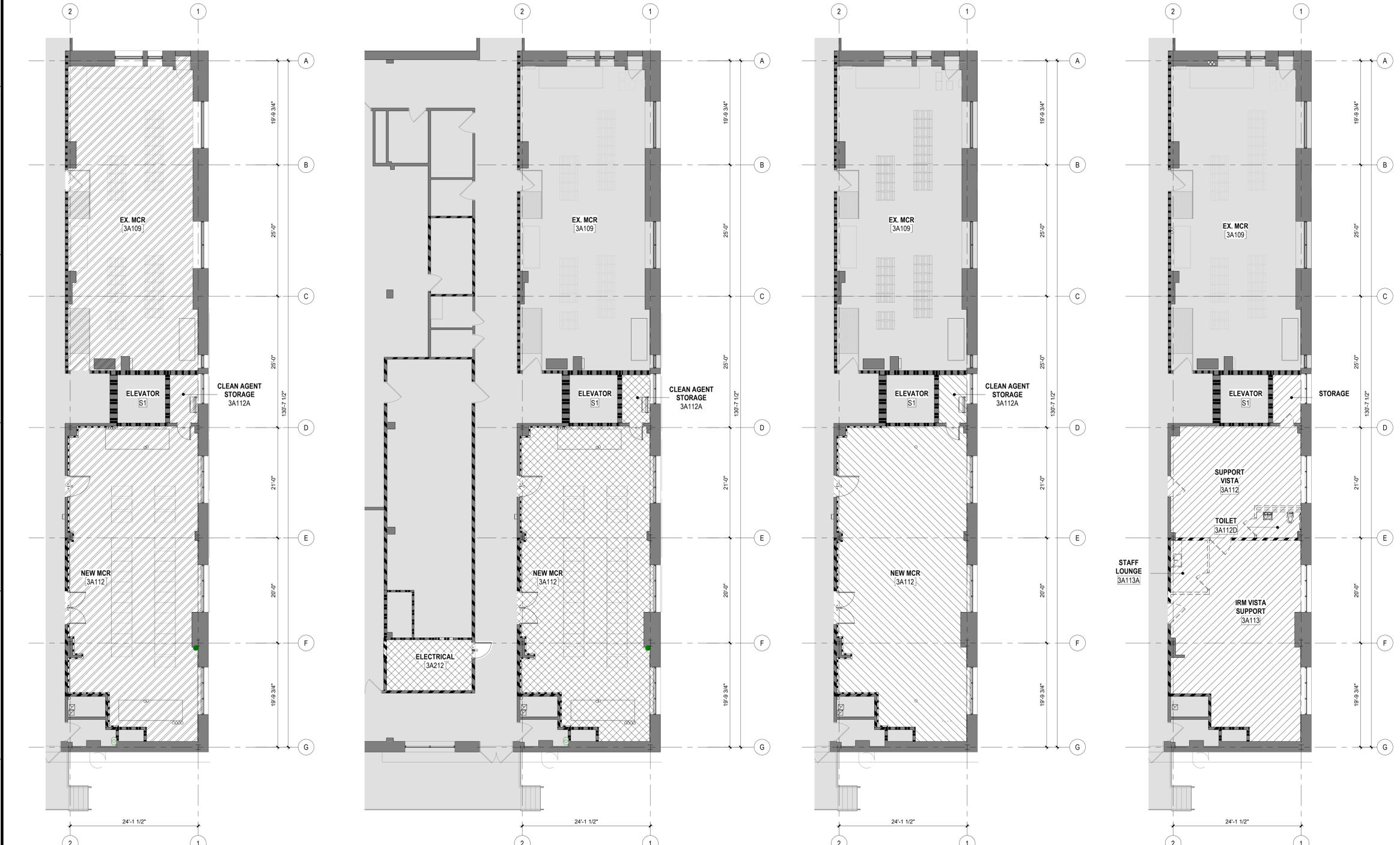
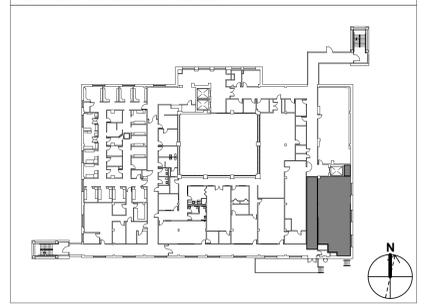
NOTE: NOT ALL SYMBOLS MAY BE USED

PHASING LEGEND & DESCRIPTIONS

ALL CONSTRUCTION PHASING IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COORDINATED WITH THE VA REGARDING ALLOWABLE WORK TIMES (DAY, NIGHT, AND WEEKEND) COORDINATE WITH THE VA AUTHORITY HAVING JURISDICTION (AHJ) FOR ANY LIFE SAFETY OR CODE RELATED MEASURES REQUIRED DURING DEMOLITION AND CONSTRUCTION TO MAINTAIN COMPLIANCE. COORDINATE WITH THE HAZARDOUS MATERIALS CONTRACTOR TO ENSURE PROPER HANDLING OF ANY AREAS IDENTIFIED WITH ASBESTOS OR LEAD-BASED PAINT. IF HAZARDOUS MATERIALS ARE PRESENT WITHIN WALL (E.G. LEAD PAINT OR ASBESTOS), THE CONTRACTOR SHALL PROVIDE ABATEMENT PROCEDURES AS REQUIRED FOR AFFECTED ROOMS AND ADJACENT AREAS. ALL PHASING SHALL BE COORDINATED WITH THE VA INCLUDING THE VA OFFICE OF INFORMATION & TECHNOLOGY (OIT), FACILITY MANAGEMENT SERVICE (FMS), AND THE AUTHORITY HAVING JURISDICTION (AHJ).

	AREA EXCLUDED IN PHASE SHOWN
	<p>PHASE 1: DEMOLITION AND PREPARATION</p> <ul style="list-style-type: none"> VACATE ROOMS AS INDICATED IN DEMOLITION DRAWINGS. DEMOLISH EXISTING WALLS, CEILING SYSTEMS, PLUMBING, HVAC, ELECTRICAL, AND TELECOMMUNICATIONS INFRASTRUCTURE. CUT NEW DOOR OPENINGS AND INFILL OPENINGS AS REQUIRED. APPLY FIREBLOCK SEALANTS TO PENETRATIONS. MAINTAIN EXISTING CABLING PATHWAYS WHERE NEEDED UNTIL REPLACEMENT SYSTEMS ARE INSTALLED.
	<p>PHASE 2: NEW MCR CONSTRUCTION</p> <ul style="list-style-type: none"> CONSTRUCT NEW 1-HOUR FIRE-RATED WALLS FOR THE MAIN COMPUTER ROOM (MCR). PERFORM MECHANICAL, ELECTRICAL, TELECOM, AND FIRE PROTECTION ROUGH-INS. FINISH MCR INTERIOR SURFACES TO CREATE SEALED, CLEAN-AGENT-COMPATIBLE ENVIRONMENT. VERIFY ENCLOSURE CONTINUITY FLOOR-TO-DECK ABOVE. APPLY DUST MITIGATION MATERIALS (GASKETED TILES, CAULKING, EPOXY COATINGS, ETC.)
	<p>PHASE 3: INFRASTRUCTURE INSTALLATION</p> <p>INSTALL:</p> <ul style="list-style-type: none"> REDUNDANT UPS SYSTEMS (LIEBERT VERTIV APM2 OR APPROVED EQUAL), DUAL AIR FEED OVERHEAD DISTRIBUTION BUSWAYS WITH L21-20 TAP BOXES MCA AND MCA CABINETS (PARTIAL) CABLE TRAY AND RACEWAY SYSTEMS BONDING AND GROUNDING (TIA-607-D COMPLIANT) SECURITY LIGHTING, CRU UNITS ON RASSED STANDS <p>ALL SYSTEMS SIZED PER ULTIMATE DESIGN CAPACITY</p> <p>WAN DEMARCATION & CARRIER CUTOVER:</p> <ul style="list-style-type: none"> INSTALL FIBER OPTIC CABLING, GEO-DIVERSELY ROUTED FROM EACH OF THE TWO EXCHANGE CARRIERS POINT OF PRESENCE IN THE EXISTING DEMARC ROOM (TELECOM ADD) TO THE NEW MCR. THESE LINKS SHALL EXTEND THE WAN DEMARCATION POINT TO THE NEW MCR. IF NEW CABINETS HAVE NOT BEEN INSTALLED PRIOR TO FIBER OPTIC CABLING FROM DEMARC IS INSTALLED, PROVIDE SERVICE LOOP AND ENCLOSURE FOR FIBER OPTIC CABLING TO KEEP SAFE DURING CONSTRUCTION UNTIL WHICH TIME THE FIBER OPTIC CABLING CAN BE TERMINATED. COORDINATE WITH THE LOCAL EXCHANGE CARRIER (LEC) FOR SERVICE HANDOFF, SPLICING, AND TERMINATION REQUIREMENTS. LABEL FIBER TYPE, TERMINATION POINTS, AND ROUTING ON FINAL TELECOM DRAWINGS.
	<p>PHASE 4: NETWORK MIGRATION, TESTING & COMMISSIONING</p> <p>CORE SWITCH MIGRATION</p> <ul style="list-style-type: none"> PHASE 1: DEPLOY CORE A IN NEW MCR. CREATE A TEMPORARY INTERCONNECT ("UMBILICAL") TO CORE B IN THE EXISTING MCR TO MAINTAIN NETWORK REDUNDANCY. PHASE 2: MIGRATE CORE B TO NEW MCR. COMPLETE PERMANENT DUAL-CORE CONFIGURATION. MIGRATION WINDOW: THE MIGRATION OF CABLING FROM THE EXISTING MCR TO THE NEW MCR FOR THE TELECOMMUNICATIONS ROOMS SHALL BE COMPLETED WITHIN THE DESIGNATED 90-DAY MIGRATION WINDOW. CORE SWITCH CONTINUITY: THE CORE SWITCHES SHALL NOT REMAIN SPLIT OR IN A TRANSITIONAL CONFIGURATION BEYOND THE 90-DAY WINDOW. ALL ASSOCIATED CONNECTIVITY MUST BE FULLY MIGRATED AND OPERATIONAL WITHIN THIS PERIOD. <p>BACKBONE FIBER MIGRATION</p> <ul style="list-style-type: none"> EXTEND BACKBONE FIBER FROM EXISTING MCR TO NEW MCR. TO BE DONE WHILE BACKBONE FOR RESPECTIVE CORE SWITCHES WHICH FEED THE BACKBONE IS BEING DEPLOYED TO NEW MCR. USE EXISTING PATHWAYS WHERE POSSIBLE. RE-TERMINATE OR FUSION SPLICED EXISTING FIBERS TO MEET TIA-568 AND IEEE STANDARDS. WHEN NECESSARY, DEPLOY TEMPORARY PARALLEL BACKBONE ROUTES TO AVOID SERVICE DISRUPTION. ALL FIBER CABLING TO BE LABELED ON BOTH ENDS PER VA OIT STANDARDS. <p>EQUIPMENT MIGRATION</p> <ul style="list-style-type: none"> COORDINATE MIGRATION OF NETWORK/SERVER EQUIPMENT CABINET MOUNTED EQUIPMENT (E.G. CERNER FDDS, IAAMS, BIOMED). PRIOR TO MOVE: INVENTORY CABINET CONTENTS. VALIDATE DESTINATION CABINET LOCATIONS AND POWER (DUAL L21-20 FEEDS). ENSURE UPS, CRU, BONDING, AND GROUNDING ARE OPERATIONAL. MIGRATE EQUIPMENT DURING LOW-USAGE WINDOWS TO REDUCE IMPACT. MAINTAIN SERVICE REDUNDANCY THROUGH TEMPORARY CROSS-PATCHING AND UMBILICAL LINKS. POST-MOVE: VERIFY CONNECTIVITY AND OPERABILITY BEFORE DECOMMISSIONING LEGACY CONNECTIONS.

KEY PLAN - BUILDING 77 - LEVEL 3



4 PHASING PLAN - BUILDING 77 - LEVEL 3 - PHASE 4 1/8" = 1'-0"
3 PHASING PLAN - BUILDING 77 - LEVEL 3 - PHASE 3 1/8" = 1'-0"
2 PHASING PLAN - BUILDING 77 - LEVEL 3 - PHASE 2 1/8" = 1'-0"
1 PHASING PLAN - BUILDING 77 - LEVEL 3 - PHASE 1 1/8" = 1'-0"

FINAL BID DOCUMENTS FULLY SPRINKLERED

<table border="1"> <tr> <th>No.</th> <th>REVISION DESCRIPTION</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	No.	REVISION DESCRIPTION	DATE				<p>CONSULTANTS:</p> <table border="0"> <tr> <td>FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 956-2965</td> <td>MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200</td> <td>STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169</td> </tr> <tr> <td>INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 11140 S. TOWNE SQUARE, #100 ST. LOUIS, MO 63123 (314) 917-0148</td> <td>PHYSICAL SECURITY FORCE PROTECT 10901 FRONT BEACH RD, #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232</td> <td>COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500</td> </tr> </table>	FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 956-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169	INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 11140 S. TOWNE SQUARE, #100 ST. LOUIS, MO 63123 (314) 917-0148	PHYSICAL SECURITY FORCE PROTECT 10901 FRONT BEACH RD, #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500	<p>ARCHITECT:</p> <p>SPUR</p> <p>SPUR DESIGN, LLC 312 SW 25TH STREET OKLAHOMA CITY, OK 73109 (405) 842-6100</p> <p>ARCH REG. NO. 71069 MECH REG. NO. 123862 ELEC REG. NO. 130235</p> <p>SPUR # 2409</p> <p>EXP. 04/30/2027 EXP. 06/30/2026 EXP. 04/30/2026</p>	<p>STAMP:</p>	<p>Drawing Title PHASING PLANS - BUILDING 77 - LEVEL 3 - MCR</p> <p>VA Health Care System Approval:</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN</p> <p>Location JAMES H. OUILLEN VAMC LAMONT ST. AND VETERANS WAY MOUNTAIN HOME, TN 37684</p> <p>Date 08/14/2025</p> <p>Checked AJS Drawn NSM</p>	<p>Project Number 621-24-701</p> <p>Building Number 77</p> <p>Drawing Number GI010</p> <p>Drawing # 04 OF 60</p>	<p>Veterans Health Administration</p> <p>U.S. Department of Veterans Affairs</p>
	No.	REVISION DESCRIPTION	DATE																
FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 956-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169																	
INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 11140 S. TOWNE SQUARE, #100 ST. LOUIS, MO 63123 (314) 917-0148	PHYSICAL SECURITY FORCE PROTECT 10901 FRONT BEACH RD, #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500																	

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot

LIFE SAFETY CODE ANALYSIS

NFPA 101-2024 CHAPTER 39 TRAVEL DISTANCE
 BUSINESS, CONCENTRATED 39.2.6.3- SHALL NOT EXCEED 300'-0"

NFPA 101-2024 CHAPTER 39 COMMON PATH OF TRAVEL
 BUSINESS, CONCENTRATED 39.2.5.2.1- SHALL NOT EXCEED 100'-0"

NFPA 101-2024 CHAPTER 39 DEAD END CORRIDOR
 BUSINESS, CONCENTRATED 39.2.5.3- SHALL NOT EXCEED 50'-0"

PROTECTED AREAS: STORAGE ROOMS/CLEAN/ISOLED:
 PER VA FIRE PROTECTION DESIGN MANUAL 3.1.A, STORAGE ROOMS ARE HAZARDOUS AREAS PER NFPA 101: 39.2.2.1, HAZARDOUS AREAS SHALL BE PROTECTED AS STATED IN SECTION 8.7. PER NFPA 101: 8.7, ANY AREA HAVING A DEGREE OF HAZARD GREATER THAN THAT NORMAL TO THE GENERAL OCCUPANCY SHALL BE PROVIDED BY ONE OF THE FOLLOWING:
 * 1 HR FIRE BARRIER OR PROTECTING THE AREA WITH AUTOMATIC EXTINGUISHING SYSTEM
 1 HR FIRE BARRIER WITH SPRINKLER PROTECTION, PROVIDED.

SMOKE COMPARTMENTALIZATION: NOT REQUIRED FOR BUSINESS OCCUPANCIES, NOT PROVIDED.
FIRE ALARM SYSTEM: REQUIRED / PROVIDED MANUAL SYSTEM.
STANDPIPES: NOT REQUIRED / NOT PROVIDED.

LIFE SAFETY LEGEND

	CLEAN AGENT FIRE EXTINGUISHER CABINET		BUILDING EXIT
	EXIT LIGHT / SIGN		DOOR CAPACITY TAG (DOOR)
	EGRESS START		DOOR CAPACITY TAG (STAIR)
	EGRESS PATH		HAZARDOUS AREAS
	HEALTHCARE, INPATIENT TREATMENT		AREA NOT IN SCOPE

NOTE: NOT ALL SYMBOLS MAY BE USED.

PARTITION LEGEND

	1 HOUR FIRE RATED		EXISTING WALL TO REMAIN
	2 HOUR FIRE RATED		NEW NON-RATED WALLS
	3 HOUR FIRE RATED		SMOKE PARTITION/BARRIER

NOTE: NOT ALL SYMBOLS MAY BE USED.



1 LIFE SAFETY PLAN - BUILDING 77 - LEVEL 3
 1/8" = 1'-0"

FINAL BID DOCUMENTS FULLY SPRINKLERED

No.	REVISION DESCRIPTION	DATE

CONSULTANTS:

FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169
INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 11140 S. TOWNE SQUARE, #100 ST. LOUIS, MO 63123 (314) 917-0148	PHYSICAL SECURITY FORCE PROTECT 10901 FRONT BEACH RD, #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500

ARCHITECT: SPUR # 2409

SPUR

SPUR DESIGN, LLC
 312 SW 25TH STREET
 Oklahoma City, OK 73109
 (405) 842-6100

ARCH REG. NO. 71069
 MECH REG. NO. 123862
 ELEC REG. NO. 130235

EXP. 04/30/2027
 EXP. 06/30/2026
 EXP. 04/30/2026

STAMP:

Drawing Title
LIFE SAFETY PLAN

VA Health Care System Approval:

Project Title EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN		
Location JAMES H. OUILLEN VAMC LAMONT ST. AND VETERANS WAY MOUNTAIN HOME, TN 37684		
Date 08/14/2025	Checked AJS	Drawn NSM

Veterans Health Administration

VA U.S. Department of Veterans Affairs

Project Number 621-24-701	Building Number 77
Drawing Number GI011	Drawing # 05 OF 60

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot

LIFE SAFETY CODE ANALYSIS

NFPA 101-2024 CHAPTER 39 TRAVEL DISTANCE
 BUSINESS, CONCENTRATED 39.2.6.3- SHALL NOT EXCEED 300'-0"

NFPA 101-2024 CHAPTER 39 COMMON PATH OF TRAVEL
 BUSINESS, CONCENTRATED 39.2.5.2.1- SHALL NOT EXCEED 100'-0"

NFPA 101-2024 CHAPTER 39 DEAD END CORRIDOR
 BUSINESS, CONCENTRATED 39.2.5.3- SHALL NOT EXCEED 50'-0"

PROTECTED AREAS: STORAGE ROOMS/CLEAN/ISOLED
 PER VA FIRE PROTECTION DESIGN MANUAL 3.1 A, STORAGE ROOMS ARE HAZARDOUS AREAS.
 PER NFPA 101: 39.3.2.1, HAZARDOUS AREAS SHALL BE PROTECTED AS STATED IN SECTION 8.7.
 TO THE GENERAL OCCUPANCY SHALL BE PROVIDED BY ONE OF THE FOLLOWING:
 • 1 HR FIRE BARRIER OR PROTECTING THE AREA WITH AUTOMATIC EXTINGUISHING SYSTEM
 1 HR FIRE BARRIER WITH SPRINKLER PROTECTION, PROVIDED.

SMOKE COMPARTMENTALIZATION: NOT REQUIRED FOR BUSINESS OCCUPANCIES, NOT PROVIDED.
 FIRE ALARM SYSTEM: REQUIRED / PROVIDED MANUAL SYSTEM.
 STANDPIPES: NOT REQUIRED / NOT PROVIDED.

LIFE SAFETY LEGEND

	CLEAN AGENT FIRE EXTINGUISHER CABINET		BUILDING EXIT
	EXIT LIGHT / SIGN		DOOR CAPACITY TAG (DOOR)
	EGRESS START		DOOR CAPACITY TAG (STAIR)
	EGRESS PATH		HAZARDOUS AREAS
	HEALTHCARE, INPATIENT TREATMENT		AREA NOT IN SCOPE

NOTE: NOT ALL SYMBOLS MAY BE USED.

PARTITION LEGEND

	1 HOUR FIRE RATED		EXISTING WALL TO REMAIN
	2 HOUR FIRE RATED		NEW NON-RATED WALLS
	3 HOUR FIRE RATED		SMOKE PARTITION/BARRIER

NOTE: NOT ALL SYMBOLS MAY BE USED.



1 LIFE SAFETY PLAN - BUILDING 77 - LEVEL 3 - DURING CONSTRUCTION
 1/8" = 1'-0" 2/AE101

FINAL BID DOCUMENTS FULLY SPRINKLERED

<table border="1"> <thead> <tr> <th>No.</th> <th>REVISION DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	No.	REVISION DESCRIPTION	DATE										<p>CONSULTANTS:</p> <table border="0"> <tr> <td> <p>FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965</p> </td> <td> <p>MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200</p> </td> <td> <p>STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169</p> </td> </tr> <tr> <td> <p>INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 11140 S. TOWNE SQUARE, #100 ST. LOUIS, MO 63123 (314) 917-0148</p> </td> <td> <p>PHYSICAL SECURITY FORCE PROTECT 10001 FRONT BEACH RD, #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232</p> </td> <td> <p>COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500</p> </td> </tr> </table>	<p>FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965</p>	<p>MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200</p>	<p>STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169</p>	<p>INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 11140 S. TOWNE SQUARE, #100 ST. LOUIS, MO 63123 (314) 917-0148</p>	<p>PHYSICAL SECURITY FORCE PROTECT 10001 FRONT BEACH RD, #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232</p>	<p>COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500</p>	<p>ARCHITECT:</p> <p>SPUR</p> <p>SPUR DESIGN, LLC 312 SW 25TH STREET Oklahoma City, OK 73109 (405) 842-6100</p> <p>ARCH REG. NO. 71069 MECH REG. NO. 123862 ELEC REG. NO. 130235</p> <p>SPUR # 2409</p> <p>EXP. 04/30/2027 EXP. 06/30/2026 EXP. 04/30/2026</p>	<p>STAMP:</p>	<p>Drawing Title LIFE SAFETY PLAN - DURING CONSTRUCTION</p> <p>VA Health Care System Approval:</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN</p> <p>Location JAMES H. OUILLEN VAMC LAMONT ST. AND VETERANS WAY MOUNTAIN HOME, TN 37684</p>	<p>Project Number 621-24-701</p> <p>Building Number 77</p> <p>Drawing Number GI012</p> <p>Drawing # 06 OF 60</p>	<p>Veterans Health Administration</p> <p>VA U.S. Department of Veterans Affairs</p>
	No.	REVISION DESCRIPTION	DATE																						
<p>FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965</p>	<p>MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200</p>	<p>STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169</p>																							
<p>INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 11140 S. TOWNE SQUARE, #100 ST. LOUIS, MO 63123 (314) 917-0148</p>	<p>PHYSICAL SECURITY FORCE PROTECT 10001 FRONT BEACH RD, #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232</p>	<p>COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500</p>																							
<p>Date 08/14/2025</p>	<p>Checked AJS</p>	<p>Drawn NSM</p>																							

03 Abbreviation Schedule	
Abbreviation	Abbreviation Name
+	PLUS OR MINUS
ADJL	ADJACENT
ADNL	ADDITIONAL
AE	ARCHITECTURALLY EXPOSED
AS	STRUCTURAL STEEL
AF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
AR	ANCHOR ROD
ARCH	ARCHITECT OR ARCHITECTURAL
B	BOTTOM OF
BW	BETWEEN
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BTM	BOTTOM
BRG	BEARING
BWP	BRACED WALL PANEL
CFS	COLD FORMED STEEL
CHKD	CHECKED
CP	CAST IN PLACE
CJ	CONTROL JOINT
CP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CRU	COMPUTER ROOM UNIT
CTR	CENTER
db	DIA OF REIN BAR, DIA OF BOLT
DBA	DEFORMED BAR ANCHOR
Dia or Ø	DIAMETER
DIAG	DIAGONAL
DIR	DIRECTION
DWL	DOWEL
EA	EACH
EE	EXTENDED END
EJ	EXPANSION JOINT
ELEV	ELEVATION
EN	EDGE NAILING
ENGR	ENGINEER
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL
ERU	ENERGY RECOVERY UNIT
EW	EACH WAY
EXIST	EXISTING
EXT	EXTERIOR
FN	FOUNDATION
FLG	FLANGE
FLR	FLOOR
FS	FAR SIDE
FTG	FOOTING
FV	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSS	HOLLOW STRUCTURAL SECTION
IF	INSIDE FACE
INT	INTERIOR
JST	JOIST
K	KIPS (1000 LBS)
LCE	COMPRESSION EMBEDMENT LENGTH
LCS	COMPRESSION LAP SPlice LENGTH
LH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LH	LONG SLOTTED HOLE
LSE	TENSION EMBEDMENT LENGTH
LTS	TENSION LAP SLICE LENGTH
LWS	LIGHTWEIGHT
MPCR	MANUFACTURER
MTL	METAL
NIC	NOT IN CONTRACT
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OP	OUTSIDE FACE
OPP	OPPOSITE
OVS	OVERSIZED
PIC	PRECAST
PAF	POWDER ACTUATED FASTENER
PAR	PARALLEL
PEMB	PRE-ENGINEERED METAL BUILDING
PEN	PENETRATION
PERP	PERPENDICULAR
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PREFAB	PREFABRICATED
PRELIM	PRELIMINARY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
RC	REINFORCED CONCRETE
RE	REFER TO
REIN	REINFORCING
REQD	REQUIRED
RF	RIGID FRAME
SC	SLIP CRITICAL
SDS	SELF DRILLING SCREW
SIM	SIMILAR
SLV	SHORT LEG VERTICAL
SO	SLAB ON GRADE
SO	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STR	STRUTS
STL	STEEL
SW	SHEAR WALL
SYM	SYMMETRIC
T&B	TOP AND BOTTOM
T	TOP OF
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W	WITH
WO	WITHOUT
WF	WIDE FLANGE
WP	WORK POINT
WWR	WELDED WIRE REINFORCEMENT

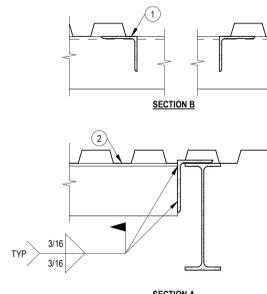
- STRUCTURAL DESIGN CRITERIA (2024 IBC AND ASCE 7-22):**
- 1. BUILDING OCCUPANCY RISK CATEGORY:**
 BUILDING 77: CRITICAL - IV
 BUILDING 204: CRITICAL - IV
- 2. LIVE LOADS (UNIFORM (PSF) / POINT LOADS (KIPS)):**
 - ROOF: 20 PSF / 300K
 - OFFICES: 50 PSF / 15 PSF PARTITIONS/2.5 K
 - COMPUTER ROOM: 200 PSF / 2.5 K
- 3. ROOF SNOW LOAD:**
 - GROUND SNOW LOAD (Pg): 46 PSF
 - MINIMUM SNOW LOAD (Pm): 40 PSF (NO DRIFT OR RAIN)
 - FLAT ROOF SNOW LOAD (Ps) - DRIFT PER CODE
 - SNOW EXPOSURE FACTOR (Ce): 1.0
 - THERMAL FACTOR (Ct): 1.1
 - SLOPE FACTOR (Cs): 1.0
- 4. WIND DESIGN DATA:**
 - BASIC WIND SPEED (3 SEC GUST): 118 MPH
 - AS5 WIND SPEED (VASD): 92 MPH
 - WIND EXPOSURE: C
 - GROUND ELEVATION ABOVE SEA LEVEL: 1.873 FT
 - DIRECTIONALITY FACTOR (Kd): 0.85
 *BUILDING IS LOCATED IN A SPECIAL WIND REGION. CONSULT THE AHI IF INFORMATION IS NEEDED FOR COMPONENT WIND DESIGN.
- 5. EARTHQUAKE DESIGN DATA:**
 - SEISMIC IMPORTANCE FACTOR (Ih): 1.5
 - MAPPED SPECTRAL RESP ACCEL (Ss / S1): 0.34 / 0.094
 - SITE CLASS: D (ASSUMED)
 - SPECTRAL RESPONSE COEFF (Sd1 / Sd2): 0.26 / 0.13
 - SEISMIC DESIGN CATEGORY: D
- 6. RAIN LOAD DATA:**
 - 15-MIN RAIN INTENSITY: 6.17 IN/HR
 - 60-MIN RAIN INTENSITY: 3.52 IN/HR

- STRUCTURAL GENERAL NOTES:**
1. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE "INTERNATIONAL BUILDING CODE, 2024 EDITION" AS AMENDED BY THE VA AND ALL APPLICABLE VA DESIGN DOCUMENTS. REFER TO THE SPECIAL STRUCTURAL INSPECTION NOTES FOR ADDITIONAL REQUIREMENTS.
2. CONTRACTOR TO VERIFY ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO COMMENCING WORK.
3. IF DISCREPANCIES EXIST BETWEEN STRUCTURAL PLANS, ARCHITECTURAL PLANS, OTHER PLANS, OR SPECIFICATIONS, THE CONTRACTOR OR SUBCONTRACTOR SHALL PROVIDE A WRITTEN REQUEST FOR CLARIFICATION FROM THE ARCHITECT AND/OR ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
4. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO EXECUTE AND DETERMINE FINAL ERECTION PROCEDURES, SEQUENCING AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES WHATEVER SHORING, SHEETING, TEMPORARY BRACING, CUTTING OR THE DOWNS WHICH MIGHT BE NECESSARY.
5. THE STRUCTURE AND FOUNDATIONS ARE NOT DESIGNED FOR FUTURE EXPANSION.
6. FABRICATORS AND SUPPLIERS SHALL CLEARLY NOTE AND HIGHLIGHT CHANGES MADE IN SHOP DRAWINGS, WHICH DO NOT COMPLY WITH THE CONTRACT DOCUMENTS.
7. COLUMNS, BEAMS, JOISTS OR TRUSSES SHALL NOT BE FIELD CUT OR TRIMMED FOR ANY REASON WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
8. HOLES, PIPES, SLEEVES, ETC. NOT SHOWN ON THE DRAWINGS MUST BE REVIEWED BY THE ARCHITECT/ENGINEER BEFORE PLACEMENT THROUGH STRUCTURAL MEMBERS.
9. IF MECHANICAL AND ELECTRICAL EQUIPMENT SIZES, WEIGHTS, OR LOCATIONS DO NOT COINCIDE WITH EQUIPMENT SHOWN ON THE PLANS, COORDINATE ADJUSTMENTS WITH THE ARCHITECT.
10. NO AREA OF THE STRUCTURE SHALL BE LOADED WITH CONSTRUCTION MATERIALS OR EQUIPMENT THAT EXCEEDS FINAL DESIGN CRITERIA.
11. BEAMS, COLUMNS, WALLS AND FOOTING CENTERS SHALL BE CENTERED UNDER SUPPORTING MEMBERS (TYPICAL UNLESS NOTED OTHERWISE).
12. DELEGATED DESIGN - DEFERRED SUBMITTALS SHALL BE SIGNED/ SEALED PRIOR TO SUBMITTAL TO THE JURISDICTION OF THE PROJECT SHALL BE FURNISHED TO THE ENGINEER OF RECORD FOR REVIEW. CONTRACTOR SHALL SUBMIT COPIES OF DEFERRED SUBMITTALS TO BUILDING DEPARTMENT AFTER ARCHIVING REVIEW.
13. TYPICAL DETAILS ARE SHOWN ON THIS SHEET. THE INCLUDED TYPICAL DETAILS MAY OR MAY NOT BE CUT / REFERENCED ON PLANS OR SECTIONS, BUT ARE TO BE USED AS APPLICABLE.

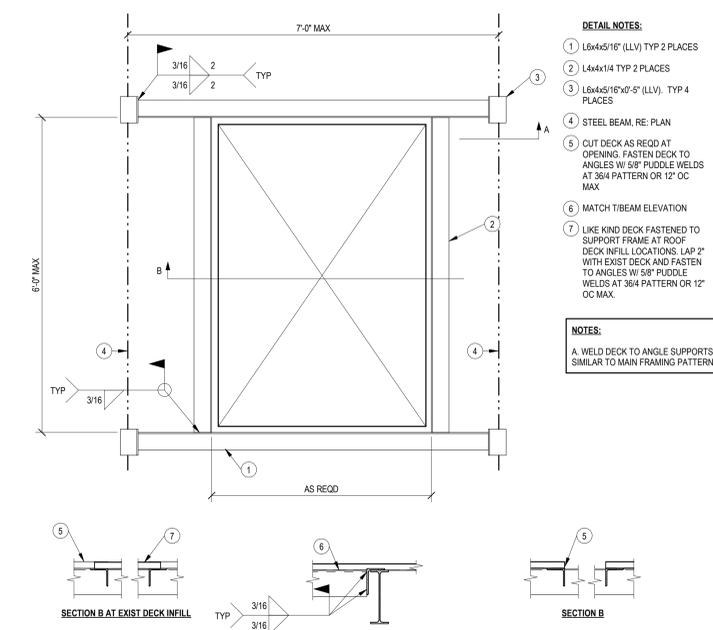
- SUBMITTALS:**
1. GENERAL CONTRACTOR TO PROVIDE A SHOP DRAWING SUBMITTAL LOG AND SUBMITTAL SCHEDULE ITEMIZING ALL PROPOSED SUBMITTALS FOR APPROVAL BY STRUCTURAL ENGINEER OF RECORD.
2. ALL SHOP DRAWINGS SHALL BE CHECKED BY THE FABRICATOR AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD. SHOP DRAWING REVIEW BY ENGINEER IS LIMITED TO VERIFYING GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES FROM THE CONTRACT DOCUMENTS, DIMENSIONAL ERRORS, COORDINATION ERRORS, OR OMISSIONS IN SHOP DRAWINGS. EOR IS NOT RESPONSIBLE FOR ANY DELAYS CAUSED BY THESE REQUIREMENTS NOT BEING MET.
3. SHOP DRAWINGS SHALL INCLUDE CONNECTIONS AS WELL AS SIZE, SPACING, AND GRADE OF ALL MEMBERS AND MATERIALS. PLANS AND ANY DETAILING NECESSARY FOR DETERMINING FIT AND PLACEMENT SHALL ALSO BE INCLUDED.
4. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO REVIEW AND APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD PRIOR TO RELEASE FOR FABRICATION AND CONSTRUCTION.
5. DESIGN DRAWINGS, SHOP DRAWINGS, AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY THE CONTRACTOR SHALL BEAR THE SEAL AND SIGNATURE OF AN ENGINEER REGISTERED IN THE APPROPRIATE STATE AND SHALL BE SUBMITTED TO THE ARCHITECT / ENGINEER PRIOR TO FABRICATION AND CONSTRUCTION. CALCULATIONS SHALL BE INCLUDED FOR ALL CONNECTIONS TO THE STRUCTURE, CONSIDERING LOCALIZED EFFECTS ON STRUCTURAL ELEMENTS INDUCED BY THE CONNECTION LOADS. ITEMS THAT ARE DESIGNED BY THE CONTRACTOR SHALL BE DESIGNED TO RESIST THE LIVE LOADS INDICATED IN STRUCTURAL NOTES. DEAD LOAD, SELF WEIGHT, ANY ADDITIONAL LOADING INDICATED ON PLANS AND DETAILS, SNOW DRIFT, AND A NET WIND UPLIFT. THESE ITEMS DESIGNED BY THE CONTRACTOR SHALL INCLUDE ANY RELEVANT TECHNICAL LITERATURE FROM THE MANUFACTURER, SUCH AS ICES REPORTS DEMONSTRATING CODE COMPLIANCE.
6. FIELD ENGINEERED DETAILS DEVELOPED BY THE CONTRACTOR THAT DIFFER FROM OR ADD TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO REVIEW AND APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD PRIOR TO RELEASE FOR FABRICATION AND CONSTRUCTION.
7. UNLESS DICTATED OTHERWISE BY THE CONTRACT DOCUMENTS, THE ENGINEER SHALL HAVE A MINIMUM OF 10 WORKING DAYS FROM RECEIPT OF SHOP DRAWINGS FOR REVIEW AND SHALL HAVE A MINIMUM OF 3 WORKING DAYS FOR REVISIONS.
8. SEE MATERIAL SPECIFIC SECTIONS IN THE GENERAL NOTES FOR REQUIRED SHOP DRAWINGS AND CALCULATIONS TO BE SUBMITTED.
9. THE CONTRACTOR SHALL COORDINATE SEISMIC RESTRAINTS AND BRACING OF ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT, MACHINERY, AND ASSOCIATED PIPING WITH THE STRUCTURE. ANY CONNECTIONS TO STRUCTURE SHALL CONFORM TO ASCE 7, CHAPTER 13 AND SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE APPROPRIATE STATE AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION.

- SPECIAL INSPECTIONS:**
1. PROVIDE SPECIAL STRUCTURAL INSPECTIONS AND VERIFICATIONS BY A THIRD PARTY MEETING THE REQUIREMENTS OF CHAPTER 17 OF THE BUILDING CODE AND THE BUILDING OFFICIAL.
2. SPECIAL INSPECTORS SHALL BE QUALIFIED AND FURNISH THEIR REPORTS IN A TIMELY MANNER TO THE CONTRACTOR, BUILDING OFFICIALS, ARCHITECT, AND/OR ENGINEER.
3. SHOULD INSPECTOR IDENTIFY ANY DISCREPANCY, THEY SHALL NOTIFY CONTRACTOR FIRST, AND THEN ARCHITECT/ENGINEER IMMEDIATELY THEREAFTER IF CORRECTIVE ACTION IS NEEDED.
4. SPECIAL INSPECTIONS AS REQUIRED BY CODE:
 A. SEISMIC ANCHORAGE AND BRACING FOR NONSTRUCTURAL COMPONENTS: SECTION 1705.12 AND 1705.13
- STRUCTURAL STEEL:**
1. STRUCTURAL STEEL SHAPES AND PLATE MATERIAL REQUIREMENTS (TYPICAL UNLESS NOTED OTHERWISE):
 A. WIDE FLANGE SHAPES - ASTM A992 (FY = 50 KSI MIN.)
 B. CHANNELS, ANGLES, AND PLATES - ASTM A36 (FY = 36 KSI MIN.)
 C. ROUND HSS - ASTM A500, GR B (FY = 42 KSI)
 D. RECTANGULAR HSS - ASTM A500, GR B (FY = 46 KSI)
 E. PIPE - ASTM A53, GR B (FY = 35 KSI)
 F. ANCHOR RODS - ASTM F1554 (FY = 36 KSI MIN.)
 G. ADHESIVE ANCHORS - SIMPSON SET-3G, HILTI HIT-HY 200, OR EQUIVALENT
2. STRUCTURAL STEEL SHALL BE NEW AND MEET THE 16TH EDITION A.I.S.C. "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS AND BRIDGES" AND THE "CODE OF STANDARD PRACTICES FOR STEEL BUILDINGS AND BRIDGES" EXCLUDING SECTION 4.4.1 B. STRUCTURAL STEEL THROUGHOUT THE PROJECT HAS BEEN DESIGNED USING ASD DESIGN METHODOLOGY. SUBMIT SHOP DRAWINGS FOR STRUCTURAL STEEL PER THE SUBMITTAL REQUIREMENTS SECTION.
3. THE STRUCTURAL STEEL FABRICATOR SHALL BE AN ALSO QUALITY CERTIFIED COMPANY FOR THE CATEGORY OF WORK IN THIS PROJECT OR PROVIDE A QUALITY ASSURANCE PLAN AND SPECIAL INSPECTIONS AS DEFINED IN THE CODE.
4. USE STANDARD AISC FRAMING CONNECTIONS WITH GROUP A/AN GROUP 120-N (E.G. A325-N), F436 WASHERS, AND A563 HEAVY-HEX NUTS AS REQUIRED, UNLESS NOTED OTHERWISE.
5. STEEL BEAMS SHALL BE FABRICATED WITH MILL CAMBER UP.
6. WELDING SHALL CONFORM TO THE CURRENT AND APPLICABLE AWS STANDARDS AND BE COMPLETED BY AN AWS CERTIFIED WELDER. ALL WELDS SHALL USE E70xx ELECTRODES. SHOP DRAWINGS SHALL SHOW FIELD WELDS, AS APPROPRIATE:
 A. AWS D1.1 - STRUCTURAL WELDING CODE - STEEL
 B. AWS D1.3 - STRUCTURAL WELDING CODE - SHEET STEEL
 C. AWS D1.6 - STRUCTURAL WELDING CODE - STAINLESS STEEL
7. WELD SIZES SHALL BE INCREASED TO MEET THE REQUIRED EFFECTIVE THROAT WIDTH IF GAPS EXIST AT THE FAYING SURFACE.
8. NO COLUMN OR BEAM SPLICES, UNLESS CLEARLY INDICATED ON THE STRUCTURAL DRAWINGS, WILL BE ALLOWED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
9. GROUT WHERE INDICATED ON PLANS AT BASE PLATES SHALL BE NON-METALLIC NON-SHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI AT 28 DAYS CONFORMING TO ASTM C1107.
10. ALL POST-INSTALLED ANCHORS WHERE NOTED SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE OR HILTI, INC. AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS. SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL WITH APPROPRIATE ICES EVALUATION REPORTS.
11. ALL STEEL AND ASSOCIATED FASTENERS NOT PROTECTED FROM WEATHER OR WHOLLY WITHIN A CONDITIONED SPACE (INCLUDING ALL MASONRY LINTELS) SHALL BE HOT DIPPED GALVANIZED PER ASTM A123.
12. CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL FIELD VERIFICATION PRIOR TO PRODUCTION OF SHOP DRAWINGS OR FABRICATION OF STRUCTURAL ELEMENTS. ARCHITECT / ENGINEER WILL RETURN REJECTED ANY SUBMITTAL REQUESTING FIELD VERIFICATION OF EXISTING CONDITIONS OR DIMENSIONS.

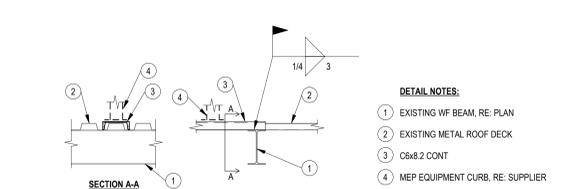
- POST-INSTALLED ANCHORS**
1. SCREW ANCHORS SHALL BE SIMPSON STRONG-TIE TITEN HD, ICC ESR-2713. HOLES SHALL BE DRILLED INTO CONCRETE OR MASONRY AND NOT CORED. IF REINFORCING IS ENCOUNTERED DURING DRILLING THE HOLE SHALL BE MOVED TO NOT FOLL WITH REINFORCEMENT. ANCHOR EMBEDMENT SHALL BE TO DEPTH SPECIFIED IN THE DRAWINGS. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS INCLUDING THOSE FOR PROPER DRILL SIZE, HOLE CLEANING PROCEDURES, AND INSTALLATION.
2. EPOXY ADHESIVE USED TO ANCHOR REBAR OR THREADED RODS SHALL BE SIMPSON STRONG-TIE SET-3G, ICC ESR-4027. HOLES SHALL BE DRILLED INTO CONCRETE OR MASONRY AND NOT CORED. IF REINFORCING IS ENCOUNTERED DURING DRILLING THE HOLE SHALL BE MOVED TO NOT FOLL WITH REINFORCEMENT. ANCHOR EMBEDMENT SHALL BE TO DEPTH SPECIFIED IN THE DRAWINGS. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS INCLUDING THOSE FOR PROPER DRILL SIZE, HOLE CLEANING PROCEDURES, AND INSTALLATION. WHEN POSSIBLE, HORIZONTAL HOLES SHALL BE SLIGHTLY INCLINED TO ENCOURAGE FLOW OF ADHESIVE.



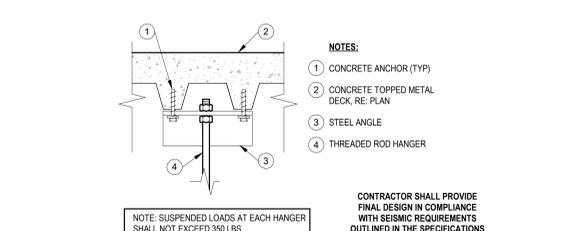
5 ROOF OPENING - SECTION
 1 1/2" = 1'-0"



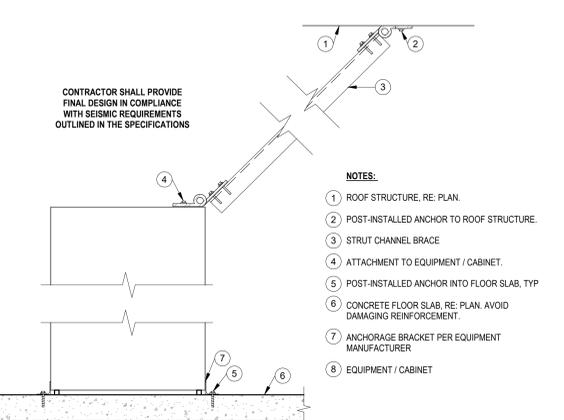
4 ROOF OPENING
 3/4" = 1'-0"



3 DECK REIN AT MEP EQUIPMENT ABOVE DECK DETAIL
 3/4" = 1'-0"



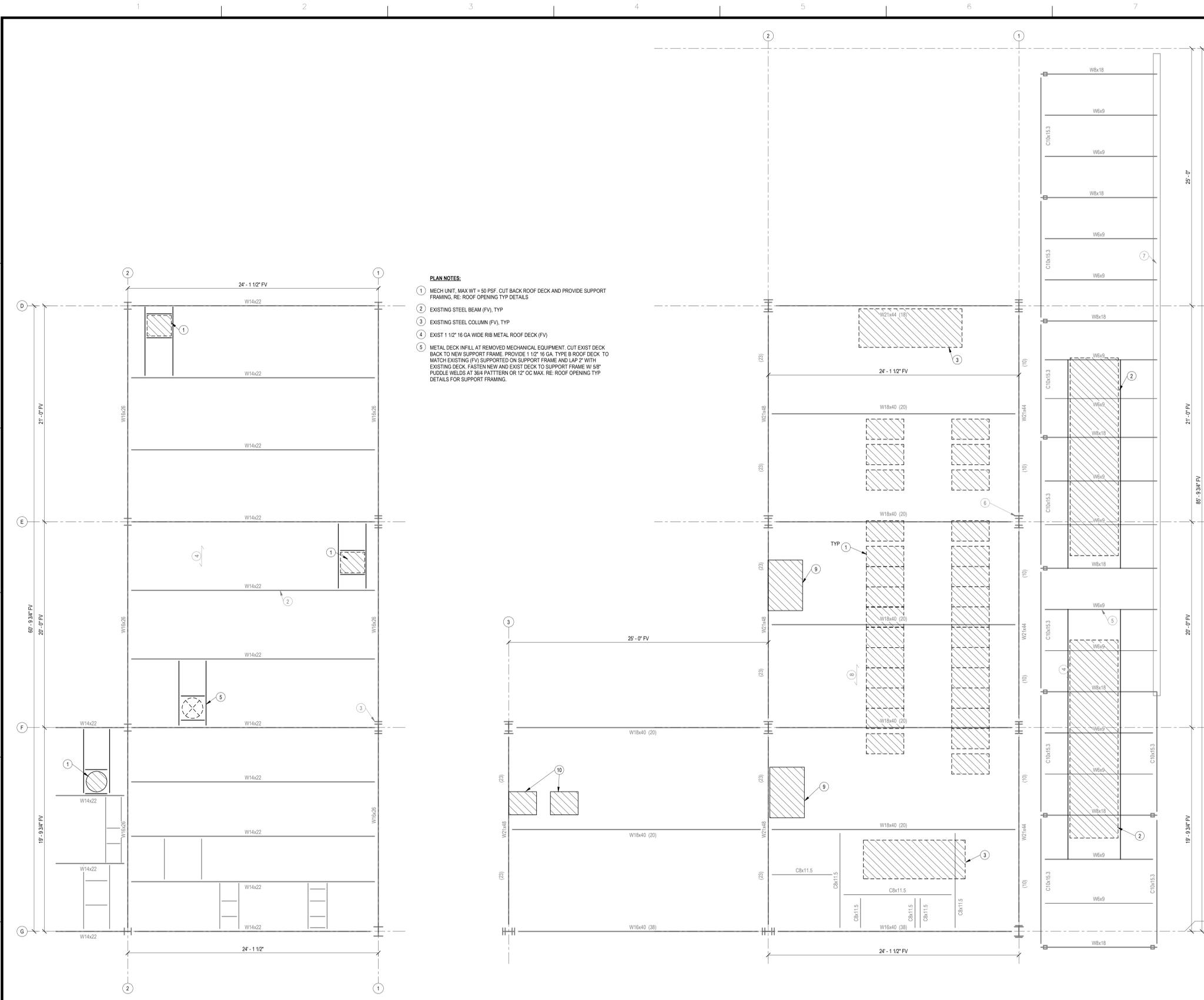
2 CONCEPTUAL HANGER ATTACHMENT DETAIL
 1 1/2" = 1'-0"



1 CONCEPTUAL EQUIPMENT BRACING AND ANCHORAGE DETAILS
 3/4" = 1'-0"

CONSULTANTS: FIRE PROTECTION ENGINEER: MEPT/TELECOM ENGINEER RATED ENGINEERING: SPUR DESIGN 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 956-2965 INDUSTRIAL HYGIENIST: PHYSICAL SECURITY RIVERFRONT SAFETY & HEALTH 11140 S. TOWNE SQUARE, #110 ST. LOUIS, MO 63123 (314) 917-0148 FORCE PROTECT 10901 FRONT BEACH RD. #1415 ST. LOUIS, MO 63123 (502) 836-4232		ARCHITECT: 2409 SPUR DESIGN, LLC 312 SW 25TH STREET Oklahoma City, OK 73109 (405) 842-6100 ARCH REG. NO. 71069 10001 FRONT BEACH RD. #1415 ST. LOUIS, MO 63123 (314) 917-0148 EXP. 04/30/2027 EXP. 06/30/2026 EXP. 04/30/2026		STAMP: 		Drawing Title STRUCTURAL GENERAL NOTES VA Health Care System Approval:		Project Title EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN Location: JAMES H. OUILLEN VAMC LAMONT ST. AND VETERANS WAY MOUNTAIN HOME, TN 37684 Date: 08/14/2025 Checked: PWS Drawn: SEH		Project Number 621-24-701 Building Number 77, 204 Drawing Number S001 Drawing # 08 OF 60		Veterans Health Administration 	
---	--	---	--	-------------------	--	---	--	---	--	--	--	---	--

one eighth inch = one foot
 one quarter inch = one foot
 three eighths inch = one foot
 one half inch = one foot
 three quarters inch = one foot
 one inch = one foot
 one and one half inches = one foot
 three inches = one foot



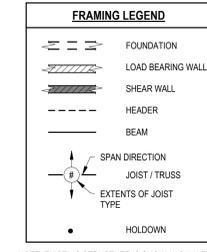
- PLAN NOTES:**
- SERVER TYP, MAX WT = 140 PSF
 - MECH UNIT, MAX WT = 75 PSF, RE: DETAIL 3/S001 FOR ABOVE DECK REINF FOR EQUIPMENT ATTACHMENT
 - MECH UNIT, MAX WT = 100 PSF
 - EXIST 1 1/2" 20 GA (TYPE IR) METAL ROOF DECK (FV)
 - EXISTING STEEL BEAM (FV), TYP
 - EXISTING STEEL COLUMN (FV), TYP
 - EXIST LOAD BEARING ADJACENT BUILDING WALL (FV)
 - EXIST 3 1/4" LIGHTWEIGHT CONCRETE SLAB OVER 3" METAL DECK W/ 3" LIGHTWEIGHT CONC TOPPING SLAB (9 1/4" TOTAL THICKNESS) (FV)
 - ELECTRICAL EQUIPMENT, MAX WT = 330 PSF, RE: ELECTRICAL
 - ELECTRICAL EQUIPMENT, MAX WT = 130 PSF, RE: ELECTRICAL

- SHEET NOTES:**
- REFERENCE SHEET S001 FOR STRUCTURAL GENERAL NOTES, REVIEW NOTES & DETAILS FOR APPLICABILITY.
 - SEE ARCHITECTURAL DRAWING FOR DETAILS & DIMENSIONS NOT SHOWN.
 - ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO PROCEEDING WITH THE WORK.
 - CONTRACTOR SHALL NOT DEMOLISH, CUT OR OTHERWISE DAMAGE ANY BEAM, JOIST, COLUMN, DECK, SLAB OR ANY OTHER STRUCTURAL ELEMENT UNLESS SO INDICATED ON THE CONSTRUCTION DOCUMENTS. CONTACT STRUCTURAL ENGINEER OF RECORD FOR APPROVAL IF ADDITIONAL DEMOLITION OF STRUCTURAL ELEMENTS IS REQUIRED.
 - DENOTES MEP EQUIPMENT, RE: PLAN FOR MAXIMUM LOADING INFORMATION

PARTITION LEGEND

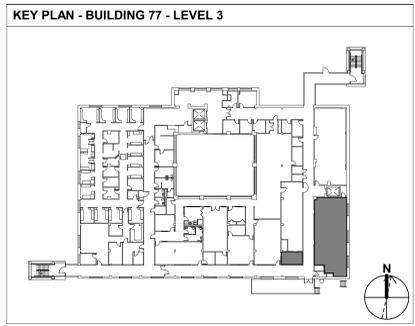
	1 HOUR FIRE RATED		EXISTING WALL TO REMAIN
	2 HOUR FIRE RATED		NEW NON-RATED WALLS
	3 HOUR FIRE RATED		SMOKE PARTITION BARRIER

NOTE: NOT ALL SYMBOLS MAY BE USED



2 B77 - ROOF - AREA A - ROOF FRAMING PLAN
 1/4" = 1'-0"

1 B77 - LEVEL 3 - MCR - FRAMING PLAN
 1/4" = 1'-0"



No. REVISION DESCRIPTION DATE 8/12/2025 12:28:25 PM	CONSULTANTS: FIRE PROTECTION ENGINEER: RIVERFRONT SAFETY & HEALTH RATED ENGINEERING: SPUR DESIGN INDUSTRIAL HYGIENIST: FORCE PROTECT MEP/TELECOM ENGINEER: SPUR DESIGN PHYSICAL SECURITY: FORCE PROTECT STRUCTURAL ENGINEER: STAND STRUCTURAL ENGINEERING STRUCTURAL ENGINEER: OVERLAND PARK, KS COMMISSIONING: ES2			ARCHITECT: 2409 SPUR SPUR DESIGN, LLC 312 SW 25TH STREET Oklahoma City, OK 73109 (405) 842-6100 ARCH REG. NO. 71069 MECH REG. NO. 123862 ELEC REG. NO. 130235 EXP. 04/30/2027 EXP. 06/30/2026 EXP. 04/30/2026	STAMP: JOHN E. FUNK REGISTERED ENGINEER STATE OF TENNESSEE 08/14/25	Drawing Title STRUCTURAL ENLARGED FRAMING PLANS VA Health Care System Approval:	Project Title EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN Location: JAMES H. OUILLEN VAMC LAMONT ST. AND VETERANS WAY MOUNTAIN HOME, TN 37684 Date: 08/14/2025 Checked: PWS Drawn: SEH	Project Number: 621-24-701 Building Number: 77, 204 Drawing Number: SF101 Drawing # 09 OF 60	Veterans Health Administration VA U.S. Department of Veterans Affairs
	FINAL BID DOCUMENTS FULLY SPRINKLERED								

SHEET NOTES:

A. REFERENCE SHEET S001 FOR STRUCTURAL GENERAL NOTES. REVIEW NOTES & DETAILS FOR APPLICABILITY.

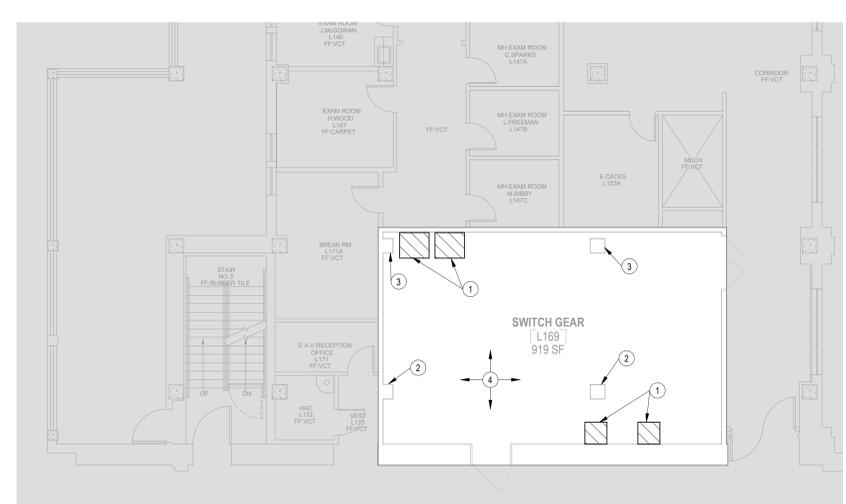
B. SEE ARCHITECTURAL DRAWING FOR DETAILS & DIMENSIONS NOT SHOWN.

C. ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO PROCEEDING WITH THE WORK.

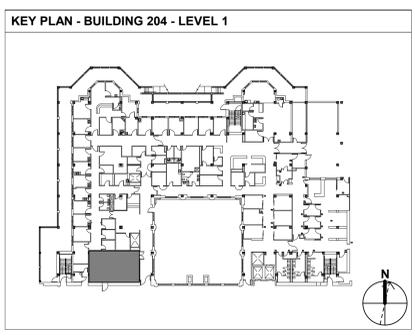
D. CONTRACTOR SHALL NOT DEMOLISH, CUT OR OTHERWISE DAMAGE ANY BEAM, JOIST, COLUMN, DECK, SLAB OR ANY OTHER STRUCTURAL ELEMENT UNLESS SO INDICATED ON THE CONSTRUCTION DOCUMENTS. CONTACT STRUCTURAL ENGINEER OF RECORD FOR APPROVAL IF ADDITIONAL DEMOLITION OF STRUCTURAL ELEMENTS IS REQUIRED.

E. DENOTES MEP EQUIPMENT, RE: PLAN FOR MAXIMUM LOADING INFORMATION

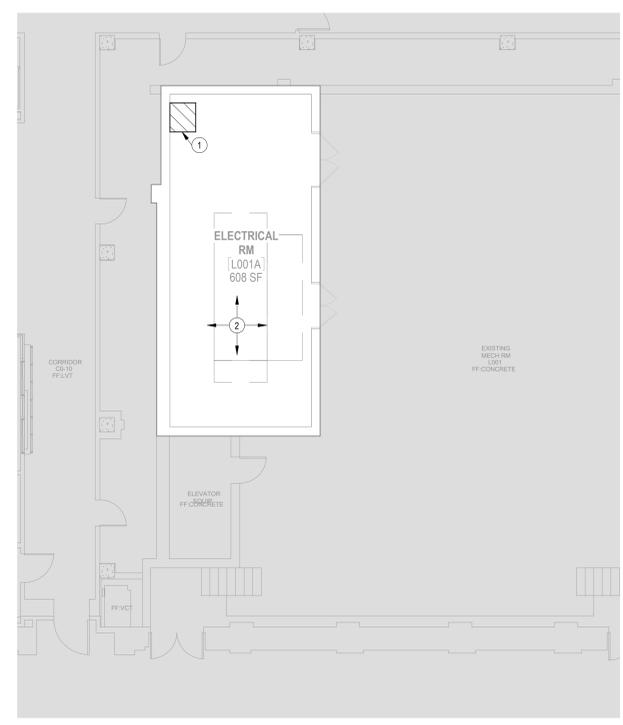
one eighth inch = one foot
 one quarter inch = one foot
 three eighths inch = one foot
 one half inch = one foot
 one inch = one foot
 one and one half inches = one foot
 three inches = one foot
 six inches = one foot



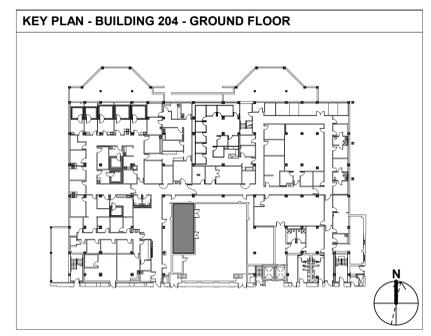
- PLAN NOTES:**
- 1 ELECTRICAL EQUIPMENT MAX WT. = 100 PSF, RE: ELECTRICAL
 - 2 EXISTING 24"x24" CONC COOL. (FV)
 - 3 EXISTING 20"x20" CONC COOL. (FV)
 - 4 EXISTING 8" THICK TWO-WAY CONCRETE SLAB TYP. (FV)



1 B204 - LEVEL 1 - FRAMING PLAN
 1/8" = 1'-0"



- PLAN NOTES:**
- 1 ELECTRICAL EQUIPMENT MAX WT. = 130 PSF, RE: ELECTRICAL
 - 2 EXIST CONC SLAB ON GRADE. (FV)



2 B204 - GROUND - FOUNDATION PLAN
 1/8" = 1'-0"

FINAL BID DOCUMENTS FULLY SPRINKLERED

No.	REVISION DESCRIPTION	DATE

CONSULTANTS:

FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169
INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 11140 S. TOWNE SQUARE, #100 ST. LOUIS, MO 63123 (314) 917-0148	PHYSICAL SECURITY FORCE PROTECT 10901 FRONT BEACH RD. #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500

ARCHITECT: 2409

SPUR

SPUR DESIGN, LLC
 312 SW 25TH STREET
 Oklahoma City, OK 73109
 (405) 842-6100

ARCH REG. NO. 71069 EXP. 04/30/2027
 MECH REG. NO. 123862 EXP. 06/30/2026
 ELEC REG. NO. 130235 EXP. 04/30/2026

STAMP:

JOHN E. FUNK
 REGISTERED ENGINEER
 STATE OF TENNESSEE
 08/14/25

Drawing Title: **STRUCTURAL ENLARGED FRAMING PLANS**

VA Health Care System Approval:

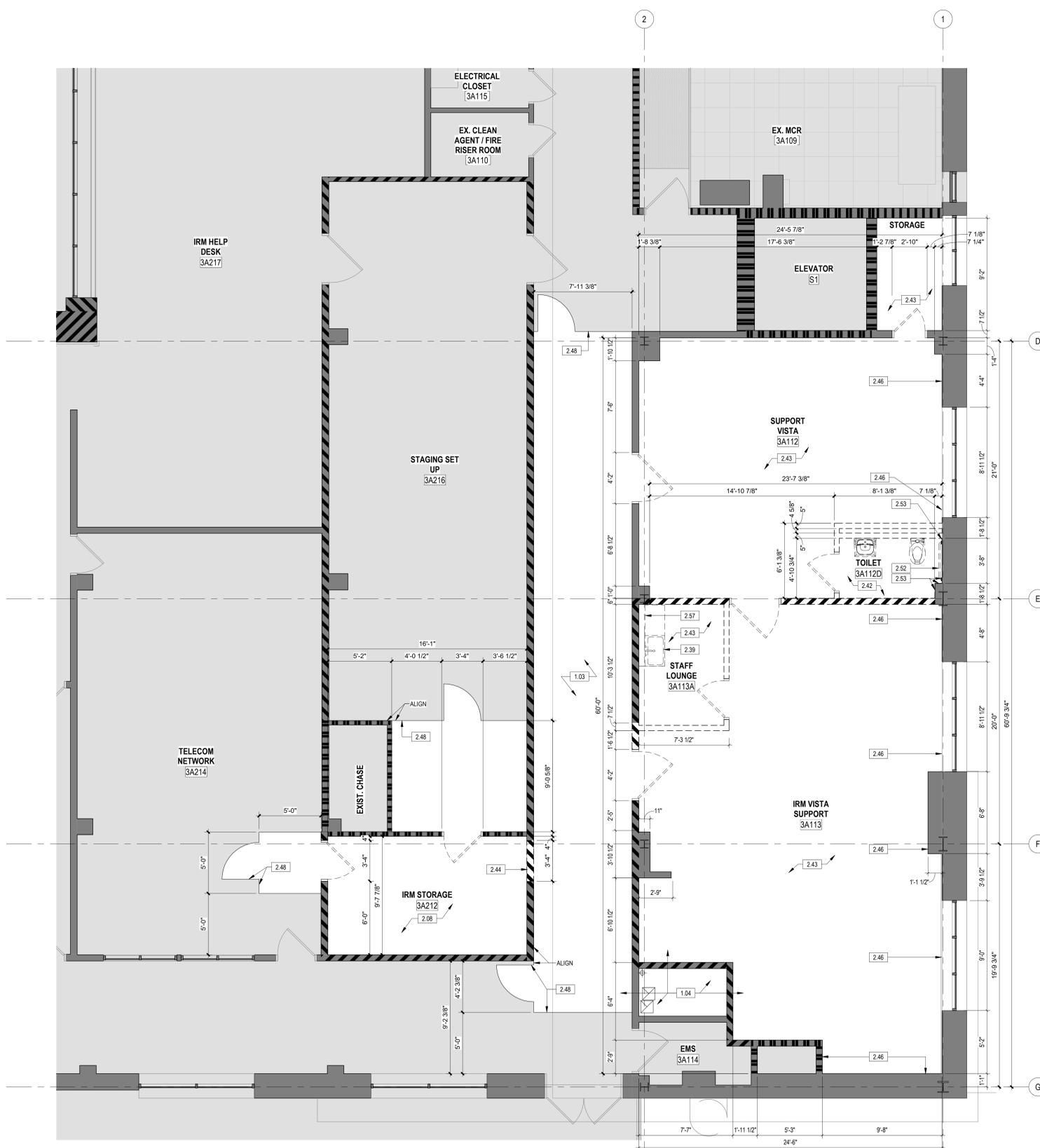
Project Title EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN			Project Number 621-24-701
Location JAMES H. OUILLEN VAMC LAMONT ST. AND VETERANS WAY MOUNTAIN HOME, TN 37684			Building Number 77, 204
Date 08/14/2025	Checked PWS	Drawn SEH	Drawing Number SF102
			Drawing # 10 OF 60

Veterans Health Administration

VA U.S. Department of Veterans Affairs

8/12/2025 12:28:25 PM

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one sixteenth inch = one foot



1 B77 - LEVEL 3 - DEMO FLOOR PLAN
 1/4" = 1'-0"

- GENERAL DEMOLITION PLAN NOTES**
- ALL EXISTING WALL DIMENSIONS ARE TO FINISH FACE, UNLESS OTHERWISE NOTED
 - THE CONTRACTOR SHALL VERIFY DIMENSIONS OF EXISTING CONDITIONS, AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES. ALL INFORMATION SHOWN ON THE CONSTRUCTION DOCUMENTS IS BASED ON FIELD OBSERVATIONS AND/OR THE ORIGINAL CONSTRUCTION DOCUMENTS OF THE FACILITY.
 - DEMOLITION AND CONSTRUCTION WORK MUST BE DONE UNDER NEGATIVE PRESSURE UTILIZING HEPA FILTRATION UNITS. SEE INFECTION CONTROL NOTES AND SPECIFICATIONS.
 - DO NOT REMOVE BARRIERS FROM WORK AREA UNTIL COMPLETED PROJECT OR AREA HAS BEEN INSPECTED BY THE SAFETY OFFICER AND INFECTION CONTROL COORDINATOR AND THOROUGHLY CLEANED BY ENVIRONMENTAL MANAGEMENT SERVICES.
 - THE CONTRACTOR SHALL PROVIDE PROTECTIVE COVERING FOR EXISTING FLOOR, WALL AND CEILING FINISHES IN EXISTING AREAS NOT DESIGNATED FOR DEMOLITION OR NEW CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE CAUSED BY THEIR WORK OR ANY SUBCONTRACTOR.
 - THE CONTRACTOR SHALL VERIFY THAT NEW MECHANICAL SYSTEMS CAN BE INSTALLED IN EXISTING SPACES TO CLEAR EXISTING CEILING AND OTHER CONSTRUCTED ITEMS AND MAINTAIN FLOOR TO CEILING HEIGHTS INDICATED ON DRAWINGS. IF DISCREPANCIES OCCUR DUE TO EXISTING CONDITIONS, CONSULT WITH THE ARCHITECT BEFORE PROCEEDING.
 - THE FINISH FACE OF MATERIAL OF NEW PARTITIONS SHALL ALIGN ON BOTH SIDES OF THE PARTITION WITH THE FACE OF THE MATERIALS ON EXISTING COLUMNS, WALLS, OR PARTITIONS, UNLESS NOTED OTHERWISE.
 - NO WORK TO BE DONE IN AREAS HATCHED GRAY IN PLANS, HOWEVER WORK MIGHT NEED TO BE PERFORMED IN CEILING OR EXISTING CHASES THROUGHOUT BUILDING. REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS FOR EXTENT OF WORK. COORDINATE ACCESS TO ROOMS OUTSIDE OF SCOPE WITH OWNER.

DEMOLITION FLOOR PLAN LEGEND

[Symbol]	AREA NOT IN CONTRACT	[Symbol]	EXISTING MILLWORK TO REMAIN
[Symbol]	EXISTING PARTITION TO REMAIN	[Symbol]	EXISTING MILLWORK TO BE DEMOLISHED
[Symbol]	EXISTING PARTITION TO BE DEMOLISHED	[Symbol]	EXISTING DRINKING FOUNTAIN TO BE DEMOLISHED
[Symbol]	EXISTING DOOR & FRAME TO REMAIN	[Symbol]	EXISTING SINK TO BE DEMOLISHED, DEMOLISH AND CAP ASSOCIATED PLUMBING.
[Symbol]	EXISTING DOOR, FRAME AND HARDWARE TO BE DEMOLISHED	[Symbol]	EXISTING TOILET TO BE DEMOLISHED, DEMOLISH AND CAP ASSOCIATED PLUMBING.
[Symbol]	EXISTING WINDOW & FRAME TO REMAIN	[Symbol]	EXISTING URINAL TO BE DEMOLISHED
[Symbol]	EXISTING WINDOW & FRAME TO BE DEMOLISHED	[Symbol]	EXISTING SHOWER TO BE DEMOLISHED

NOTE: NOT ALL SYMBOLS MAY BE USED.

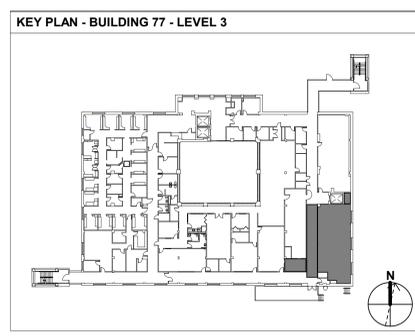
PARTITION LEGEND

[Symbol]	1 HOUR FIRE RATED	[Symbol]	EXISTING WALL TO REMAIN
[Symbol]	2 HOUR FIRE RATED	[Symbol]	NEW NON-RATED WALLS
[Symbol]	3 HOUR FIRE RATED	[Symbol]	SMOKE PARTITION/BARRIER

NOTE: NOT ALL SYMBOLS MAY BE USED.

KEYNOTE LEGEND

1.03	CORRIDOR CAN BE USED FOR STORAGE AND STAGING AS NECESSARY THROUGHOUT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR CLEANING SPACE AND PATCHING/REPAIRING AS NECESSARY TO MAINTAIN ITS CONDITION.
1.04	ANY DEMOLITION REQUIRED FOR WORK IN CHASE SHALL BE PERFORMED EITHER WITHIN THE NEW MCR SPACE OR WITHIN THE CORRIDOR WHILE ICRA BARRIERS AND HEPA NEGATIVE AIR UNITS ARE ACTIVE. ANY DEMOLISHED WALLS SHALL BE RESTORED AND MAINTAIN EXISTING WALL RATINGS AS SHOWN. CONTRACTOR IS TO PAINT WALLS AFTER RESTORATION.
2.06	DEMOLISH EXISTING FLOORING AND BASE TO EXTENTS INDICATED. CLEAN AND PREPARE SUB-FLOOR SURFACE FOR NEW FLOORING. REF: ENVIRONMENTAL FOR ABATEMENT EXTENTS.
2.39	REMOVE EXISTING SINK, DEMOLISH & CAP ASSOCIATED PLUMBING.
2.42	DEMOLISH EXISTING MOSAIC FLOOR TILE AND PREPARE FOR NEW FLOORING.
2.43	DEMOLISH EXISTING VCT FLOORING & BASE AND PREPARE FOR NEW FLOORING.
2.44	DEMOLISH EXISTING PORTION OF WALL TO CREATE DOOR OPENING. REF: DOOR SCHEDULE.
2.46	DEMOLISH PORTIONS OF GYP BD ON INSIDE FACE OF WALL AS NECESSARY FOR NEW ELECTRICAL POWER RECEPTACLE. CONTRACTOR TO REPLACE ANY MISSING GYP BD AND PAINT TO MATCH SURROUNDING FINISH ONCE RECEPTACLE IS INSTALLED. REF: ELECTRICAL.
2.48	ICRA BARRIER AND DOOR.
2.52	REMOVE EXISTING GRAB BAR.
2.53	DEMOLISH EXISTING CERAMIC WALL TILE WAINSCOT (APPROX. 4'-0" H).
2.57	DEMOLISH EXISTING WALL MOUNTED SHELF.



FINAL BID DOCUMENTS FULLY SPRINKLERED

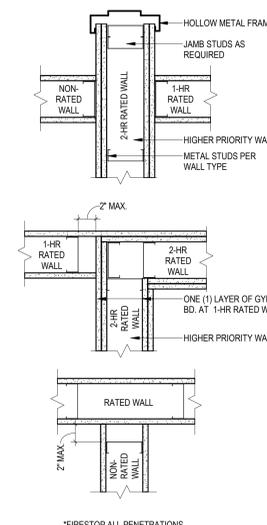
No.	REVISION DESCRIPTION	DATE	CONSULTANTS:			ARCHITECT:	SPUR # 2409	STAMP:	Drawing Title DEMOLITION PLAN - BUILDING 77 - LEVEL 3 - MCR	Project Title EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN	Project Number 621-24-701
			FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2955	MET/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (405) 369-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169						
8/13/2025 9:12:42 AM						SPUR		Checked AJS	Drawn NSM	Drawing Number AD101	
VA FORM 08-6231										Date 08/14/2025	



GENERAL PARTITION NOTES

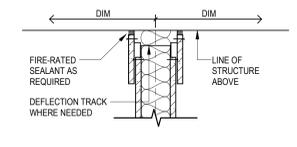
- PAINT CONTINUOUS 4" TALL, STENCILED LETTERS, ABOVE CEILING, ON BOTH SIDES OF ALL FIRE AND SMOKE WALLS DESIGNATING THE PARTITION RATING INDICATED ON THE LIFE SAFETY PLAN.
- REFER TO FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR LOCATIONS OF ALL WALL TIE. PROVIDE AND INSTALL CONVENTIONAL BACKER BOARD (W/ L) OF GYPSUM BOARD AT ALL SCHEDULED TILE LOCATIONS. UNLESS NOTED OTHERWISE, TILE SHALL BE INSTALLED PER TILE COUNCIL OF AMERICA LATEST STANDARDS FOR EACH TYPE OF BACKING MATERIAL REPRESENTED IN WALL/PARTITION.
- ALL SUSPENDED WALLS AND PARTITIONS SHALL HAVE GYPSUM BOARD WHICH EXTENDS A MINIMUM OF 6" ABOVE THE SUSPENDED CEILING UNLESS SHOWN AND/OR NOTED OTHERWISE BY THE ARCHITECT.
- REFER TO STRUCTURAL DRAWINGS FOR ALL LOAD BEARING WALL CONDITIONS IN REGARDS TO STRUCTURAL REQUIREMENTS.
- "ALIGN" MEANS SIMILAR COMPONENTS OF CONSTRUCTION, E.G. WALLS, JAMBS, ETC. SHALL ALIGN ACROSS VOIDS AND JOINTS.
- PARTITIONS SHALL BE CONTINUOUS OVER DOORS AND ADJACENT WALLS, WHERE GYP. BD. CONTINUES ABOVE CEILING, AND CONTINUES ABOVE THE CEILING LEVEL UP TO THE STRUCTURE ABOVE (UNLESS SHOWN OR NOTED OTHERWISE). ALL PLUMBING CHASES RETURNS SHALL HAVE CORNER BEADS, MINIMUM FLOOR TO CEILING. ALL PENETRATIONS IN GYP. BD. CONSTRUCTION ABOVE FINISHED CEILING SHALL BE EFFECTIVELY SEALED WITH TAPE/CAULK (TO PREVENT SOUND/LEAKAGE), AND SEALED WITH FIRESTOPPING TAPE/CAULK AT ALL RATED PARTITIONS (TO PREVENT SMOKE/ FIRE LEAKAGE).
- ALL MECHANICAL CHASES AND OTHER NOTED CHASES ARE TO EXTEND UP TO THE UNDERSIDE OF THE STRUCTURAL DECK ABOVE. ALL PLUMBING CHASES ARE TO EXTEND 6 INCHES ABOVE THE HIGHEST ADJOINING CEILING AND BE BRACED TO STRUCTURE ABOVE (UNLESS SHOWN OR NOTED OTHERWISE).
- ALL CONSTRUCTION DESIGNATED TO BE SUPPORTED BY ROOF STRUCTURE SHALL BE SUPPORTED BY TOP CHORD OF STRUCTURAL JOISTS AND NOT FROM THE METAL DECK.
- COORDINATE WITH MILLWORK DRAWINGS FOR PLACEMENT OF BLOCKING IN WALLS/PARTITIONS. ALL WOOD BLOCKING IS TO BE FIRE RETARDANT TREATED.
- SEAL THE TOP AND BOTTOM OF WALL AS WELL AS ALL PENETRATIONS WHERE SMOKE PARTITIONS ARE DESIGNATED ON THE LIFE SAFETY PLAN TO ELIMINATE THE PASSAGE OF SMOKE.
- USE DEFLECTION TRACKS WHERE STUD WALLS ATTACH DIRECTLY TO METAL DECK.

WALL PRIORITY PLAN & LEGEND

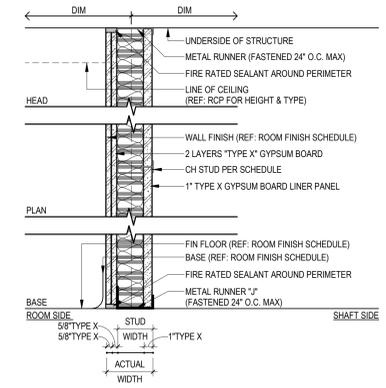
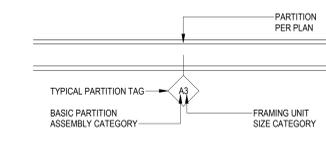


WALL TYPE	PRIORITY
TWO HOUR FIRE & SMOKE WALL	PRIORITY 1 (HIGHEST)
TWO HOUR FIRE WALL	PRIORITY 2
TWO HOUR SHAFT WALL	PRIORITY 2
ONE HOUR FIRE & SMOKE WALL	PRIORITY 3
ONE HOUR FIRE WALL	PRIORITY 4
NON-RATED WALL	PRIORITY 5 (LOWEST)

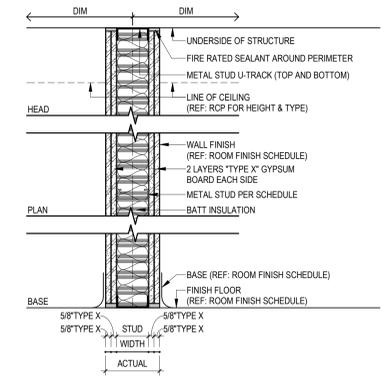
DEFLECTION TRACK DETAIL



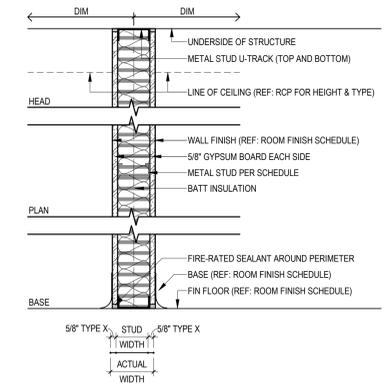
PARTITION TAG



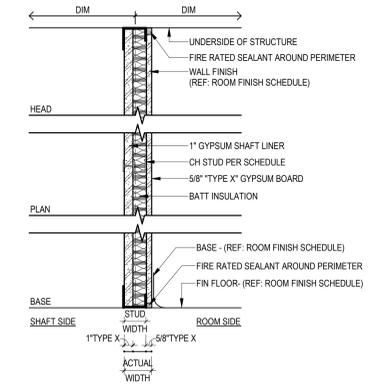
TYPE MARK	WALL TYPE	DESCRIPTION	WIDTH	MIN. STC
K2	2 HR (U419)	2 LAYERS 5/8" TYPE X GYPSUM BOARD ONE SIDE & 1" TYPE X GYPSUM BOARD ONE SIDE OF 2 1/2" CH METAL STUD AT 16" O.C.	3 3/4"	47 STC
K4	2 HR (U419)	2 LAYERS 5/8" TYPE X GYPSUM BOARD ONE SIDE & 1" TYPE X GYPSUM BOARD ONE SIDE OF 4" CH METAL STUD AT 16" O.C.	5 1/4"	47 STC
K6	2 HR (U419)	2 LAYERS 5/8" TYPE X GYPSUM BOARD ONE SIDE & 1" TYPE X GYPSUM BOARD ONE SIDE OF 6" CH METAL STUD AT 16" O.C.	7 1/4"	47 STC



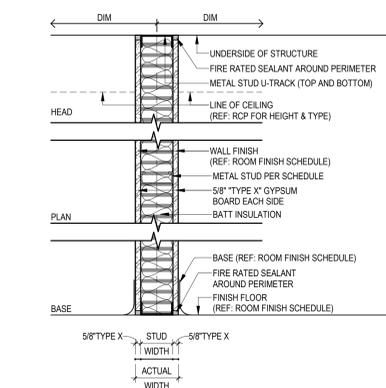
TYPE MARK	WALL TYPE	DESCRIPTION	WIDTH	MIN. STC
J2	2 HR (U419)	2 LAYERS 5/8" TYPE X GYPSUM BOARD EACH SIDE OF 2 1/2" METAL STUD AT 16" O.C. W/ BATT INSULATION	5"	--
J3	2 HR (U419)	2 LAYERS 5/8" TYPE X GYPSUM BOARD EACH SIDE OF 3 5/8" METAL STUD AT 16" O.C. W/ BATT INSULATION	6 1/8"	52 STC
J6	2 HR (U419)	2 LAYERS 5/8" TYPE X GYPSUM BOARD EACH SIDE OF 6" METAL STUD AT 16" O.C. W/ BATT INSULATION	8 1/2"	52 STC



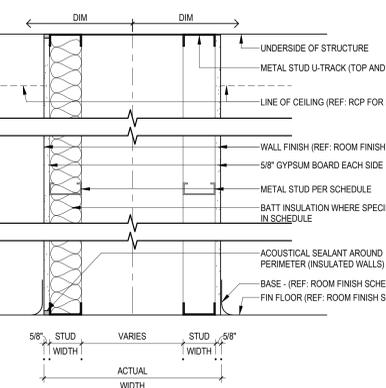
TYPE MARK	WALL TYPE	DESCRIPTION	WIDTH	MIN. STC
H3	1 HR / SMOKE	5/8" TYPE X GYPSUM BOARD ON EACH SIDE OF 3 5/8" METAL STUD AT 16" O.C. W/ BATT INSULATION	4 7/8"	45 STC
H6	SMOKE	5/8" TYPE X GYPSUM BOARD ON EACH SIDE OF 6" METAL STUD AT 16" O.C. W/ BATT INSULATION	7 1/4"	--



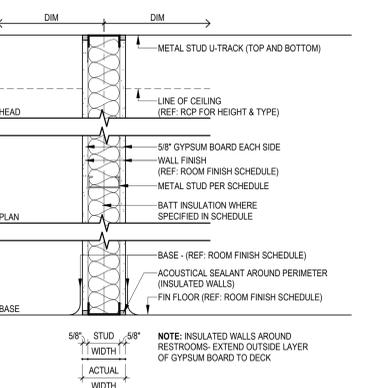
TYPE MARK	WALL TYPE	DESCRIPTION	WIDTH	MIN. STC
G2	1 HR (U415)	5/8" TYPE X GYPSUM BOARD ONE SIDE & 1" TYPE X GYPSUM BOARD OPPOSITE SIDE OF 2 1/2" CH METAL STUD AT 16" O.C. W/ BATT INSULATION	3 1/8"	--
G4	1 HR (U415)	5/8" TYPE X GYPSUM BOARD ONE SIDE & 1" TYPE X GYPSUM BOARD OPPOSITE SIDE OF 4" CH METAL STUD AT 16" O.C. W/ BATT INSULATION	4 5/8"	45 STC
G6	1 HR (U415)	5/8" TYPE X GYPSUM BOARD ONE SIDE & 1" TYPE X GYPSUM BOARD OPPOSITE SIDE OF 6" CH METAL STUD SPACED AT 16" O.C. W/ BATT INSULATION	6 5/8"	45 STC



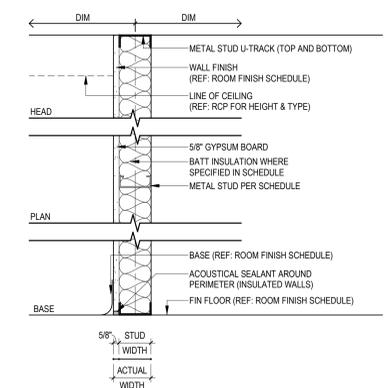
TYPE MARK	WALL TYPE	DESCRIPTION	WIDTH	MIN. STC
F3	1 HR (U419)	5/8" TYPE X GYPSUM BOARD EACH SIDE OF 3 5/8" METAL STUD AT 16" O.C. W/ BATT INSULATION	4 7/8"	48 STC
F6	1 HR (U419)	5/8" TYPE X GYPSUM BOARD EACH SIDE OF 6" METAL STUD AT 16" O.C. W/ BATT INSULATION	7 1/4"	48 STC



TYPE MARK	WALL TYPE	DESCRIPTION	WIDTH	MIN. STC
E3	CARRIER	5/8" GYPSUM BOARD ONE SIDE OF (2) 3 5/8" METAL STUD AT 16" O.C. WALLS W/ BATT INSULATION ONE SIDE	1'-8"	--
E6	CARRIER	5/8" GYPSUM BOARD ONE SIDE OF (2) 6" METAL STUD AT 16" O.C. WALLS W/ BATT INSULATION ONE SIDE	2'-0 3/4"	--



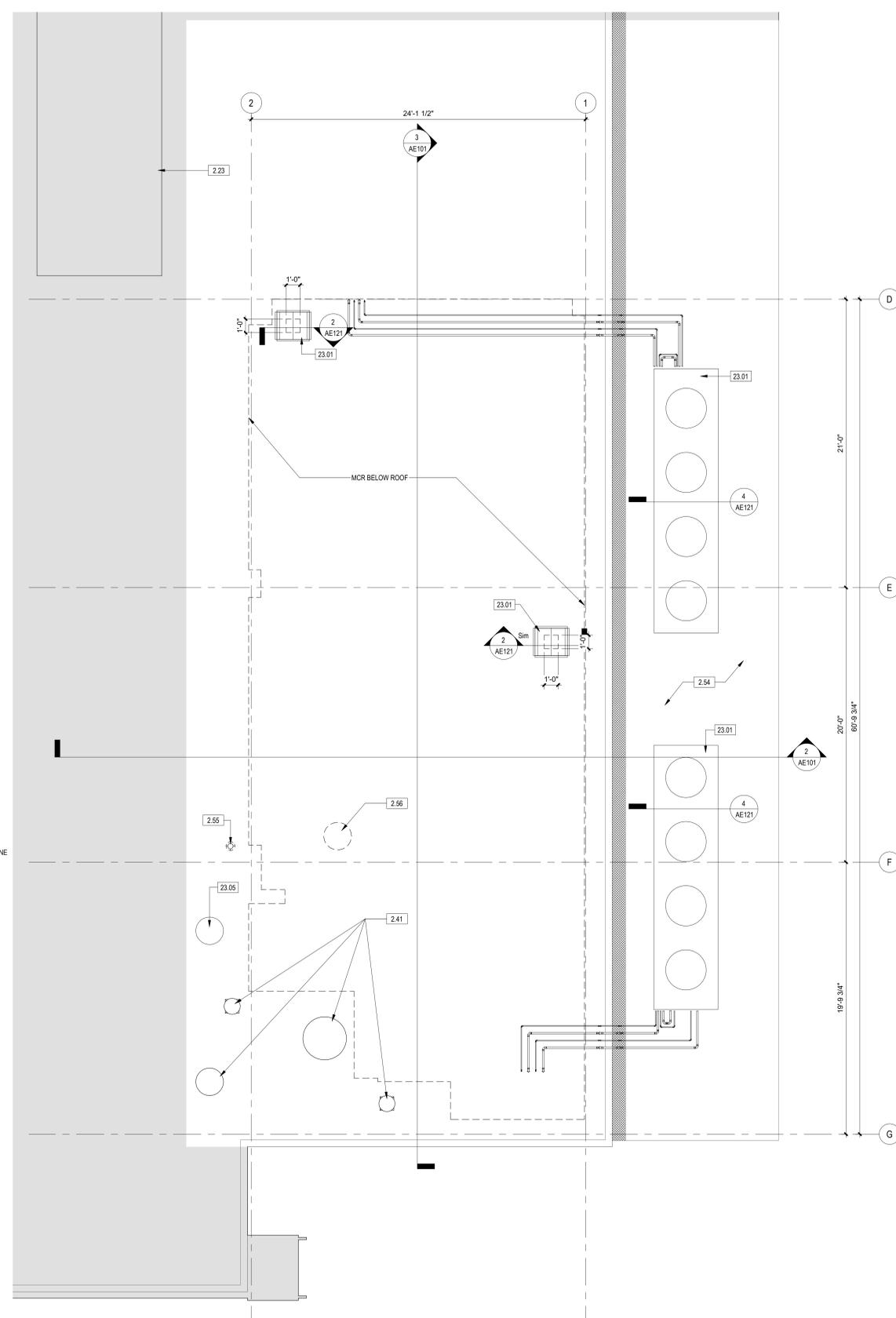
TYPE MARK	WALL TYPE	DESCRIPTION	WIDTH	MIN. STC
C2	NON-INSULATED	5/8" GYPSUM BOARD EACH SIDE OF 2 1/2" METAL STUD AT 16" O.C.	3 3/4"	--
C3	NON-INSULATED	5/8" GYPSUM BOARD EACH SIDE OF 3 5/8" METAL STUD AT 16" O.C.	4 7/8"	--
C6	NON-INSULATED	5/8" GYPSUM BOARD EACH SIDE OF 6" METAL STUD AT 16" O.C.	7 1/4"	--
D2	INSULATED	5/8" GYPSUM BOARD EACH SIDE OF 2 1/2" METAL STUD AT 16" O.C. W/ BATT INSULATION	3 3/4"	--
D3	INSULATED	5/8" GYPSUM BOARD EACH SIDE OF 3 5/8" METAL STUD AT 16" O.C. W/ BATT INSULATION	4 7/8"	--
D6	INSULATED	5/8" GYPSUM BOARD EACH SIDE OF 6" METAL STUD AT 16" O.C. W/ BATT INSULATION	7 1/4"	--



TYPE MARK	WALL TYPE	DESCRIPTION	WIDTH	MIN. STC
A1	NON-INSULATED	5/8" GYPSUM BOARD ONE SIDE 7/8" HAT CHANNEL SPACED AT 16" O.C.	1 1/2"	--
A2	NON-INSULATED	5/8" GYPSUM BOARD ONE SIDE OF 2 1/2" METAL STUD AT 16" O.C.	3 1/8"	--
A3	NON-INSULATED	5/8" GYPSUM BOARD ONE SIDE OF 3 5/8" METAL STUD AT 16" O.C.	4 1/4"	--
A6	NON-INSULATED	5/8" GYPSUM BOARD ONE SIDE OF 6" METAL STUD AT 16" O.C.	6 5/8"	--
B2	INSULATED	5/8" GYPSUM BOARD ONE SIDE OF 2 1/2" METAL STUD AT 16" O.C. W/ BATT INSULATION	3 1/8"	--
B3	INSULATED	5/8" GYPSUM BOARD ONE SIDE OF 3 5/8" METAL STUD AT 16" O.C. W/ BATT INSULATION	4 1/4"	--
B6	INSULATED	5/8" GYPSUM BOARD ONE SIDE OF 6" METAL STUD AT 16" O.C. W/ BATT INSULATION	6 5/8"	--

<p>No. REVISION DESCRIPTION DATE</p>		<p>CONSULTANTS:</p> <p>FIRE PROTECTION ENGINEER: SPUR DESIGN, 609 S. KELLY AVENUE, SUITE H2, EDMOND, OK 73003 (405) 856-2965</p> <p>MEP/TELECOM ENGINEER: SPUR DESIGN, 2519 MADISON AVE., STE. 100, KANSAS CITY, MO 64108 (913) 369-7200</p> <p>INDUSTRIAL HYGIENIST: RIVERFRONT SAFETY & HEALTH, 11140 S. TOWNE SQUARE, #100, ST. LOUIS, MO 63123 (314) 917-0148</p>		<p>ARCHITECT:</p> <p>SPUR # 2409</p> <p>SPUR DESIGN, LLC 312 SW 25TH STREET Oklahoma City, OK 73109 (405) 842-6100</p> <p>ARCH REG. NO. 71069 MECH REG. NO. 123862 ELEC REG. NO. 130235</p> <p>EXP. 04/30/2027 EXP. 06/30/2026 EXP. 04/30/2026</p>		<p>STAMP:</p> <p>VA Health Care System Approval:</p>		<p>Project Title EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN</p> <p>Location: JAMES H. OUILLEN VAMC, LAMONT ST. AND VETERANS WAY, MOUNTAIN HOME, TN 37684</p> <p>Date: 08/14/2025 Checked: AJS Drawn: NSM</p>		<p>Project Number: 621-24-701 Building Number: 77 Drawing Number: AE001 Drawing # 13 OF 60</p>		<p>Veterans Health Administration</p> <p>VA U.S. Department of Veterans Affairs</p>	
--------------------------------------	--	--	--	--	--	---	--	---	--	--	--	--	--

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one sixteenth inch = one foot



- GENERAL ROOF PLAN NOTES**
- EXISTING ROOF SYSTEM AND PARAPETS TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
 - PROVIDE CURBS AND FLASHINGS AT NEW ROOF PENETRATIONS, REF: MECHANICAL.
 - SUPPORTS ALLOWED TO SIT DIRECTLY ON ROOF SYSTEM FOR PIPING AND SIMILAR SHALL BE PURPOSE MADE BY MANUFACTURER FOR APPLICATION AND SUPPORT ROOF SYSTEM EXISTING AND NEW WARRANTIES, REF: MECHANICAL.
 - EXTEND ROOF WALKWAY TO NEW EQUIPMENT.
 - REFER TO ELECTRICAL DRAWINGS FOR LIGHTNING PROTECTION SYSTEMS.

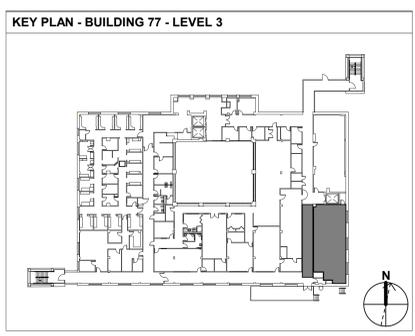
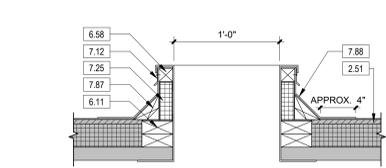
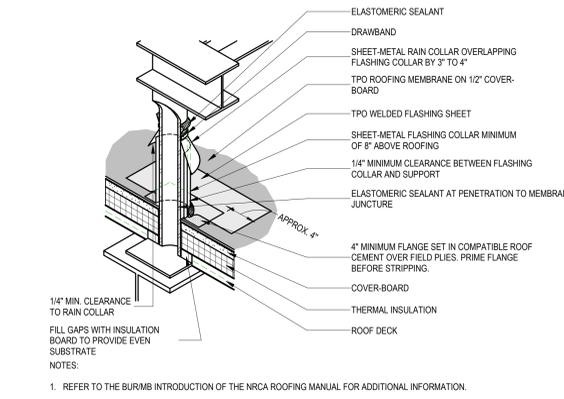
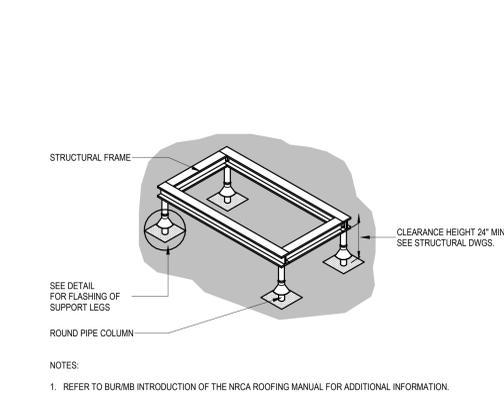
ROOF PLAN PLAN LEGEND

[Hatched Box]	AREA NOT IN CONTRACT	[Hatched Box]	HATCH INDICATES LOWER ROOF
---------------	----------------------	---------------	----------------------------

NOTE: ALL SYMBOLS MAY NOT BE USED.

KEYNOTE LEGEND

2.23	EXISTING MECHANICAL EQUIPMENT
2.41	EXISTING EXHAUST FANS TO REMAIN, REF: MECHANICAL
2.51	EXISTING ROOF DECK AND ROOF ASSEMBLY
2.54	FIELD VERIFY LOCATION OF EXISTING ROOF DRAINS AND ENSURE THAT NEW MECHANICAL EQUIPMENT DOES NOT HINDER FUNCTIONALITY OR FUTURE MAINTENANCE.
2.55	EXISTING ROOF DRAIN, TO REMAIN.
2.56	EXISTING EXHAUST FAN TO BE DEMOLISHED, REF: MECHANICAL. NEW ROOF DECK, INSULATION, AND ROOF MEMBRANE TO INFILL OPENING IN ROOF, REF: STRUCTURAL DETAILS.
6.11	NEW WOOD BLOCKING
6.58	NEW WOOD NAILED
7.12	NEW SHEET METAL FLASHING
7.25	NEW THERMAL INSULATION
7.87	NEW INSULATION CANT STRIP
7.88	TPO MEMBRANE FLASHING SHEET ADHERED TO BACKER
23.01	ROOFTOP MECH. EQUIPMENT, SEE MECHANICAL DRAWINGS
23.05	NEW EXHAUST FAN, REF: MECHANICAL



1 ROOF PLAN - BUILDING 77
 1/4" = 1'-0"

FINAL BID DOCUMENTS FULLY SPRINKLERED

No.	REVISION DESCRIPTION	DATE	CONSULTANTS:			ARCHITECT:	SPUR # 2409	STAMP:	Drawing Title	Project Title	Project Number	Veterans Health Administration
				FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MET/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169	ARCH REG. NO. 71069 MECH REG. NO. 123862 ELEC REG. NO. 130235	VA Health Care System Approval:	ROOF PLAN - BUILDING 77 - LEVEL 3 - MCR	EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN	621-24-701	
			INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 11140 S. TOWNE SQUARE, #100 ST. LOUIS, MO 63123 (314) 917-0148	PHYSICAL SECURITY FORCE PROTECT 10001 FRONT BEACH RD. #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500	EXP. 04/30/2027 EXP. 06/30/2026 EXP. 04/30/2026	[Stamp]		JAMES H. QUILLEN VAMC LAMONT ST. AND VETERANS WAY MOUNTAIN HOME, TN 37684	Building Number 77	Drawing Number AE121	VA U.S. Department of Veterans Affairs
									Date 08/14/2025	Checked AJS	Drawn NSM	

8/13/2025 9:12:52 AM

KEYNOTE LEGEND	
1.02	OPEN TO STRUCTURE
2.47	DEMOLISH EXISTING WALL HUNG VANITY LIGHT FIXTURE
2.58	DEMOLISH EXISTING CEILING AND LIGHT FIXTURES IN THIS AREA
23.02	MECHANICAL DUCT, SEE MECHANICAL DRAWINGS
23.04	NEW MECHANICAL CRU, REF: MECHANICAL
26.05	BUS BAR, REF: ELECTRICAL
26.06	ELECTRICAL PANEL, REF: ELECTRICAL
27.02	NEW CABLE TRAY, REF: TELECOM
27.04	GROUNDING BAR, REF: TELECOM

- GENERAL DEMOLITION REFLECTED CEILING PLAN NOTES**
- ALL EXISTING WALL DIMENSIONS ARE TO FINISH FACE, UNLESS OTHERWISE NOTED
 - THE CONTRACTOR SHALL VERIFY DIMENSIONS OF EXISTING CONDITIONS, AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES. ALL INFORMATION SHOWN ON THE CONSTRUCTION DOCUMENTS IS BASED ON FIELD OBSERVATIONS AND/OR THE ORIGINAL CONSTRUCTION DOCUMENTS OF THE FACILITY.
 - DEMOLITION AND CONSTRUCTION WORK MUST BE DONE UNDER NEGATIVE PRESSURE UTILIZING HEPA FILTRATION UNITS. SEE INFECTION CONTROL NOTES AND SPECIFICATIONS.
 - DO NOT REMOVE BARRIERS FROM WORK AREA UNTIL COMPLETED PROJECT OR AREA HAS BEEN INSPECTED BY THE SAFETY OFFICER AND INFECTION CONTROL COORDINATOR AND THOROUGHLY CLEANED BY ENVIRONMENTAL MANAGEMENT SERVICES.
 - THE CONTRACTOR SHALL PROVIDE PROTECTIVE COVERING FOR EXISTING FLOOR, WALL AND CEILING FINISHES IN EXISTING AREAS NOT DESIGNATED FOR DEMOLITION OR NEW CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE CAUSED BY THEIR WORK OR ANY SUBCONTRACTOR.
 - THE CONTRACTOR SHALL VERIFY THAT NEW MECHANICAL SYSTEMS CAN BE INSTALLED IN EXISTING SPACES TO CLEAR EXISTING CEILING AND OTHER CONSTRUCTED ITEMS AND MAINTAIN FLOOR TO CEILING HEIGHTS INDICATED ON DRAWINGS. IF DISCREPANCIES OCCUR DUE TO EXISTING CONDITIONS, CONSULT WITH THE ARCHITECT BEFORE PROCEEDING.
 - THE FINISH FACE OF MATERIAL OF NEW PARTITIONS SHALL ALIGN ON BOTH SIDES OF THE PARTITION WITH THE FACE OF THE MATERIALS ON EXISTING COLUMNS, WALLS, OR PARTITIONS, UNLESS NOTED OTHERWISE.
 - NO WORK TO BE DONE IN AREAS HATCHED GRAY IN PLANS, HOWEVER WORK MIGHT NEED TO BE PERFORMED IN CEILING OR EXISTING CHASES THROUGHOUT BUILDING. REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS FOR EXTENT OF WORK. COORDINATE ACCESS TO ROOMS OUTSIDE OF SCOPE WITH OWNER.

- GENERAL REFLECTED CEILING PLAN NOTES**
- ALL CEILING HEIGHTS ARE NOTED ON THE PLAN.
 - WHERE EXISTING CEILINGS ARE TO BE REMOVED AND REPLACED WITH NEW, THE GENERAL CONTRACTOR SHALL COORDINATE THE REMOVAL AND REINSTALLATION OF ALL CEILING MOUNTED DEVICES (SUSPENDED CURTAIN TRACKS, TV TRACKS, DETECTORS, SPEAKERS, ETC.) SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION ON THE ROUTING OF THE NEW SERVICES ABOVE THE CEILING.

DEMOLITION LEGEND

	AREA NOT IN SCOPE		EXISTING 2 x 4 ACoustical CEILING TO BE DEMOLISHED
	EXISTING 2 x 4 LIGHT FIXTURE TO BE DEMOLISHED; REF: ELECTRICAL		EXISTING PARTITION TO REMAIN
	EXISTING DOOR & FRAME TO REMAIN		CEILING HEIGHT
	EXISTING RETURN AIR GRILLE TO BE DEMOLISHED; REF: MECHANICAL		EXISTING EXHAUST AIR GRILLE TO BE DEMOLISHED; REF: MECHANICAL
	EXISTING SUPPLY AIR DIFFUSER TO BE DEMOLISHED; REF: MECHANICAL		DEMOLISH SPRINKLER HEAD PIPING, AND HANGERS TO OUTSIDE OF SCOPE AREA

NOTE: NOT ALL SYMBOLS MAY BE USED.

REFLECTED CEILING PLAN LEGEND

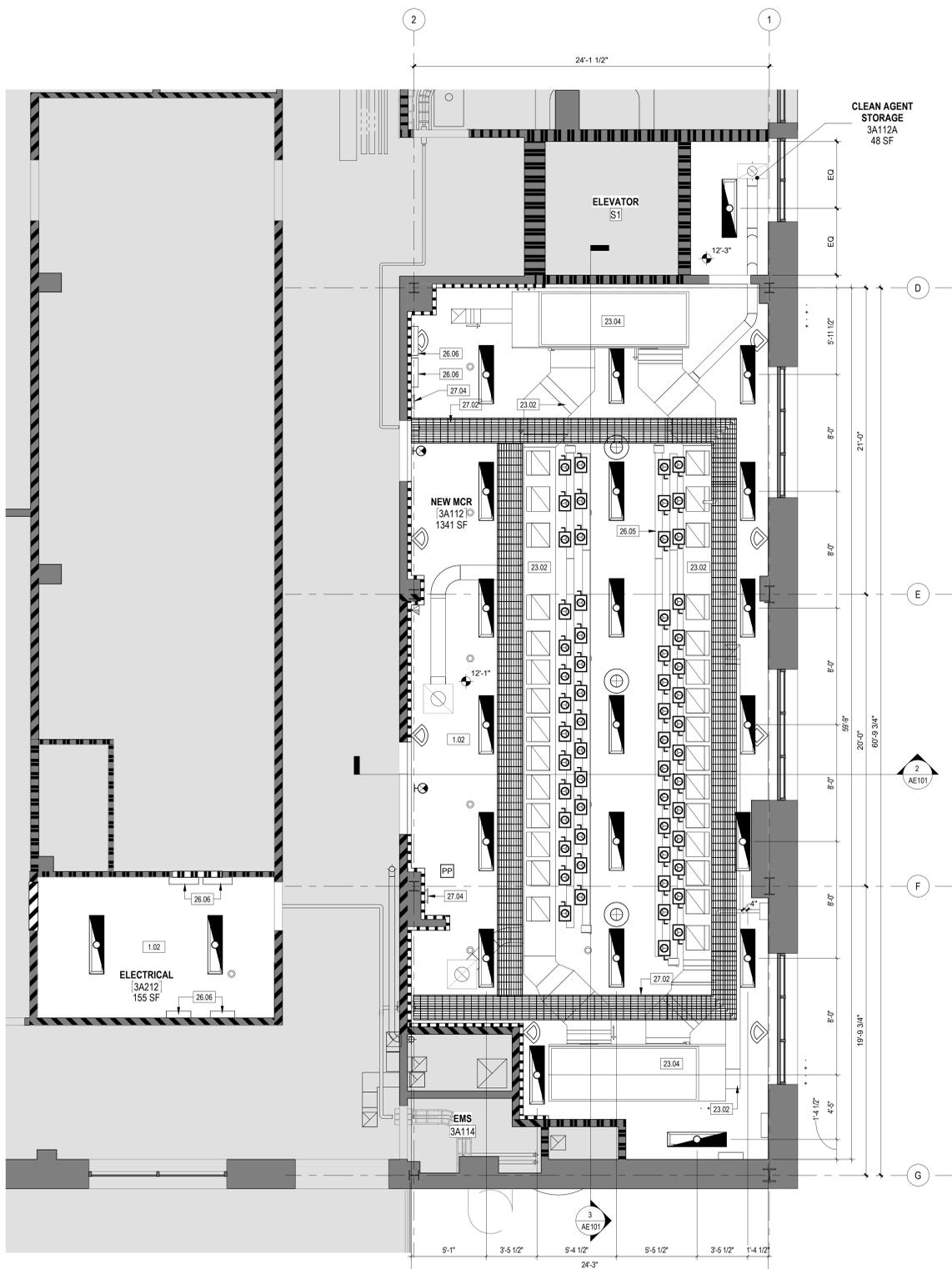
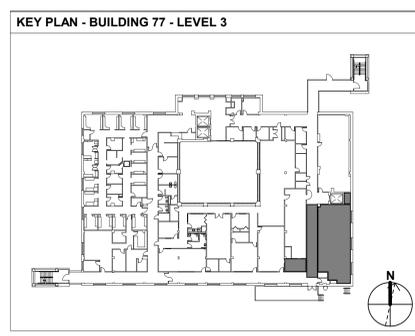
	AREA NOT IN SCOPE		2 x 2 LIGHT FIXTURE REF: ELECTRICAL
	CEILING HEIGHT, ABOVE FINISH FLOOR		2 x 4 LIGHT FIXTURE REF: ELECTRICAL
	2' x 2' ACoustical CEILING		SUSPENDED LIGHT FIXTURE REF: ELECTRICAL
	2' x 4' ACoustical CEILING		SMOKE DETECTOR REF: FIRE PROTECTION
	BUSWAY TAP, REF: ELECTRICAL		WALL MOUNTED OCCUPANCY SENSOR REF: ELECTRICAL
	RETURN AIR GRILLE REF: MECHANICAL		OCCUPANCY SENSOR REF: ELECTRICAL
	SUPPLY AIR DIFFUSER REF: MECHANICAL		OUTSIDE AIR RISER REF: MECHANICAL

NOTE: ALL SYMBOLS MAY NOT BE USED.

PARTITION LEGEND

	1 HOUR FIRE RATED		EXISTING WALL TO REMAIN
	2 HOUR FIRE RATED		NEW NON-RATED WALLS
	3 HOUR FIRE RATED		SMOKE PARTITION/BARRIER

NOTE: NOT ALL SYMBOLS MAY BE USED.



2 ENLARGED REFLECTED CEILING PLAN - NEW MCR
1/4" = 1'-0"

1 ENLARGED DEMO REFLECTED CEILING PLAN - NEW MCR
1/4" = 1'-0"

FINAL BID DOCUMENTS FULLY SPRINKLERED

<table border="1"> <thead> <tr> <th>No.</th> <th>REVISION DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	No.	REVISION DESCRIPTION	DATE				<p>CONSULTANTS:</p> <table border="0"> <tr> <td> <p>FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965</p> </td> <td> <p>MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200</p> </td> <td> <p>STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169</p> </td> </tr> <tr> <td> <p>INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 11140 S. TOWNE SQUARE, #100 ST. LOUIS, MO 63123 (314) 917-0148</p> </td> <td> <p>PHYSICAL SECURITY FORCE PROTECT 10901 FRONT BEACH RD, #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232</p> </td> <td> <p>COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500</p> </td> </tr> </table>	<p>FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965</p>	<p>MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200</p>	<p>STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169</p>	<p>INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 11140 S. TOWNE SQUARE, #100 ST. LOUIS, MO 63123 (314) 917-0148</p>	<p>PHYSICAL SECURITY FORCE PROTECT 10901 FRONT BEACH RD, #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232</p>	<p>COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500</p>	<p>ARCHITECT:</p> <p>SPUR</p> <p>SPUR # 2409</p> <p>SPUR DESIGN, LLC 312 SW 25TH STREET Oklahoma City, OK 73109 (405) 842-6100</p> <p>ARCH REG. NO. 71069 MECH REG. NO. 123862 ELEC REG. NO. 130235</p> <p>EXP. 04/30/2027 EXP. 06/30/2026 EXP. 04/30/2026</p>	<p>STAMP:</p>	<p>Drawing Title REFLECTED CEILING PLANS - BUILDING 77 - LEVEL 3 - MCR</p> <p>VA Health Care System Approval:</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN</p> <p>Location JAMES H. OUILLEN VAMC LAMONT ST. AND VETERANS WAY MOUNTAIN HOME, TN 37864</p> <p>Date 08/14/2025</p> <p>Checked AJS Drawn NSM</p>	<p>Project Number 621-24-701</p> <p>Building Number 77</p> <p>Drawing Number AC131</p> <p>Drawing # 16 OF 60</p>	<p>Veterans Health Administration</p> <p>VA U.S. Department of Veterans Affairs</p>
	No.	REVISION DESCRIPTION	DATE																
<p>FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965</p>	<p>MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200</p>	<p>STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169</p>																	
<p>INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 11140 S. TOWNE SQUARE, #100 ST. LOUIS, MO 63123 (314) 917-0148</p>	<p>PHYSICAL SECURITY FORCE PROTECT 10901 FRONT BEACH RD, #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232</p>	<p>COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500</p>																	

8/13/2025 9:47:30 AM

VA FORM 08-6231

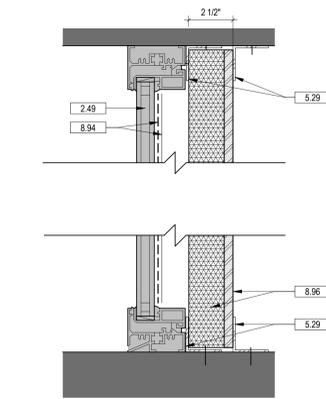
DOOR SCHEDULE											
MARK	ROOM NAME	DOOR PANEL				FRAME		FIRE RATING	HARDWARE SET	TELECOM	COMMENTS
		TYPE	MATERIAL	WIDTH	HEIGHT	TYPE	FINISH				
3A112A	NEW MCR	F	WD	3'-10"	7'-0"	HM-1		002			NEW DOOR & FRAME W/ BADGE ACCESS
3A112B	NEW MCR	PAIR-F	WD	6'-0"	7'-0"	HM-1		003			NEW DOOR & FRAME W/ BADGE ACCESS
3A112C	CLEAN AGENT STORAGE	F	WD	2'-6"	7'-0"	HM-1		002			NEW DOOR & FRAME W/ BADGE ACCESS, 1" UNDERCUT
3A212	ELECTRICAL	F	WD	3'-0"	7'-0"	HM-1		001			NEW DOOR & FRAME W/ BADGE ACCESS

SCHEDULE OF FINISHES						
ABBR.	MATERIAL	MANUFACTURER	SIZE	SERIES/COLLECTION	COLOR	COMMENTS
01_FLOORING						
SD	STATIC DISSIPATIVE SHEET	NORA BY INTERFACE		NORAPLAN ENVIRONCARE ED	7052 SLEDDING	ELECTROSTATICALLY DISSIPATIVE, WELD ROD, COLOR 7052
02_BASE						
RB	RESILIENT BASE	JOHNSONITE	8" COVED	1/8" VINYL BASE	29 MOON ROCK WG	
SD	INTEGRAL BASE	NORA BY INTERFACE	4" COVED INTEGRAL	NORAPLAN ENVIRONCARE ED	7052 SLEDDING	WITH STAINLESS CAP
03_WALL						
P1	FIELD PAINT	PPG		EGGSHELL	PPG1023-1 OATMEAL	
04_CEILING						
OTS	OPEN TO STRUCTURE, PAINTED	PPG		DRYFALL	COMMERCIAL WHITE 1025-2	
05_OTHER						
TS1	TRANSITION TRIM	SCHLUTER	SIZED TO FIT APPLICATION	RENO-U		ANODIZED ALUMINUM
TS2	TRANSITION TRIM	SCHLUTER	SIZED TO FIT APPLICATION	SCHIENE		ANODIZED ALUMINUM

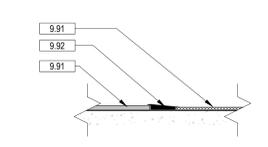
ROOM FINISH SCHEDULE											
ROOM #	ROOM NAME	FLOOR FINISHES				WALL FINISHES				CEILING	COMMENTS
		MATERIAL	BASE	NORTH	EAST	SOUTH	WEST				
3A112	NEW MCR	SD	SD	P1	P1	P1	P1	P1	P1	OTS	
3A112A	CLEAN AGENT STORAGE	SC	RB	P1	P1	P1	P1	P1	P1	OTS	
3A212	ELECTRICAL	SC	RB	P1	P1	P1	P1	P1	P1	OTS	

- GENERAL FINISH NOTES**
- ALL WALLS TO BE PAINTED P1, UNO REF. ROOM FINISH SCHEDULE FOR EXCEPTIONS.
 - ALL RUBBERBASE TO BE RB1 UNO REF. ROOM FINISH SCHEDULE FOR EXCEPTIONS.
 - ALL DIMENSIONS ARE TO THE FACE OF CONCRETE OR MASONRY, FACE OR CENTERLINE OF STUD WALLS, OR CENTERLINE OF COLUMNS UNLESS NOTED OTHERWISE.
 - ASBESTOS OR ASBESTOS CONTAINING PRODUCTS ARE NOT ALLOWED IN ANY ASPECT OF THIS CONSTRUCTION.
 - COORDINATE ALL DISCIPLINES AND ALL ASPECTS OF WORK, CONFLICTS AND DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.
 - ALL CONCRETE SURFACES WHICH RECEIVE A FINISH, FLOOR COVERING, COATINGS, HARDENERS, ETC. SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFIC FINISH MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS. PRIOR TO APPLICATION OF A FINISH, A WRITTEN ACCEPTANCE OF THE SURFACE SHALL BE SUBMITTED TO THE ARCHITECT BY THE GENERAL CONTRACTOR.
 - WHERE NOTED ON DEMO SHEETS, REMOVE ALL FLOOR FINISHES AND ADHESIVES AND STRIP FLOOR DOWN TO EXISTING CONCRETE. PREP FLOOR FOR INSTALLATION OF NEW FLOOR FINISHES AS SHOWN.
 - USE TS1 WHERE TRANSITIONS ARE LVT, CPT, OR VCT TO CONCRETE, FIELD VERIFY THICKNESS TO FLOORING USED.
 - USE TS2 WHERE TRANSITIONS ARE FLOORING MATERIAL TO FLOORING MATERIAL TRANSITIONS, FIELD VERIFY THICKNESS TO FLOORING USED.
 - ALL TRANSITIONS TO OCCUR AT CENTER OF DOOR PANEL WHEN CLOSED.

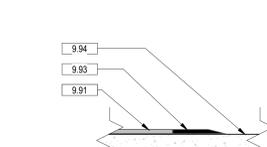
- KEYNOTE LEGEND**
- | | |
|------|---|
| 2.49 | EXISTING WINDOW (CONSTRUCTION MAY VARY) |
| 5.29 | 2" X 2" STEEL ANGLE FRAME SCREWED TOP, BOTTOM, SIDES TO ADJACENT WALLS / SILL, CONDITIONS VARY. |
| 7.01 | SEALANT, COLOR MATCH TO WALL FINISH |
| 8.14 | METAL FRAME |
| 8.15 | WOOD DOOR |
| 8.94 | REMOVE WINDOW GASKETING AND APPLY ANTIFRAGMENTATION LAMINATION TO EACH WINDOW PANE, BASIS OF DESIGN: 3M Ultra 8800 AND STOX DUAL FILM SYSTEM. REINSTALL GASKETING AND PROVIDE CONTACT SENSORS. APPLY BLACKOUT FILM ON TOP OF EXTREME IMPACT-RESISTANT FILM (MATE FINISH). |
| 8.96 | 1/2" DENGLASS PANEL BONDED TO 2" RIGID INSULATION CUT TO FIT WINDOW OPENING |
| 9.01 | METAL STUD FRAMING SEE PARTITION TYPES SCHEDULE |
| 9.13 | 5/8" GYPSUM WALL BOARD |
| 9.91 | FLOORING MATERIAL (LVT, CPT, VCT, SD) |
| 9.92 | SCHLUTER TRANSITION - TILE TO TILE |
| 9.93 | SCHLUTER TRANSITION - TILE TO CONCRETE |
| 9.94 | CONCRETE UNFINISHED FLOOR |



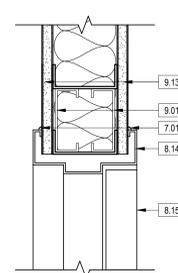
8 TYP. WINDOW COVER DETAIL
3" = 1'-0"



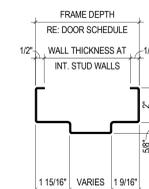
7 TS2 TRANSITION DETAIL
6" = 1'-0"



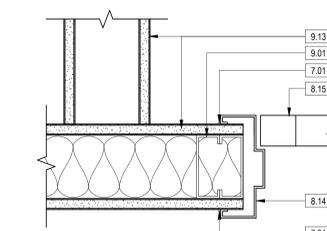
6 TS1 TRANSITION DETAIL
6" = 1'-0"



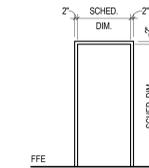
5 TYP. HM HEAD DETAIL - INTERIOR
3" = 1'-0"



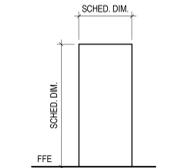
4 DOOR FRAME TYPES
3" = 1'-0"



3 TYP. HM JAMB DETAIL - INTERIOR
3" = 1'-0"



2 HOLLOW METAL FRAME ELEVATIONS
1/4" = 1'-0"



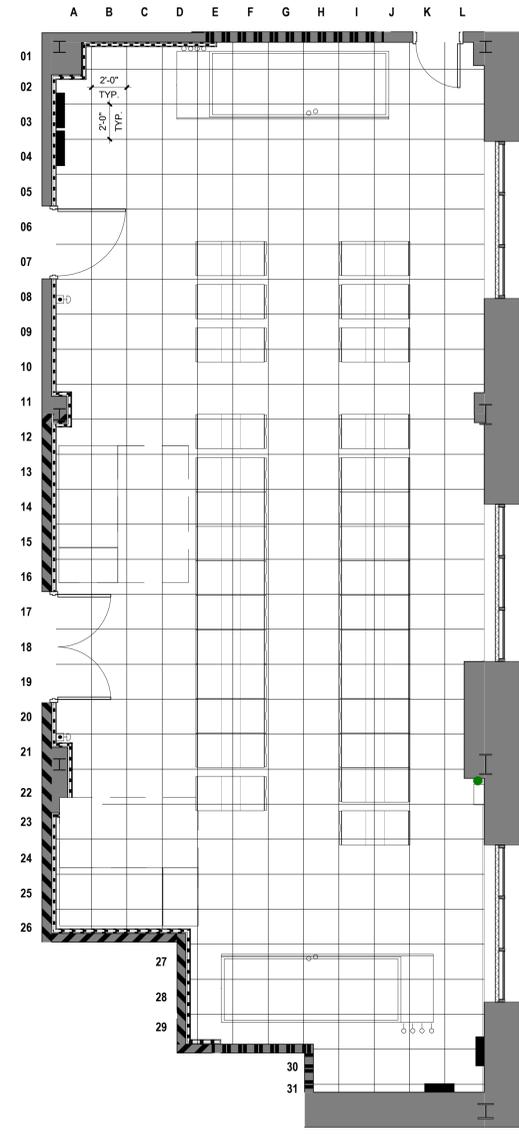
1 DOOR TYPES
1/4" = 1'-0"

FINAL BID DOCUMENTS FULLY SPRINKLERED

No.	REVISION DESCRIPTION	DATE	CONSULTANTS:			ARCHITECT:	SPUR # 2409	STAMP:	Drawing Title DOOR SCHEDULE, FINISH SCHEDULE, & DETAILS	Project Title EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN	Project Number 621-24-701	Building Number 77	Drawing Number AE601	Drawing # 17 OF 60
				FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200									
			INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 11140 S. TOWNE SQUARE, #100 ST. LOUIS, MO 63123 (314) 917-0148	PHYSICAL SECURITY FORCE PROTECT 10901 FRONT BEACH RD, #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500	ARCH REG. NO. 71069 MECH REG. NO. 123862 ELEC REG. NO. 130235	EXP. 04/30/2027 EXP. 06/30/2026 EXP. 04/30/2026							

GENERAL POSITION IDENTIFICATION PLAN NOTES

1. LOCATION IDENTIFIERS ARE TO BE POSTED ON WALLS OR ON TAGS HUNG FROM THE STRUCTURE ABOVE AS NECESSARY TO ALLOW OCCUPANTS TO REASONABLY DETERMINE GRID LOCATIONS.
2. LOCATION IDENTIFIERS ARE TO BE 6" HIGH CHARACTERS, SEMI-GLASS BLACK LETTERING, WITH TOP OF CHARACTER NOT MORE THAN 6" BELOW STRUCTURE OR FIXTURES HUNG FROM STRUCTURE.



2 LOCATION IDENTIFIER ELEVATION
3" = 1'-0"

1 POSITION IDENTIFICATION PLAN
1/4" = 1'-0"

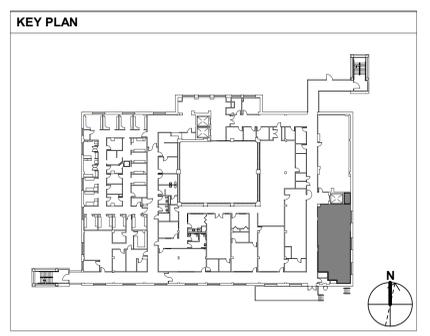
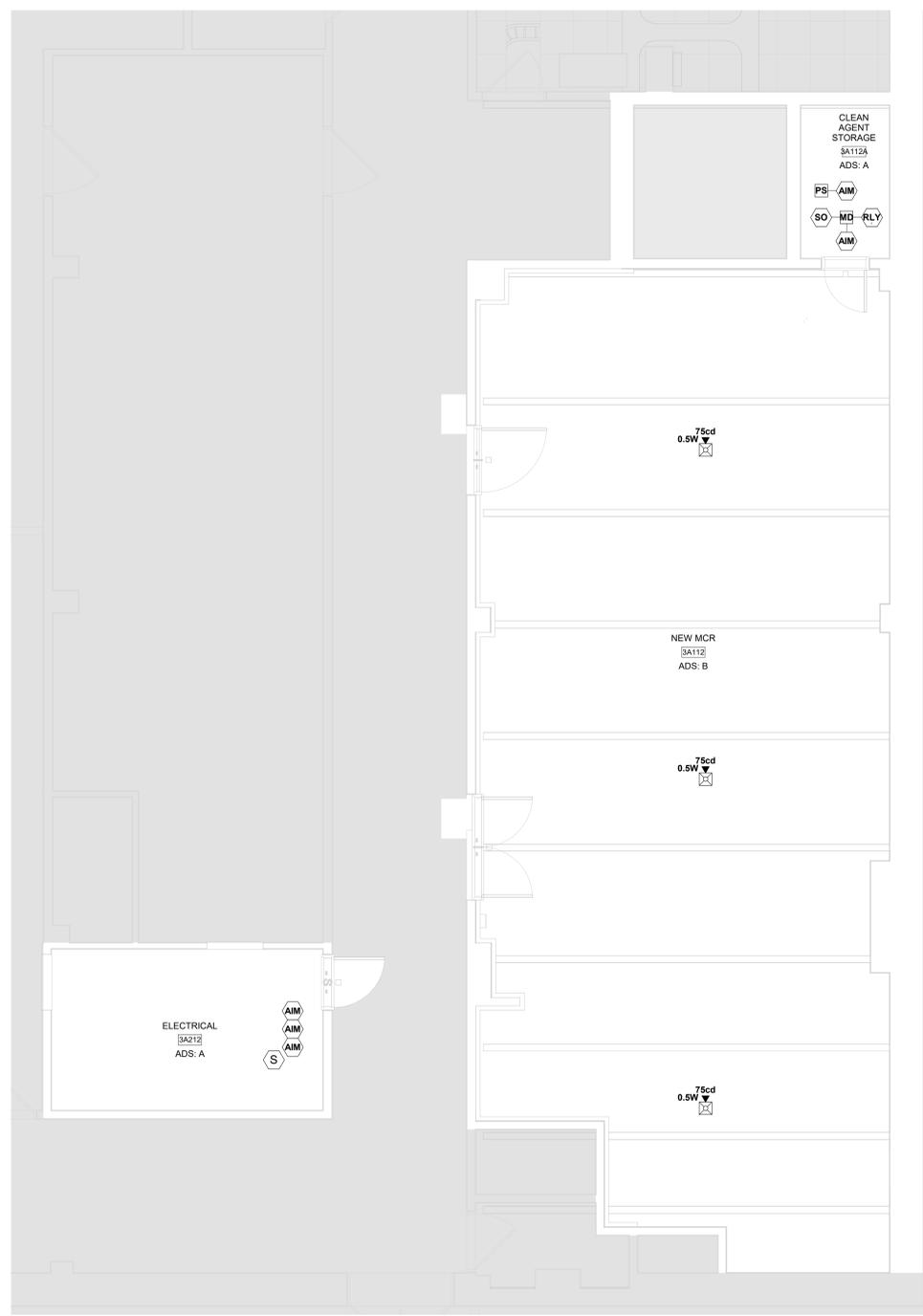
A
4"

FINAL BID DOCUMENTS FULLY SPRINKLERED

No.	REVISION DESCRIPTION	DATE	CONSULTANTS:			ARCHITECT:	SPUR #. 2409	STAMP:	Drawing Title POSITION IDENTIFICATION PLAN	Project Title EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN	Project Number 621-24-701	Building Number 77	Veterans Health Administration
			FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169								
								Date 08/14/2025		Checked AJS	Drawn NSM	VA U.S. Department of Veterans Affairs	

8/13/2025 9:12:54 AM

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one sixteenth inch = one foot



1 ENLARGED FIRE ALARM PLAN - BUILDING 77 - LEVEL 3
 1/4" = 1'-0"



FINAL BID DOCUMENTS FULLY SPRINKLERED

No.	REVISION DESCRIPTION	DATE

CONSULTANTS:

FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169
INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 1139 OLIVE ST., SUITE 300 ST. LOUIS, MO 63101 (713) 864-2900	PHYSICAL SECURITY FORCE PROTECT 10901 FRONT BEACH RD. #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500

ARCHITECT: SPUR # 2409

SPUR DESIGN, LLC
 312 SW 25TH STREET
 Oklahoma City, OK 73109
 (405) 842-6100

ARCH REG. NO. 71069 EXP. 04/30/2027
 MECH REG. NO. 123862 EXP. 06/30/2026
 ELEC REG. NO. 130235 EXP. 04/30/2026



Drawing Title
ENLARGED FIRE ALARM PLANS - BUILDING 77 - LEVEL 3 - MCR

VA Health Care System Approval:

Project Title
EHRM INFRASTRUCTURE UPGRADES TIER 3 DC MOUNTAIN HOME, TN

Location JAMES H. OUILLEN VAMC
 LAMONT ST. AND VETERANS WAY
 MOUNTAIN HOME, TN 37684

Date **08/14/2025**

Checked DBN
 Drawn GHG

Project Number
621-24-701

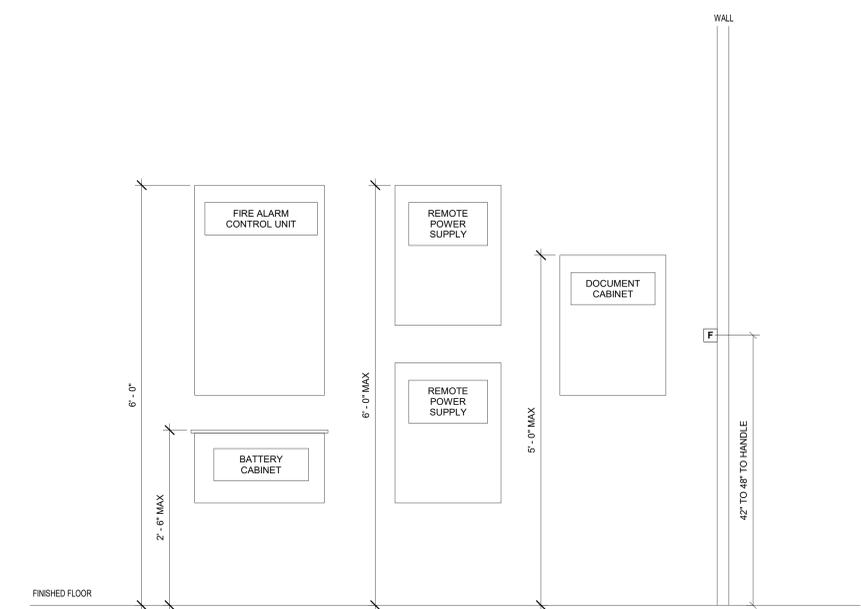
Building Number
77

Drawing Number
FA101

Drawing # 20 OF 60



one eighth inch = one foot
 one quarter inch = one foot
 three eighths inch = one foot
 one half inch = one foot
 three quarters inch = one foot
 one inch = one foot
 one and one half inches = one foot
 two inches = one foot
 three inches = one foot
 six inches = one foot



NOTES:
 1 THIS DETAIL IS DIAGRAMMATIC. PANELS MAY BE INSTALLED ABOVE AND BELOW EACH OTHER WHERE NECESSARY DUE TO LIMITED WALL SPACE.
 2 THIS DETAIL INDICATES REQUIREMENTS FOR NEW EQUIPMENT ONLY. THIS DETAIL DOES NOT REQUIRE RELOCATION OF EXISTING EQUIPMENT.

1 FIRE ALARM EQUIPMENT MOUNTING HEIGHTS
 NTS



FINAL BID DOCUMENTS FULLY SPRINKLERED

No.	REVISION DESCRIPTION	DATE	CONSULTANTS:			ARCHITECT:	SPUR #. 2409	STAMP: 	Drawing Title	Project Title	Project Number	Veterans Health Administration
			FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169	ARCHITECT: SPUR * SPUR DESIGN, LLC 312 SW 25TH STREET Oklahoma City, OK 73109 (405) 842-6100	ARCH REG. NO. 71069 MECH REG. NO. 123862 ELEG REG. NO. 130235		EXP. 04/30/2027 EXP. 06/30/2026 EXP. 04/30/2026	FIRE ALARM DETAILS	EHRM INFRASTRUCTURE UPGRADES TIER 3 DC MOUNTAIN HOME, TN	
			INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 1139 OLIVE ST., SUITE 300 ST. LOUIS, MO 63101 (713) 864-2900	PHYSICAL SECURITY FORCE PROTECT 10901 FRONT BEACH RD. #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500		VA Health Care System Approval:	Location JAMES H. OUILLEN VAMC LAMONT ST. AND VETERANS WAY MOUNTAIN HOME, TN 37684	Date 08/14/2025	Checked DBN	Drawn GHG	Drawing # 21 OF 60

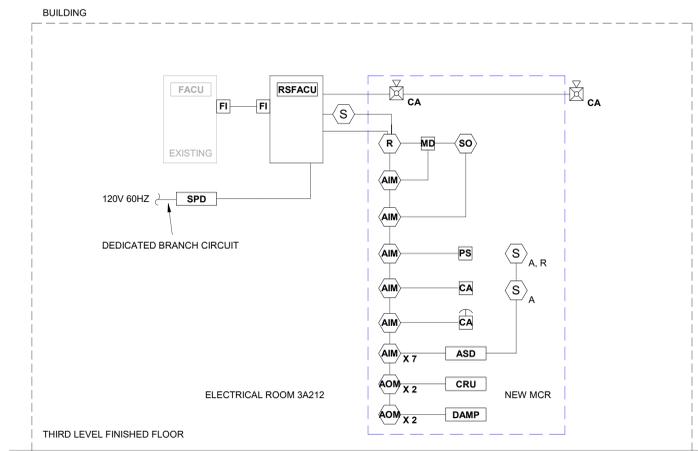
CLEAN AGENT GENERAL NOTES

- SYSTEMS DESCRIPTION
 - THIS PROJECT INCLUDES THE INSTALLATION OF A NEW CLEAN AGENT SYSTEM WITH ASPIRATING SMOKE DETECTION FOR THE NEW MCR SPACE.
- GENERAL
 - REFER TO PROJECT SPECIFICATIONS FOR IMPORTANT QUALIFICATION, SUBMITTAL, INSTALLATION, TESTING, AND OTHER PROJECT REQUIREMENTS.
 - IN THE EVENT OF A CONFLICT BETWEEN THESE PLANS AND THE PROJECT SPECIFICATIONS, THE FOLLOWING CONFLICT RESOLUTION RULES MUST BE USED:
 - WHERE CONFLICT IS OF DIFFERING SPECIFICITY, THE MORE SPECIFIC CRITERIA TAKES PRECEDENCE.
 - WHERE CONFLICT IS OF EQUAL SPECIFICITY, THE MORE RESTRICTIVE CRITERIA TAKES PRECEDENCE.
 - THE INTENT OF THESE PLANS IS TO DEMONSTRATE DESIGN INTENT AND MINIMUM SYSTEM PERFORMANCE CRITERIA. THE CONTRACTOR MUST PROVIDE A COMPLETE, FUNCTIONAL SYSTEM COMPLIANT WITH THE PROJECT SPECIFICATIONS.
 - THESE PLANS DO NOT SHOW ALL SYSTEMS, ELEMENTS, AND FEATURES OF OTHER TRADES. THE CONTRACTOR MUST CONDUCT A THOROUGH REVIEW OF THE ENTIRE PLAN SET TO ENSURE PROPER COORDINATION WITH ALL TRADES.
 - THE CONTRACTOR MUST COORDINATE WITH ALL TRADES BASED ON THE SYSTEMS' CONFIGURATIONS REQUIRED BY THE FIRE ALARM AND CLEAN AGENT MANUFACTURERS' INSTRUCTIONS, RECOMMENDATIONS, AND CALCULATIONS. THE CONTRACTOR MUST PROVIDE ALL COORDINATION AND ASSOCIATED MODIFICATIONS AT NO ADDITIONAL COST TO THE OWNER.
 - THE CONTRACTOR MUST OBTAIN ALL PERMITS AND INSPECTIONS REQUIRED BY THE JURISDICTION.
 - IN SOME INSTANCES, THESE PLANS AND SPECIFICATIONS DICTATE CRITERIA WHICH IS MORE RESTRICTIVE THAN THE MINIMUM CODE REQUIREMENTS.
- APPLICABLE CRITERIA
 - THE CONTRACTOR'S DESIGN MUST BE COMPLIANT WITH ALL CODES ADOPTED BY VA FIRE PROTECTION GUIDE MANUAL.
 - AT THE TIME OF DEVELOPMENT OF THESE PLANS, THE FOLLOWING CODES ARE APPLICABLE:
 - NFPA 72, NATIONAL FIRE ALARM CODE, 2025 EDITION
 - NFPA 2001, STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2025 EDITION
 - NFPA 75, STANDARD FOR THE FIRE PROTECTION OF INFORMATION TECHNOLOGY EQUIPMENT, 2024 EDITION
 - VA FIRE PROTECTION DESIGN MANUAL, NINTH EDITION
- BASIS OF DESIGN CLEAN AGENT SYSTEM
 - AGENT: NOVEC 1230 (PK-S-112)
 - CONCENTRATION: 4.5% (CLASS A AND C ≤ 480V)
 - QUANTITY: 665 LBS APPROXIMATELY
 - PROTECTED VOLUME:
 - AREA: 1,337 SQUARE FEET
 - BELOW FLOOR HEIGHT: N/A - NO ACCESS FLOOR
 - BELOW CEILING HEIGHT: 12.0833 FEET * 1,337 SQ.FT. = 16,156 CU.FT.
 - ABOVE CEILING HEIGHT: N/A - NO SUSPENDED CEILING
 - TOTAL PROTECTED VOLUME = 16,156 CU.FT.
 - NOZZLES:
 - BELOW CEILING: TWO 360 DEGREE NOZZLES
 - BELOW FLOOR: N/A
 - ABOVE CEILING: N/A
 - ENCLOSURE SUMMARY
 - WALL MATERIAL WILL NOT BE POROUS (I.E. EITHER PAINTED GYPSUM OR PAINTED CMU).
 - NO UNSEALED OPENINGS WILL BE PRESENT - ALL PENETRATIONS AND JOINTS WILL BE CAULKED.
 - NO OPENINGS CONNECT THE SERVER ROOM TO ADJACENT VOLUMES EXCEPT THE DOOR WHICH WILL BE KEPT NORMALLY CLOSED.
 - WALLS WILL BE DESIGNED TO WITHSTAND 22 PSF PEAK NEGATIVE PRESSURE AND 3.0 PSF PEAK POSITIVE PRESSURE (PER 3M WHITE PAPER "PRESERVING ROOM INTEGRITY DURING CLEAN AGENT DISCHARGES", AUGUST 2009).
- BASIS OF DESIGN SMOKE DETECTION:
 - SMOKE DETECTION TYPE: AIR SAMPLING
 - SMOKE DETECTOR MANUFACTURER AND MODEL: XTRALIS VESDA-E VEP
 - DETECTION STRATEGY: VERY EARLY WARNING FIRE DETECTION (VEWFD) PER NFPA 75 (2024) SECTION 9.2.1.
 - AIR SAMPLING SMOKE DETECTION MUST BE PROVIDED AT RETURN AIR INLET OF THE FAN COIL UNITS IN SERVER ROOM SO THAT NO SAMPLING POINT COVERS MORE THAN 4 SQ.FT. OF RETURN AIR GRILL. ATTACH ASD PIPING IN ACCORDANCE WITH ASD AND FCU MANUFACTURER REQUIREMENTS AND RECOMMENDATIONS. IF FREQUENT ACCESS IS REQUIRED TO THE RETURN AIR INLET FOR ACTIVITIES SUCH AS FILTER REPLACEMENT, PROVIDE A UNION FOR RAPID REMOVAL AND REPLACEMENT OF ASD PIPING WHICH COVERS THIS COMPONENT.
- NEW RSFACU
 - THE NEW RSFACU FOR THE CLEAN AGENT SYSTEM MUST BE NETWORKED WITH THE EXISTING MAIN BUILDING FIRE ALARM CONTROL UNIT.
- SEISMIC
 - THE SEISMIC DESIGN CATEGORY FOR THE PROJECT IS CLASS D. SEISMIC BRACING MUST BE PROVIDED FOR THE FIRE PROTECTION SYSTEMS.
 - PROVIDE CALCULATIONS OF SEISMIC BRACING AND RESTRAINT FOR THE CLEAN AGENT SYSTEM.
- BASIS OF DESIGN RELEASING PANEL:
 - MUST BE COMPATIBLE WITH MAIN FACU OF SIMPLEX MANUFACTURER.
 - MUST BE LISTED WITH CLEAN AGENT RELEASING SOLENOID.
 - MUST BE ADDRESSABLE AND BE CAPABLE OF PERFORMING ALL FUNCTIONS LISTED ON THE SEQUENCE OF OPERATIONS MATRIX.

FIRE ALARM LEGEND

RSFACU	RELEASING SERVICE FIRE ALARM CONTROL UNIT
ASD	AIR SAMPLING DETECTION CONTROL UNIT
SPD	SURGE PROTECTIVE DEVICE
CRU	COMPUTER ROOM UNIT
CA	MANUAL RELEASE STATION
CA	ABORT STATION
AIM	ADDRESSABLE INPUT MODULE
AOM	ADDRESSABLE OUTPUT MODULE
R	CONTROL/RELAY MODULE
SO	RELEASING SOLENOID (AGENT RELEASE ACTUATOR)
PS	PRESSURE SWITCH
MD	MAINTENANCE DISCONNECT SWITCH
FI	FIBER INTERFACE
S	SMOKE DETECTOR - (NO ANNOTATION = SPOT TYPE)
SYMBOL MODIFIERS	
<i>ncd</i>	CANDELA RATING
CA	CLEAN AGENT
C	CEILING MOUNT
A	AIR SAMPLING SMOKE DETECTION POINT
R	AIR SAMPLING SMOKE DETECTION POINT ON FAN COIL UNIT RETURN AIR GRILL

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 one half inch = one foot
 three quarters inch = one foot
 one quarter inch = one foot
 three eighths inch = one foot
 one eighth inch = one foot
 one sixteenth inch = one foot



RISER DIAGRAM INTENDS TO SHOW ENGINEERING INTENT AND GENERAL SYSTEM CONFIGURATION AND COMPONENTS. INTENT IS NOT TO SPECIFY QUANTITIES OR DETAILED INTERCONNECTION. FINAL COMPONENT WIRING MUST BE DEMONSTRATED ON CONTRACTOR'S SHOP DRAWINGS.

1 CLEAN AGENT RISER DIAGRAM
 NTS

INPUTS	OUTPUTS
ACTIVATE CLEAN AGENT HORNSTROBES AT ASSOCIATED ROOM - PULSING TONE	ACTIVATE CLEAN AGENT HORNSTROBES AT ASSOCIATED ROOM - STEADY TONE
ACTIVATE CLEAN AGENT HORNSTROBES AT ASSOCIATED ROOM - STEADY TONE	DETECT OUTPUT AT RSFACU INCLUDING SIGNAL TYPE AND LEVEL SYSTEM
TRANSMIT ALARM SIGNAL TO BUILDING FIRE ALARM CONTROL UNIT	START 30 SECOND PRE-DISCHARGE COUNTDOWN ON SYSTEM IN ASSOCIATED ROOM
PAUSE PRE-DISCHARGE COUNTDOWN WHILE DEPRESSIONED	ENERGIZE RELEASING CIRCUIT AND RELEASING SOLENOID ON SYSTEM IN ASSOCIATED ROOM
PHYSICALLY OPEN RELEASING CIRCUIT ON SYSTEM IN ASSOCIATED ROOM	SHUT DOWN ALL ACQUIS SUPPLYING SERVER ROOM
AUTOMATICALLY TRANSFER TO SECONDARY POWER	SMOKE DAMPER CLOSURE AT SERVER ROOM ENVELOPE

INPUTS	OUTPUTS
CLEAN AGENT SYSTEM	
MANUAL RELEASING PULL STATION	X X X X
ABORT STATION (WHILE DEPRESSIONED (DEADMAN STYLE))	X X X X
END OF PRE-DISCHARGE COUNTDOWN	X X X X
REMOVAL OF ELECTRIC ACTUATOR FROM CYLINDER	X X X X
CYLINDER LOW PRESSURE SWITCH	X X X X
ASPIRATING SMOKE DETECTION UNIT (CLEAN AGENT RELEASING)	
ALERT (0.05% OBS. PER FOOT HOLE SENSITIVITY)	X X X X
ACTION (0.275% OBS. PER FOOT HOLE SENSITIVITY)	X X X X
FIRE 1 (0.50% OBS. PER FOOT HOLE SENSITIVITY)	X X X X
FIRE 2 (1.50% OBS. PER FOOT HOLE SENSITIVITY)	X X X X
AIRFLOW OUTSIDE MANUFACTURER RANGE	X X X X
TROUBLE	X X X X
SUPERVISORY	X X X X
SUPERVISORY	
KEYED MAINTENANCE DISCONNECT SWITCH OPEN	X X X X
TROUBLE	
LOSS OF PRIMARY POWER	X X X X
LOSS OF SECONDARY POWER	X X X X
CIRCUIT FAULT	X X X X

*IF ABORT STATION RELEASED WITH LESS THAN 10 SECONDS REMAINING IN COUNTDOWN SEQUENCE, BEGIN COUNTDOWN TIMER BACK AT 10 SECONDS

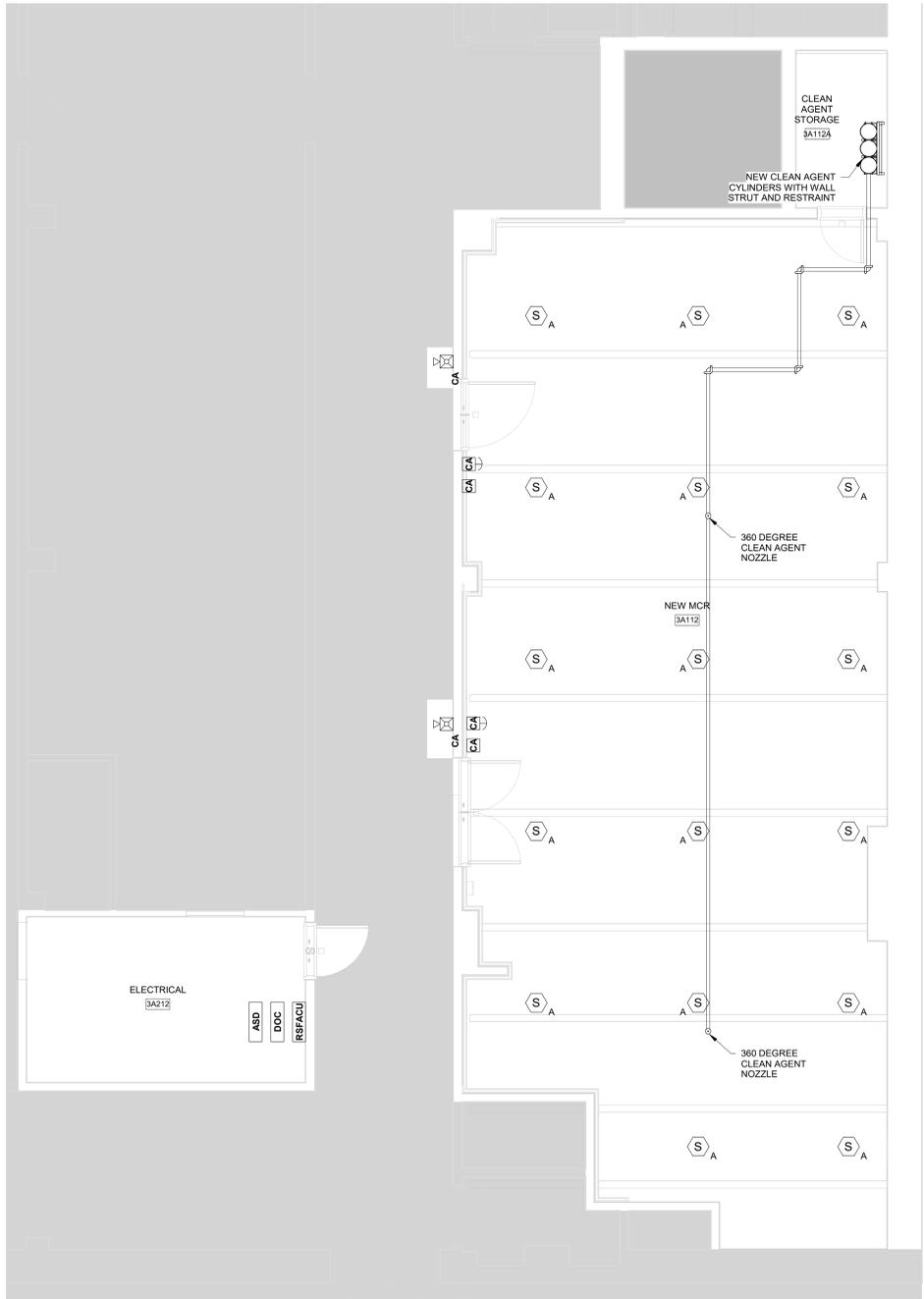
2 CLEAN AGENT RELEASING SEQUENCE OF OPERATIONS
 NTS

FINAL BID DOCUMENTS FULLY SPRINKLERED

<table border="1"> <tr> <th>No.</th> <th>REVISION DESCRIPTION</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	No.	REVISION DESCRIPTION	DATE				CONSULTANTS: FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965 INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 1139 OLIVE ST., SUITE 300 ST. LOUIS, MO 63101 (713) 864-2900	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200 PHYSICAL SECURITY FORCE PROTECT 10901 FRONT BEACH RD. #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169 COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500	ARCHITECT: SPUR SPUR DESIGN, LLC 312 SW 25TH STREET Oklahoma City, OK 73109 (405) 842-6100 ARCH REG. NO. 71069 MECH REG. NO. 123862 ELEC REG. NO. 130235 EXP. 04/30/2027 EXP. 06/30/2026 EXP. 04/30/2026	STAMP: 	Drawing Title CLEAN AGENT GENERAL NOTES AND LEGEND VA Health Care System Approval:	Project Title EHRM INFRASTRUCTURE UPGRADES TIER 3 DC MOUNTAIN HOME, TN Location JAMES H. OUILLEN VAMC LAMONT ST. AND VETERANS WAY MOUNTAIN HOME, TN 37684 Date 08/14/2025 Checked DBN Drawn GHG	Project Number 621-24-701 Building Number 77 Drawing Number FG001 Drawing # 22 OF 60	Veterans Health Administration U.S. Department of Veterans Affairs
	No.	REVISION DESCRIPTION	DATE												

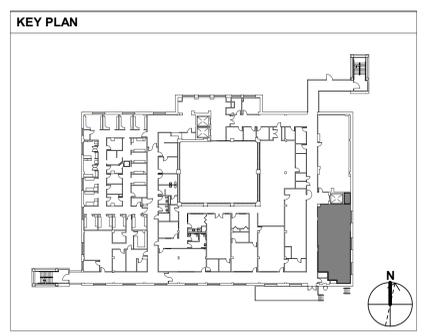
8/8/2025 3:22:39 PM

one eighth inch = one foot
 one quarter inch = one foot
 three eighths inch = one foot
 one half inch = one foot
 three quarters inch = one foot
 one inch = one foot
 one and one half inches = one foot
 two inches = one foot
 three inches = one foot
 four inches = one foot
 five inches = one foot
 six inches = one foot
 seven inches = one foot
 eight inches = one foot
 nine inches = one foot
 ten inches = one foot
 eleven inches = one foot
 twelve inches = one foot



1 ENLARGED CLEAN AGENT PLAN - BUILDING 77 - LEVEL 3
 1/4" = 1'-0"

0 2' 4' 8'



No.	REVISION DESCRIPTION	DATE

CONSULTANTS:		
FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169
INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 1139 OLIVE ST., SUITE 300 ST. LOUIS, MO 63101 (713) 864-2900	PHYSICAL SECURITY FORCE PROTECT 10901 FRONT BEACH RD. #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500

ARCHITECT:

SPUR DESIGN, LLC
 312 SW 25TH STREET
 Oklahoma City, OK 73109
 (405) 842-6100

ARCH REG. NO. 71069
 MECH REG. NO. 123862
 ELEC REG. NO. 130235

EXP. 04/30/2027
 EXP. 06/30/2026
 EXP. 04/30/2026

STAMP:

Drawing Title
ENLARGED CLEAN AGENT PLANS - BUILDING 77 - LEVEL 3 - MCR

VA Health Care System Approval:

Project Title
EHRM INFRASTRUCTURE UPGRADES TIER 3 DC MOUNTAIN HOME, TN

Location JAMES H. OUILLEN VAMC
 LAMONT ST. AND VETERANS WAY
 MOUNTAIN HOME, TN 37684

Date
 08/14/2025

Checked
 DBN

Drawn
 GHG

Project Number
 621-24-701

Building Number
 77

Drawing Number
FG101

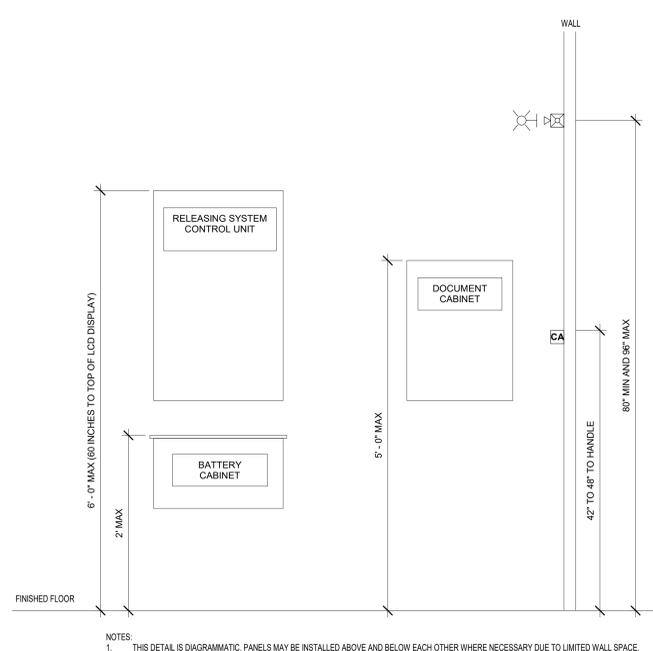
Drawing # 23 OF 60

Veterans Health Administration

U.S. Department of Veterans Affairs

FINAL BID DOCUMENTS FULLY SPRINKLERED

one eighth inch = one foot
 one quarter inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one inch = one foot
 one and one half inches = one foot
 three inches = one foot
 six inches = one foot



1 RELEASING EQUIPMENT MOUNTING HEIGHTS
 NTS



No.	REVISION DESCRIPTION	DATE

CONSULTANTS:		
FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 359-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169
INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 1139 OLIVE ST., SUITE 300 ST. LOUIS, MO 63101 (713) 864-2900	PHYSICAL SECURITY FORCE PROTECT 10901 FRONT BEACH RD. #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500

ARCHITECT:	SPUR # 2409
SPUR	SPUR DESIGN, LLC 312 SW 25TH STREET Oklahoma City, OK 73109 (405) 842-6100
ARCH REG. NO. 71069 MECH REG. NO. 123862 ELEC REG. NO. 130235	EXP. 04/30/2027 EXP. 06/30/2026 EXP. 04/30/2026



Drawing Title
CLEAN AGENT DETAILS
VA Health Care System Approval:

Project Title
EHRM INFRASTRUCTURE UPGRADES TIER 3 DC MOUNTAIN HOME, TN
Location JAMES H. OUILLEN VAMC LAMONT ST. AND VETERANS WAY MOUNTAIN HOME, TN 37684
Date 08/14/2025

Project Number
621-24-701
Building Number 77
Drawing Number
FG501
Drawing # 24 OF 60



FINAL BID DOCUMENTS FULLY SPRINKLERED

FIRE SUPPRESSION GENERAL NOTES

1. SYSTEM DESCRIPTION
 - A. THE WATER-BASED FIRE SUPPRESSION SYSTEMS IN THE SOW INCLUDE:
 1. WET PIPE FIRE SPRINKLER
2. PURPOSE OF PLANS
 - A. THESE PLANS ARE INTENDED TO DEMONSTRATE CRITERIA AND SOLICIT COMPETITIVE BIDS.
 - B. THESE PLANS ARE NOT INTENDED TO BE USED FOR CONSTRUCTION.
 - C. THE CONTRACTOR MUST PERFORM THEIR OWN COORDINATED LAYOUT WITH OTHER TRADES AS PART OF THE SHOP DRAWING PROCESS AS FURTHER DETAILED IN THE SPECIFICATIONS.
 - D. MODIFICATIONS MADE BY THE CONTRACTOR RESULTANT FROM COORDINATION, CALCULATIONS, OR CONTRACTOR INSTALLATION PREFERENCE MUST BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
 - E. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL MANUFACTURER AND MODEL DATA INDICATED HEREIN IS A BASIS OF DESIGN AND IS NOT SOLE-SOURCED. THE CONTRACTOR MAY SELECT THEIR OWN MANUFACTURER AND MODEL, EXCEPT WHERE EXPLICITLY NOTED OTHERWISE.
 - F. FITTING AND COUPLING TYPE INDICATED ON PLANS IS NOT CONTRACTUALLY BINDING; REFER TO SPECIFICATIONS FOR FITTING AND COUPLING REQUIREMENTS.
3. APPLICABLE CRITERIA
 - A. FIRE PROTECTION DESIGN MANUAL, NINTH EDITION - NOVEMBER 1, 2023
 - B. NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2025
 - C. NFPA 75, STANDARD FOR THE FIRE PROTECTION OF INFORMATION TECHNOLOGY EQUIPMENT, 2024 EDITION
4. SPECIFICATIONS
 - A. REFER TO PROJECT SPECIFICATIONS FOR MANY QUALIFICATIONS, SUBMITTAL, PRODUCT, INSTALLATION, TESTING, AND DOCUMENTATION CRITERIA.
 - B. SPECIFICATION CRITERIA STATED ON THESE PLANS IS INTENDED TO SUMMARIZE MAJOR SYSTEM CRITERIA; REFER TO SPECIFICATIONS FOR ALL DETAILS.
 - C. IN THE EVENT OF A CONFLICT BETWEEN THESE DRAWINGS AND THE SPECIFICATIONS, THE FOLLOWING CONFLICT RESOLUTION MUST BE FOLLOWED: IF THE CONFLICT IS OF EQUAL SPECIFICITY, THE MORE DEMANDING CRITERIA IS APPLICABLE. IF THE CONFLICT IS OF DIFFERING SPECIFICITY, THE MORE SPECIFIC CRITERIA IS APPLICABLE.
5. SEISMIC
 - A. SEISMIC CLASSIFICATION FOR THE PROJECT IS CATEGORY D. SEISMIC BRACING AND RESTRAINT IS REQUIRED FOR THE PROJECT.
 - B. PROVIDE CALCULATIONS OF SEISMIC BRACING AND RESTRAINT AS A COMPONENT OF SUBMITTAL SUBMISSION.
6. INSTALLATION
 - A. ALL COMPONENTS MUST BE COORDINATED WITH OTHER TRADES AND INSTALLED PARALLEL OR PERPENDICULAR TO THE BUILDING STRUCTURE.
 - B. SYSTEM INSTALLATION MUST BE PERFORMED IN A NEAT, WORKMAN-LIKE MANNER.
 - C. ALL INSTALLATION AND TESTING MUST COMPLY WITH THE APPLICABLE CRITERIA AND MANUFACTURER'S INSTRUCTIONS.
 - D. THE SYSTEM MUST BE TURNED OVER TO THE OWNER IN LIKE-NEW CONDITION. THE CONTRACTOR MUST REPLACE DAMAGED COMPONENTS WITH NEW COMPONENTS IF DAMAGED BEFORE TURNOVER.

HAZARD CLASSIFICATION HATCH LEGEND

	LIGHT HAZARD SPRINKLER: 0.1/1500 GPM/SF HOSE: 100 GPM FOR 30 MINUTES
	ORDINARY HAZARD (GROUP 1) SPRINKLER: 0.15/1500 GPM/SF HOSE: 250 GPM FOR 60 MINUTES



FINAL BID DOCUMENTS FULLY SPRINKLERED

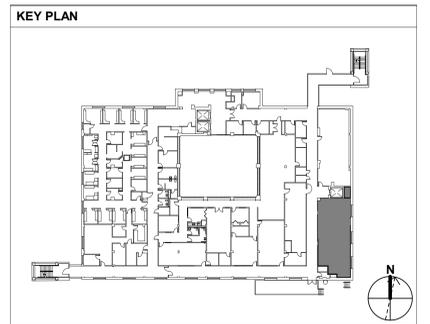
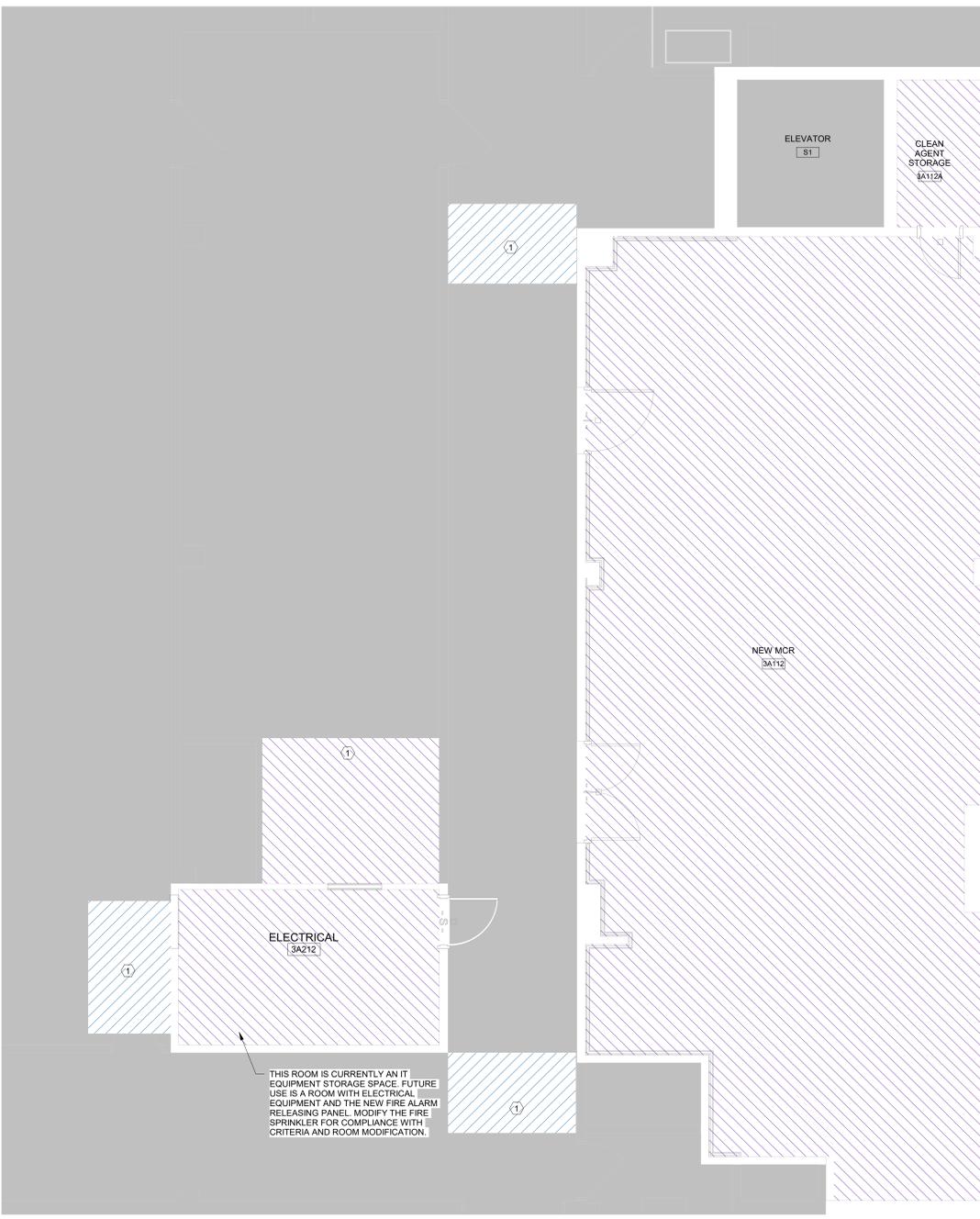
No.	REVISION DESCRIPTION	DATE	CONSULTANTS:			ARCHITECT:	SPUR # 2409	STAMP:	Drawing Title FIRE SPRINKLER GENERAL NOTES AND LEGEND	Project Title EHRM INFRASTRUCTURE UPGRADES TIER 3 DC MOUNTAIN HOME, TN	Project Number	Veterans Health Administration
			FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169						Building Number 77	
			INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 1139 OLIVE ST, SUITE 300 ST. LOUIS, MO 63101 (713) 864-2900	PHYSICAL SECURITY FORCE PROTECT 10901 FRONT BEACH RD, #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500	ARCH REG. NO. 71069 MECH REG. NO. 123862 ELEC REG. NO. 130235	EXP. 04/30/2027 EXP. 06/30/2026 EXP. 04/30/2026	VA Health Care System Approval:	Location JAMES H. OUILLEN VAMC LAMONT ST. AND VETERANS WAY MOUNTAIN HOME, TN 37684	Drawing Number FX001	U.S. Department of Veterans Affairs	
								Date 08/14/2025	Checked DBN	Drawn GHG		Drawing # 25 OF 60

Scale indicators on the left margin:
 three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot

HAZARD CLASSIFICATION HATCH LEGEND

	LIGHT HAZARD SPRINKLER: 0.1/1500 GPM/SF HOSE: 100 GPM FOR 30 MINUTES
	ORDINARY HAZARD (GROUP 1) SPRINKLER: 0.15/1500 GPM/SF HOSE: 250 GPM FOR 60 MINUTES

KEYNOTE LEGEND	
NUMBER	NOTE
1	FIRE SPRINKLER COVERAGE MUST REMAIN COMPLIANT AROUND TEMPORARY PARTITIONS. MODIFY SPRINKLER COVERAGE AS NECESSARY ACCOMMODATE TEMPORARY BARRIERS AND RESTORE SPRINKLER CONFIGURATION AFTER CONSTRUCTION ENDS.



1 ENLARGED FIRE SUPPRESSION PLAN - BUILDING 77 - LEVEL 3
1/4" = 1'-0"



FINAL BID DOCUMENTS FULLY SPRINKLERED

No.	REVISION DESCRIPTION	DATE

CONSULTANTS:		
FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169
INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 1139 OLIVE ST., SUITE 300 ST. LOUIS, MO 63101 (713) 864-2900	PHYSICAL SECURITY FORCE PROTECT 10901 FRONT BEACH RD, #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500

ARCHITECT: SPUR # 2409

SPUR DESIGN, LLC
312 SW 25TH STREET
Oklahoma City, OK 73109
(405) 842-6100

ARCH REG. NO. 71069 EXP. 04/30/2027
MECH REG. NO. 123862 EXP. 06/30/2026
ELEC REG. NO. 130235 EXP. 04/30/2026



Drawing Title ENLARGED FIRE SPRINKLER PLANS - BUILDING 77 - LEVEL 3 - MCR
VA Health Care System Approval:

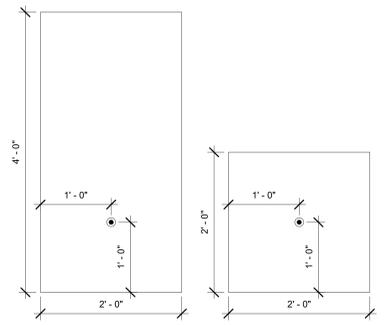
Project Title EHRM INFRASTRUCTURE UPGRADES TIER 3 DC MOUNTAIN HOME, TN
Location JAMES H. OUILLEN VAMC LAMONT ST. AND VETERANS WAY MOUNTAIN HOME, TN 37684
Date 08/14/2025

Project Number 621-24-701
Building Number 77
Drawing Number FX101
Drawing # 26 OF 60

Veterans Health Administration

VA U.S. Department of Veterans Affairs

one eighth inch = one foot
 one quarter inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one inch = one foot
 one and one half inches = one foot
 three inches = one foot
 six inches = one foot



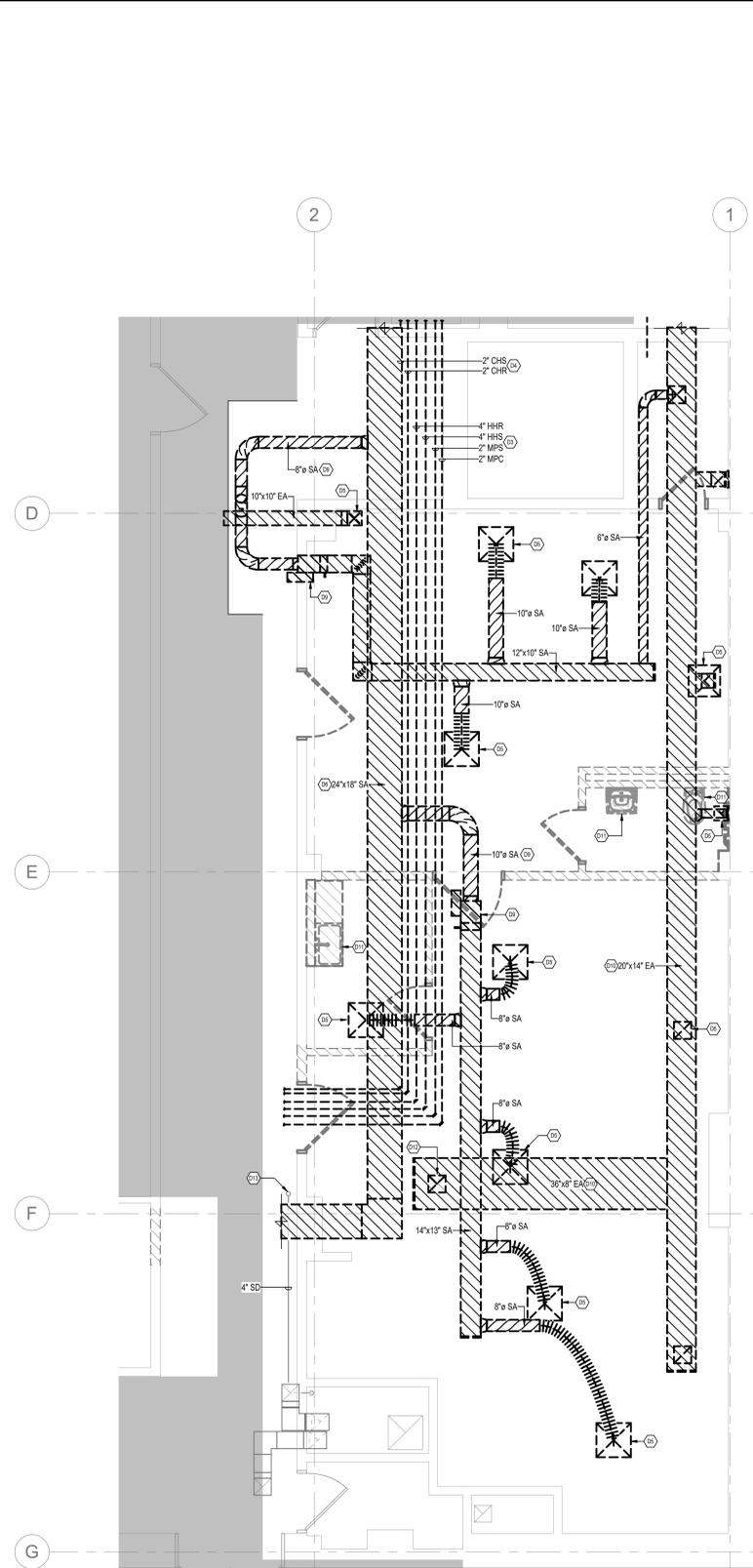
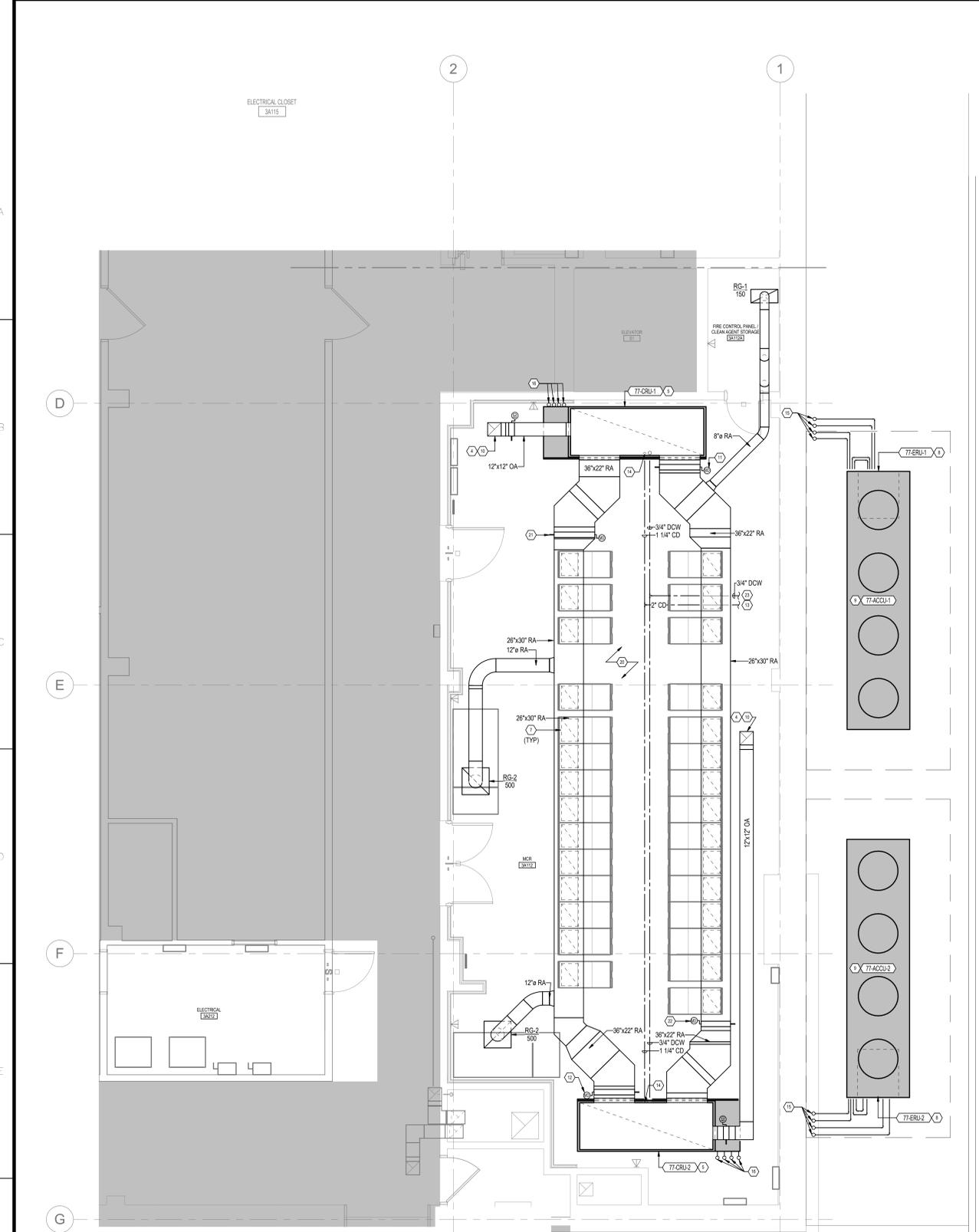
- DETAIL NOTES:**
1. INSTALL SPRINKLERS IN 2' X 4' AND 2' X 2' CEILING TILES AS INDICATED ABOVE.
 2. ALIGN SPRINKLERS AMONGST ADJACENT CEILING TILES WHERE IN THE SAME FIELD OF VIEW INCLUDING THROUGH OPEN DOORS AND GLASS PARTITIONS.
 3. WHERE SPRINKLERS ARE INSTALLED IN CEILINGS OTHER THAN 2' X 4' AND 2' X 2' CEILING TILES, ALIGN WITH LIGHTS, DIFFUSERS, AND ARCHITECTURAL FEATURES.
 4. THIS DETAIL APPLIES ONLY TO NEW OR MODIFIED SPRINKLER HEADS. THIS DETAIL DOES NOT APPLY TO EXISTING TO REMAIN SPRINKLERS WITHIN THE SCOPE OF WORK AREA.

1 FIRE SPRINKLER CEILING TILE INSTALLATION DETAIL

FINAL BID DOCUMENTS FULLY SPRINKLERED

No.	REVISION DESCRIPTION	DATE	CONSULTANTS:			ARCHITECT:	SPUR #. 2409	STAMP:	Drawing Title	Project Title	Project Number	Veterans Health Administration
			FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169	SPUR	SPUR DESIGN, LLC 312 SW 25TH STREET Oklahoma City, OK 73109 (405) 842-6100		Professional Engineer Seal for James H. Quillen, State of Oklahoma, License No. 34430, Expires 06/30/2026.	FIRE SPRINKLER DETAILS	EHRM INFRASTRUCTURE UPGRADES TIER 3 DC MOUNTAIN HOME, TN	
			INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 1139 OLIVE ST., SUITE 300 ST. LOUIS, MO 63101 (713) 864-2900	PHYSICAL SECURITY FORCE PROTECT 10901 FRONT BEACH RD. #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500		VA Health Care System Approval:	Location JAMES H. OUILLEN VAMC LAMONT ST. AND VETERANS WAY MOUNTAIN HOME, TN 37684	Drawing Number FX501	Drawing # 27 OF 60	U.S. Department of Veterans Affairs	

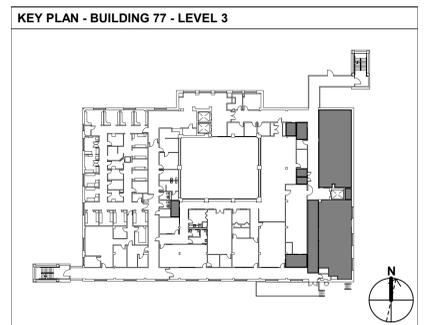
three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 one quarter inch = one foot
 three eighths inch = one foot
 one eighth inch = one foot
 one sixteenth inch = one foot



- GENERAL NOTES**
- CONTRACTOR SHALL DEMOLISH AND REMOVE ANY ABANDONED IN PLACE DUCTWORK OR PIPING DURING DEMOLITION WORK.
 - CONTRACTOR SHALL RELOCATE ANY EXISTING TO REMAIN DUCTWORK OR PIPING OUTSIDE OF THE MCR SPACE. ALL SHUTDOWNS MUST BE COORDINATED WITH THE LOCAL VA STAFF.
 - ALL EXISTING TO REMAIN EQUIPMENT, DIFFUSERS, AND GRILLES ON SYSTEMS AFFECTED BY DEMOLITION OR RELOCATION TO HAVE PRE-TAB COMPLETED BEFORE WORK STARTS AND FINAL TAB AFTER WORK IS COMPLETED TO ENSURE EXISTING SPACES REMAIN UNAFFECTED.
 - IF ANY EXISTING TO REMAIN DUCTWORK OR PIPING IS DETERMINED TO BE UNABLE TO BE RELOCATED, DRAIN PANS WITH LEAKAGE DETECTION SYSTEM MUST BE INSTALLED BENEATH ALL EXISTING TO REMAIN EQUIPMENT WITHIN THE MCR SPACE TO PROTECT SERVER RACK(S) FROM ALL OVERHEAD MECHANICAL AND PLUMBING PIPING. DRAIN PAN LEAK DETECTION SENSORS SHALL BE TIED TO COMPUTERS BAS AND CONNECTED TO THE CONDENSATE DRAIN PIPING.
- DEMOLITION KEYNOTES**
- CONTRACTOR TO VERIFY MECHANICAL PIPING IS STILL IN USE. CONTRACTOR SHALL DEMOLISH AND RELOCATE EXISTING MECHANICAL PIPING TO THE CORRIDOR WEST OF THE MCR.
 - CONTRACTOR SHALL DEMOLISH CHILLED HYDROVIC SUPPLY AND RETURN PIPING SERVING AC-1 BACK TO MAIN AND CAP.
 - CONTRACTOR SHALL DEMOLISH DIFFUSERS, GRILLES, AND DUCTWORK BACK TO MAIN AND CAP.
 - CONTRACTOR SHALL DEMOLISH AND RELOCATE DUCT MAIN TO CORRIDOR WEST OF NEW MCR.
 - CONTRACTOR TO VERIFY EXISTING DUCTWORK AND VAN BOX ARE NO LONGER IN USE. DEMOLISH TERMINAL UNIT INCLUDING SUPPLY DEVICES, DUCTWORK, REHEAT COIL, PIPING, CONTROLS, AND ASSOCIATED ACCESSORIES. DISCONNECT MEDIUM PRESSURE SUPPLY DUCT FROM MAIN AND SEAL THE PENETRATION AIR-TIGHT PRIOR TO REMOVING TERMINAL UNIT AND DISTRIBUTION SYSTEM DOWNSTREAM. IF DUCTWORK IS STILL IN USE, CONTRACTOR TO RELOCATE TERMINAL UNIT, DUCT, PIPING, AND ACCESSORIES TO THE CORRIDOR WEST OF THE MCR.
 - CONTRACTOR SHALL VERIFY IF EXHAUST DUCTWORK SERVES ANY SPACES NOT SHOWN AND REROUTE DUCTWORK THROUGH WEST CORRIDOR, IF REQUIRED.
 - CONTRACTOR SHALL DEMOLISH PLUMBING FIXTURE AS WELL AS ANY PIPING OR ACCESSORIES SERVING FIXTURE BACK TO MAIN. FUTURE POINT OF CONNECTION TO DCW AND SS FOR CRU HUMIDIFIER AND CONDENSATE DRAIN.
 - CONTRACTOR SHALL RELOCATE EXISTING EXHAUST FAN, CURB, CONTROLS, AND ANY ASSOCIATED ACCESSORIES TO ABOVE THE CORRIDOR. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR R/FLL, ROOFWORK, AND WEATHERPROOFING DETAILS.
 - STORM WATER DISCHARGE FROM ROOF DRAIN ABOVE. EXISTING TO REMAIN.
- KEYNOTES**
- OUTSIDE AIR DUCT RISER TO GRAVITY INTAKE HOOD ON ROOF ABOVE.
 - CONTRACTOR SHALL INSTALL COMPUTER-ROOM AIR CONDITIONING UNIT WITH ENERGY RECOVERY UNIT ON THE REFRIGERANT LOOP. PROVIDE ALL REFRIGERANT, DOW, AND CONDENSATE PIPING AND ACCESSORIES. REFERENCE MANUFACTURER'S INSTALLATION INSTRUCTION FOR REFRIGERANT AND CONDENSATE PIPE SIZE. ROUTE 1/4\"/>

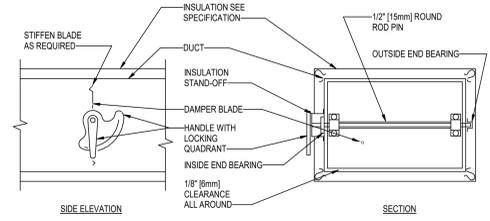
2 BLDG 77 - LEVEL 3 - 3A109 - MECHANICAL NEW PLAN
 1/4" = 1'-0"

1 BLDG 77 - LEVEL 3 - 3A109 - MECHANICAL DEMO PLAN
 1/4" = 1'-0"



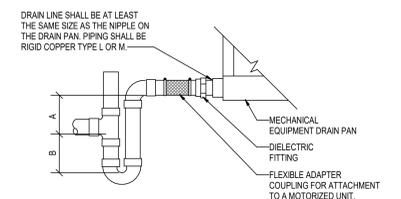
FINAL BID DOCUMENTS FULLY SPRINKLERED

No.	REVISION DESCRIPTION	DATE	CONSULTANTS:			ARCHITECT:	SPUR # 2409	STAMP:	Drawing Title MECHANICAL ENLARGED PLANS	Project Title EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN	Project Number 621-24-701	Building Number 77	Drawing Number M-401	Drawing # 31 OF 60
			FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 956-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (405) 956-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169									



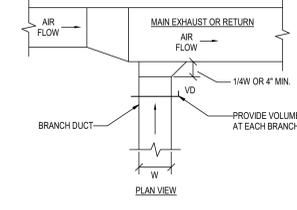
NOTE:
 1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
 2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

12 VOLUME DAMPER
NOT TO SCALE

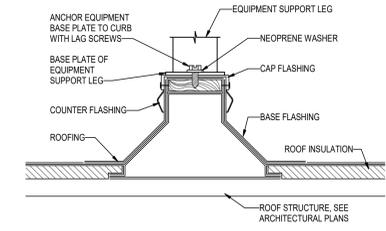


NOTE:
 1. DIELECTRIC FITTING TO BE USED WHEN TWO DISSIMILAR METALS ARE TO BE CONNECTED.
 2. REFERENCE FLOOR PLANS FOR EXACT SIZE AND ROUTING OF CONDENSATE DRAIN PIPING.

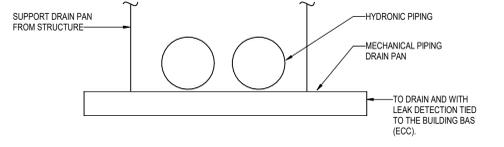
11 COMPUTER ROOM UNIT CONDENSATE TRAP DETAIL
NOT TO SCALE



10 EXHAUST OR RETURN BRANCH DUCTWORK
NOT TO SCALE

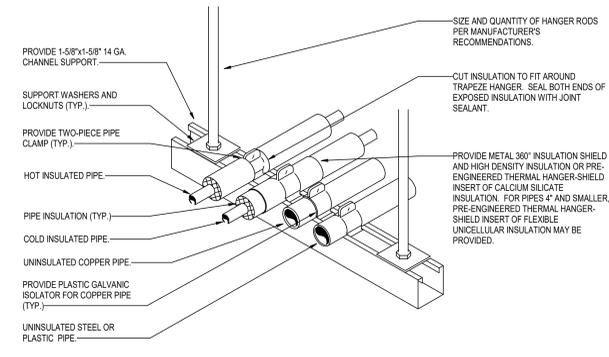


9 ROOF BASE RAIL DETAIL
NOT TO SCALE



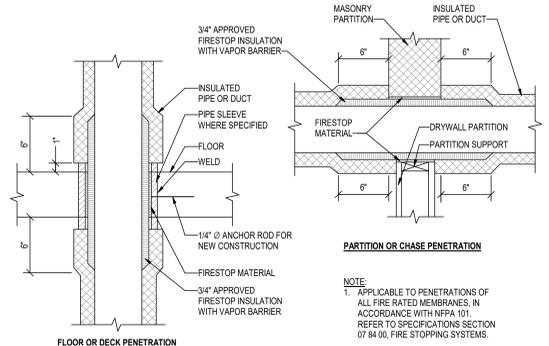
NOTE:
 1. PROVIDE DRAIN PAN WITH WATER LEVEL LEAK DETECTION SENSOR TO SEND ALARM TO JOHNSON CONTROLS (JC) BAS WHEN WATER LEVEL EXCEEDS SETPOINT.
 2. DRAIN PIPE AT SIDE OR BOTTOM. SLOPE PAN TOWARD DRAIN PIPE CONNECTION. CROSS BREAK BOTTOM OF PAN TO DRAIN PIPE CONNECTION. LOCATIONS AND CONFIGURATIONS BASED ON ACTUAL SITE CONDITIONS.

8 AUXILIARY DRAIN PAN DETAIL
NOT TO SCALE

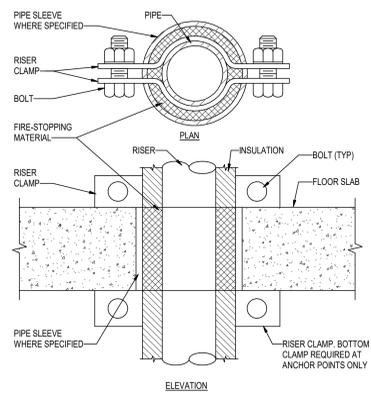


NOTE:
 PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. REFER TO SPECIFICATIONS FOR MORE INFORMATION. PIPE AND CONDUIT OF ALL TRADES MAY BE COMBINED ON THE SAME SUPPORT CHANNEL. COORDINATE SUPPORT CHANNEL LENGTH WITH PIPING AND CONDUIT TO BE SUPPORTED. SUPPORT CHANNEL SPACING SHALL BE DETERMINED BY SMALLEST PIPE TO BE SUPPORTED. CHANNEL SUPPORT MAY BE USED AS A WALL BRACKET. ATTACH TO WALL WITH ANCHOR BOLTS PER SPECIFICATIONS. FOR HORIZONTAL INSULATED PIPING, ATTACH CLAMPS AS INDICATED ABOVE. FOR VERTICAL INSULATED PIPING, ATTACH CLAMPS TO THE PIPE AND SEAL INSULATION AT BOTH CLAMP ENDS.

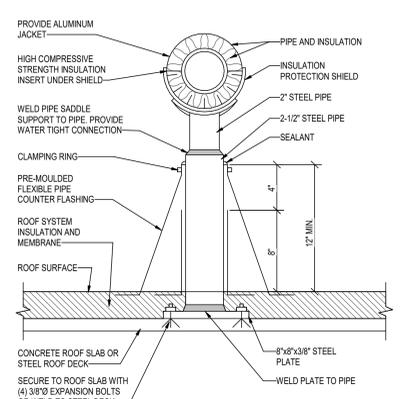
7 TRAPEZOID PIPE HANGER DETAIL
NOT TO SCALE



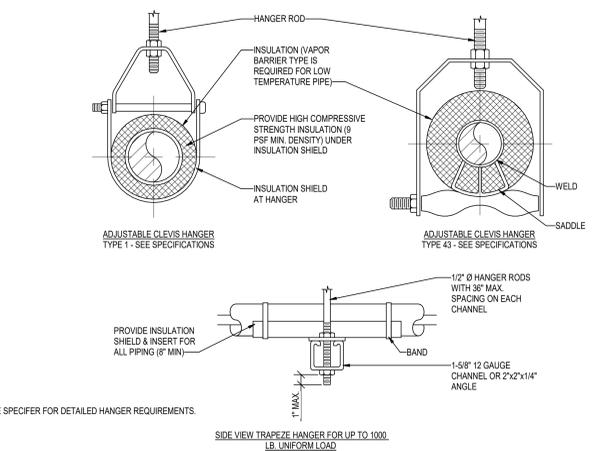
6 PIPE/DUCT PENETRATION OF SMOKE/FIRE BARRIER DETAIL
NOT TO SCALE



5 SUPPORT ANCHOR FOR PIPE RISER DETAIL
NOT TO SCALE



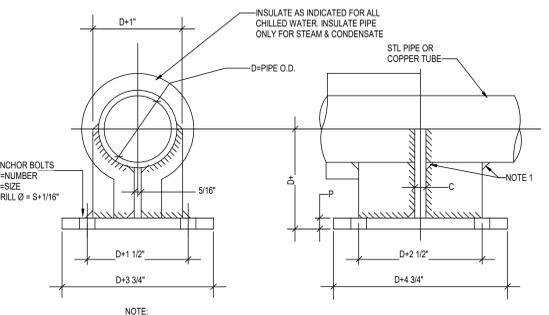
4 PIPE ON ROOF SUPPORT DETAIL
NOT TO SCALE



NOM. SIZE	IN.	THRU 3/4"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
PIPE	FT.	7	7	7	9	10	11	12	14	16	17	19	22	23	25	27	30	32
TUBING	FT.	5	6	7	8	8	9	10	12	13	14	16	-	-	-	-	-	-

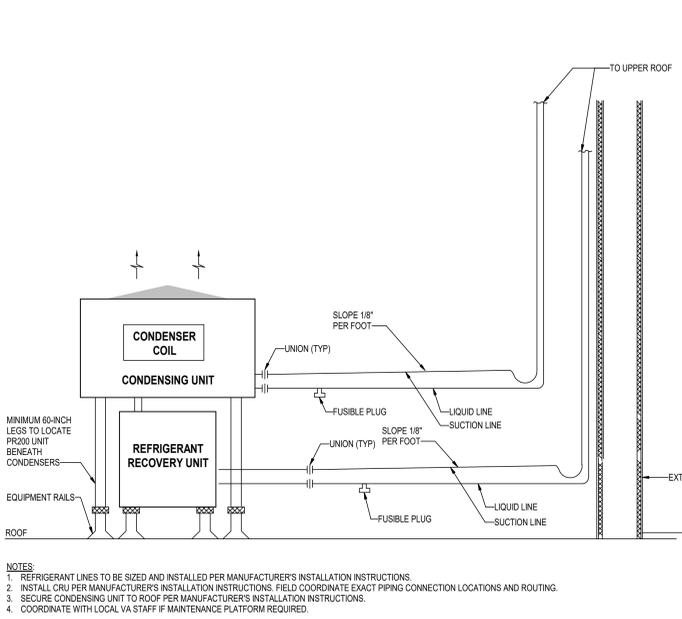
NOTE: FOR TRAPEZOID HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZOID.

3 PIPE HANGER DETAIL
NOT TO SCALE

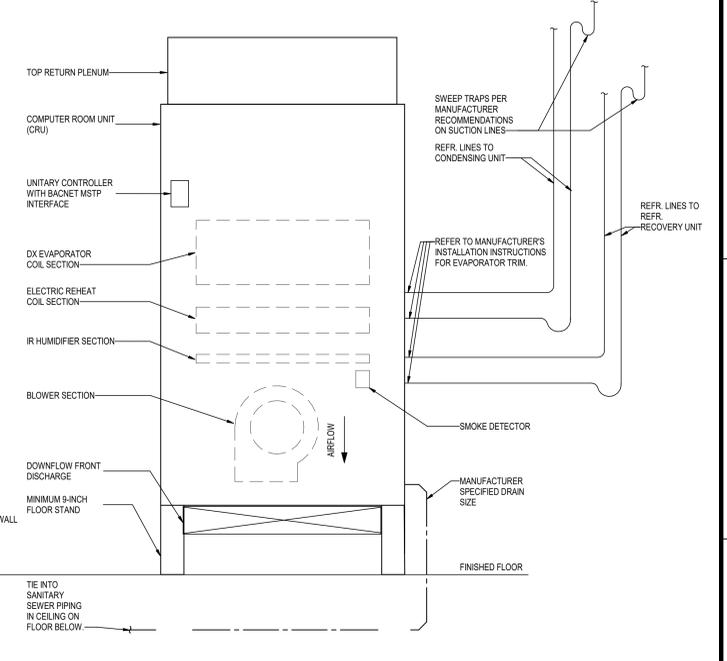


2 PIPE ANCHOR DETAIL
NOT TO SCALE

D	P		C		N		S		BOLT PATTERN	
	IN	MM	IN	MM	IN	MM	IN	MM		
4"	102	2540	16	406	19	483	4"	102	2540	+
3"	76	1930	13	330	13	330	4"	102	2540	+
2 1/2"	64	1626	10	254	10	254	4"	102	2540	+
2"	51	1295	10	254	10	254	4"	102	2540	+
1 1/2"	38	965	10	254	6	152	4"	102	2540	+



1 COMPUTER ROOM UNIT DETAIL
NOT TO SCALE



FINAL BID DOCUMENTS FULLY SPRINKLERED

Project Title: **EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN**

Project Number: **621-24-701**

Building Number: **77**

Drawing Number: **M-501**

Drawing # 32 OF 60

Location: **JAMES H. OUILLEN VAMC LAMONT ST. AND VETERANS WAY MOUNTAIN HOME, TN 37864**

Date: **08/14/2025**

Checked: **RJS**

Drawn: **BAJ**

VA Health Care System Approval:

SPUR # 2409

ARCHITECT: **SPUR DESIGN, LLC**
 312 SW 25TH STREET
 Oklahoma City, OK 73109
 (405) 842-6100

STAMP: **SPUR**

MECHANICAL DETAILS

VA Department of Veterans Affairs

COMPUTER ROOM UNIT SCHEDULE (CRU-X)

MARK	BASIS OF DESIGN (MANUFACTURER / MODEL)	LOCATION	REFR TYPE	SUPPLY FAN			DIX COOLING COIL					ELECTRIC HEATING COIL		HUMIDIFIER		ELECTRICAL			WEIGHT	NOTES	
				AIR FLOW (CFM)	ESP IN	HP	TOTAL (MBH)	SENSIBLE (MBH)	EAT DB	EAT WB	LAT DB	LAT WB	CAP MBH	KW	MIN. NO. STAGES	LBS/HR	MCA	MOCP			VOLTS/PH
77-CRU-1	Vertiv / DA125 w Economphase	MCR - 3A112	R-454B	18040	0.25	3.75	498	412	95	67.1	68.2	58.2	51.2	15	3	22	100.0	110.0	4603	3465	ALL LISTED
77-CRU-2	Vertiv / DA125 w Economphase	MCR - 3A112	R-454B	18040	0.25	3.75	498	412	95	67.1	68.2	58.2	51.2	15	3	22	100.0	110.0	4603	3465	ALL LISTED

- NOTES:
- EQUIPMENT SIZED FOR 100°F AMBIENT TEMPERATURE.
 - PROVIDE 2" MERV 8 THROWAWAY AIR FILTERS.
 - PROVIDE DIGITAL SCROLL COMPRESSOR WITH UNLOADING CAPACITY TO 20% OF FULL LOAD, SOUND JACKET, AND THERMAL EXPANSION VALVE.
 - PROVIDE UNIT WITH INTEGRAL STARTER AND LOCKING DISCONNECT SWITCH.
 - SPECIFIED FAN ESP DOES NOT INCLUDE LOSSES FOR DIRTY FILTER.
 - PROVIDE INFRARED TYPE HUMIDIFIER.
 - PROVIDE DOWNFLOW FRONT DISCHARGE CABINET CONFIGURATION.
 - PROVIDE CONDENSATE PUMP.
 - PROVIDE MINIMUM 9" STAND.
 - UNIT SELECTION TO INCLUDE SMOKE SENSOR.
 - PROVIDE WITH OPEN COMPUTROLS BACKNET COMPATIBLE CONTROLS. CONTROL COST TO INCLUDE INTEGRATING TO THE EXISTING COMPUTROLS BAS.
 - CRU SHALL BE OF THE SAME MANUFACTURER AS THE ASSOCIATED ACCU.

DIFFUSER, REGISTER, AND GRILLE SCHEDULE

MARK	BASIS OF DESIGN (MANUFACTURER / MODEL)	MOUNTING	TYPE	FACE SIZE	NECK SIZE	MAX NC	MAX PD (IN/WC)	NOTES
RETURN								
RG-1	TITUS / SFJ	DUCT MOUNTED	EGGCRATE SQUARE FACE 1/2" GRID	24"x12"	22"x10"-8"	45	0.08	ALL LISTED
RG-2	TITUS / SFJ	DUCT MOUNTED	EGGCRATE SQUARE FACE 1/2" GRID	24"x24"	22"x22"-12"	45	0.08	ALL LISTED

- NOTES:
- PROVIDE MANUAL BALANCING DAMPER AT TAP TO MAIN DUCT. IF TAP IS ABOVE INACCESSIBLE CEILING, PROVIDE OPPOSED BLADE DAMPER FOR GRILLES AND RADIAL DAMPERS IN DIFFUSERS WITH ROUND NECK AT FACE OF DEVICE.
 - MOUNT DEVICE ON DUCT EITHER VERTICALLY DOWN; REFER TO PLANS FOR ORIENTATION.
 - PROVIDE FACTORY OR SHOP BUILT PLENUM WITH TAP. REFER TO PLANS FOR RUN-OUT SIZE.
 - BRANCH DUCT SIZE SHALL BE SAME AS NECK SIZE UNLESS OTHERWISE SHOWN ON DRAWINGS.
 - PROVIDE INSULATED PLENUM AND NECK.

LOUVERED INTAKE HOOD SCHEDULE (IH-X)

MARK	BASIS OF DESIGN (MANUFACTURER/MODEL)	LOCATION	SERVICE	AIRFLOW (CFM)	ESP (IN WC)	HORSEPOWER (HP)	ELECTRICAL (FLA (A) MOCP (A) VPH)	WEIGHT (LBS.)	NOTES
77-IH-1	Loren Cook Company / 90ASP-T / GI	UPPER ROOF	77-CRU-1	750	0.25	0.167	4.4 5 115/1	148	ALL LISTED
77-IH-2	Loren Cook Company / 90ASP-T / GI	UPPER ROOF	77-CRU-2	750	0.25	0.167	4.4 5 115/1	148	ALL LISTED

- NOTES:
- PROVIDE WITH INTEGRAL DISCONNECT.
 - PROVIDE WITH VFD.
 - PROVIDE WITH 16" MINIMUM HIGH CURB PER SPECIFICATIONS.
 - PROVIDE WITH BIRD AND INSECT SCREEN.

AIR-COOLED CONDENSER SCHEDULE (ACCU-X)

MARK	BASIS OF DESIGN (MANUFACTURER/MODEL)	LOCATION	SERVICE	REFR. TYPE	TOTAL (MBH)	SENSIBLE (MBH)	WEIGHT (LBS.)	NOTES
77-ACCU-1	Emerson Electric Co. / MCL220E8YD	ROOF	77-CRU-1	R-454B	498	498	1835	ALL LISTED
77-ACCU-2	Emerson Electric Co. / MCL220E8YD	ROOF	77-CRU-2	R-454B	498	498	1835	ALL LISTED

- NOTES:
- EQUIPMENT SIZED FOR 95°F AMBIENT TEMPERATURE.
 - PROVIDE LOW AMBIENT CONTROL TO 0°F AND USE LOW AMBIENT OIL.
 - COORDINATE WITH THE MANUFACTURER THE HORIZONTAL AND VERTICAL PIPE ROUTING TO DETERMINE SIZES FOR THE REFRIGERANT PIPING. MANUFACTURER SHALL PROVIDE DETAILED REFRIGERANT PIPING DIAGRAMS INCLUDING DIMENSIONAL DATA FOR ALL REFRIGERANT PIPING DEVICES. THE MANUFACTURER SHALL SIZE AND LOCATE THE ASSOCIATED REFRIGERANT TRAPS BASED ON THE ACTUAL ROUTING AND PROVIDE OTHER APPURTENANCES TO PROVIDE A FULLY FUNCTIONAL AND OPERATIONAL SYSTEM.
 - CONTRACTOR SHALL COORDINATE REFRIGERANT PIPE CONFIGURATION, SIZE, AND ROUTING AS RECOMMENDED BY MANUFACTURER.
 - PROVIDE LIQUID LINE FILTER DRYER AND SIGHT GLASS.
 - PROVIDE FACTORY MOUNTED DISCONNECT INSTALLED ON SERVICE SIDE OF UNIT.
 - PROVIDE PREFABRICATED EQUIPMENT SUPPORT RAILS.
 - STARTERS FOR ALL MOTORS SHALL BE FURNISHED INTEGRAL AND WITH UNIT.
 - PROVIDE CONDENSER COIL HAIL GUARDS.
 - COORDINATE SIZE OF CONDUCTOR TERMINATION LUGS WITH CONDUCTOR SIZES SHOWN ON ELECTRICAL DRAWINGS.
 - ACCU UNIT SHALL BE OF THE SAME MANUFACTURER AS THE ASSOCIATED CRU.
 - ACCU RECEIVES POWER FROM POWER BLOCK IN CRU.

DUCT CONSTRUCTION SCHEDULE

SMAACNA HVAC Duct Construction Standards with VA overrides. Refer to Specification section 233100 HVAC Ducts and Casings for page and joint requirements.

DUCTS CONNECTED TO	DUCT MATERIAL	PRESSURE CLASS	SEAL CLASS	LEAKAGE CLASS (RECT)	LEAKAGE CLASS (RND)
SUPPLY					
FAN COIL UNITS, FURNACES, HEAT PUMPS, AND TERMINAL UNITS	GALVANIZED SHEETMETAL	2	A	16	8
OPERATING ROOMS (DOWNSTREAM OF HEPA FILTERS)	304 STAINLESS STEEL	2	A	16	8
CONSTANT VOLUME AIR HANDLING UNITS	GALVANIZED SHEETMETAL	2	A	8	4
VARIABLE AIR VOLUME AIR HANDLING UNITS - MED PRESSURE	GALVANIZED SHEETMETAL	3	A	8	4
VARIABLE AIR VOLUME AIR HANDLING UNITS - HIGH PRESSURE	GALVANIZED SHEETMETAL	4	A	4	2
EQUIPMENT NOT LISTED	GALVANIZED SHEETMETAL	2	A	8	4
OUTSIDE AIR					
EQUIPMENT NOT LISTED	GALVANIZED SHEETMETAL	2	A	16	8
RETURN					
FAN COIL UNITS, FURNACES, HEAT PUMPS, AND TERMINAL UNITS	GALVANIZED SHEETMETAL	2	A	16	8
CONSTANT VOLUME AIR HANDLING UNITS	GALVANIZED SHEETMETAL	2	A	16	8
VARIABLE AIR VOLUME AIR HANDLING UNITS	GALVANIZED SHEETMETAL	2	A	8	4
EQUIPMENT NOT LISTED	GALVANIZED SHEETMETAL	2	A	16	8
EXHAUST					
GENERAL CLEAN EXHAUST (ASHRAE 62.1 CLASS 1 OR 2)	GALVANIZED SHEETMETAL	2	A	16	8
AIR HANDLING UNITS	GALVANIZED SHEETMETAL	2	A	8	4
KITCHEN HOODS	304 STAINLESS STEEL	2	A	4	2
DISHWASHER OR HIGH HUMIDITY LOCATIONS	304 STAINLESS STEEL	2	A	4	2
FUME HOOD, LABORATORY AND PROCESS AIR (ASHRAE 62.1 CLASS 3 OR 4)	304 STAINLESS STEEL	3	A	4	2
EQUIPMENT NOT LISTED	GALVANIZED SHEETMETAL	2	A	16	8

ENERGY RECOVERY UNIT SCHEDULE (ERU-X)

MARK	BASIS OF DESIGN (MANUFACTURER/MODEL)	LOCATION	SERVICE	REFR. TYPE	WEIGHT (LBS.)	NOTES
77-ERU-1	Vertiv / PR200A**3	ROOF	77-CRU-1	R-454B	350	ALL LISTED
77-ERU-2	Vertiv / PR200A**3	ROOF	77-CRU-2	R-454B	350	ALL LISTED

- NOTES:
- ERU RECEIVES POWER FROM POWER BLOCK IN ACCU.

FINAL BID DOCUMENTS FULLY SPRINKLERED

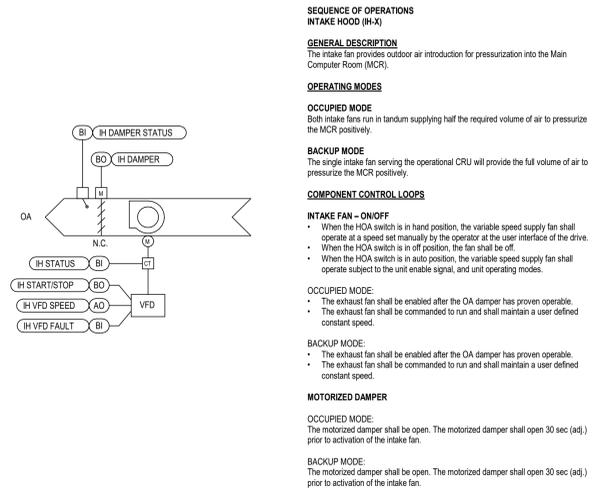
No.	REVISION DESCRIPTION	DATE	CONSULTANTS:			ARCHITECT:	SPUR #. 2409	STAMP:	Drawing Title MECHANICAL SCHEDULES	Project Title EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN	Project Number 621-24-701	Building Number 77	Drawing Number M-601	Drawing # 34 OF 60	Veterans Health Administration
			FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169										

POINT NAME	TREND INTERVAL	OPERATIONAL TREND DURATION	TESTING TREND DURATION
AI	15 MIN	24 HOURS	3 DAYS
BI	CHANGE OF VALUE	24 HOURS	3 DAYS
AO	15 MIN	24 HOURS	3 DAYS
BO	CHANGE OF VALUE	24 HOURS	3 DAYS
CALC	1 HOUR	30 DAYS	N/A

NOTES:
1. SEE EQUIPMENT POINT LISTS FOR EQUIPMENT SPECIFIC TRENDRING REQUIREMENTS.

PROJECT DESIGN CONDITIONS						
CLIMATE CONDITIONS	2021 ASHRAE CLIMATE DATA / 72350					
WEATHER STATION	ASHRAE CLIMATE ZONE					
HEATING 99.6% (F DB)	44					
HUMIDIFICATION 99.6% (DP / HR / MCOB)	1.1 F / 6.1 / 19.4 F					
COOLING 0.4% (DB / MCOB)	80.5 FDB / 17.9 FWB					
DEHUMIDIFICATION 0.4% (DP / HR / MCOB)	72.2 FDB / 126.2 / 78.8 FWB					
MAX. AMBIENT DB TEMP (50 YRS)	101.7 F					
MIN. AMBIENT DB TEMP (50 YRS)	-12.8 F					
BUILDING OPERATING HOURS (VERIFY WITH STATION)	24/7					
ALL DAYS	24/7					
NOTES:	1. ZONE LEVEL OCCUPANCY HOUR SCHEDULE SHALL BE PER BUILDING OPERATING HOURS UNLESS OTHERWISE SCHEDULED. 2. ZONE LEVEL SET POINT CONDITIONS SHALL BE AS SCHEDULED UNLESS OTHERWISE SCHEDULED OR NOTED FOR ROOM SPECIFIC SPACE CONDITIONS.					
HVAC DESIGN MANUAL						
SPACE / UNIT DESCRIPTIONS	COOLING OCC. FDB UNOCC. FDB	HEATING OCC. FDB UNOCC. FDB	HUMIDIFICATION MAX. %RH MIN. %RH	MAX. NOISE LEVEL NC	ROOM AIR BALANCE (+) (+) (-) (-) (+) (-)	NOTES
OIT MAIN COMPUTER ROOM	81 NA 64 NA	64 NA 60% 30%	45 (+) 1-2			
OIT IT ACTIVE EQUIPMENT	81 NA 64 NA	60% 30% 45 (+) 1-2				
OIT IT PASSIVE DISTRIBUTION EQUIPMENT	81 NA 64 NA	60% 30% 45 (+) 1-2				
FMS ACTIVE EQUIPMENT	81 NA 64 NA	60% 30% 45 (+) 1-2				
FMS PASSIVE DISTRIBUTION EQUIPMENT	81 NA 64 NA	60% 30% 45 (+) 1-2				

MECHANICAL CONTROLS LEGEND	
ABBREVIATIONS	SYMBOLS
A	EQUIPMENT
AI ANALOG INPUT	CHILLED WATER COIL
AO ANALOG OUTPUT	DIRECT EXPANSION COIL
AV ANALOG VIRTUAL	HOT WATER COIL
AFS AIRFLOW STATION	HOT WATER INTEGRAL FACE AND BYPASS COIL
AF AFTER FILTER	ELECTRIC HEATING COIL
AFCV AIRFLOW CONTROL VALVE	GAS FURNACE
AHU AIR HANDLING UNIT	DIFFERENTIAL PRESSURE
B	DUCTWORK
BAC BUILDING AUTOMATION CONTROL	AIRFLOW STATION
BI BINARY INPUT	AIRFLOW SENSOR
BO BINARY OUTPUT	SMOKE DETECTOR
BV BINARY VIRTUAL	TEMPERATURE SENSOR
BP BUILDING PRESSURE	FREESTAT
BPC BUILDING PRESSURE CONTROL	HUMIDITY SENSOR
C	PIPING
CC COOLING COIL	TEMPERATURE SENSOR
CHV CHILLED WATER	PRESSURE SENSOR
CP CIRCULATING PUMP	FLOW METER
CT CURRENT TRANSMITTER	AQUASTAT
D	ZONE
DD DIRECT DRIVE	ZONE TEMPERATURE SENSOR
DX DIRECT EXPANSION	ZONE HUMIDITY SENSOR
DP DIFFERENTIAL PRESSURE	ZONE OCCUPANCY SENSOR
E	SEQUENCE OF OPERATIONS
EA EXHAUST AIR	DRAIN PAN
EAT ENTERING AIR TEMPERATURE	GENERAL DESCRIPTION
ECM ELECTRONICALLY COMMUTATED MOTOR	TElecom rooms are provided with drain pans underneath piping to protect the telecom racks and various electrical equipment in the rooms. These drain pans will have flow switches attached at the outlet of the drain pan to control flow and monitor fill level.
EF EXHAUST FAN	SAFETIES, OVERRIDES, AND INTERLOCKS
ER ENERGY RECOVERY	REMOTE MONITORING
EWT ENTERING WATER TEMPERATURE	The unit shall generate an alarm upon receiving a signal indicating overflow conditions.
F	COMPONENT CONTROLS
FF FINAL FILTER	FLOAT SWITCH
FSD FIRE SMOKE DAMPER	The float switch shall shut off equipment when clog or blockage backs up secondary drain pan.
G	DRAIN PAN FILL LEVEL MONITORING
GF GAS FURNACE	The building automation system shall monitor the drain pan fluid level. The alarm shall be annunciated at the operator's workstation with graphical interface.
H	
HC HEATING COIL	
HGB HOT GAS BYPASS	
HW HOT WATER	
I	
IF INTEGRAL FACE AND BYPASS	
L	
LAT LEAVING AIR TEMPERATURE	
HGB HOT GAS BYPASS	
LWT LEAVING WATER TEMPERATURE	
M	
MA MIXED AIR TEMPERATURE	
MOA MINIMUM OUTSIDE AIR	
N	
NG NATURAL GAS	
O	
OA OUTSIDE AIR	
OCC OCCUPANCY	
OX OXYGEN	
OXS OXYGEN SENSOR	
P	
PCC PRECOOLING COIL	
PF PRE FILTER	
PHC PREHEAT COIL	
R	
RA RETURN AIR	
RF RETURN FAN	
RHC REHEAT COIL	
RE RETURN EXHAUST	
RR RETURN RELIEF	
S	
SA SUPPLY AIR	
SF SUPPLY FAN	
SD SMOKE DAMPER	
T	
TCP TEMPERATURE CONTROL PANEL	
TA TRANSFER AIR	
TMV THERMOSTATIC MIXING VALVE	
TCV TEMPERATURE CONTROL VALVE	
U	
UV ULTRAVIOLET	
V	
VFD VARIABLE FREQUENCY DRIVE	
VOC VOLATILE ORGANIC COMPOUND	



3 LOUVERED INTAKE HOOD (IH-X) TYPICAL CONTROL DIAGRAM
NOT TO SCALE

POINTS NAME	HARDWARE POINTS				SOFTWARE POINTS				SHOWN ON GRAPHIC	
	AI	AO	BI	BO	AV	BV	LOOP	SCHED		TREND
EXHAUST FAN										
IH VFD SPEED		X							X	X
IH STATUS		X							X	X
IH START/STOP			X						X	X
IH VFD VOLT			X						X	X
DAMPER									X	X
INTAKE AIR DAMPER STATUS		X							X	X
INTAKE AIR DAMPER			X						X	X
ALARMS										
INTAKE AIR DAMPER FAILURE									X	10 MIN
INTAKE AIR DAMPER IN HAND									X	10 MIN
IH FAILURE									X	10 MIN
IH IN HAND									X	10 MIN
IH RUNTIME EXCEEDED									X	10 MIN

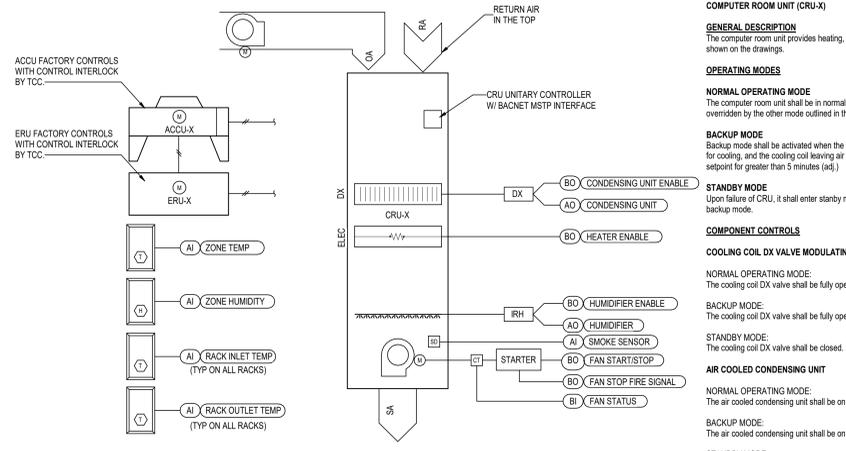
NOTES:
1. SEE STANDARD TRENDRING POINTS LIST SCHEDULE ON SHEET XX-M-701 FOR APPLICABLE TREND INTERVALS.

POINTS LIST SCHEDULE - LOUVERED INTAKE HOOD (IH-X)

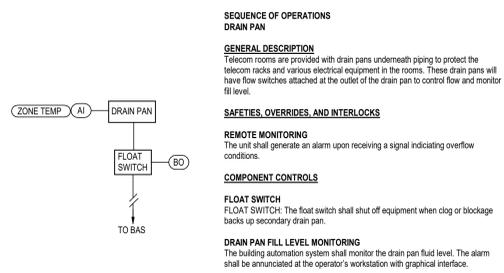
POINTS NAME	HARDWARE POINTS				SOFTWARE POINTS				SHOWN ON GRAPHIC	
	AI	AO	BI	BO	AV	BV	LOOP	SCHED		TREND
COMPUTER ROOM UNIT										
ZONE TEMPERATURE		X							X	X
ZONE HUMIDITY		X							X	X
DISCHARGE AIR TEMPERATURE		X							X	X
SMOKE DETECTOR			X						X	X
UNIT ON/OFF STATUS			X						X	X
UNIT ENABLE / ON-OFF			X						X	X
FAN STATUS			X						X	X
FAN START/STOP			X						X	X
HUMIDIFIER		X							X	X
HUMIDIFIER ENABLE		X							X	X
CHILLED WATER VALVE		X							X	X
CONDENSING UNIT		X							X	X
CONDENSING UNIT ENABLE		X							X	X
HEATER ENABLE		X							X	X
SETPOINTS										
ZONE COOLING SETPOINT									X	
ZONE HEATING SETPOINT									X	
ZONE HUMIDITY SETPOINT									X	
LAT SETPOINT									X	
ALARMS										
HIGH ZONE TEMPERATURE									X	10 MIN
LOW ZONE TEMPERATURE									X	10 MIN
HIGH ZONE HUMIDITY									X	5 MIN
LOW ZONE HUMIDITY									X	5 MIN
HIGH SUPPLY AIR TEMPERATURE									X	10 MIN
LOW SUPPLY AIR TEMPERATURE									X	10 MIN
FAN FAILURE									X	10 MIN
FAN IN HAND									X	10 MIN
STATUS RUNTIME EXCEEDED									X	10 MIN
COMPRESSOR FAILURE									X	10 MIN
COMPRESSOR IN HAND									X	10 MIN
COMPRESSOR RUNTIME EXCEEDED									X	10 MIN

NOTES:
1. SEE STANDARD TRENDRING POINTS LIST SCHEDULE ON SHEET XX-M-701 FOR APPLICABLE TREND INTERVALS.
2. SEE PROJECT DESIGN CONDITIONS SCHEDULE ON SHEET XX-M-701 FOR APPLICABLE SETPOINTS.

POINTS LIST SCHEDULE - COMPUTER ROOM UNIT (CRU-X)



2 COMPUTER ROOM UNIT (CRU-X) TYPICAL CONTROL DIAGRAM
NOT TO SCALE



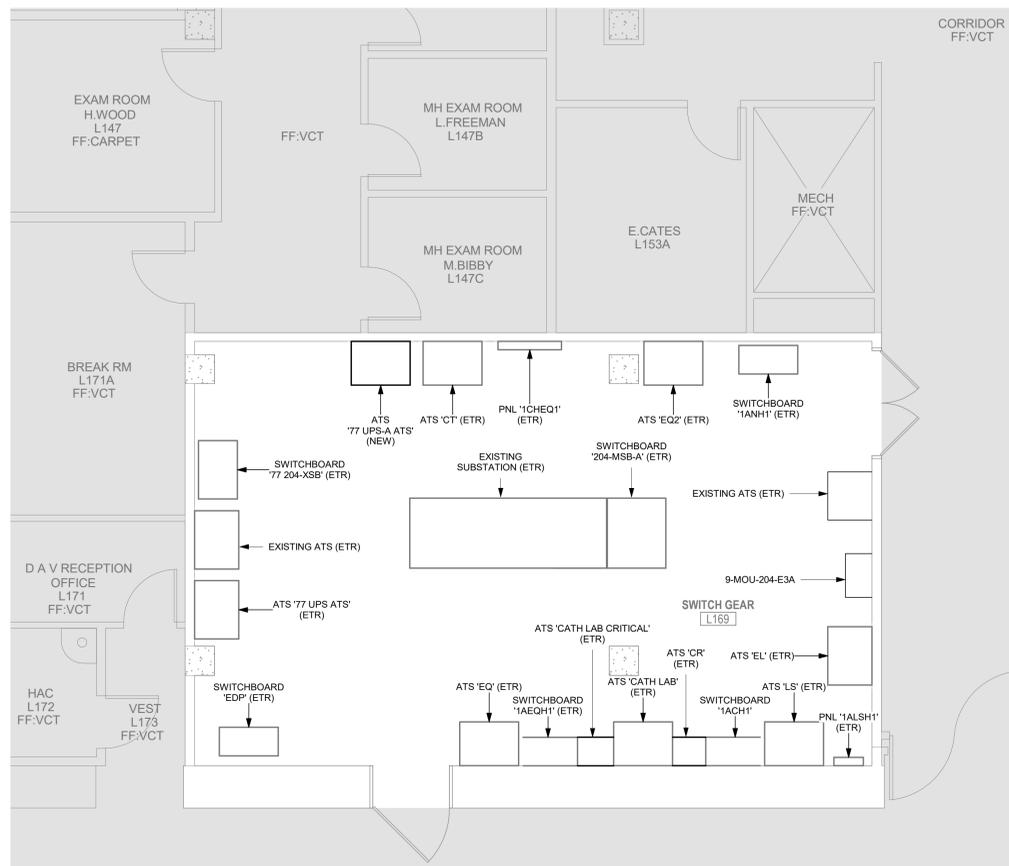
1 DRAIN PAN TYPICAL CONTROL DIAGRAM
NOT TO SCALE

No.	REVISION DESCRIPTION	DATE	CONSULTANTS:			ARCHITECT:	SPUR # 2409	STAMP:	Drawing Title MECHANICAL CONTROLS	Project Title EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN	Project Number 621-24-701	Building Number 77	Drawing Number M-701	Drawing # 35 OF 60
			FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 956-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 959-1200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169									

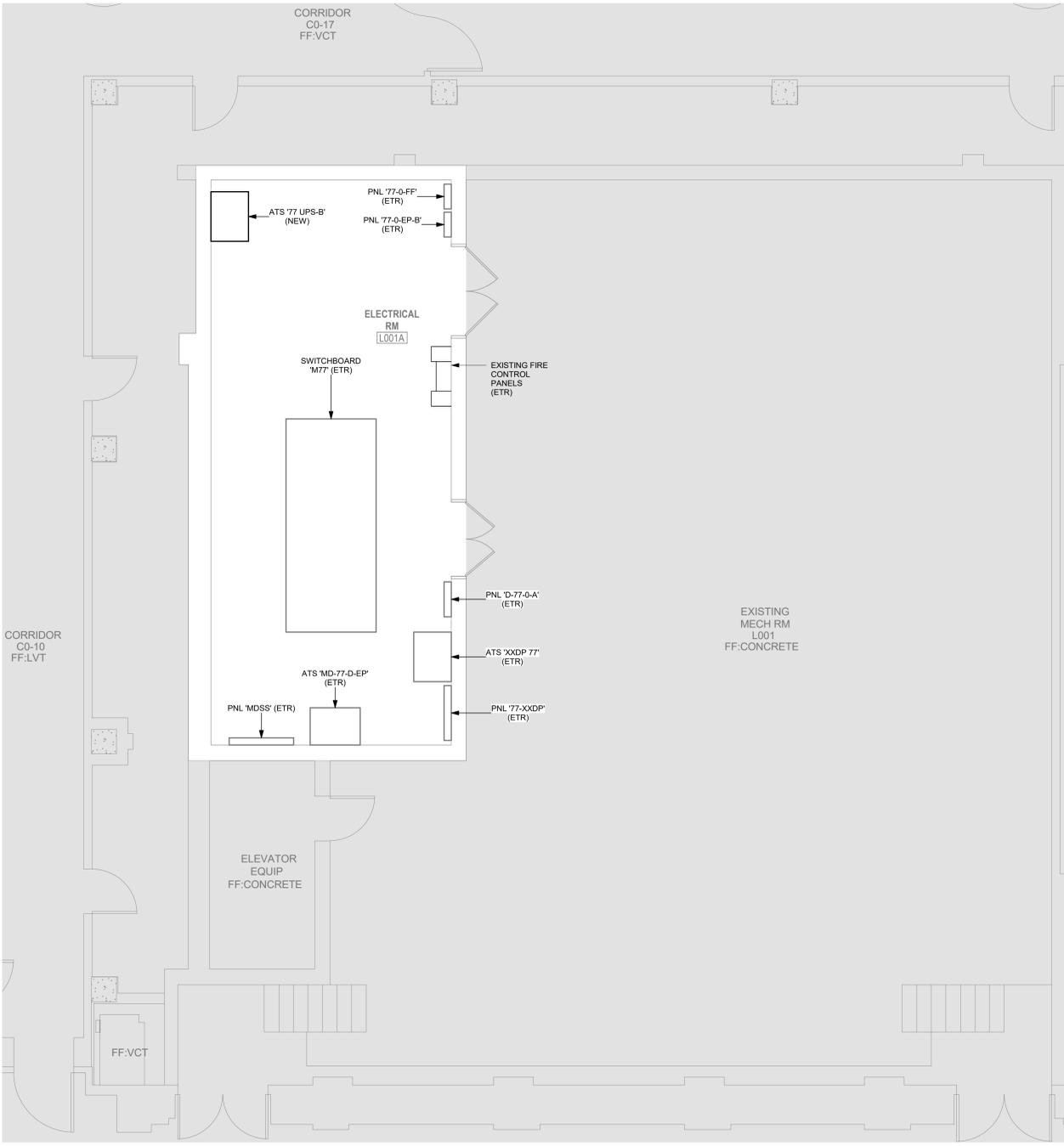
FINAL BID DOCUMENTS FULLY SPRINKLERED



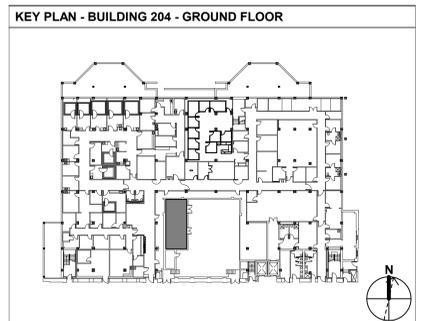
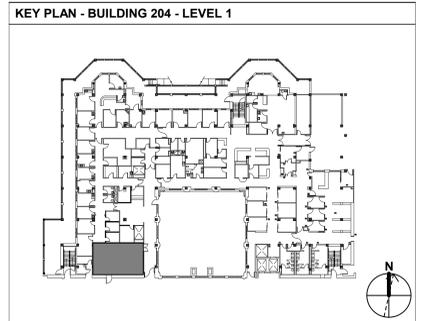
8/8/2025 3:27:01 PM



2 ELECTRICAL POWER PLAN - BUILDING 204 - LEVEL ONE
 1/4" = 1'-0"



1 ELECTRICAL POWER PLAN - BUILDING 204 - GROUND LEVEL
 1/4" = 1'-0"



FINAL BID DOCUMENTS FULLY SPRINKLERED

No.	REVISION DESCRIPTION	DATE

CONSULTANTS:

FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169
INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 1139 OLIVE ST., SUITE 300 ST. LOUIS, MO 63101 (713) 864-2900	PHYSICAL SECURITY FORCE PROTECT 10901 FRONT BEACH RD. #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500

ARCHITECT:

SPUR

SPUR # 2409

SPUR DESIGN, LLC
312 SW 25TH STREET
Oklahoma City, OK 73109
(405) 842-6100

ARCH REG. NO. 71069
MECH REG. NO. 123862
ELEC REG. NO. 130235

EXP. 04/30/2027
EXP. 06/30/2026
EXP. 04/30/2026

STAMP:

The information on this document is preliminary or incomplete, not for construction, recording purposes, or implementation.

Drawing Title ELECTRICAL POWER PLANS - BUILDING 204	Project Number 621-24-701
VA Health Care System Approval:	Building Number 77, 204
Date 08/14/2025	Checked ES
Drawn BAL	Drawing Number EP101
	Drawing # 39 OF 60

Project Title
EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN

Location
JAMES H. OUILLEN VAMC LAMONT ST. AND VETERANS WAY MOUNTAIN HOME, TN 37684

Project Number
621-24-701

Building Number
77, 204

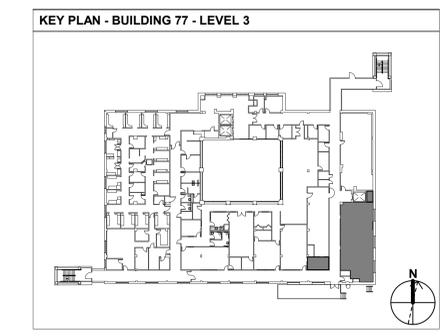
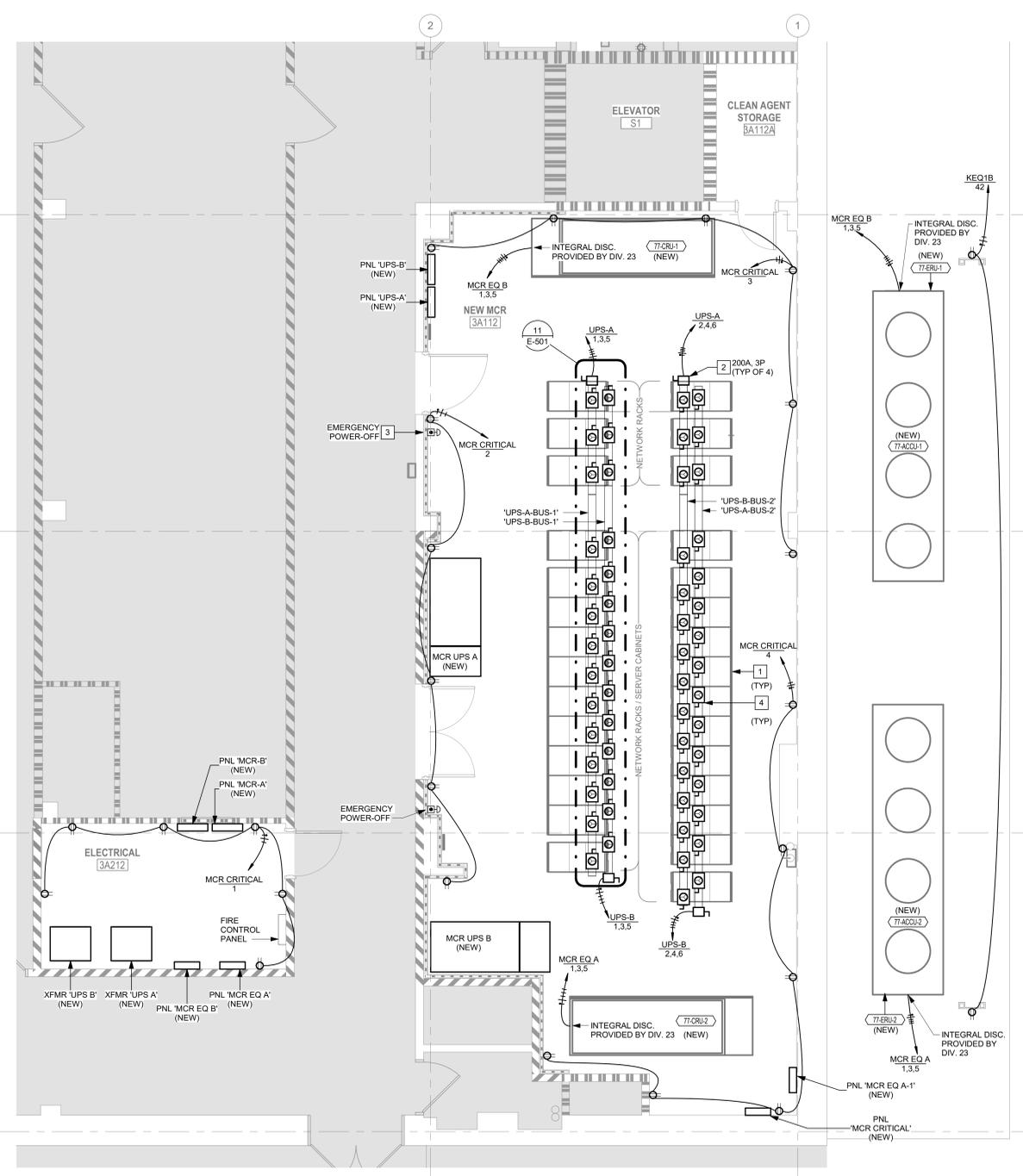
Drawing Number
EP101

Drawing # 39 OF 60

Veterans Health Administration

VA U.S. Department of Veterans Affairs

- GENERAL NOTES:**
- A. NEUTRAL CONDUCTOR FROM PANELBOARD TO JUNCTION BOX'S FEEDING RACK-MOUNTED ZONE POWER DISTRIBUTION UNITS SHALL BE UPSIZED BY (1) ONE STANDARD SIZE.
 - B. NEUTRAL FROM JUNCTION BOX TO ZONE POWER DISTRIBUTION UNIT SHALL BE UPSIZED BY (1) ONE STANDARD SIZE.
 - C. NEUTRAL CONDUCTOR FROM PANELBOARD TO RECEPTACLES FEEDING RACK-MOUNTED ZONE POWER DISTRIBUTION UNITS SHALL BE UPSIZED BY (1) ONE STANDARD SIZE.
- # ELECTRICAL KEYNOTES**
- 1. PROVIDE TWO (2) NEW 208Y/120V, 20A, 3-PHASE INPUT POWER DISTRIBUTION UNITS (PDU) EACH VERTICALLY MOUNTED ON OPPOSITE SIDES OF NETWORK/SERVER CABINET. BASIS OF DESIGN: CHATSWORTH ECONNECT PDU. REFER TO DETAIL # ON SHEET E-501 SERIES SHEETS FOR CONNECTION TO UPS BUSBAR TAPS.
 - 2. PROVIDE POWER BUSBAR FOR POWER CONNECTION TO SERVER CABINETS. BASIS OF DESIGN: STARLINE BUSWAY (MODEL# 225T3CN). BUSWAY SHALL BE PROVIDED WITH QUANTITY OF POWER BUSWAY TAPS AS SHOWN ON PLANS AND A 3-POLE POWER FEED (WITH INTEGRATE CIRCUIT BREAKER AND POWER MONITOR) SWITCH WITH A CURRENT MONITOR (RATED AS SHOWN ON PLANS). TOTAL LENGTH OF BUSWAY SHALL BE AS INDICATED ON PLANS. REFER TO DETAIL "TYPICAL POWER BUSWAY COMPONENTS FOR SERVER ROWS" ON 500 SERIES SHEETS FOR ADDITIONAL NOTES.
 - 3. EMERGENCY POWER OFF SWITCH (EPO) TO DE-ENERGIZE COMPUTER ROOM ELECTRICAL LOADS. REFER TO DETAIL # ON SHEET E-501
 - 4. PROVIDE 20A/3P POWER BUSWAY TAP BUS FEED TO VERTICAL PDU IN EACH CABINET. BASIS OF DESIGN: STARLINE 20A/3P BUSWAY TAP.



1 ELECTRICAL POWER PLAN - LEVEL 3
1/4" = 1'-0"

FINAL BID DOCUMENTS FULLY SPRINKLERED

Project Title EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN		Project Number 621-24-701	
Location JAMES H. OUILLEN VAMC LAMONT ST. AND VETERANS WAY MOUNTAIN HOME, TN 37684		Building Number 77, 204	
Date 08/14/2025	Checked ES	Drawn BAL	Drawing Number EP102
VA Health Care System Approval:		Drawing # 40 OF 60	

Veterans Health Administration

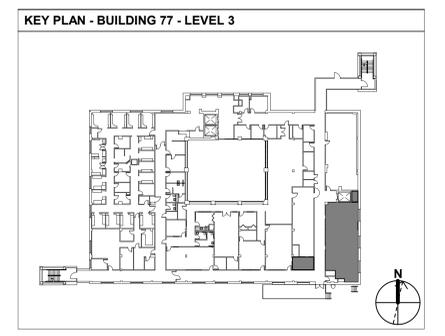
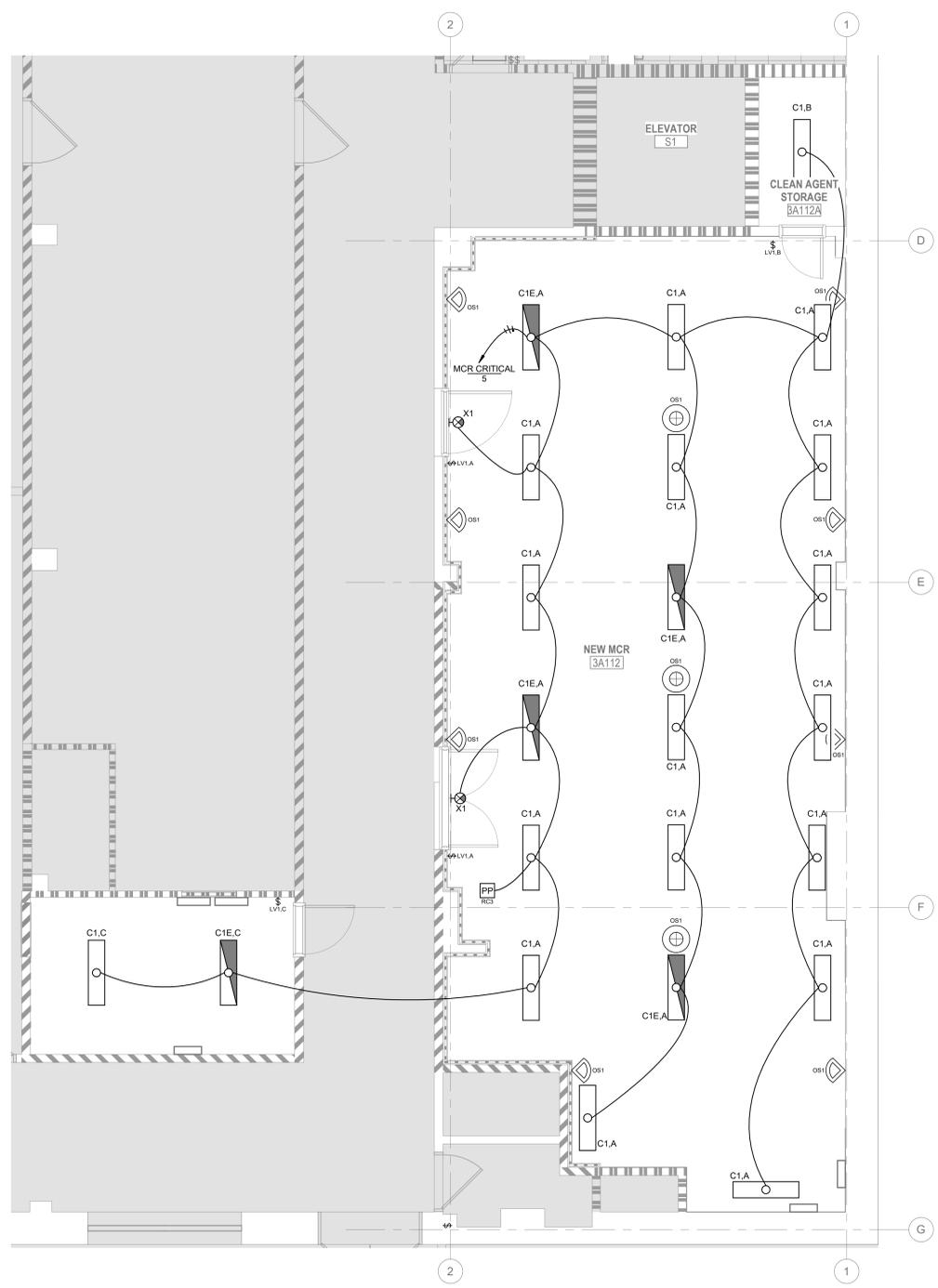
U.S. Department of Veterans Affairs

No.	REVISION DESCRIPTION	DATE

CONSULTANTS:			ARCHITECT:		
FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169	SPUR # 2409 SPUR DESIGN, LLC 312 SW 25TH STREET Oklahoma City, OK 73109 (405) 842-6100		
INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 1139 OLIVE ST., SUITE 300 ST. LOUIS, MO 63101 (713) 864-2900	PHYSICAL SECURITY FORCE PROTECT 10901 FRONT BEACH RD. #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500	ARCH REG. NO. 71069 MECH REG. NO. 123862 ELEC REG. NO. 130235 EXP. 04/30/2027 EXP. 06/30/2026 EXP. 04/30/2026		

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one sixteenth inch = one foot
 one thirty second inch = one foot
 one sixtieth inch = one foot

LIGHTING CALCULATION SCHEDULE: MOUNTAIN HOME			
AREA	AVERAGE (FC)	MINIMUM (FC)	AVERAGE/MINIMUM
NEW MCR 3A112	42	22	1.9
CLEAN AGENT STORAGE 3A112A	19	18	1.1
B1 ENTRANCE 3A212	31	22	1.4



1 ELECTRICAL LIGHTING PLAN - LEVEL 3
 1/4" = 1'-0"

FINAL BID DOCUMENTS FULLY SPRINKLERED

No.	REVISION DESCRIPTION	DATE

CONSULTANTS:

FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169
INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 1139 OLIVE ST, SUITE 300 ST. LOUIS, MO 63101 (713) 864-2900	PHYSICAL SECURITY FORCE PROTECT 10901 FRONT BEACH RD, #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500

ARCHITECT:

SPUR

SPUR # 2409
SPUR DESIGN, LLC
 312 SW 25TH STREET
 Oklahoma City, OK 73109
 (405) 842-6100
 ARCH REG. NO. 71069 EXP. 04/30/2027
 MECH REG. NO. 123862 EXP. 06/30/2026
 ELEC REG. NO. 130235 EXP. 04/30/2026

STAMP:

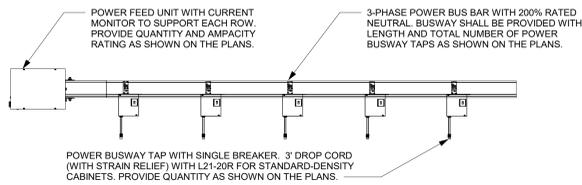
The information on this document is preliminary or incomplete, not for construction, recording purposes, or implementation.

Drawing Title
ELECTRICAL LIGHTING PLAN - BUILDING 77 - LEVEL 3
 VA Health Care System Approval:

Project Title
EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN
 Location JAMES H. OUILLEN VAMC LAMONT ST. AND VETERANS WAY MOUNTAIN HOME, TN 37684
 Date **08/14/2025** Checked **ES** Drawn **BAL**

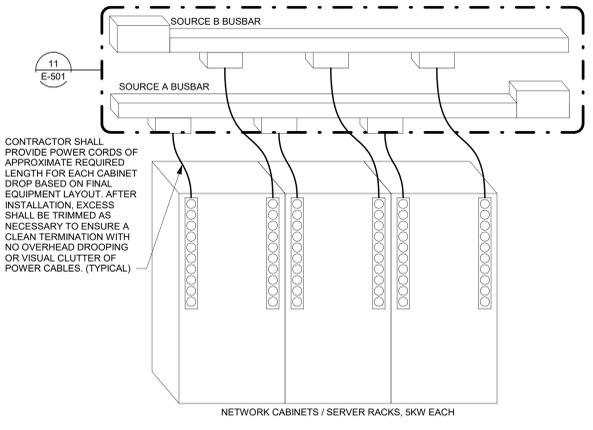
Project Number
621-24-701
 Building Number
 77, 204
 Drawing Number
EL101
 Drawing # 43 OF 60

Veterans Health Administration
 U.S. Department of Veterans Affairs



11 TYPICAL POWER BUSWAY COMPONENTS FOR SERVER ROWS
NTS
REF: 1/EP102

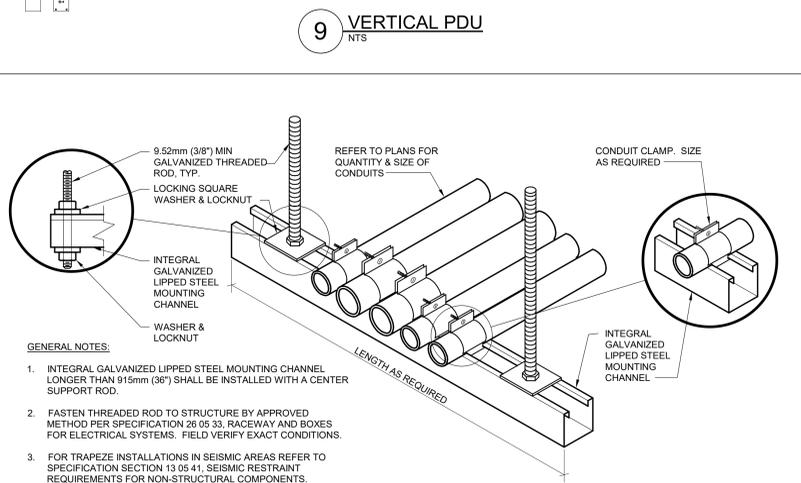
GENERAL NOTES:
A. ALL BUSWAYS, DISCONNECTS, AND ASSOCIATED EQUIPMENT SHALL BE NEMA 3R RATED.
B. CONTRACTOR SHALL PROVIDE A MINIMUM OF 15% SPARE PARTS INCLUDING BUSWAYS, DISCONNECTS, AND ASSOCIATED EQUIPMENT.



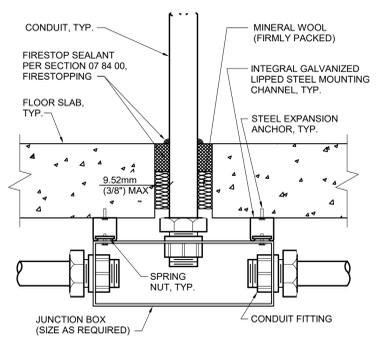
10 MCR POWER DISTRIBUTION SIMPLIFIED VISUALIZATION
NTS

REQUIRES ONE (1) L21-20R

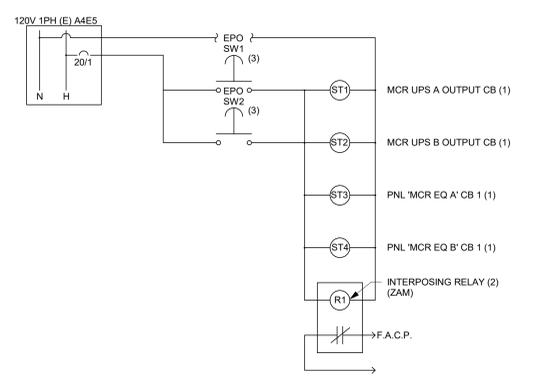
CHATSWORTH ECONNECT PDU; VERTICAL; MONITORED; L21-20 PLUG; THREE PHASE; 120/208V INPUT; 20A; (30) C13 (6) C19 OUTLETS; 208V OUTPUT; 3 X 2P 20A HYDRAULIC MAGNETIC BREAKERS; LCD; ETHERNET, USB, AND ENVIRONMENTAL SENSOR PORTS; IP AND SERIAL MONITORING; IP CONSOLIDATION (PDU LINKING); TOOL-LESS MOUNTING; 70.5"H (1791 MM) X 2.2"W (56 X 2.2"D (56 MM)



9 VERTICAL PDU
NTS

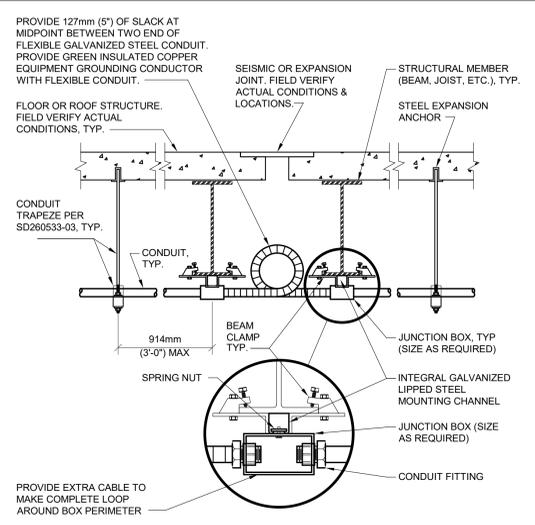


12 FLOOR SLAB PENETRATION DETAIL
NTS



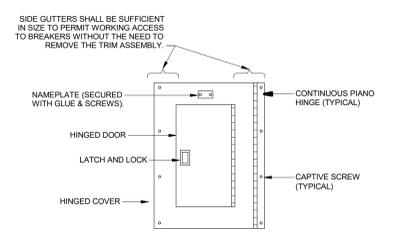
NOTES:
(1) PROVIDE SHUNT TRIP (ST) CIRCUIT BREAKERS TO MATCH VOLTAGE, AMPACITY, AIC RATING.
(2) 120V RELAY IN NEMA1 ENCLOSURE.
(3) MUSHROOM PUSHBUTTON SWITCH WITH FULL LEXAN ENCLOSURE WITH FLIP UP DOOR WITH "EMERGENCY POWER OFF" PRINTED ON ENCLOSURE.
(4) REFER TO UPS MANUFACTURER'S INSTALLATION MANUAL FOR ADDITIONAL NOTES.

8 SHUNT-TRIP EPO CONTROL DIAGRAM
NTS



7 CONDUIT EXPANSION JOINT CROSSING DETAIL
NTS

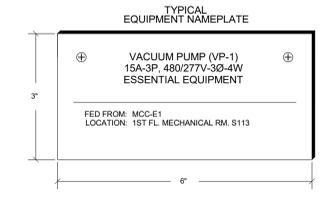
6 CONDUIT TRAPEZE MOUNTING DETAIL
NTS



PANELBOARD CONSTRUCTION NOTES

- ALL NEW PANELBOARDS SHALL BE PROVIDED WITH SUBFEED LUGS AND SUFFICIENT SIZE WIRING GUTTERS TO ACCOMMODATE ALL FEEDERS (INCLUDING FUTURE) IN A CODE COMPLYING MANNER. FEED THROUGH LUGS ARE NOT ACCEPTABLE.
- PROVIDE NAMEPLATE FOR ALL PANELBOARDS. REFER TO EQUIPMENT NAMEPLATE DETAIL FOR ADDITIONAL INFORMATION.
- REFER TO SPECIFICATIONS FOR PANELBOARD CONSTRUCTION REQUIREMENTS REGARDING BUS, DIRECTORIES, FINISHES, ETC.
- ONE MONTH AFTER OCCUPANCY BY THE OWNER, THE ELECTRICAL CONTRACTOR SHALL MEASURE AND RECORD THE FEEDER PHASE CURRENTS FOR ALL NEW AND EXISTING PANELBOARDS ASSOCIATED WITH THIS PROJECT, AND SHALL SUBMIT DATA TO ENGINEER.
- PROVIDE UPDATED TYPED SCHEDULES IN EXISTING PANELS, AND NEW SCHEDULES IN NEW PANELS. SCHEDULE DESCRIPTIONS SHALL INCLUDE TYPE OF LOAD (RECEPTACLES, LIGHTING, ETC.) AND ROOM NUMBER WHERE LOAD IS LOCATED.
- CIRCUIT ASSIGNMENTS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY AVAILABILITY PRIOR TO ROUGH-IN AND ORDERING ENGRAVED COVERPLATES. REPORT ANY DEVIATIONS TO ENGINEER FOR APPROVAL.

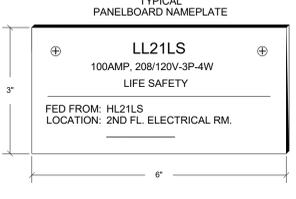
5 PANELBOARD CONSTRUCTION DETAIL
NTS



EQUIPMENT NAMEPLATE REQUIREMENTS:

- PROVIDE AN IDENTIFICATION SIGN WHICH CLEARLY INDICATES INFORMATION FOR USE AND MAINTENANCE OF DISCONNECT SWITCHES, MOTOR STARTERS, SEPARATELY ENCLOSED CIRCUIT BREAKERS, AND CONTROL DEVICES.
- PROVIDE ENGRAVED 1/2" (MIN.) LETTERING ON PHENOLIC NAMEPLATE WITH THE FOLLOWING COLOR FORMAT:
A. NORMAL POWER SYSTEM - BLACK BACKGROUND, WHITE LETTERS
B. EMERGENCY POWER SYSTEM - RED BACKGROUND, WHITE LETTERS
3. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

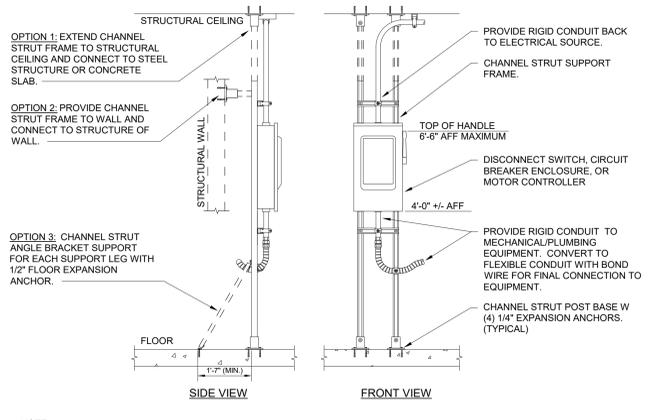
4 EQUIPMENT NAMEPLATE DETAIL
NTS



NAMEPLATE REQUIREMENTS:

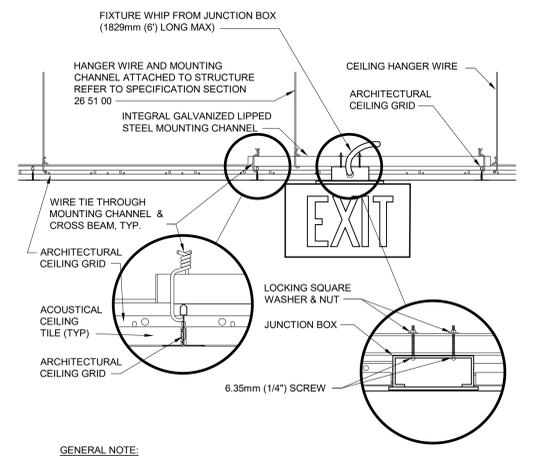
- PROVIDE AN IDENTIFICATION SIGN WHICH CLEARLY INDICATES ELECTRICAL SYSTEM INFORMATION FOR PANELBOARDS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, AUTOMATIC TRANSFER SWITCHES.
- PROVIDE ENGRAVED 1/2" (MIN.) LETTERING ON PHENOLIC NAMEPLATE WITH THE FOLLOWING COLOR FORMAT:
A. 208/120 VOLTS (NORMAL) - GREEN BACKGROUND, WHITE LETTERS
B. 480/277 VOLTS (NORMAL) - BLACK BACKGROUND, WHITE LETTERS
C. 208/120 VOLTS (EMERG.) - WHITE BACKGROUND, RED LETTERS
D. 480/277 VOLTS (EMERG.) - RED BACKGROUND, WHITE LETTERS
3. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

3 DISTRIBUTION EQUIPMENT NAMEPLATE DETAIL
NTS



NOTE:
1. DISCONNECT SWITCHES, CIRCUIT BREAKER ENCLOSURES, MOTOR CONTROLLERS & VARIABLE FREQUENCY DRIVES, AND CONTROL CABINETS MAY BE DIRECTLY MOUNTED TO STRUCTURAL WALLS, OR TO MECHANICAL EQUIPMENT WHEN PERMITTED BY THE MECHANICAL EQUIPMENT MANUFACTURER AND WHERE IT DOES NOT BLOCK ACCESS OR OPERATION OF THE EQUIPMENT. WHERE A SUITABLE STRUCTURAL WALL IS NOT AVAILABLE, PROVIDE SUPPORT FRAME AND CONNECT THE SUPPORT FRAME WITH A MINIMUM OF (4) POINTS OF CONTACT TO THE BUILDING STRUCTURE TO PROVIDE A RIGID ASSEMBLY. OPTION 1, 2, OR 3 MAY BE UTILIZED TO PROVIDE THE ADDITIONAL (2) POINTS OF CONTACT IN ADDITION TO THE (2) POINTS OF CONTACT AT THE FLOOR.

2 ELECTRICAL EQUIPMENT MOUNTING DETAIL
NTS



GENERAL NOTE:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S MOUNTING INSTRUCTIONS AND USING THE RECOMMENDED MOUNTING HARDWARE.

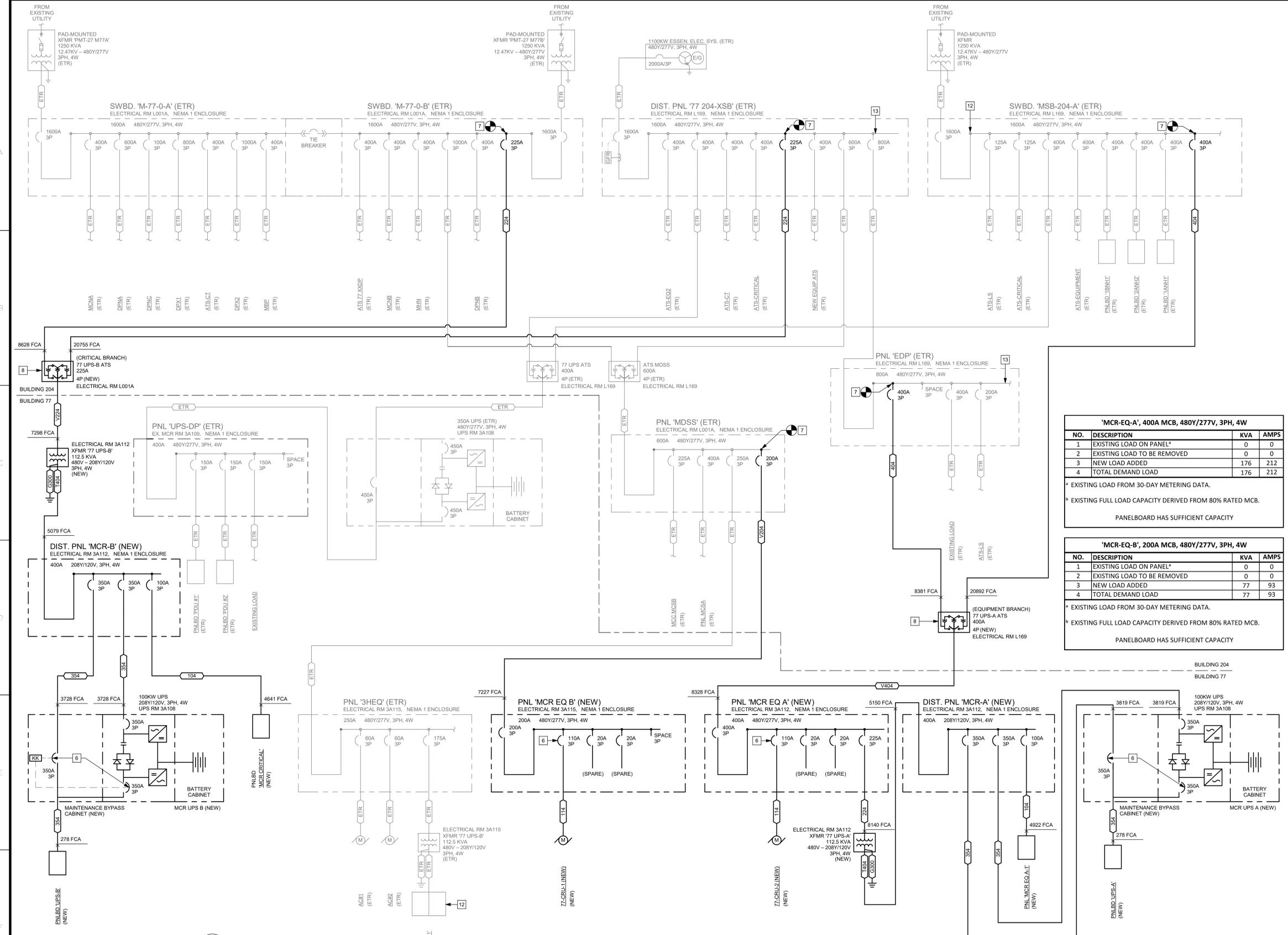
1 EXIT SIGN MOUNTING - LAY-IN CEILING
NTS

FINAL BID DOCUMENTS FULLY SPRINKLERED

No.	REVISION DESCRIPTION	DATE	CONSULTANTS:			ARCHITECT:		SPUR # 2409	STAMP:	Drawing Title ELECTRICAL DETAILS	Project Title EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN	Project Number 621-24-701	Veterans Health Administration VA U.S. Department of Veterans Affairs	
			FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169	SPUR DESIGN, LLC 312 SW 25TH STREET Oklahoma City, OK 73109 (405) 842-6100		The information on this document is preliminary or incomplete, not for construction, recording purposes, or implementation.	VA Health Care System Approval:	Location JAMES H. OUILLEN VAMC LAMONT ST. AND VETERANS WAY MOUNTAIN HOME, TN 37884	Building Number 77, 204			
			INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 1130 OLIVE ST., SUITE 300 ST. LOUIS, MO 63101 (713) 864-2900	PHYSICAL SECURITY FORCE PROTECT 10901 FRONT BEACH RD. #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE. OKLAHOMA CITY, OK 73114 (405) 528-4500	ARCH REG. NO. 71069 MECH REG. NO. 123862 ELEC REG. NO. 130235	EXP. 04/30/2027 EXP. 06/30/2026 EXP. 04/30/2026			Date 08/14/2025	Checked ES	Drawn BAL		Drawing Number E-501 Drawing # 44 OF 60

8/10/2025 9:29:09 PM

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 one half inch = one foot
 three quarters inch = one foot
 one quarter inch = one foot
 three eighths inch = one foot
 one eighth inch = one foot
 one sixteenth inch = one foot



- GENERAL NOTES:**
- A. WHERE NEW BREAKERS ARE ADDED/REPLACE EXISTING BREAKERS IN EXISTING SWITCHBOARD/PANLEBOARDS PROVIDE NEW BREAKER TO MATCH EXISTING BREAKER STYLE AND AIC RATING.
- ELECTRICAL KEYNOTES**
6. PROVIDE SHUNT TRIP BREAKER FOR CONNECTION TO EMERGENCY POWER OFF BUTTON. REFER TO DETAIL 8 ON SHEET E-501 FOR ADDITIONAL NOTES.
 7. PROVIDE NEW CIRCUIT BREAKER AS SHOWN. MATCH AIC RATING AND BREAKER STYLE WITH EXISTING SWITCHBOARD.
 8. FIELD VERIFY EXISTING ATS CONTROL CIRCUITBOARD AND TERMINATE CONTROL WIRING OF NEW ATS ACCORDINGLY.
 12. PRIOR TO CONNECTING NEW LOAD, CONTRACTOR SHALL METER PANELBOARDS INDICATED IN THE DRAWING SET FOR A MINIMUM OF 30 DAYS IN ACCORDANCE WITH ARTICLE 220.87 OF THE 2023 NATIONAL ELECTRICAL CODE. THE MAXIMUM METERED DEMAND PLUS 125 PERCENT SHALL NOT EXCEED THE PANELBOARD RATING. IF CALCULATED LOAD EXCEEDS THE PANELBOARD RATING, CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD.
 13. PRIOR TO CONNECTING NEW LOAD, CONTRACTOR SHALL METER THE HIGHEST-LEVEL BUSES DOWNSTREAM OF THIS PANELBOARD THAT ARE NORMALLY ENERGIZED (AFTER THE ATS) FOR A MINIMUM OF 30 DAYS IN ACCORDANCE WITH ARTICLE 220.87 OF THE 2023 NATIONAL ELECTRICAL CODE. THE MAXIMUM METERED DEMAND PLUS 125 PERCENT SHALL NOT EXCEED THE PANELBOARD RATING. IF CALCULATED LOAD EXCEEDS THE PANELBOARD RATING, CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD.

FEEDER BRANCH CIRCUIT SCHEDULE

TAG #	AMPS	DESCRIPTION
104	100A	(4)#3, (1)#6G, 1-1/4 IN. C
114	110A	(4)#2, (1)#6G, 1-1/4 IN. C
V204	200A	(1) SET OF 2-1/2 IN. C, EACH W/ (4)#4/0, (1)#4 G, UPSIZED FOR VOLTAGE DROP
224	225A	(4)#4/0, (1)#4G, 2-1/2 IN. C
V224	225A	(1) SET OF 2-1/2 IN. C, EACH W/ (4)#4/0, (1)#4 G, UPSIZED FOR VOLTAGE DROP
354	350A	(4) 500KCMIL, (1)#3G, 3-1/2 IN. C
404	400A	(2) 2 IN. C, EACH W/ (4)#3/0, (1)#3G
T404	400A	(2) 2 IN. C, EACH W/ (4)#3/0, (1)#2G
V404	400A	(2) SETS OF 3 IN. C, EACH W/ (4)250 KCMIL, (1)#1 G, UPSIZED FOR VOLTAGE DROP
G300	GND	#2 COPPER GROUND, 3/4 IN. C
ETR	N/A	EXISTING TO REMAIN

NOTE: ALL CONDUCTOR SIZES ARE BASED ON 75 DEGREE C RATED TERMINATION AND COPPER CONDUCTORS WITH TYPE THHN/THWN-2 INSULATION. FOR TERMINATION OR INSULATION TYPES RATED LESS THAN 75 DEGREE C, MODIFY SIZES ACCORDING TO NFPA 70.

'MCR-EQ-A', 400A MCB, 480Y/277V, 3PH, 4W

NO.	DESCRIPTION	KVA	AMPS
1	EXISTING LOAD ON PANEL*	0	0
2	EXISTING LOAD TO BE REMOVED	0	0
3	NEW LOAD ADDED	176	212
4	TOTAL DEMAND LOAD	176	212

* EXISTING LOAD FROM 30-DAY METERING DATA.
 * EXISTING FULL LOAD CAPACITY DERIVED FROM 80% RATED MCB.
 PANELBOARD HAS SUFFICIENT CAPACITY

'M-77-0-B', 1600A MCB, 480Y/277V, 3PH, 4W

NO.	DESCRIPTION	KVA	AMPS
1	EXISTING LOAD ON PANEL*	308	370
2	EXISTING LOAD TO BE REMOVED	0	0
3	NEW LOAD ADDED	180	217
4	TOTAL DEMAND LOAD	565	680

* EXISTING LOAD FROM 30-DAY METERING DATA.
 * EXISTING FULL LOAD CAPACITY DERIVED FROM 100% RATED MCB.
 PANELBOARD HAS SUFFICIENT CAPACITY

'MCR-EQ-B', 200A MCB, 480Y/277V, 3PH, 4W

NO.	DESCRIPTION	KVA	AMPS
1	EXISTING LOAD ON PANEL*	0	0
2	EXISTING LOAD TO BE REMOVED	0	0
3	NEW LOAD ADDED	77	93
4	TOTAL DEMAND LOAD	77	93

* EXISTING LOAD FROM 30-DAY METERING DATA.
 * EXISTING FULL LOAD CAPACITY DERIVED FROM 80% RATED MCB.
 PANELBOARD HAS SUFFICIENT CAPACITY

'MSB-204-A', 1600A MCB, 480Y/277V, 3PH, 4W

NO.	DESCRIPTION	KVA	AMPS
1	NEW LOAD ADDED	191	230
2	TOTAL DEMAND LOAD	191	230

* EXISTING FULL LOAD CAPACITY DERIVED FROM 100% RATED MCB.
 PANELBOARD HAS SUFFICIENT CAPACITY

'MDSS', 600A MCB, 480Y/277V, 3PH, 4W

NO.	DESCRIPTION	KVA	AMPS
1	EXISTING LOAD ON PANEL*	192	231
2	EXISTING LOAD TO BE REMOVED	0	0
3	NEW LOAD ADDED	85	102
4	TOTAL DEMAND LOAD	325	391

* EXISTING LOAD FROM 30-DAY METERING DATA.
 * EXISTING FULL LOAD CAPACITY DERIVED FROM 80% RATED MCB.
 PANELBOARD HAS SUFFICIENT CAPACITY

'3HEQ', 250A MCB, 480Y/277V, 3PH, 4W

NO.	DESCRIPTION	KVA	AMPS
1	NEW LOAD ADDED	4	4
2	TOTAL DEMAND LOAD	4	4

* EXISTING FULL LOAD CAPACITY DERIVED FROM 80% RATED MCB.
 PANELBOARD HAS SUFFICIENT CAPACITY

'EDP', 800A MCB, 480Y/277V, 3PH, 4W

NO.	DESCRIPTION	KVA	AMPS
1	NEW LOAD ADDED	176	212
2	TOTAL DEMAND LOAD	176	212

* EXISTING FULL LOAD CAPACITY DERIVED FROM 80% RATED MCB.
 PANELBOARD HAS SUFFICIENT CAPACITY

1 BUILDING 77 ONE-LINE

No.	REVISION DESCRIPTION	DATE

CONSULTANTS:

FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MET/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169
INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 1130 OLIVE ST., SUITE 300 ST. LOUIS, MO 63101 (713) 864-2900	PHYSICAL SECURITY FORCE PROTECT 1130 OLIVE ST. SUITE 300, #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500

ARCHITECT: SPUR # 2409

SPUR DESIGN, LLC
312 SW 25TH STREET
Oklahoma City, OK 73109
(405) 842-6100

ARCH REG. NO. 71069
MECH REG. NO. 123862
ELEC REG. NO. 130235

EXP. 04/30/2027
EXP. 06/30/2026
EXP. 04/30/2026

STAMP:

The information on this document is preliminary or incomplete, not for construction, recording purposes, or implementation.

Drawing Title
ELECTRICAL PARTIAL ONE-LINE DIAGRAM - BUILDING 77, 204

VA Health Care System Approval:

Project Title
EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN

Project Number
621-24-701

Building Number
77, 204

Drawing Number
E-601

Drawing # 45 OF 60

Date
08/14/2025

Checked
ES

Drawn
BAL

Veterans Health Administration

VA U.S. Department of Veterans Affairs

PANELBOARD 'UPS-A' (NEW)																								
BUS SIZE: 400 A MAIN SIZE/TYP: 300 A MCB VOLTS/PHASE: 208Y/120V, 3PH, 4W MOUNTING: SURFACE A.I.C RATING: FCA +10% MINIMUM FULLY RATED SECTIONS: 1					FAULT CURRENT: RE: ONE-LINE DIAGRAM LOCATION: MCR 3A112 SERVES: FED FROM:										EQUIPMENT GROUND BUS									
VOLT-AMPS/PHASE																								
CKT NO.	DESCRIPTION	LOAD TYPE	NOTE	WIRE SIZE	GND BRKR AMP	P	A	B	C	A	B	C	P	BRKR AMP	GND WIRE SIZE	NOTE	LOAD TYPE	DESCRIPTION	CKT NO.					
1	BUS 1	Z	N	4/0	4	225	3	15867	17033	17033	3	225	4	4/0	N	Z	BUS 2	2						
3	BUS 1																	BUS 2	4					
5	SPARE																	SPARE	6					
7	SPARE																	SPARE	8					
9	SPARE																	SPARE	10					
11	SPARE																	SPARE	12					
13	EQUIPPED SPACE																	EQUIPPED SPACE	14					
15	EQUIPPED SPACE																	EQUIPPED SPACE	16					
17	EQUIPPED SPACE																	EQUIPPED SPACE	18					
19	EQUIPPED SPACE																	EQUIPPED SPACE	20					
21	EQUIPPED SPACE																	EQUIPPED SPACE	22					
23	EQUIPPED SPACE																	EQUIPPED SPACE	24					
25	EQUIPPED SPACE																	EQUIPPED SPACE	26					
27	EQUIPPED SPACE																	EQUIPPED SPACE	28					
29	EQUIPPED SPACE																	EQUIPPED SPACE	30					
31	EQUIPPED SPACE																	EQUIPPED SPACE	32					
33	EQUIPPED SPACE																	EQUIPPED SPACE	34					
35	EQUIPPED SPACE																	EQUIPPED SPACE	36					
37	EQUIPPED SPACE																	EQUIPPED SPACE	38					
39	EQUIPPED SPACE																	EQUIPPED SPACE	40					
41	EQUIPPED SPACE																	EQUIPPED SPACE	42					
TOTAL PHASE LOAD (VA)					PHASE A 3290 VA					PHASE B 3290 VA					PHASE C 3290 VA									
TOTAL PHASE LOAD (A)					274 A					274 A					274 A									
LOAD TYPE					CONNECTED LOAD					NEC DEMAND					DEMAND LOAD									
EXISTING LOAD (E):					0 VA					125.00%					0 VA									
COOLING (C):					0 VA					100.00%					0 VA									
HEATING (H):					0 VA					100.00%					0 VA									
LIGHTING (L):					0 VA					125.00%					0 VA									
RECEPTACLES (R):					0 VA					100.00%					0 VA									
MOTORS (M):					0 VA					100.00%					0 VA									
KITCHEN (K):					0 VA					100.00%					0 VA									
MISC. EQUIPMENT (Z):					0 VA					100.00%					0 VA									
TOTAL CONNECTED					98700 VA					274 A					98700 VA									
TOTAL DEMAND					98700 VA					274 A					98700 VA									
NOTES:					N: NEUTRAL SHALL BE UPSIZED ONE STANDARD SIZE FROM PHASE CONDUCTORS.																			

PANELBOARD 'UPS-B' (NEW)																								
BUS SIZE: 400 A MAIN SIZE/TYP: 300 A MCB VOLTS/PHASE: 208Y/120V, 3PH, 4W MOUNTING: SURFACE A.I.C RATING: FCA +10% MINIMUM FULLY RATED SECTIONS: 1					FAULT CURRENT: RE: ONE-LINE DIAGRAM LOCATION: MCR 3A112 SERVES: FED FROM:										EQUIPMENT GROUND BUS									
VOLT-AMPS/PHASE																								
CKT NO.	DESCRIPTION	LOAD TYPE	NOTE	WIRE SIZE	GND BRKR AMP	P	A	B	C	A	B	C	P	BRKR AMP	GND WIRE SIZE	NOTE	LOAD TYPE	DESCRIPTION	CKT NO.					
1	BUS 1	Z	N	4/0	4	225	3	15867	17033	17033	3	225	4	4/0	N	Z	BUS 2	2						
3	BUS 1																	BUS 2	4					
5	SPARE																	SPARE	6					
7	SPARE																	SPARE	8					
9	SPARE																	SPARE	10					
11	SPARE																	SPARE	12					
13	EQUIPPED SPACE																	EQUIPPED SPACE	14					
15	EQUIPPED SPACE																	EQUIPPED SPACE	16					
17	EQUIPPED SPACE																	EQUIPPED SPACE	18					
19	EQUIPPED SPACE																	EQUIPPED SPACE	20					
21	EQUIPPED SPACE																	EQUIPPED SPACE	22					
23	EQUIPPED SPACE																	EQUIPPED SPACE	24					
25	EQUIPPED SPACE																	EQUIPPED SPACE	26					
27	EQUIPPED SPACE																	EQUIPPED SPACE	28					
29	EQUIPPED SPACE																	EQUIPPED SPACE	30					
31	EQUIPPED SPACE																	EQUIPPED SPACE	32					
33	EQUIPPED SPACE																	EQUIPPED SPACE	34					
35	EQUIPPED SPACE																	EQUIPPED SPACE	36					
37	EQUIPPED SPACE																	EQUIPPED SPACE	38					
39	EQUIPPED SPACE																	EQUIPPED SPACE	40					
41	EQUIPPED SPACE																	EQUIPPED SPACE	42					
TOTAL PHASE LOAD (VA)					PHASE A 3290 VA					PHASE B 3290 VA					PHASE C 3290 VA									
TOTAL PHASE LOAD (A)					274 A					274 A					274 A									
LOAD TYPE					CONNECTED LOAD					NEC DEMAND					DEMAND LOAD									
EXISTING LOAD (E):					0 VA					125.00%					0 VA									
COOLING (C):					0 VA					100.00%					0 VA									
HEATING (H):					0 VA					100.00%					0 VA									
LIGHTING (L):					0 VA					125.00%					0 VA									
RECEPTACLES (R):					0 VA					100.00%					0 VA									
MOTORS (M):					0 VA					100.00%					0 VA									
KITCHEN (K):					0 VA					100.00%					0 VA									
MISC. EQUIPMENT (Z):					0 VA					100.00%					0 VA									
TOTAL CONNECTED					98700 VA					274 A					98700 VA									
TOTAL DEMAND					98700 VA					274 A					98700 VA									
NOTES:					N: NEUTRAL SHALL BE UPSIZED ONE STANDARD SIZE FROM PHASE CONDUCTORS.																			

PANELBOARD 'MCR CRITICAL' (NEW)																								
BUS SIZE: 100 A MAIN SIZE/TYP: 60 A MCB VOLTS/PHASE: 208Y/120V, 3PH, 4W MOUNTING: SURFACE A.I.C RATING: FCA +10% MINIMUM FULLY RATED SECTIONS: 1					FAULT CURRENT: RE: ONE-LINE DIAGRAM LOCATION: MCR 3A112 SERVES: FED FROM:										EQUIPMENT GROUND BUS									
VOLT-AMPS/PHASE																								
CKT NO.	DESCRIPTION	LOAD TYPE	NOTE	WIRE SIZE	GND BRKR AMP	P	A	B	C	A	B	C	P	BRKR AMP	GND WIRE SIZE	NOTE	LOAD TYPE	DESCRIPTION	CKT NO.					
1	RCPT: RM 3A112	R		12	12	20	1	1080					1	20				RCPT: RM 3A112	2					
3	RCPT: RM 3A112	R		12	12	20	1	1080					1	20				RCPT: RM 3A112	4					
5	LTG: RM 3A112	L		12	12	20	1	828					1	20				LTG: RM 3A112	6					
7	SPARE																	SPARE	8					
9	SPARE																	SPARE	10					
11	SPARE																	SPARE	12					
13	EQUIPPED SPACE																	EQUIPPED SPACE	14					
15	EQUIPPED SPACE																	EQUIPPED SPACE	16					
17	EQUIPPED SPACE																	EQUIPPED SPACE	18					
19	EQUIPPED SPACE																	EQUIPPED SPACE	20					
21	EQUIPPED SPACE																	EQUIPPED SPACE	22					
23	EQUIPPED SPACE																	EQUIPPED SPACE	24					
25	EQUIPPED SPACE																	EQUIPPED SPACE	26					
27	EQUIPPED SPACE																	EQUIPPED SPACE	28					
29	EQUIPPED SPACE																	EQUIPPED SPACE	30					
TOTAL PHASE LOAD (VA)					PHASE A 1980 VA					PHASE B 2160 VA					PHASE C 828 VA									
TOTAL PHASE LOAD (A)					18 A					19 A					7 A									
LOAD TYPE					CONNECTED LOAD					NEC DEMAND					DEMAND LOAD									
EXISTING LOAD (E):					0 VA					125.00%					0 VA									
COOLING (C):					0 VA					100.00%					0 VA									
HEATING (H):					0 VA					100.00%					0 VA									
LIGHTING (L):					828 VA					125.00%					1035 VA									
RECEPTACLES (R):					4140 VA					100.00%					4140 VA									
MOTORS (M):					0 VA					100.00%					0 VA									
KITCHEN (K):					0 VA					100.00%					0 VA									
MISC. EQUIPMENT (Z):					0 VA					100.00%					0 VA									
TOTAL CONNECTED					4222 VA					12 A					4267 W									
TOTAL DEMAND					4222 VA					12 A					4267 W									
NOTES:					PANELBOARD TOTALS:																			

PANELBOARD 'KEQ1B' (ETR)																								
BUS SIZE: 400 A MAIN SIZE/TYP: MLO VOLTS/PHASE: 208Y/120V, 3PH, 4W MOUNTING: SURFACE A.I.C RATING: FCA +10% MINIMUM FULLY RATED SECTIONS: 1					FAULT CURRENT: RE: ONE-LINE DIAGRAM LOCATION: ELECTRICAL CLOSET 3A115 SERVES: FED FROM:										EQUIPMENT GROUND BUS									
VOLT-AMPS/PHASE																								
CKT NO.	DESCRIPTION	LOAD TYPE	NOTE	WIRE SIZE	GND BRKR AMP	P	A	B	C	A	B	C	P	BRKR AMP	GND WIRE SIZE	NOTE	LOAD TYPE	DESCRIPTION	CKT NO.					
1	VAV #1 3A200																	VAV #1 3A201	2					
3	VAV #1 3A205																	VAV #1 3A214	4					
5	EXHAUST FAN (EXISTING)																	VAV #1 3A216	6					
7	EXHAUST FAN (EXISTING)																	VAV #1 3A217	8					
9	FIRE ALARM PANEL 3A110																	VAV #1 3A217 HELP DESK	10					
11	VAV #1 3A206																	VAV #1 3A210	12					
13	RECEPTACLE 3A217																	FLOOR BOX 3A217	14					
15	RECEPTACLE 3A217																	FLOOR BOX 3A218	16					
17	RECEPTACLE																							

PLAN LEGEND	
SYMBOL	DESCRIPTION
[Symbol]	OUT OF SCOPE AREA

TELECOMMUNICATIONS SYMBOLS	
SYMBOL	DESCRIPTION
[Symbol]	COMMUNICATIONS OUTLET, TYPE AS NOTED #D = DATA, # = QUANTITY OF CABLES #E = ELEVATOR, # = QUANTITY OF CABLES #FMS = FACILITY MONITORING SYSTEM, # = QUANTITY OF CABLES #TV = CABLE TELEVISION, # = QUANTITY OF CABLES #V = VOICE, # = QUANTITY OF CABLES
[Symbol]	COMMUNICATIONS OUTLET, FLOOR BOX, TYPE AS NOTED #D = DATA, # = QUANTITY OF CABLES #TV = CABLE TELEVISION, # = QUANTITY OF CABLES #V = VOICE, # = QUANTITY OF CABLES
[Symbol]	MULTI-SERVICE POWER POLE WITH POWER / DATA, TYPE AS NOTED AND / OR SCHEDULED
[Symbol]	MULTI-SERVICE FLOOR BOX / POKE-THRU WITH POWER / DATA, TYPE AS NOTED AND / OR SCHEDULED
[Symbol]	COMMUNICATIONS OUTLET, CEILING MOUNTED, TYPE AS NOTED #D = DATA, # = QUANTITY OF CABLES #TV = CABLE TELEVISION, # = QUANTITY OF CABLES
[Symbol]	EXISTING CEILING MOUNTED WIRELESS ACCESS POINT, REMOVE EXISTING CABLING AND INSTALL TWO NEW CAT-6A AT EACH WAP LOCATION
[Symbol]	CEILING MOUNTED REAL TIME LOCATION SYSTEM
[Symbol]	INTERCOM, "M" DENOTES MASTER STATION
[Symbol]	SPEAKER, WALL MOUNTED
[Symbol]	SPEAKER, CEILING MOUNTED, BUILDING PUBLIC ADDRESS SYSTEM
[Symbol]	SPEAKER, CEILING MOUNTED, DEPARTMENT SAFETY PUBLIC ADDRESS SYSTEM
[Symbol]	VOLUME CONTROL, WALL MOUNTED
[Symbol]	LADDER STYLE CABLE TRAY
[Symbol]	WIRE BASKET STYLE CABLE TRAY
[Symbol]	GROUND BAR, TYPE AS NOTED
[Symbol]	SERVER RACK, TWO-POST, FLOOR MOUNTED
[Symbol]	SERVER RACK, WALL MOUNTED
[Symbol]	SERVER RACK, FOUR-POST, FLOOR MOUNTED
[Symbol]	SERVER CABINET, FLOOR MOUNTED
[Symbol]	34"x48", FIRE-RATED PLYWOOD BACKBOARD
[Symbol]	EXISTING UNDERGROUND COMMUNICATIONS PATHWAY TO BE REUTILIZED
[Symbol]	EXISTING UNDERGROUND COMMUNICATIONS PATHWAY, CABLING TYPE AS NOTED
[Symbol]	CABLE TELEVISION LINE
[Symbol]	DATA LINE
[Symbol]	FIBEROPTIC LINE
[Symbol]	INTERCOM LINE
[Symbol]	SPEAKER LINE
[Symbol]	TELEPHONE LINE
[Symbol]	TELEPHONE/DATA LINE
[Symbol]	UNDERGROUND COMMUNICATIONS LINE, CABLING TYPE AS NOTED
[Symbol]	JUNCTION BOX

NURSE CALL SYMBOLS	
SYMBOL	DESCRIPTION
[Symbol]	CODE BLUE PUSHBUTTON STATION
[Symbol]	BED RECEPTACLE
[Symbol]	DUTY STATION
[Symbol]	STAFF EMERGENCY ASSIST STATION
[Symbol]	PATIENT EMERGENCY PULL CORD STATION BOTTOM OF CORD TO BE MAX 3" AFF
[Symbol]	NURSE CALL KEY SWITCH
[Symbol]	STAFF LOCATOR SENSOR
[Symbol]	NURSE CALL VISUAL ANNUNCIATOR PANEL
[Symbol]	NURSE CALL MASTER STATION
[Symbol]	PATIENT STATION WITH BED CONNECTOR
[Symbol]	PATIENT STATION WITH CODE BLUE
[Symbol]	STAFF STATION (NORMAL, EMERGENCY & CODE BLUE)
[Symbol]	ZONE DOME LIGHT, CEILING MOUNTED
[Symbol]	ZONE DOME LIGHT, CEILING MOUNTED
[Symbol]	ZONE DOME LIGHT, WALL MOUNTED
[Symbol]	ZONE DOME LIGHT, WALL MOUNTED

ELECTRONIC SECURITY SYMBOLS	
SYMBOL	DESCRIPTION
[Symbol]	DOOR AUTO-CLOSER
[Symbol]	DOOR AUTO-OPENER
[Symbol]	ANTI-PROP DEVICE
[Symbol]	ACCESS CONTROL CARD READER/KEYPAD COMBINATION DEVICE
[Symbol]	REQUEST FOR EXIT "M" DENOTES DUAL TECHNOLOGY REQUEST FOR EXIT MOTION SENSOR "PB" DENOTES PUSHBUTTON
[Symbol]	DOORBELL PUSHBUTTON
[Symbol]	DOOR POSITION SWITCH AND LOCAL ALARM
[Symbol]	DELATED EGRESS
[Symbol]	BALANCED MAGNETIC SWITCH
[Symbol]	ELECTRIFIED LOCKING DEVICE
[Symbol]	GLASS BREAK DETECTOR
[Symbol]	GATE OPENER
[Symbol]	INTRUSION DETECTION SYSTEM KEYPAD
[Symbol]	LOCAL ALARM
[Symbol]	INTRUSION DETECTION RADAR-BASED MOTION DETECTOR - WALL MOUNTED
[Symbol]	MAGNETIC LOCKING DEVICE
[Symbol]	DIAMETER DIA = DIAMETER DIA = 48" A.F.F. UNLESS NOTED OTHERWISE
[Symbol]	SINGLE VIEW SECURITY CAMERA XXXXXX = BUILDING ID.TYPED SEQUENTIAL NUMBER
[Symbol]	SECURITY SURVEILLANCE TELEVISION LINE, MIN. 1" RACEWAY
[Symbol]	RADIO FREQUENCY IDENTIFICATION
[Symbol]	DESK MOUNTED RADIO PHONE
[Symbol]	WALL MOUNTED RADIO PHONE MOUNTED AT 48" A.F.F. UNLESS NOTED OTHERWISE R = RECESSED S = SURFACE
[Symbol]	VIDEO SURVEILLANCE MONITOR STATION

ABBREVIATIONS	
8P8C	EIGHT POSITION, EIGHT CONTACT
A	
AAP	ALARM ANNUNCIATOR PANEL
AFG	ABOVE FINISHED GRADE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
ANSI	THE AMERICAN NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECT
B	
BATT	BATTERY
BOCT	BOTTOM OF CABLE TRAY
BICSI	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
C	
C	CONDUIT
CATV	COMMUNITY ANTENNA TELEVISION
CFCI	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED (DEFAULT FOR THE WORD "PROVIDE")
CFGI	CONTRACTOR FURNISHED / GOVERNMENT INSTALLED
CLG	CEILING
CM	CEILING MOUNTED
CMR	COMPUTER MACHINE ROOM
COAX	COAXIAL CABLE
COMM	COMMUNICATION
CONT	CONTINUE/ CONTINUOUS
CTR	CENTER
CU	COPPER
D	
DB	DECIBEL OR DIRECT BURIAL
DC	DIRECT CURRENT
DEMO	DEMOLISH/ DEMOLITION
DIA	DIAMETER
DM	DIMENSION
DL	DOME LIGHT
DWG	DRAWING
E	
EA	EACH
EH	EXTRA HAZARD
EL	ELEVATION
ELEV	ELEVATOR
EMER	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
EQPM	EQUIPMENT
ETR	EXISTING TO REMAIN
EX	EXISTING
F	
FA	FIRE ALARM
FFE	FINISHED FLOOR ELEVATION
FLEX	FLEXIBLE METALLIC CONDUIT
FLR	FLOOR
FT	FEET
FO	FIBER-OPTIC
G	
GA	GAUGE
GC	GENERAL CONTRACTOR
GND	GROUND
GFCI	GOVERNMENT FURNISHED / CONTRACTOR INSTALLED
GFGI	GOVERNMENT FURNISHED / GOVERNMENT INSTALLED
H	
HCM	HORIZONTAL CABLE MANAGER
HGT	HEIGHT
HH	HANDHOLE
HKLB	HOUSE KEY LOCK BOX
HLS	HOMELAND SECURITY
HZ	HERTZ
I	
ICT	INFORMATION AND COMMUNICATIONS TECHNOLOGY
ID	INSIDE DIAMETER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IR	INFRARED
ISP	INSIDE PLANT
J	
JB	JUNCTION BOX

K	
KW	KILOWATT
L	
LED	LIGHT EMITTING DIODE
LF	LINEAR FEET (FOOT)
LH	LINEAR HAZARD
LOC	LOCAL OPERATING CONSOLE
LV	LOW VOLTAGE
M	
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MC	METAL-CLAD
MCR	MAIN COMMUNICATION ROOM
MDF	MAIN DISTRIBUTION FRAME
MH	MANHOLE
MIN	MINIMUM
MTD	MOUNTED
MTG	MOUNTING
N	
NA	NOT APPLICABLE
NCS	NATIONAL CONTRACT SERVICE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
O	
OC	ON CENTER
O.D.	OUTSIDE DIAMETER
OH	ORDINARY HAZARD
OSP	OUTSIDE PLANT
P	
PA	PUBLIC ADDRESS
PACS	PHYSICAL ACCESS CONTROL SYSTEM
PC	PULL CORD
POE	POWER OVER ETHERNET
PP	PATCH PANEL
PSIM	PHYSICAL SECURITY INFORMATION MANAGEMENT
PWR	POWER
R	
RBB	RACK BONDING BUSBAR
RCDD	REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
RCF	REFLECTED CEILING PLAN
RCPT	RECEPTACLE
REC	RECESSED
REQD	REQUIRED
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMS	ROOT MEAN SQUARE
RU	RACK UNIT
S	
S	SUPPLY
SBB	SECONDARY BONDING BUSBAR (LEGACY: TGB)
SCHED	SCHEDULE
SD	SMOKE DETECTOR
SIM	SIMILAR
SMS	SECURITY MANAGEMENT SYSTEM
SP	SPEAKER
SPEC	SPECIFICATION
SP/ST	SPEAKER/ STROBE
SQ	SQUARE
SSTV	SECURITY SURVEILLANCE TELEVISION
ST	STROBE
STP	SHIELDED TWISTED PAIR
SURF	SURFACE
SYST	SYSTEM
T	
TBB	TELECOMMUNICATION BONDING CONDUCTOR
TE	TELECOMMUNICATIONS ENCLOSURE
TEF	TELECOMMUNICATIONS ENCLOSURE FACILITY
TEL	TELEPHONE
TEMP	TEMPERATURE
TER	TELECOMMUNICATIONS EQUIPMENT ROOM
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TR	TELECOMMUNICATIONS ROOM
TP	TWISTED PAIR
TTB	TELEPHONE TERMINAL BOARD
Typ	TYPICAL

U	
UBC	(TELECOMMUNICATIONS) UNIT BONDING CONDUCTOR
UFD	UNDERFLOOR DUCT
UGND	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTIL	UTILITY
UTP	UNSHIELDED TWISTED PAIR
V	
VCM	VERTICAL CABLE MANAGER
VSS	VIDEO SURVEILLANCE SYSTEM
W	
W/	WITH
WM	WALL MOUNTED
W/O	WITHOUT
X	
XP	EXPLOSION PROOF

STANDARD MOUNTING HEIGHTS	
TELECOMMUNICATIONS:	(AFF / AFG UNLESS NOTED OTHERWISE)
INTERCOM (AREA ONLY)	36"
INTERCOM (TOP)	48"
DATA (TO CENTER)	18"
VOICE (TOP)	48"
DATA/VOICE (TO CENTER)	18"
TV (TO CENTER)	50"

PROJECT CODES AND STANDARDS	
A.	VA OFFICE OF INFORMATION & TECHNOLOGY (OIT) INFRASTRUCTURE STANDARDS FOR TELECOMMUNICATIONS SPACES (ISTS), VERSION 4.0, JUNE 1 2023
B.	VA PG-18-10 TELECOMMUNICATIONS AND SPECIAL TELECOMMUNICATIONS SYSTEMS DESIGN MANUAL, FEBRUARY 2016
C.	BICSI AND EIA/TIA STANDARDS AS DEFINED IN VA-18-10
D.	VA-PSRDM - PHYSICAL SECURITY AND RESILIENCY DESIGN MANUAL 2020, MAY 1, 2024 REVISION

- GENERAL NOTES
- DRAWING IS DIAGRAMMATIC IN NATURE AND IS NOT TO BE CONSTRUED AS ALL INCLUSIVE. FIELD VERIFY EXISTING CONDITIONS AND ADJUST WORK AS REQUIRED TO EXECUTE SPECIFIED WORK.
 - FINAL LOCATION OF ALL DEVICES SHALL BE COORDINATED WITH FINAL ROOM FURNITURE CONFIGURATIONS, ACCESSORIES, SPACE INDICATED FOR SPECIFIC DUTY.
 - ALL ICT OUTLETS WITHIN OCCUPIED SPACES SHALL BE LOCATED WITHIN 18" MAXIMUM FROM AN ELECTRICAL OUTLET; EXCEPTION: ICT OUTLETS INDICATED FOR SPECIFIC DUTY.
 - ELECTRICAL OUTLETS INDICATED FOR REFERENCE PURPOSES ONLY; REFER TO ELECTRICAL PLANS FOR ELECTRICAL REQUIREMENTS.
 - ALL LOCATIONS OF CATV CABLE, TERMINATION AND COMMON EQUIPMENT TO BE COORDINATED WITH CATV SERVICES PROVIDER PRIOR TO INSTALLATION.
 - ALL CABLING SHALL BE ROUTED TO AND TERMINATED IN THE TELECOMMUNICATIONS ROOM.
 - FILL CAPACITIES: CATEGORY FILL CAPACITIES SHALL BE BASED ON AN O.D. OF 25" OR AN AREA OF 04909 SQ. IN. CABLE. MINIMUM PATHWAY FILL = TOTAL REQUIRED BY PROJECT + MINIMUM 25% SPARE CAPACITY. NEXT TRADE SIZE UP IF CABLE PROVIDED HAS A LARGER O.D. THAN THE NEXT TRADE SIZE. CABLE DEPTH SHALL NOT BE MORE THAN 6" MAXIMUM IN ANY PATHWAY.
 - CONDUIT FULL CAPACITIES MAXIMUM FILL = 40%
 - NON-CONTINUOUS (J-HOOK) AND CONTINUOUS (CABLE TRAY) SUPPORTS MAXIMUM FILL = 50% FILL.
 - SLEEVES 2" IN LENGTH MAXIMUM FILL = 75%
 - ALL CABLING SHALL BE LABELED ON BOTH ENDS.
 - MOUNTING HEIGHTS FOR DEVICES SHALL BE MEASURED FROM FINAL FINISH FLOOR TO CENTER OF BOX.
 - VERIFY MOUNTING HEIGHT OF ALL COMMUNICATIONS DEVICES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN. WHERE CONFLICTS EXIST, CONTRACTOR SHALL NOTIFY ENGINEER AND ARCHITECT FOR RESOLUTION.
 - VERIFY THE LOCATIONS AND RATINGS DLOF ALL FIREPROOFING PRIOR TO THE INSTALLATION OF CONDUIT AND BACKBOXES.
 - IF FIELD CONDITIONS VARY FROM THE DRAWINGS, THE CONTRACTOR SHALL DOCUMENT THE VARIATION AND REPORT IT TO THE GENERAL CONTRACTOR FOR RESOLUTION WITH THE ENGINEER OF RECORD.
 - COORDINATE THE INSTALLATION REQUIREMENTS OF SYSTEM DEVICES, EQUIPMENT, PATHWAYS, AND OTHER COMPONENTS WITH THE GENERAL CONTRACTOR AND OTHER BUILDING TRADES PRIOR TO INSTALLATION.
 - COORDINATE GROUNDING REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR AND ENSURE THE COMMUNICATIONS GROUNDING MEETS SYSTEM REQUIREMENTS AND TIA-EIA-607-A STANDARDS PRIOR TO ENERGIZING AND SYSTEMS EQUIPMENT.
 - THIS SITE IS AN ACTIVE WORKING ENVIRONMENT. SYSTEMS SHALL NOT BE SHUTDOWN WITHOUT WRITTEN AUTHORIZATION. ALL REQUESTS SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWENTY (20) WORKING-DAYS PRIOR TO PROPOSED ACTIVITY DATE OR NEED UNLESS DIRECTED OTHERWISE.
 - THE WORD "PROVIDE" SHALL BE UNDERSTOOD TO MEAN CONTRACTOR-FURNISHED AND CONTRACTOR-INSTALLED, INCLUDING - BUT NOT LIMITED TO - ALL REQUIRED INTEGRATION WITH OTHER BUILDING SYSTEMS, PROGRAMMING AND CONFIGURATION, COORDINATION AND INTEGRATION WITH THE OWNER'S SYSTEMS, AND ALL NECESSARY INSTALLATION, NETWORK HARDWARE, SOFTWARE, LICENSING, AND CLIENT COMPONENTS.
 - ALL ITEMS SPECIFIED OR NOTED ARE CFCI AND SHALL BE PROVIDED UNLESS SPECIFICALLY OTHERWISE NOTED.
 - ALL CATEGORY CABLING SHALL BE TERMINATED TO ADHERE TO 568-B STANDARD.

No.	REVISION DESCRIPTION	DATE

CONSULTANTS:		
FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 359-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169
INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 11140 S. TOWNE SQUARE, #100 ST. LOUIS, MO 63123 (314) 917-0148	PHYSICAL SECURITY FORCE PROTECT 10801 FRONT BEACH RD, #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500

ARCHITECT: **SPUR**

SPUR # 2409
SPUR DESIGN, LLC
312 SW 25TH STREET
Oklahoma City, OK 73109
(405) 842-6100

ARCH REG. NO. 71069
MECH REG. NO. 123862
ELEC REG. NO. 130235

EXP. 04/30/2027
EXP. 06/30/2026
EXP. 04/30/2026

STAMP: **BicSI**
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI ID # 12040
EXPIRES 12-31-27

Drawing Title: **TELECOMMUNICATIONS COVER SHEET**

VA Health Care System Approval:

Project Title: **EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN**

Location: JAMES H. OUILLEN VAMC LAMONT ST. AND VETERANS WAY MOUNTAIN HOME, TN 37684

Date: 08/14/2025

Checked: KGH

Drawn: MDT

Project Number: 621-24-701

Building Number: 77

Drawing Number: **T-001**

Drawing # 47 OF 60

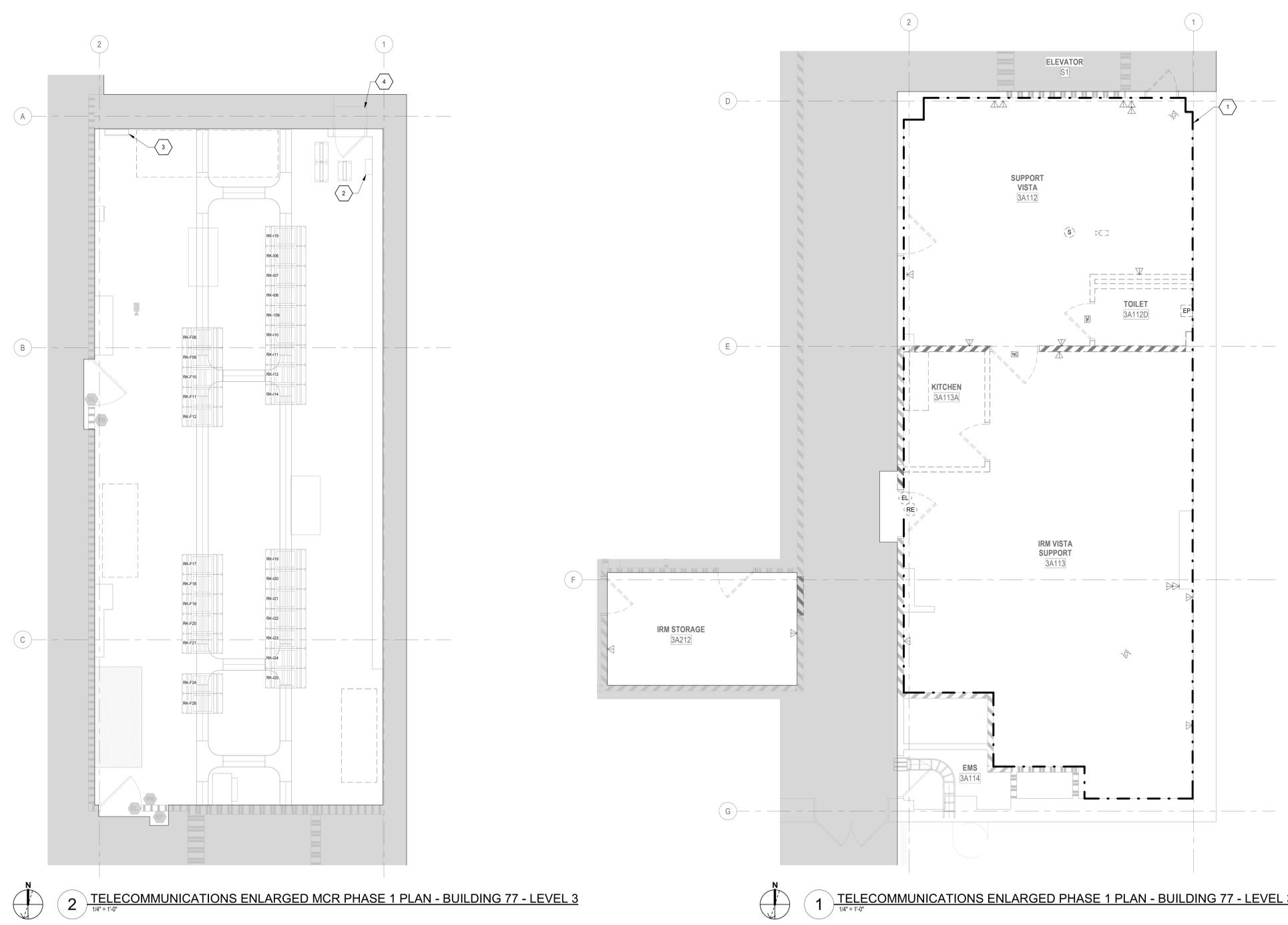
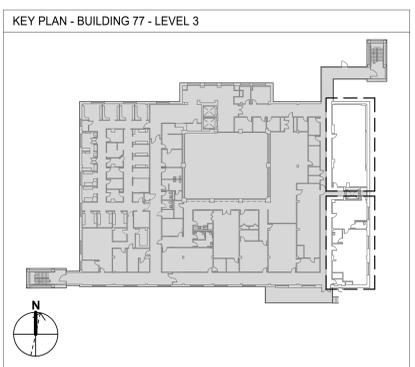
Veterans Health Administration

VA U.S. Department of Veterans Affairs

FINAL BID DOCUMENTS FULLY SPRINKLERED

- TELECOMMUNICATIONS GENERAL DEMOLITION NOTES
- DRAWING IS DIAGRAMMATIC IN NATURE AND IS NOT TO BE CONSTRUED AS ALL INCLUSIVE; FIELD VERIFY EXISTING CONDITIONS AND ADJUST WORK AS REQUIRED TO EXECUTE SPECIFIED WORK.
 - EXISTING CONDITIONS INDICATED ARE BASED ON GENERAL FIELD NOTES AND HISTORICAL DATA AND DOCUMENTATION AND ARE FOR REFERENCE PURPOSES ONLY TO DEFINE SCOPE OF WORK; FIELD VERIFY ALL CONDITIONS.
 - THIS SITE IS AN ACTIVE WORKING ENVIRONMENT; SYSTEMS SHALL NOT BE SHUTDOWN WITHOUT WRITTEN AUTHORIZATION; ALL REQUESTS SHALL BE SUBMITTED IN WRITING A MINIMUM OF TEN (10) WORKING-DAYS PRIOR TO PROPOSED ACTIVITY DATE OR NEED UNLESS DIRECTED OTHERWISE.
 - SEE T-000 TELECOMMUNICATIONS COVER SHEET FOR SYMBOLS DEFINITION
 - SYMBOLS GRAYED/HALFTONE: INDICATED FOR REFERENCE AND/OR INDICATING EXISTING UNLESS SPECIFICALLY NOTED OTHERWISE.
 - SYMBOLS DASHED OR SPECIFICALLY KEYS NOTED: INDICATES DEMOLITION WORK.
 - OWNER SHALL HAVE FIRST SALVAGE RIGHTS FOR ANY DEMOLISHED DEVICES OR MATERIAL.
 - LOCATE EXISTING COMMUNICATIONS CABLE AND PATHWAYS THAT MAY BE AFFECTED BY DEMOLITION AND CONSTRUCTION PRIOR TO DEMOLITION, INCLUDING BUT NOT LIMITED TO SYSTEMS PATHWAYS AND SERVICE ENTRANCES.
 - VERIFY ACTUAL QUANTITIES AND LOCATIONS OF EXISTING EQUIPMENT TO BE DEMOLISHED WITH THE OWNER AND GENERAL CONTRACTOR PRIOR TO COMMENCEMENT OF DEMOLITION WORK.
 - PROVIDE PATCHING, PAINTING OR OTHER WORK NECESSARY TO REPAIR DAMAGE TO WALLS, CEILINGS, OR SIMILAR CAUSED BY THE DEMOLITION OF THE SYSTEM. COORDINATE REPAIR WORK WITH GENERAL CONTRACTOR AND OWNER.
 - PENETRATIONS IN FIRE RATED ASSEMBLIES RESULTING FROM THE REMOVAL OF EQUIPMENT, PATHWAYS, CABLING, OR OTHER EQUIPMENT SHALL BE FIRE STOPPED PER THE LATEST EDITION OF THE UL FIRE RESISTANCE DIRECTORY.
 - REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION REGARDING THE SCOPE OF DEMOLITION WORK.
 - THE OWNER CLAIMS FIRST RIGHT OF REFUSAL FOR EXISTING EQUIPMENT. COORDINATE SALVAGE REQUIREMENTS WITH THE OWNER PRIOR TO DEMOLITION. IDENTIFY, TAG, AND CAREFULLY DECOMMISSION EQUIPMENT TO BE SALVAGED FOR THE OWNER. EQUIPMENT NOT WANTED BY THE OWNER SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE.
 - FIELD VERIFY ALL EXISTING DEVICES, EQUIPMENT, CABLING, AND OTHER COMPONENTS TO REMAIN OPERATIONAL PRIOR TO DEMOLITION. WHERE CIRCUITS REMAIN OPERATIONAL IN THE CONSTRUCTION AREA, DOCUMENT PLAN ROUTES AND PROVIDE A CABLE SCHEDULE INDICATING THE AFFECTED SYSTEMS. REVIEW REQUIREMENTS FOR ACTIVE CABLING WITH THE OWNER AND GENERAL CONTRACTOR PRIOR TO DEMOLITION.
 - EXISTING CABLING TO REMAIN SHALL BE TESTED TO ENSURE IT MEETS TIA/EIA PERFORMANCE STANDARDS AS INDICATED ON THE CABLE JACKET. CABLING DETERMINED TO NOT ACHIEVE PERFORMANCE STANDARDS SHALL BE REPLACED.
 - PROVIDE BLANK COVER PLATES MATCHING THE SURROUNDING SURFACES ON ALL BACKBOXES TO REMAIN IN PLACE.

- TELECOMMUNICATIONS DEMOLITION KEYNOTES
- | | |
|---|--|
| 1 | REMOVE AND RETAIN ALL DATA, ESS, NURSE-CALL, OR OTHER LOW-VOLTAGE SYSTEM DEVICES TO VA. DEMOLISH CABLING BACK TO SOURCE. RETURN ALL CABLING AND DEVICES TO VA. EXISTING PATHWAYS WILL REMAIN AND BE REUSED WHERE FEASIBLE. |
| 2 | EXISTING IDS PANEL TO REMAIN. |
| 3 | EXISTING ELECTRICAL PANEL. REFER TO ELECTRICAL FOR MORE INFORMATION. |
| 4 | EXISTING COMMUNICATIONS CABLING CHASE. |



2 TELECOMMUNICATIONS ENLARGED MCR PHASE 1 PLAN - BUILDING 77 - LEVEL 3
1/4" = 1'-0"

1 TELECOMMUNICATIONS ENLARGED PHASE 1 PLAN - BUILDING 77 - LEVEL 3
1/4" = 1'-0"

FINAL BID DOCUMENTS FULLY SPRINKLERED

No.	REVISION DESCRIPTION	DATE

CONSULTANTS:

FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 399-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169
INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 11140 S. TOWNE SQUARE, #100 ST. LOUIS, MO 63123 (314) 917-0148	PHYSICAL SECURITY FORCE PROTECT 10001 FRONT BEACH RD, #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500

ARCHITECT:

SPUR

SPUR # 2409

SPUR DESIGN, LLC
 312 SW 25TH STREET
 Oklahoma City, OK 73109
 (405) 842-6100

ARCH REG. NO. 71069
 MECH REG. NO. 123862
 ELEC REG. NO. 130235

EXP. 04/30/2027
 EXP. 06/30/2026
 EXP. 04/30/2026

STAMP:

Bicsi
 REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
 KANSAS CITY, MO
 EXPIRES 12-31-27

Drawing Title
TELECOMMUNICATIONS ENLARGED PHASE 1 PLAN - BUILDING 77 - LEVEL 3 - MCR

VA Health Care System Approval:

Project Title
EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN

Location JAMES H. OUILLEN VAMC
 LAMONT ST. AND VETERANS WAY
 MOUNTAIN HOME, TN 37684

Date 08/14/2025

Checked KGH
 Drawn MDT

Project Number
621-24-701

Building Number
77

Drawing Number
TD401

Drawing # 49 OF 60

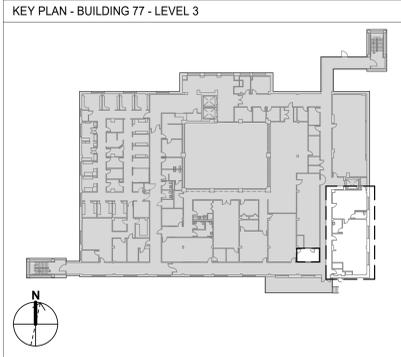
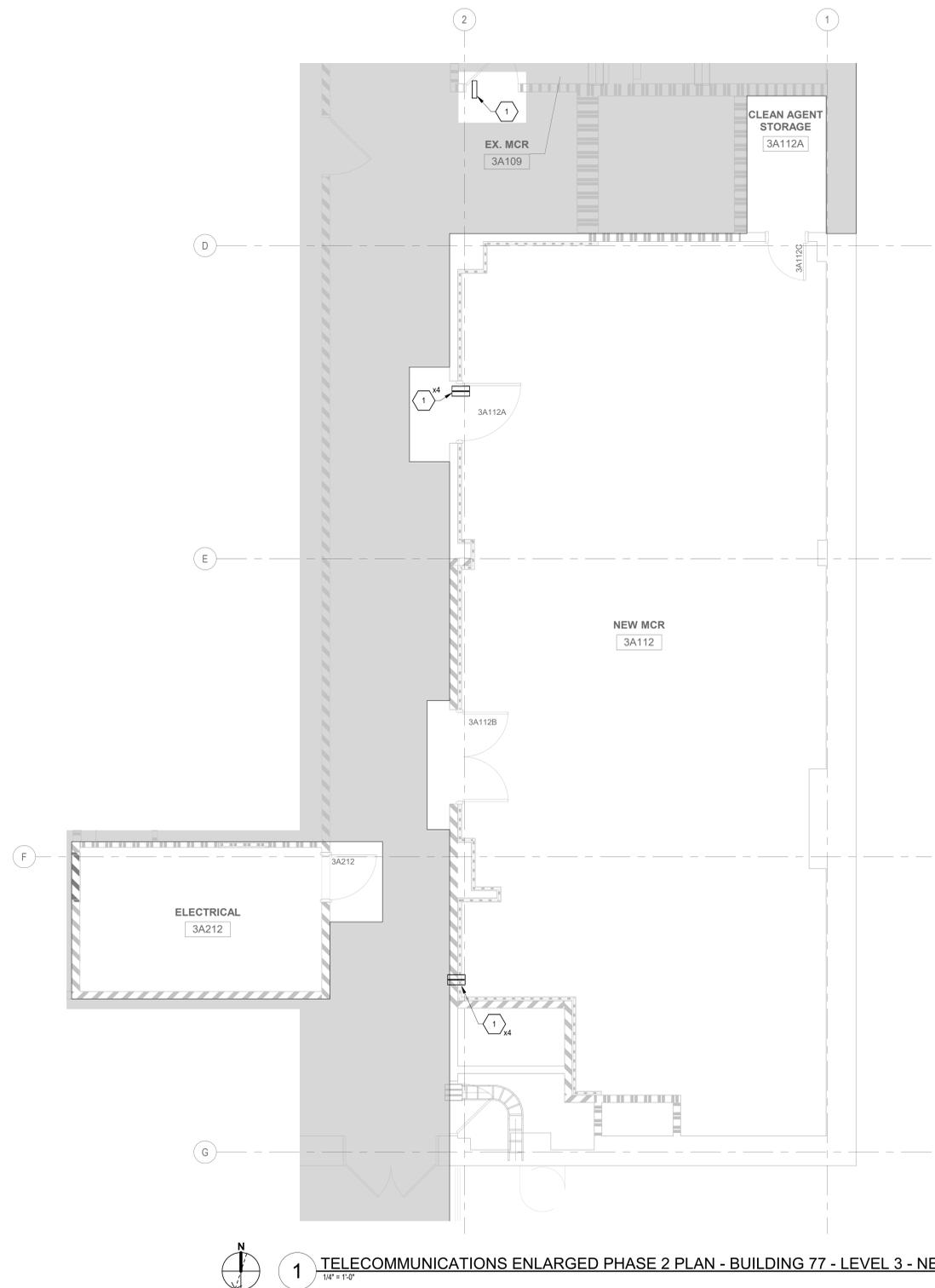
Veterans Health Administration

VA U.S. Department of Veterans Affairs

8/12/2025 3:07:21 PM

- TELECOMMUNICATIONS GENERAL NOTES
- DRAWING IS DIAGRAMMATIC IN NATURE AND IS NOT TO BE CONSTRUED AS ALL INCLUSIVE; FIELD VERIFY EXISTING CONDITIONS AND ADJUST WORK AS REQUIRED TO EXECUTE SPECIFIED WORK.
 - EXISTING CONDITIONS INDICATED ARE BASED ON GENERAL FIELD NOTES AND HISTORICAL DATA AND DOCUMENTATION AND ARE FOR REFERENCE PURPOSES ONLY TO DEFINE SCOPE OF WORK; FIELD VERIFY ALL CONDITIONS.
 - THIS SITE IS AN ACTIVE WORKING ENVIRONMENT; SYSTEMS SHALL NOT BE SHUTDOWN WITHOUT WRITTEN AUTHORIZATION; ALL REQUESTS SHALL BE SUBMITTED IN WRITING A MINIMUM OF TEN (10) WORKING-DAYS PRIOR TO PROPOSED ACTIVITY DATE OR NEED UNLESS DIRECTED OTHERWISE.
 - SEE T-001 TELECOMMUNICATIONS COVER SHEET FOR SYMBOLS DEFINITION:
 - SYMBOLS GRAYED/HALFTONE: INDICATED FOR REFERENCE AND/OR INDICATING EXISTING UNLESS SPECIFICALLY NOTED OTHERWISE.
 - SYMBOLS DASHED OR SPECIFICALLY KEYED NOTED: INDICATES DEMOLITION WORK.
 - OWNER SHALL HAVE FIRST SALVAGE RIGHTS FOR ANY DEMOLISHED DEVICES OR MATERIAL.

- TELECOMMUNICATIONS KEYNOTES
- 4" UL LISTED, FIRE RATED AIR-TIGHT SLEEVES.



1 TELECOMMUNICATIONS ENLARGED PHASE 2 PLAN - BUILDING 77 - LEVEL 3 - NEW MCR 3A112
1/4" = 1'-0"

Scale indicators on the left margin: three inches = one foot, one and one half inches = one foot, one inch = one foot, three quarters inch = one foot, one half inch = one foot, three eighths inch = one foot, one quarter inch = one foot, one eighth inch = one foot.

8/12/2025 3:07:22 PM

VA FORM 08-6231

FINAL BID DOCUMENTS FULLY SPRINKLERED

No.	REVISION DESCRIPTION	DATE

CONSULTANTS:

FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169
INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 11140 S. TOWNE SQUARE, #100 ST. LOUIS, MO 63123 (314) 917-0148	PHYSICAL SECURITY FORCE PROTECT 10001 FRONT BEACH RD, #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500

ARCHITECT: SPUR # 2409

SPUR DESIGN, LLC
312 SW 25TH STREET
Oklahoma City, OK 73109
(405) 842-6100

ARCH REG. NO. 71069 EXP. 04/30/2027
MECH REG. NO. 123862 EXP. 06/30/2026
ELEC REG. NO. 130235 EXP. 04/30/2026



Drawing Title
TELECOMMUNICATIONS ENLARGED PHASE 2 PLAN - BUILDING 77 - LEVEL 3 - NEW MCR 3A112

Project Title
EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN

Location
JAMES H. OUILLEN VAMC
LAMONT ST. AND VETERANS WAY
MOUNTAIN HOME, TN 37684

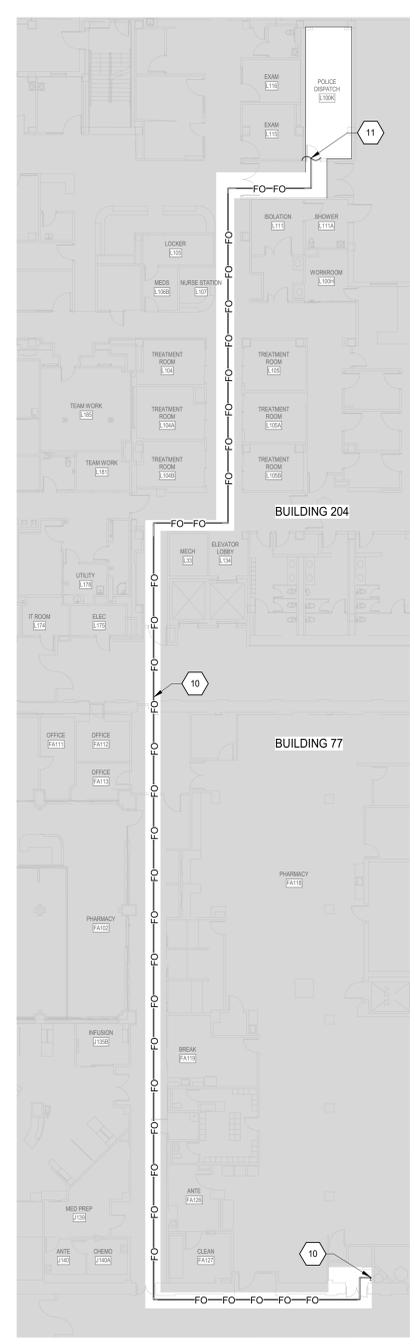
VA Health Care System Approval:

Date	Checked	Drawn
08/14/2025	KGH	MDT

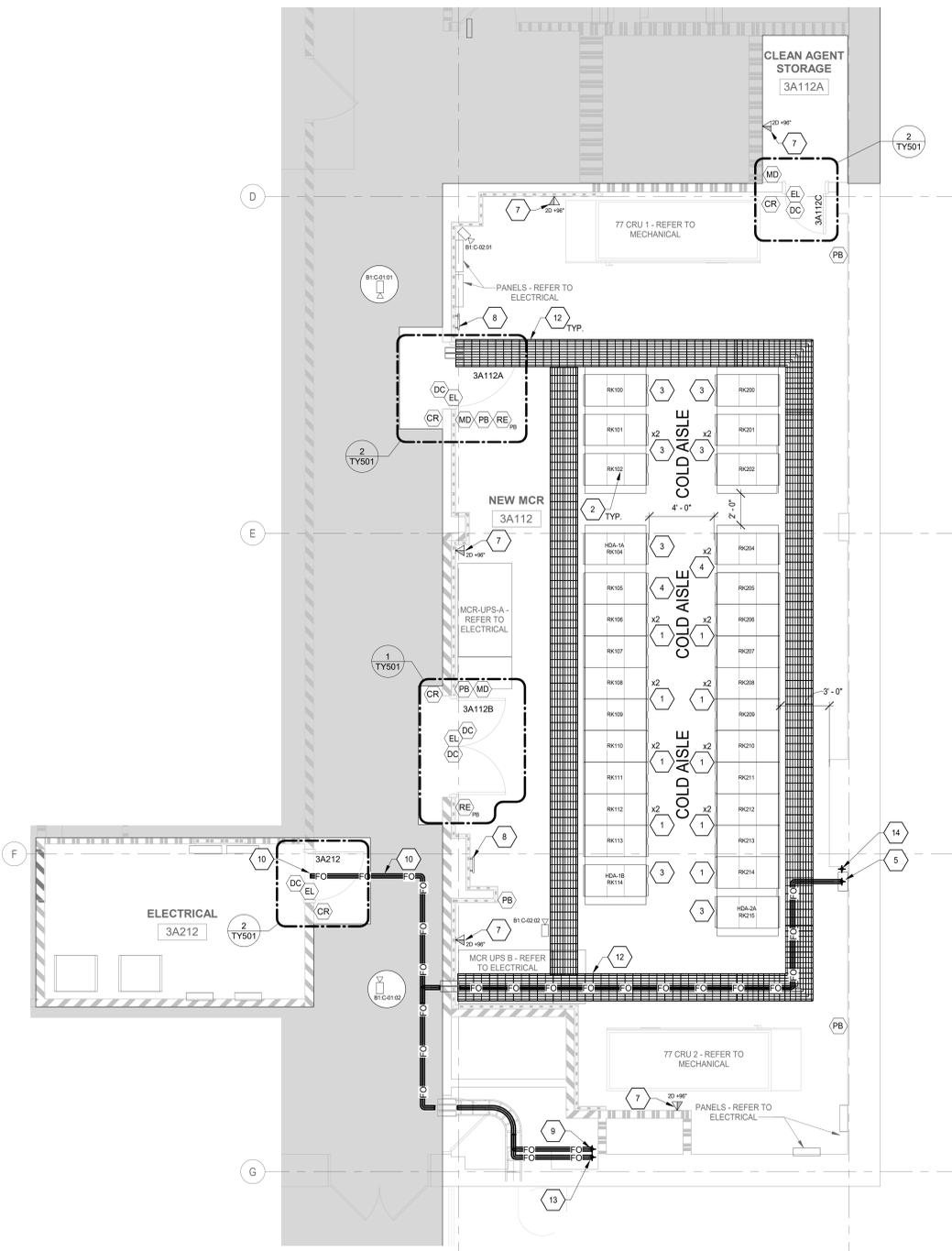
Project Number	621-24-701
Building Number	77
Drawing Number	TN401
Drawing #	50 OF 60



one eighth inch = one foot
 one quarter inch = one foot
 three eighths inch = one foot
 one half inch = one foot
 three quarters inch = one foot
 one inch = one foot
 one and one half inches = one foot
 three inches = one foot



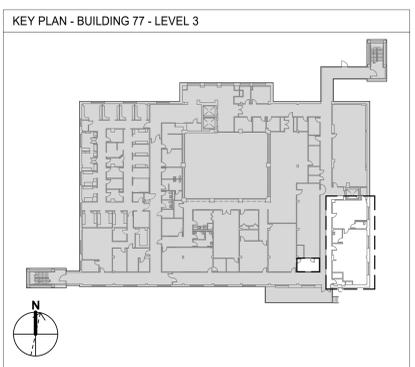
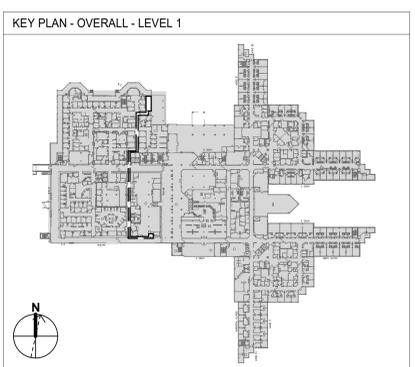
3 TELECOMMUNICATIONS FIBER INTERFACE PHASE 3 PLAN - LEVEL 1
 1/16" = 1'-0"



1 TELECOMMUNICATIONS ENLARGED PHASE 3 PLAN - BUILDING 77 - LEVEL 3 - NEW MCR 3A112
 1/4" = 1'-0"

- TELECOMMUNICATIONS GENERAL NOTES
- DRAWING IS DIAGRAMMATIC IN NATURE AND IS NOT TO BE CONSTRUED AS ALL INCLUSIVE; FIELD VERIFY EXISTING CONDITIONS AND ADJUST WORK AS REQUIRED TO EXECUTE SPECIFIED WORK.
 - EXISTING CONDITIONS INDICATED ARE BASED ON GENERAL FIELD NOTES AND HISTORICAL DATA AND DOCUMENTATION AND ARE FOR REFERENCE PURPOSES ONLY TO DEFINE SCOPE OF WORK; FIELD VERIFY ALL CONDITIONS.
 - THIS SITE IS AN ACTIVE WORKING ENVIRONMENT; SYSTEMS SHALL NOT BE SHUTDOWN WITHOUT WRITTEN AUTHORIZATION; ALL REQUESTS SHALL BE SUBMITTED IN WRITING A MINIMUM OF TEN (10) WORKING-DAYS PRIOR TO PROPOSED ACTIVITY DATE OR NEED UNLESS DIRECTED OTHERWISE.
 - SEE T-001 TELECOMMUNICATIONS COVER SHEET FOR SYMBOLS DEFINITION
 - SYMBOLS GRAYED/HALFTONE: INDICATED FOR REFERENCE AND/OR INDICATING EXISTING UNLESS SPECIFICALLY NOTED OTHERWISE.
 - SYMBOLS DASHED OR SPECIFICALLY KEYED NOTED: INDICATES DEMOLITION WORK.
 - OWNER SHALL HAVE FIRST SALVAGE RIGHTS FOR ANY DEMOLISHED DEVICES OR MATERIAL.

- TELECOMMUNICATIONS KEYNOTES
- NETWORK SERVER.
 - PROVIDE A PHENOLIC NAMEPLATE FOR EACH CABINET, LABELED PER THE TEXT DISPLAYED ON THE CABINET.
 - EQUIPMENT DISTRIBUTOR WITH 8" SIDECARS.
 - NETWORK SERVER WITH 8" SIDECARS.
 - IF NEW CABINETS HAVE NOT BEEN INSTALLED PRIOR TO FIBER OPTIC CABLING DEMARC IS INSTALLED; PROVIDE FIBER OPTIC SLACK STORAGE BOX FOR FIBER OPTIC CABLING TO KEEP SAFE DURING CONSTRUCTION UNTIL THE TIME THE FIBER OPTIC CABLING CAN BE TERMINATED; REFER TO DETAIL 5 ON SHEET TN502 FOR FIBER OPTIC SLACK STORAGE BOX.
 - DATA FOR CRU, UPS, AND OTHER BAS MONITORING CONNECTIVITY; COORDINATE FINAL LOCATION AND PATCH CORD CONNECTION WITH EQUIPMENT AND INSTALLER; REFER TO DETAIL 4 ON SHEET TN502 FOR MORE INFORMATION.
 - MOUNT SBB AT 6'-6" AFF.
 - 4" EMT CONDUIT STUB-DOWN FOR FIRE ALARM INTERFACE FIBER OPTIC CABLING; REFER TO VIEW 2 ON SHEET TN402 FOR CONTINUATION.
 - 2-STRAND OS2 SINGLE-MODE FIBER OPTIC CABLING IN 4" EMT CONDUIT TO CONNECT THE NEW CLEAN AGENT RELEASING SERVICE FIRE ALARM CONTROL UNIT TO THE EXISTING MAIN BUILDING FIRE ALARM CONTROL PANEL; REFER TO FIRE ALARM FOR NEW CONTROL UNIT AND FURTHER INFORMATION; FUSION SPLICE IN COMPLIANCE WITH VA STANDARDS.
 - TERMINATE 2-STRAND OS2 SINGLE-MODE FIBER OPTIC CABLING TO EXISTING FIRE ALARM CONTROL PANEL IN POLICE DISPATCH; FIELD VERIFY EXACT PANEL LOCATION.
 - WIRE MESH / BASKET CABLE TRAY AS SHOWN.
 - 4" EMT CONDUIT STUB-DOWN FOR 48-STRAND MULTI-MODE AND 24-STRAND SINGLE-MODE FIBER IN CONDUIT FROM THE EXISTING DEMARCATION ROOM (TELECOM A006) TO THE NEW MCR; REFER TO VIEW 1 ON SHEET TN463 FOR CONTINUATION.
 - 4" EMT CONDUIT STUB-DOWN FOR 48-STRAND MULTI-MODE AND 24-STRAND SINGLE-MODE FIBER IN CONDUIT FROM THE EXISTING DEMARCATION ROOM (TELECOM A006) TO THE NEW MCR; REFER TO VIEW 2 ON SHEET TN463 FOR CONTINUATION.



FINAL BID DOCUMENTS FULLY SPRINKLERED

No.	REVISION DESCRIPTION	DATE

CONSULTANTS:

FIRE PROTECTION ENGINEER SPUR DESIGN 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MET/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169
INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 11140 S. TOWNE SQUARE, #100 ST. LOUIS, MO 63123 (314) 917-0148	PHYSICAL SECURITY FORCE PROTECT 10901 FRONT BEACH RD, #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500

ARCHITECT: SPUR # 2409

ARCHITECT: SPUR # 2409

SPUR DESIGN, LLC
312 SW 25TH STREET
Oklahoma City, OK 73109
(405) 842-6100

ARCH REG. NO. 71069 EXP. 04/30/2027
MECH REG. NO. 123862 EXP. 06/30/2026
ELEC REG. NO. 130235 EXP. 04/30/2026

STAMP:

Drawing Title
TELECOMMUNICATIONS ENLARGED PHASE 3 PLANS

VA Health Care System Approval:

Project Title
EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN

Location JAMES H. OUILLEN VAMC
LAMONT ST. AND VETERANS WAY
MOUNTAIN HOME, TN 37684

Date 08/14/2025

Checked KGH
Drawn MDT

Project Number
621-24-701

Building Number
77

Drawing Number
TN402

Drawing # 51 OF 60

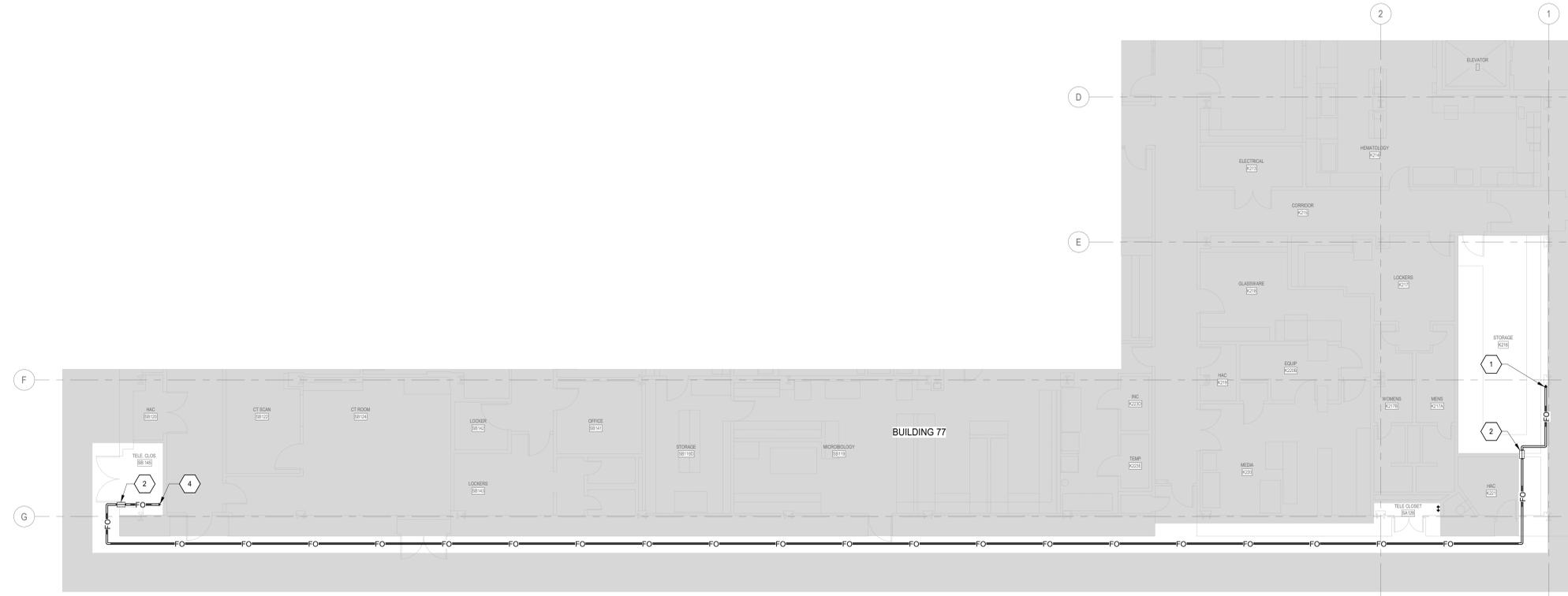
Veterans Health Administration

U.S. Department of Veterans Affairs

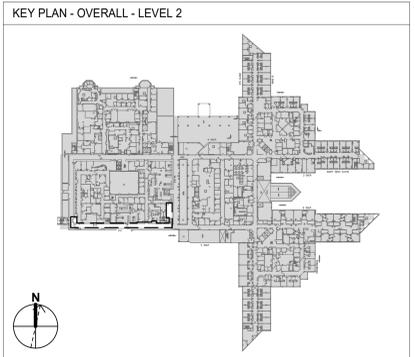
three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one sixteenth inch = one foot

- TELECOMMUNICATIONS GENERAL NOTES**
- DRAWING IS DIAGRAMMATIC IN NATURE AND IS NOT TO BE CONSTRUED AS ALL INCLUSIVE; FIELD VERIFY EXISTING CONDITIONS AND ADJUST WORK AS REQUIRED TO EXECUTE SPECIFIED WORK.
 - EXISTING CONDITIONS INDICATED ARE BASED ON GENERAL FIELD NOTES AND HISTORICAL DATA AND DOCUMENTATION AND ARE FOR REFERENCE PURPOSES ONLY TO DEFINE SCOPE OF WORK; FIELD VERIFY ALL CONDITIONS.
 - THIS SITE IS AN ACTIVE WORKING ENVIRONMENT. SYSTEMS SHALL NOT BE SHUTDOWN WITHOUT WRITTEN AUTHORIZATION. ALL REQUESTS SHALL BE SUBMITTED IN WRITING A MINIMUM OF TEN (10) WORKING-DAYS PRIOR TO PROPOSED ACTIVITY DATE OR NEED UNLESS DIRECTED OTHERWISE.
 - SEE T-001 TELECOMMUNICATIONS COVER SHEET FOR SYMBOLS DEFINITION.
 - SYMBOLS GRAYED/HALFTONE: INDICATED FOR REFERENCE AND/OR INDICATING EXISTING UNLESS SPECIFICALLY NOTED OTHERWISE.
 - SYMBOLS DASHED OR SPECIFICALLY KEYED NOTED: INDICATES DEMOLITION WORK.
 - OWNER SHALL HAVE FIRST SALVAGE RIGHTS FOR ANY DEMOLISHED DEVICES OR MATERIAL.

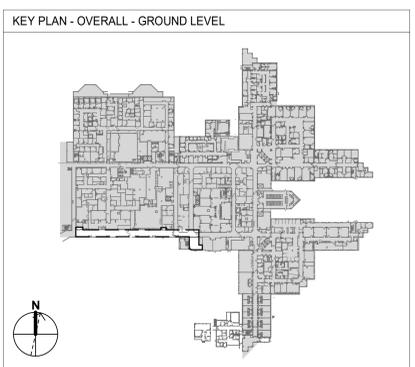
- TELECOMMUNICATIONS KEYNOTES**
- 4" EMT CONDUIT STUB-UP 48-STRAND MULTI-MODE AND 48-STRAND SINGLE-MODE FIBER TO LEVEL 3. REFER TO VIEW 1 ON SHEET TN402 FOR MORE INFORMATION/CONTINUATION.
 - 4" UL LISTED, FIRE RATED AIR-TIGHT SLEEVES, AS REQUIRED.
 - 48-STRAND MULTI-MODE AND 24-STRAND SINGLE-MODE FIBER IN 4" EMT CONDUIT FROM THE EXISTING DEMARCATION ROOM (TELECOM A006) TO THE NEW MCR, ROUTED THROUGH THE ACCESSIBLE CEILING SPACE BENEATH THE WALKWAY.
 - 4" EMT CONDUIT STUB-DOWN FOR 48-STRAND MULTI-MODE AND 24-STRAND SINGLE-MODE FIBER IN CONDUIT FROM THE EXISTING DEMARCATION ROOM (TELECOM A006) TO THE NEW MCR. REFER TO VIEW 1 ON SHEET TN403 FOR CONTINUATION.
 - 4" EMT CONDUIT STUB-UP 48-STRAND MULTI-MODE AND 48-STRAND SINGLE-MODE FIBER TO LEVEL 3. REFER TO VIEW 2 ON SHEET TN403 FOR MORE INFORMATION/CONTINUATION.



2 TELECOMMUNICATIONS DEMARC FIBER PHASE 3 PLAN - LEVEL 2
 1/8" = 1'-0"



1 TELECOMMUNICATIONS DEMARC FIBER PHASE 3 PLAN - GROUND LEVEL
 1/8" = 1'-0"



FINAL BID DOCUMENTS FULLY SPRINKLERED

No.	REVISION DESCRIPTION	DATE

CONSULTANTS:

FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169
INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 11140 S. TOWNE SQUARE, #100 ST. LOUIS, MO 63123 (314) 917-0148	PHYSICAL SECURITY FORCE PROTECT 10001 FRONT BEACH RD, #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500

ARCHITECT: SPUR # 2409

SPUR DESIGN, LLC
 312 SW 25TH STREET
 Oklahoma City, OK 73109
 (405) 842-6100

ARCH REG. NO. 71069 EXP. 04/30/2027
 MECH REG. NO. 123862 EXP. 06/30/2026
 ELEC REG. NO. 130235 EXP. 04/30/2026

STAMP:

Drawing Title
TELECOMMUNICATIONS ENLARGED PHASE 3 FIBER OPTIC DEMARC PLANS

VA Health Care System Approval:

Project Title
EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN

Location JAMES H. QUILLEN VAMC
 LAMONT ST. AND VETERANS WAY
 MOUNTAIN HOME, TN 37684

Date **08/14/2025**

Checked KGH
 Drawn MDT

Project Number
621-24-701

Building Number
77

Drawing Number
TN403

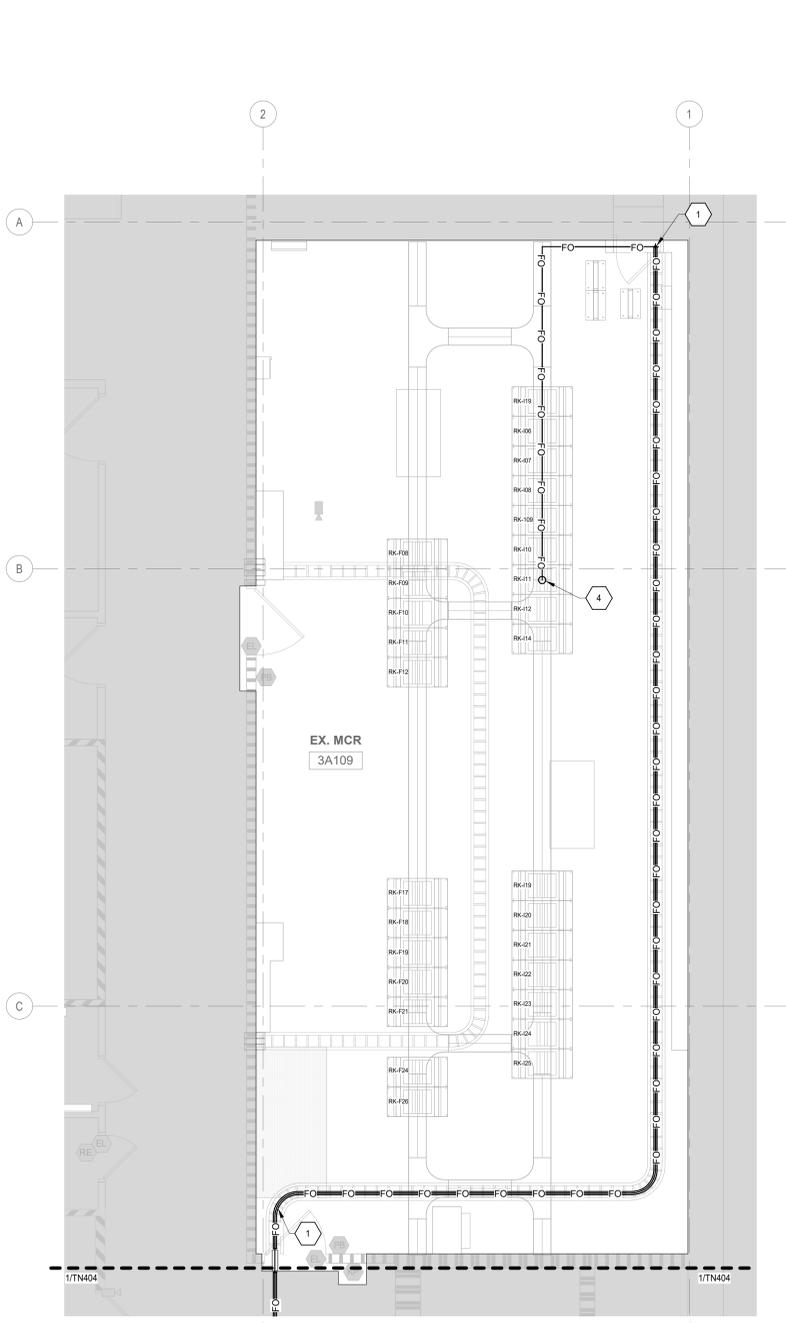
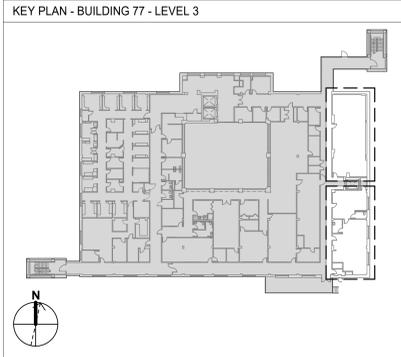
Drawing # 52 OF 60

Veterans Health Administration

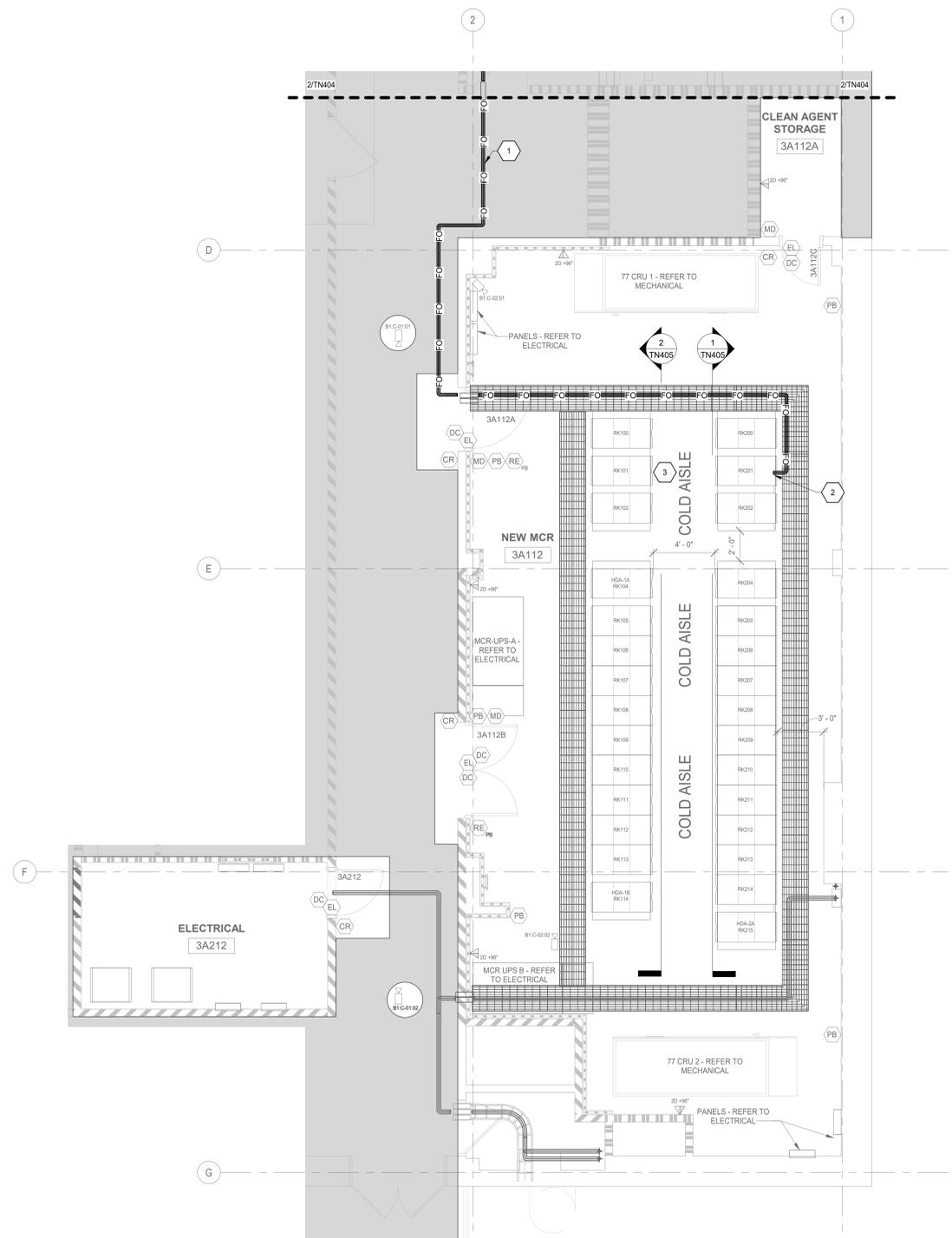
VA U.S. Department of Veterans Affairs

- TELECOMMUNICATIONS GENERAL NOTES
- DRAWING IS DIAGRAMMATIC IN NATURE AND IS NOT TO BE CONSTRUED AS ALL INCLUSIVE; FIELD VERIFY EXISTING CONDITIONS AND ADJUST WORK AS REQUIRED TO EXECUTE SPECIFIED WORK.
 - EXISTING CONDITIONS INDICATED ARE BASED ON GENERAL FIELD NOTES AND HISTORICAL DATA AND DOCUMENTATION AND ARE FOR REFERENCE PURPOSES ONLY TO DEFINE SCOPE OF WORK; FIELD VERIFY ALL CONDITIONS.
 - THIS SITE IS AN ACTIVE WORKING ENVIRONMENT; SYSTEMS SHALL NOT BE SHUTDOWN WITHOUT WRITTEN AUTHORIZATION; ALL REQUESTS SHALL BE SUBMITTED IN WRITING A MINIMUM OF TEN (10) WORKING-DAYS PRIOR TO PROPOSED ACTIVITY DATE OR NEED UNLESS DIRECTED OTHERWISE.
 - SEE T-001 TELECOMMUNICATIONS COVER SHEET FOR SYMBOLS DEFINITION:
 - SYMBOLS GRAYED/HALFTONE: INDICATED FOR REFERENCE AND/OR INDICATING EXISTING UNLESS SPECIFICALLY NOTED OTHERWISE.
 - SYMBOLS DASHED OR SPECIFICALLY KEYED NOTED: INDICATES DEMOLITION WORK.
 - OWNER SHALL HAVE FIRST SALVAGE RIGHTS FOR ANY DEMOLISHED DEVICES OR MATERIAL.

- TELECOMMUNICATIONS KEYNOTES
- 4" EMT CONDUIT AND 48-STRAND MULTI-MODE AND 24-STRAND SINGLE-MODE FIBER OPTIC BACKBONE CABLING FROM EXISTING MCR MDA TO NEW MDA-A IN NEW MCR 3A112. REFER TO TN002 MEDIA/CABLING SCHEMATIC AND SCHEDULES - BUILDING 77 - LEVEL 3 - MCR FOR MORE INFORMATION. FUSION SPLICE IN COMPLIANCE WITH VA STANDARDS.
 - DEPLOY CORE A IN NEW MCR AND CREATE A TEMPORARY INTERCONNECT "UMBILICAL" TO CORE B IN EXISTING MCR.
 - ONCE CORE A IS DEPLOYED AND THE TEMPORARY INTERCONNECT TO CORE B IS ESTABLISHED, MIGRATE CORE B TO THE NEW MCR. COMPLETE PERMANENT DUAL-CORE CONFIGURATION. THE MIGRATION OF CABLING FROM THE EXISTING MCR TO THE NEW MCR FOR THE TELECOMMUNICATIONS ROOMS SHALL BE COMPLETED WITHIN THE DESIGNATED 90-DAY MIGRATION WINDOW. THE CORE SWITCHES SHALL NOT REMAIN SPLIT OR IN A TRANSITIONAL CONFIGURATION BEYOND THE 90-DAY WINDOW. ALL ASSOCIATED CONNECTIVITY MUST BE FULLY MIGRATED AND OPERATIONAL WITHIN THIS PERIOD.
 - PROVIDE NEW FIBER OPTIC PANEL IN EXISTING MCR RACK "RK-112". COORDINATE INSTALLATION WITH VA AND FUSION SPLICE IN COMPLIANCE WITH VA STANDARDS.



2 ENLARGED EXISTING MCR 3A109 PHASE 4 PLAN - BUILDING 77 - LEVEL 3
1/4" = 1'-0"



1 TELECOMMUNICATIONS ENLARGED PHASE 4 PLAN - BUILDING 77 - LEVEL 3 - NEW MCR 3A112
1/4" = 1'-0"

No.	REVISION DESCRIPTION	DATE

CONSULTANTS:

FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169
INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 11140 S. TOWNE SQUARE, #100 ST. LOUIS, MO 63123 (314) 917-0148	PHYSICAL SECURITY FORCE PROTECT 10001 FRONT BEACH RD. #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500

ARCHITECT: SPUR # 2409

SPUR DESIGN, LLC
312 SW 25TH STREET
Oklahoma City, OK 73109
(405) 842-6100

ARCH REG. NO. 71069 EXP. 04/30/2027
MECH REG. NO. 123862 EXP. 06/30/2026
ELEC REG. NO. 130235 EXP. 04/30/2026

STAMP:

Drawing Title
TELECOMMUNICATIONS ENLARGED PHASE 4 PLAN - BUILDING 77 - LEVEL 3 - NEW MCR 3A112

VA Health Care System Approval:

Project Title
EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN

Location JAMES H. OUILLEN VAMC
LAIMONT ST. AND VETERANS WAY
MOUNTAIN HOME, TN 37684

Date 08/14/2025
Checked KGH
Drawn MDT

Project Number
621-24-701

Building Number
77

Drawing Number
TN404

Drawing # 53 OF 60

Veterans Health Administration

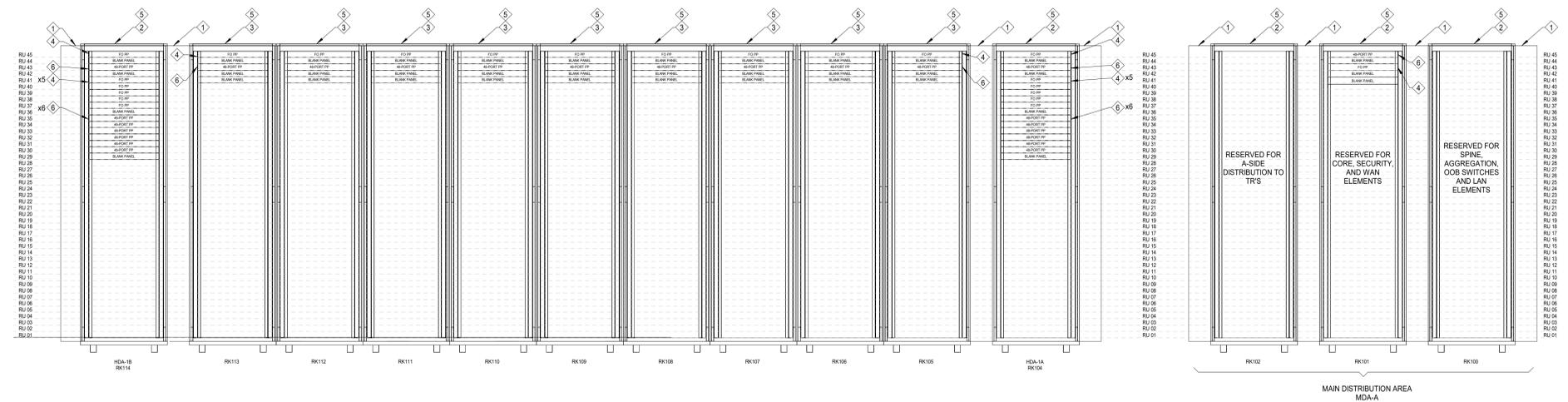
U.S. Department of Veterans Affairs

FINAL BID DOCUMENTS FULLY SPRINKLERED

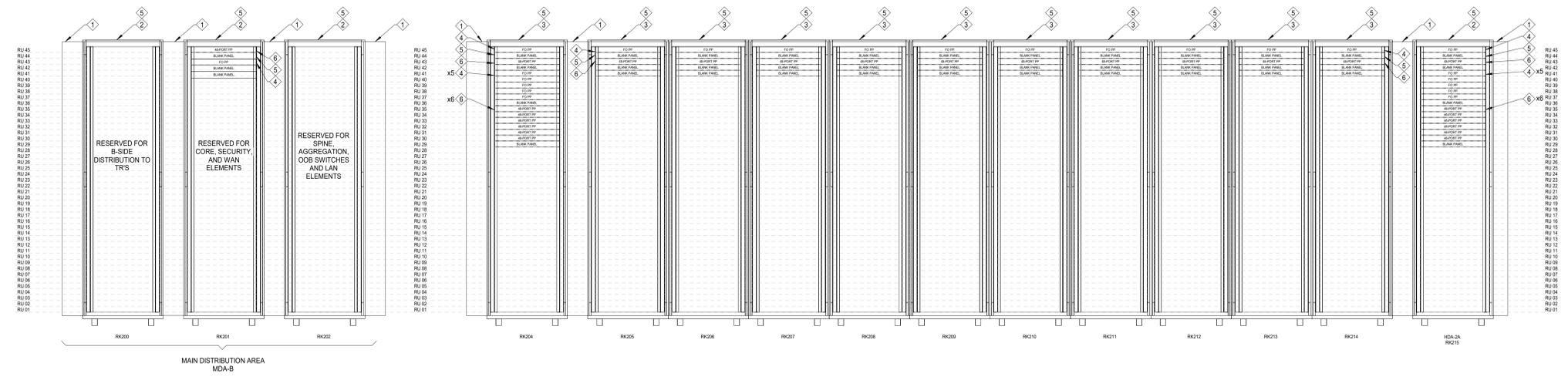
8/12/2025 3:07:29 PM

- TELECOMMUNICATIONS GENERAL NOTES
- DRAWING IS DIAGRAMMATIC IN NATURE AND IS NOT TO BE CONSTRUED AS ALL INCLUSIVE; FIELD VERIFY EXISTING CONDITIONS AND ADJUST WORK AS REQUIRED TO EXECUTE SPECIFIED WORK.
 - EXISTING CONDITIONS INDICATED ARE BASED ON GENERAL FIELD NOTES AND HISTORICAL DATA AND DOCUMENTATION AND ARE FOR REFERENCE PURPOSES ONLY TO DEFINE SCOPE OF WORK; FIELD VERIFY ALL CONDITIONS.
 - THIS SITE IS AN ACTIVE WORKING ENVIRONMENT; SYSTEMS SHALL NOT BE SHUTDOWN WITHOUT WRITTEN AUTHORIZATION; ALL REQUESTS SHALL BE SUBMITTED IN WRITING A MINIMUM OF TEN (10) WORKING-DAYS PRIOR TO PROPOSED ACTIVITY DATE OR NEED UNLESS DIRECTED OTHERWISE.
 - SEE T-001 TELECOMMUNICATIONS COVER SHEET FOR SYMBOLS DEFINITION
 - SYMBOLS GRAYED/HALFTONE: INDICATED FOR REFERENCE AND/OR INDICATING EXISTING UNLESS SPECIFICALLY NOTED OTHERWISE.
 - SYMBOLS DASHED OR SPECIFICALLY KEYPED: INDICATES DEMOLITION WORK.
 - OWNER SHALL HAVE FIRST SALVAGE RIGHTS FOR ANY DEMOLISHED DEVICES OR MATERIAL.

- TELECOMMUNICATIONS ENLARGED KEYNOTES
- 6" CABLE MANAGEMENT SIDECARS TO/FOR NETWORK CABINET.
 - EQUIPMENT DISTRIBUTOR.
 - SERVER CABINET.
 - 1RU PRE-TERMINATED FIBER-TERMINATION ENCLOSURE.
 - REAR OF RACK: RACK MOUNTED BONDING BUSBAR (RBB); BOND TO EACH PIECE OF RACK MOUNTED EQUIPMENT WITH TWO-HOLE COMPRESSION LUGS WITH #6AWG CU BONDING CONDUCTOR; BOND RBB TO THE TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR.
 - 1RU PRE-TERMINATED 48-PORT, CAT-6A HIGH-DENSITY/ANGLED RACK-MOUNTED PATCH PANEL FOR TERMINATION OF DATA CATEGORY-6A CABLES; HIGH-DENSITY W/REAR CABLE MANAGERS AND ANGLED PANEL COVERS; POPULATE WITH CAT-6A JACKS.



2 NEW MCR 3A112 CABINET ELEVATION 2
NTS REF: 1/'*TN403



1 NEW MCR 3A112 CABINET ELEVATION 1
NTS REF: 1/'*TN403

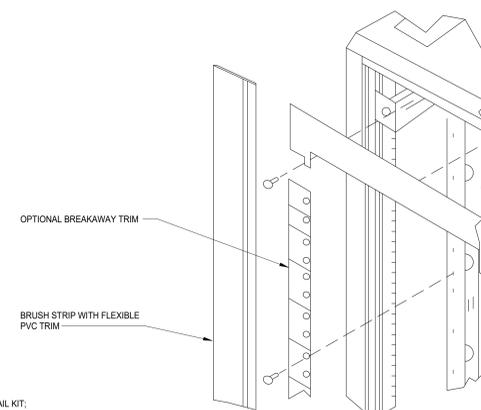
FINAL BID DOCUMENTS FULLY SPRINKLERED

No.	REVISION DESCRIPTION	DATE	CONSULTANTS:			ARCHITECT:	SPUR #. 2409	STAMP:	Drawing Title	Project Title	Project Number	Veterans Health Administration	
			FIRE PROTECTION ENGINEER SPUR DESIGN 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2965	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 959-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169	SPUR	SPUR DESIGN, LLC 312 SW 25TH STREET Oklahoma City, OK 73109 (405) 842-6100	Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER LICENSE # 120660 EXPIRES 12-31-27	CABINET ELEVATIONS - BUILDING 77 - LEVEL 3 - MCR	EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN	621-24-701		
			INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 11140 S. TOWNE SQUARE, #100 ST. LOUIS, MO 63123 (314) 917-0148	PHYSICAL SECURITY FORCE PROTECT 10001 FRONT BEACH RD. #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500		ARCH REG. NO. 71069 MECH REG. NO. 123862 ELEC REG. NO. 130235	EXP. 04/30/2027 EXP. 06/30/2026 EXP. 04/30/2026	VA Health Care System Approval:	Location JAMES H. OUILLEN VAMC LAMONT ST. AND VETERANS WAY MOUNTAIN HOME, TN 37684	Building Number 77	Drawing Number TN405	
										Date 08/14/2025	Checked KGH	Drawn MDT	Drawing # 54 OF 60

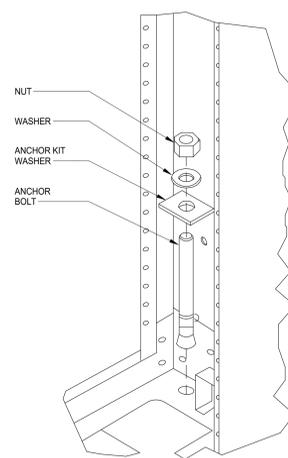
8/12/2025 3:07:32 PM

TELECOMMUNICATIONS GENERAL NOTES

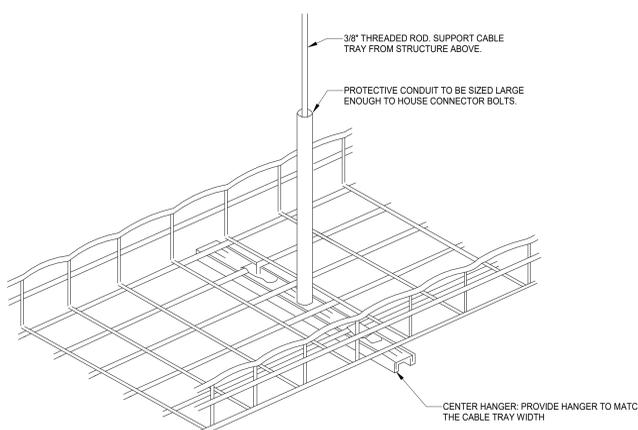
- A. DRAWING IS DIAGRAMMATIC IN NATURE AND IS NOT TO BE CONSTRUED AS ALL INCLUSIVE. FIELD VERIFY EXISTING CONDITIONS AND ADJUST WORK AS REQUIRED TO EXECUTE SPECIFIED WORK.
- B. EXISTING CONDITIONS INDICATED ARE BASED ON GENERAL FIELD NOTES AND HISTORICAL DATA AND DOCUMENTATION AND ARE FOR REFERENCE PURPOSES ONLY TO DEFINE SCOPE OF WORK. FIELD VERIFY ALL CONDITIONS.
- C. THIS SITE IS AN ACTIVE WORKING ENVIRONMENT. SYSTEMS SHALL NOT BE SHUT DOWN WITHOUT WRITTEN AUTHORIZATION. ALL REQUESTS SHALL BE SUBMITTED IN WRITING A MINIMUM OF TEN (10) WORKING-DAYS PRIOR TO PROPOSED ACTIVITY DATE OR NEED UNLESS DIRECTED OTHERWISE.
- D. SEE T-001 TELECOMMUNICATIONS COVER SHEET FOR SYMBOLS DEFINITION:
 - 1. SYMBOLS GRAYED/ HALFTONE: INDICATED FOR REFERENCE AND/OR INDICATING EXISTING UNLESS SPECIFICALLY NOTED OTHERWISE.
 - 2. SYMBOLS DASHED OR SPECIFICALLY KEYED NOTED: INDICATES DEMOLITION WORK.
- E. OWNER SHALL HAVE FIRST SALVAGE RIGHTS FOR ANY DEMOLISHED DEVICES OR MATERIAL.



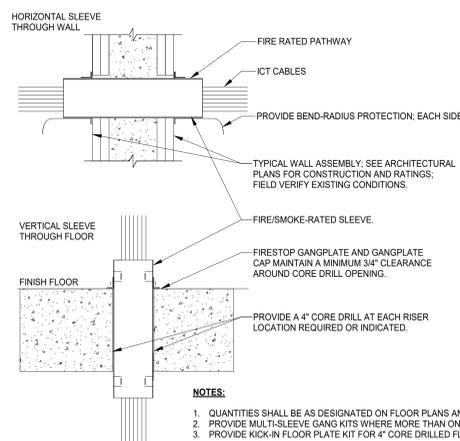
7 FRONT RAIL BRUSH GROMMETS DETAIL
NTS



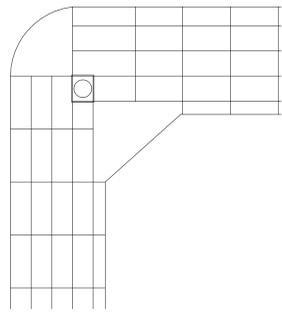
8 SEISMIC ANCHOR DETAIL
NTS



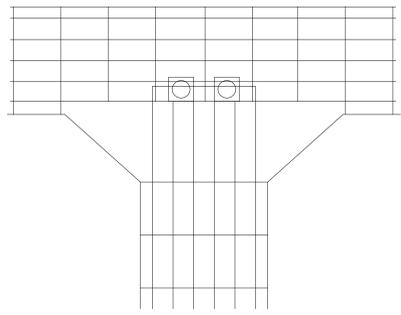
4 CABLE TRAY CENTER HUNG SUPPORT
NTS



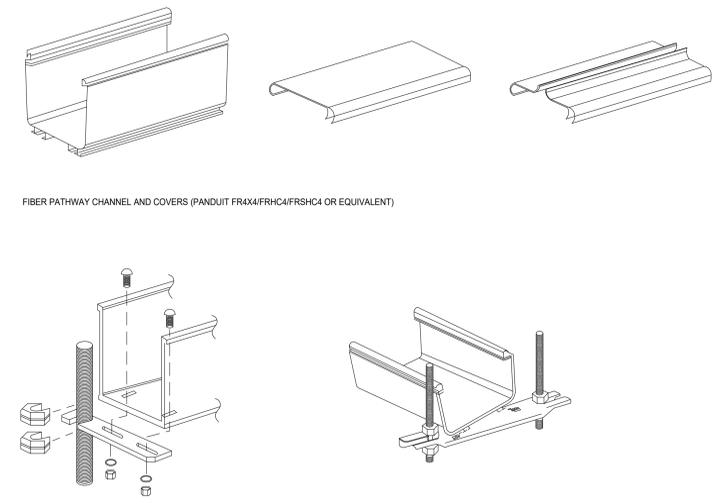
5 FIRE PROOF WALL PENETRATION DETAIL
NTS



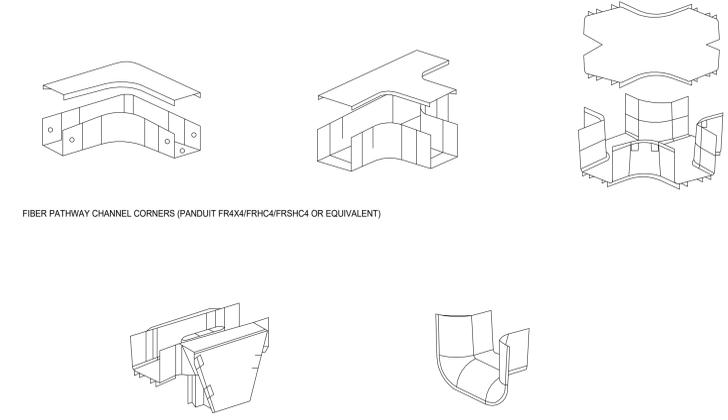
1 CABLE TRAY SMALL BEND DETAIL
NTS



2 CABLE TRAY TEE DETAIL
NTS



6 FIBER PATHWAY CHANNELS DETAILS
NTS



3 VERTICAL CABLE RUNWAY
NTS

- NOTES:
- CABLE TRAY SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.

- NOTES:
- QUANTITIES SHALL BE AS DESIGNATED ON FLOOR PLANS AND ENLARGED PLANS.
 - PROVIDE MULTI-SLEEVE GANG KITS WHERE MORE THAN ONE SLEEVE IS SPECIFIED.
 - PROVIDE KICK-IN FLOOR PLATE KIT FOR 4" CORE DRILLED FLOOR APPLICATIONS. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS/RECOMMENDATIONS.
 - COMPLETE AND APPLY ALL FIRE-RATED LABELING PROVIDED WITH SLEEVES.

- NOTES:
- SEISMIC ANCHOR KIT AND TORQUE CONTROLLED EXPANSION ANCHORS, AK101 OR EQUIVALENT.

FINAL BID DOCUMENTS FULLY SPRINKLERED

No.	REVISION DESCRIPTION	DATE

CONSULTANTS:		
FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2955	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 369-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169
INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 11140 S. TOWNE SQUARE, #100 ST. LOUIS, MO 63123 (314) 917-0148	PHYSICAL SECURITY FORCE PROTECT 10901 FRONT BEACH RD. #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500

ARCHITECT: SPUR # 2409

SPUR DESIGN, LLC
312 SW 25TH STREET
Oklahoma City, OK 73109
(405) 842-6100

ARCH REG. NO. 71069 EXP. 04/30/2027
MECH REG. NO. 123862 EXP. 06/30/2026
ELEC REG. NO. 130235 EXP. 04/30/2026

STAMP:

Bicsi
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
EXPIRES 12-31-27

Drawing Title TELECOMMUNICATIONS DETAILS - BUILDING 77 - LEVEL 3 - MCR	Project Title EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN
VA Health Care System Approval:	Location JAMES H. OUILLEN VAMC LAMONT ST. AND VETERANS WAY MOUNTAIN HOME, TN 37684
Date 08/14/2025	Checked KGH
Drawn MDT	Drawing Number TN501
Drawing # 55 OF 60	

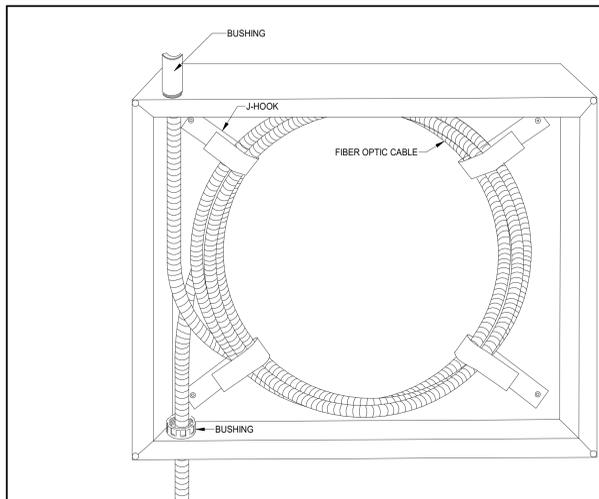
Veterans Health Administration

VA U.S. Department of Veterans Affairs

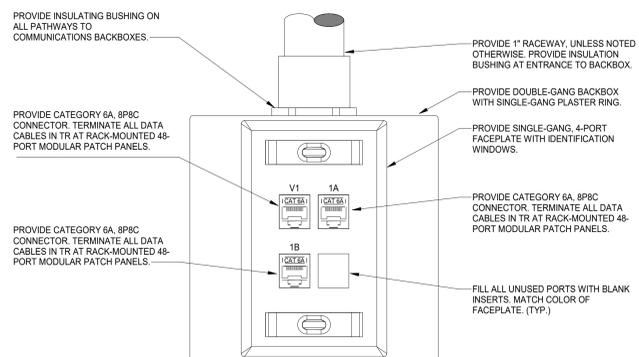
8/12/2025 3:07:33 PM

TELECOMMUNICATIONS GENERAL NOTES

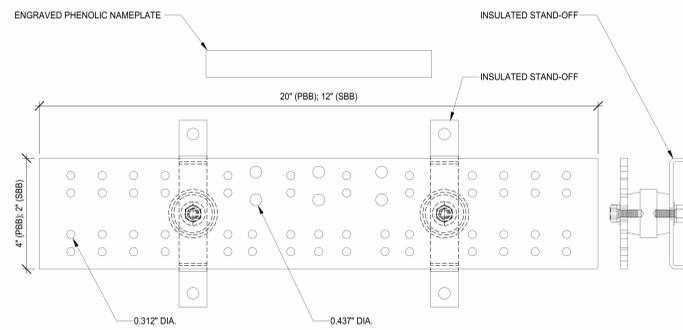
- A. DRAWING IS DIAGRAMMATIC IN NATURE AND IS NOT TO BE CONSTRUED AS ALL INCLUSIVE. FIELD VERIFY EXISTING CONDITIONS AND ADJUST WORK AS REQUIRED TO EXECUTE SPECIFIED WORK.
- B. EXISTING CONDITIONS INDICATED ARE BASED ON GENERAL FIELD NOTES AND HISTORICAL DATA AND DOCUMENTATION AND ARE FOR REFERENCE PURPOSES ONLY TO DEFINE SCOPE OF WORK. FIELD VERIFY ALL CONDITIONS.
- C. THIS SITE IS AN ACTIVE WORKING ENVIRONMENT. SYSTEMS SHALL NOT BE SHUTDOWN WITHOUT WRITTEN AUTHORIZATION. ALL REQUESTS SHALL BE SUBMITTED IN WRITING A MINIMUM OF TEN (10) WORKING-DAYS PRIOR TO PROPOSED ACTIVATION DATE OR NEED UNLESS DIRECTED OTHERWISE.
- D. SEE T-001 TELECOMMUNICATIONS COVER SHEET FOR SYMBOLS DEFINITION:
 - 1. SYMBOLS GRAYED/ HALFTONE: INDICATED FOR REFERENCE AND/OR INDICATING EXISTING UNLESS SPECIFICALLY NOTED OTHERWISE.
 - 2. SYMBOLS DASHED OR SPECIFICALLY KEYED NOTED: INDICATES DEMOLITION WORK.
- E. OWNER SHALL HAVE FIRST SALVAGE RIGHTS FOR ANY DEMOLISHED DEVICES OR MATERIAL.



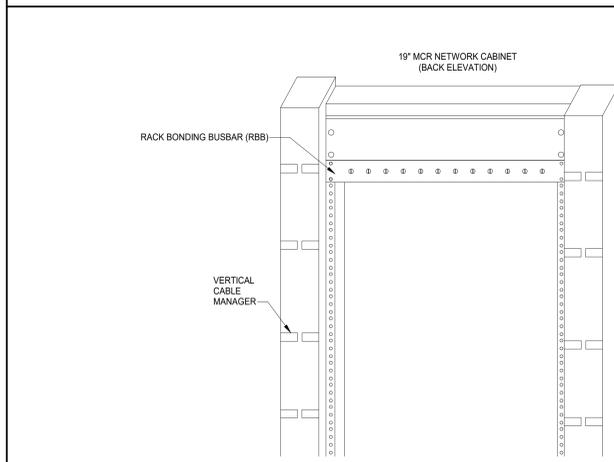
5 FIBER OPTIC SLACK STORAGE BOX
NTS



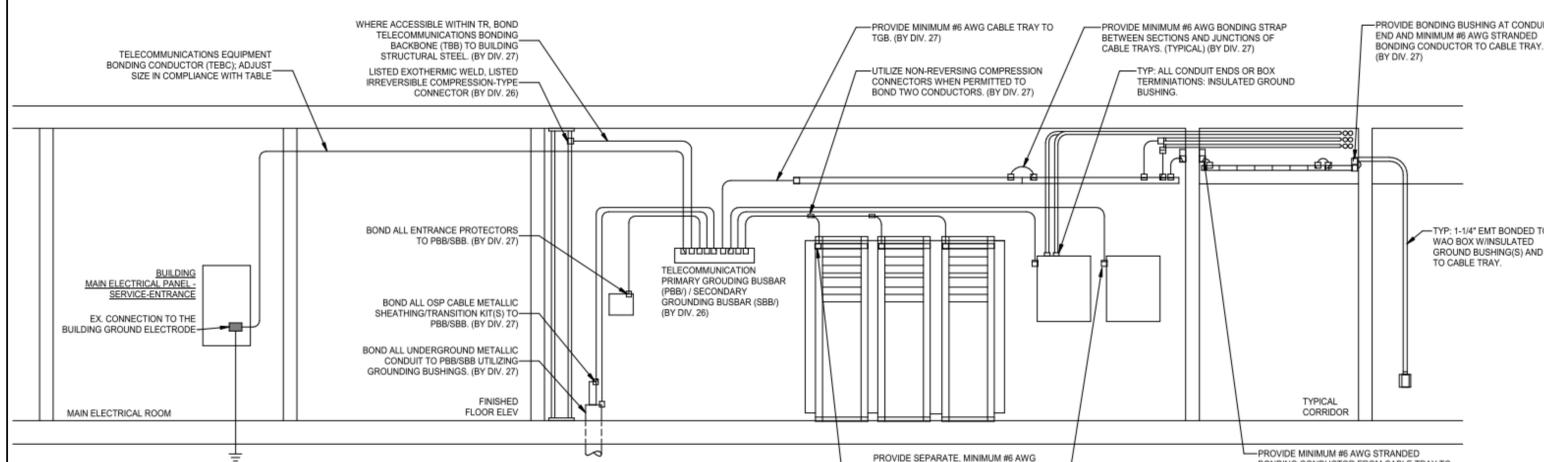
4 DATA OUTLET DETAIL
NTS



3 TELECOMMUNICATIONS MAIN GROUNDING BUSBAR DETAIL
NTS



2 RACK MOUNTED GROUND BAR DETAIL
NTS



1 TELECOMMUNICATIONS BONDING DIAGRAM
NTS

FINAL BID DOCUMENTS FULLY SPRINKLERED

No.	REVISION DESCRIPTION	DATE

CONSULTANTS:		
FIRE PROTECTION ENGINEER RATED ENGINEERING 609 S. KELLY AVENUE, SUITE H2 EDMOND, OK 73003 (405) 856-2955	MEP/TELECOM ENGINEER SPUR DESIGN 2519 MADISON AVE., STE. 100 KANSAS CITY, MO 64108 (913) 399-7200	STRUCTURAL ENGINEER STAND STRUCTURAL ENGINEERING 8234 ROBINSON STREET OVERLAND PARK, KS 66204 (913) 214-2169
INDUSTRIAL HYGIENIST RIVERFRONT SAFETY & HEALTH 11140 S. TOWNE SQUARE, #100 ST. LOUIS, MO 63123 (314) 917-0148	PHYSICAL SECURITY FORCE PROTECT 10001 FRONT BEACH RD, #1415 PANAMA CITY BEACH, FL 32407 (502) 836-4232	COMMISSIONING ES2 13401 N. SANTA FE AVE OKLAHOMA CITY, OK 73114 (405) 528-4500

ARCHITECT: SPUR # 2409

SPUR DESIGN, LLC
312 SW 25TH STREET
Oklahoma City, OK 73109
(405) 842-6100

ARCH REG. NO. 71069 EXP. 04/30/2027
MECH REG. NO. 123862 EXP. 06/30/2026
ELEC REG. NO. 130235 EXP. 04/30/2026

STAMP:

TELECOMMUNICATIONS DISTRI...

Bicsi
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
LICENSE NO. 12345
EXPIRES 12-31-27

Drawing Title: **TELECOMMUNICATIONS DETAILS - BUILDING 77 - LEVEL 3 - MCR**

VA Health Care System Approval:

Project Title EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN	Project Number 621-24-701
Location JAMES H. OUILLEN VAMC LAMONT ST. AND VETERANS WAY MOUNTAIN HOME, TN 37684	Building Number 77
Date 08/14/2025	Drawing Number TN502
Checked KGH	Drawn MDT
Drawing # 56 OF 60	

Veterans Health Administration

VA U.S. Department of Veterans Affairs

8/12/2025 3:07:35 PM

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

Table with 4 columns: CABINETTY, SPOON, CABINETTY, SPOON. Rows include various cabinet and spoon items with their respective quantities and descriptions.

Table with 4 columns: CABINETTY, SPOON, CABINETTY, SPOON. Rows include various cabinet and spoon items with their respective quantities and descriptions.

Table with 4 columns: CABINETTY, SPOON, CABINETTY, SPOON. Rows include various cabinet and spoon items with their respective quantities and descriptions.

Table with 4 columns: CABINETTY, SPOON, CABINETTY, SPOON. Rows include various cabinet and spoon items with their respective quantities and descriptions.

Table with 4 columns: CABINETTY, SPOON, CABINETTY, SPOON. Rows include various cabinet and spoon items with their respective quantities and descriptions.

Table with 4 columns: CABINETTY, SPOON, CABINETTY, SPOON. Rows include various cabinet and spoon items with their respective quantities and descriptions.

Table with 4 columns: CABINETTY, SPOON, CABINETTY, SPOON. Rows include various cabinet and spoon items with their respective quantities and descriptions.

Table with 4 columns: CABINETTY, SPOON, CABINETTY, SPOON. Rows include various cabinet and spoon items with their respective quantities and descriptions.

Table with 4 columns: CABINETTY, SPOON, CABINETTY, SPOON. Rows include various cabinet and spoon items with their respective quantities and descriptions.

Table with 4 columns: CABINETTY, SPOON, CABINETTY, SPOON. Rows include various cabinet and spoon items with their respective quantities and descriptions.

Table with 4 columns: CABINETTY, SPOON, CABINETTY, SPOON. Rows include various cabinet and spoon items with their respective quantities and descriptions.

Table with 4 columns: CABINETTY, SPOON, CABINETTY, SPOON. Rows include various cabinet and spoon items with their respective quantities and descriptions.

Table with 4 columns: CABINETTY, SPOON, CABINETTY, SPOON. Rows include various cabinet and spoon items with their respective quantities and descriptions.

Table with 4 columns: CABINETTY, SPOON, CABINETTY, SPOON. Rows include various cabinet and spoon items with their respective quantities and descriptions.

Table with 4 columns: CABINETTY, SPOON, CABINETTY, SPOON. Rows include various cabinet and spoon items with their respective quantities and descriptions.

Table with 4 columns: CABINETTY, SPOON, CABINETTY, SPOON. Rows include various cabinet and spoon items with their respective quantities and descriptions.

Table with 4 columns: CABINETTY, SPOON, CABINETTY, SPOON. Rows include various cabinet and spoon items with their respective quantities and descriptions.

Table with 4 columns: CABINETTY, SPOON, CABINETTY, SPOON. Rows include various cabinet and spoon items with their respective quantities and descriptions.

Table with 4 columns: CABINETTY, SPOON, CABINETTY, SPOON. Rows include various cabinet and spoon items with their respective quantities and descriptions.

Table with 4 columns: CABINETTY, SPOON, CABINETTY, SPOON. Rows include various cabinet and spoon items with their respective quantities and descriptions.

Table with 4 columns: CABINETTY, SPOON, CABINETTY, SPOON. Rows include various cabinet and spoon items with their respective quantities and descriptions.

Table with 4 columns: CABINETTY, SPOON, CABINETTY, SPOON. Rows include various cabinet and spoon items with their respective quantities and descriptions.

Table with 4 columns: CABINETTY, SPOON, CABINETTY, SPOON. Rows include various cabinet and spoon items with their respective quantities and descriptions.

Table with 4 columns: CABINETTY, SPOON, CABINETTY, SPOON. Rows include various cabinet and spoon items with their respective quantities and descriptions.

Table with 3 columns: No., REVISION DESCRIPTION, DATE. Contains revision history for the drawing.

Table with 3 columns: CONSULTANTS: FIRE PROTECTION ENGINEER, MEPELTECOM ENGINEER, STRUCTURAL ENGINEER. Lists the names and contact information of the project consultants.

ARCHITECT: SPUR #. 2409. Includes the SPUR logo and contact information for SPUR DESIGN, LLC.

STAMP: BICSI COMMUNICATIONS DISTRIBUTION DESIGN. Includes a professional seal and expiration date.

Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 3 DC MOUNTAIN HOME, TN. Includes project details, location, date, and drawing number (TN601).

Veterans Health Administration logo and U.S. Department of Veterans Affairs text.

