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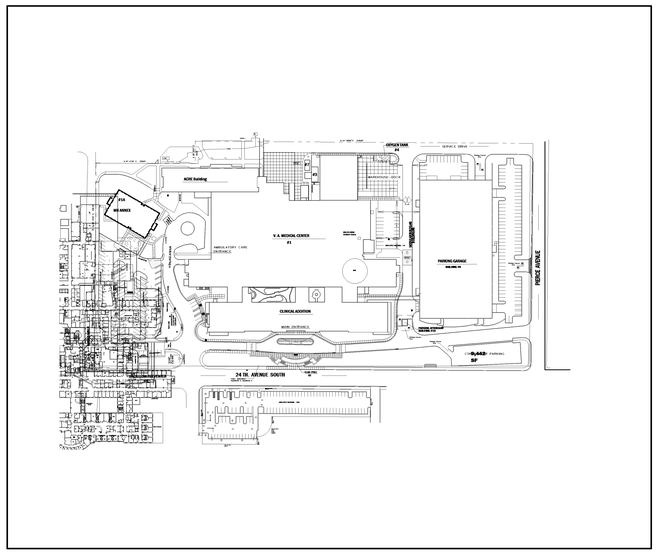
VIDEO SURVEILLANCE SECURITY- NASHVILLE

NASHVILLE VAMC
1310 24TH AVENUE SOUTH
NASHVILLE, TN 37212

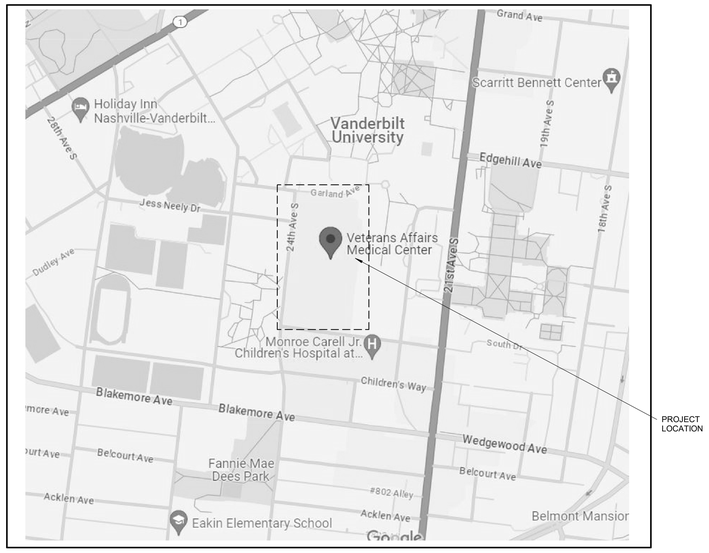
VA PROJECT #: 626-22-103

VOLUME 1 OF 1

PROJECT SITE MAP



PROJECT LOCATION MAP



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PROJECT IMAGE

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BID DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

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JAMES V EZEKIEL
BICSI ID# 290762
EXPIRES 12-31-24
RCDD

NORTH CAROLINA PROFESSIONAL SEAL 36876 ENGINEER GARRETT R. GOSSETT 6/12/2024

PROJECT MANAGER

ACG Project Number 22-215N

APOGEE Engineers | Architects

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ENG. PROJECT COVER

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

VA PROJECT NUMBER: 626-22-103

Building Number: #

Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212

Approved:

Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS

Drawing Number: G-001

Dwg 1 of 3

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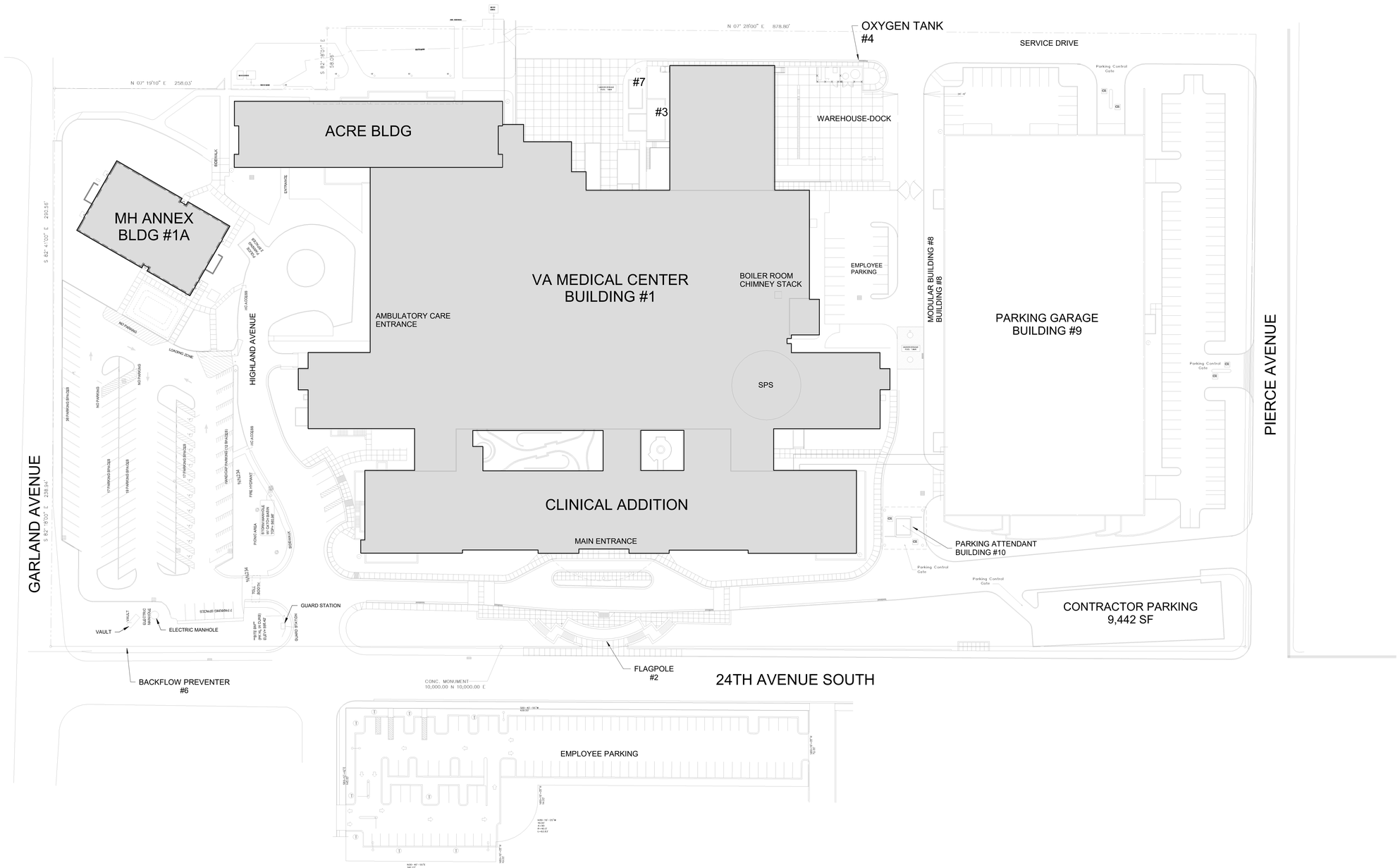

1 **SITE PLAN - NASHVILLE VAMC**
Scale: 1" = 40'-0"

0 20 40 80 NORTH

SHEET NOTES:

A. REFERENCE SHEET TS101 FOR EXTERIOR CAMERA LOCATIONS.

B. ALL EXISTING CONDITIONS ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF SURVEY.

C. NEW CCTV CABLING TO BE RUN ON J-HOOKS 2' OC ABOVE CEILING IN CORRIDORS.

D. ALL CONDUIT SHALL BE 3/4" MINIMUM. EC TO SIZE CONDUIT. PER THE MOST CURRENT EDITION OF THE NEC.

E. WHERE LENGTH FROM CAMERA TO RACK EQUIPMENT EXCEED 295' (90M) CONTRACTOR SHALL USE FIBER OPTIC CABLE.

F. COORDINATE AND CONFIRM ALL ROUTING WITH COR PRIOR TO ROUGH-IN.

LEGEND

AREA OF WORK

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BID DOCUMENTS

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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: SITE PLAN - NASHVILLE VAMC

Location: NASHVILLE VAMC
1310 24TH AVENUE SOUTH
NASHVILLE, TN 37212

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

VA PROJECT NUMBER: 626-22-103

Building Number: # SITE, 1, 1A, ACRE

Approved

Date: JUNE 13, 2024 | Checked: GTS | Drawn: NPM

Drawing Number: G-002
Dwg 2 of 3

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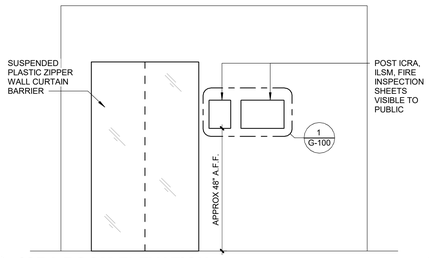
ILSM TEMPORARY BARRIER TAG	
PROJECT:	
PRIME CONTRACTOR:	
SUB CONTRACTOR:	
EMERGENCY CONTACT NO.:	
BARRIER INSTALLATION DATE:	
BARRIER EXPIRATION DATE:	

4 ILSM BARRIER TAG

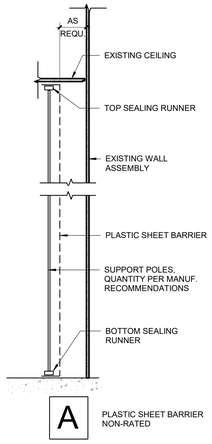
NoScale: No Scale

TAG SHALL BE PLACED ON ALL ILSM TEMPORARY BARRIERS, FINAL LOCATION BY G.C.



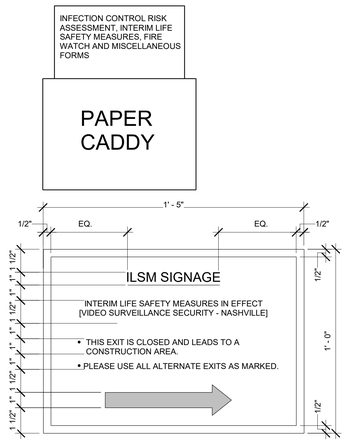
5 ICRA ROOM ELEVATION

Scale: 1/2" = 1'-0"



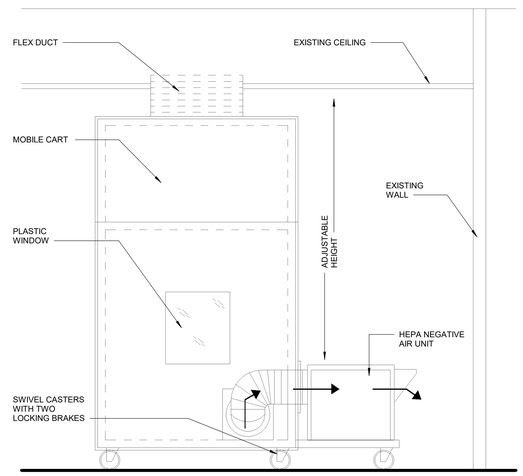
3 ICRA BARRIER WALL TYPE

Scale: 3/4" = 1'-0"



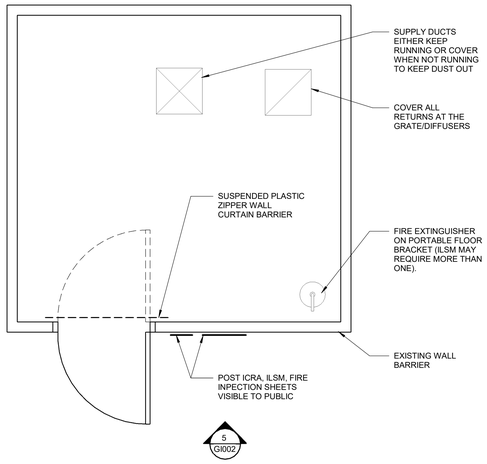
1 ILSM CONSTRUCTION EGRESS SIGNAGE

Scale: 3" = 1'-0"



6 ICRA MOBILE CONTAINMENT CART

Scale: 1/2" = 1'-0"



2 TYPICAL CONSTRUCTION PLAN LAYOUT

Scale: 1/2" = 1'-0"

INFECTION CONTROL RISK MITIGATION RECOMMENDATIONS MATRIX OF PRECAUTIONS FOR CONSTRUCTION AND RENOVATION

Type of Construction / Project Activity Table

TYPE A	**Inspection and Non-Invasive Activities** Includes, but is not limited to: • Removal of ceiling tile for visual inspection-limited to 1 tile per 50 square feet with limited exposure time. • Limited building system maintenance (e.g., pneumatic tube station, HVAC system, fire suppression system, electrical and carpentry work to include painting without sanding) that does not create dust or debris. • Clean plumbing activity limited in nature.
TYPE B	**Small scale, short duration activities which create minimal dust** Includes, but is not limited to: • Work conducted above the ceiling (e.g., prolonged inspection or repair of firewalls and barriers, installation of conduit and/or cabling, and access to mechanical and/or electrical chase spaces). • Fan shutdown/startup. • Installation of electrical devices or new flooring that produces minimal dust and debris. • The removal of drywall where minimal dust and debris is created. • Controlled sanding activities (e.g., wet or dry sanding) that produce minimal dust and debris.
TYPE 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 is not limited to: • Removal of preexisting floor covering, walls, casework or other building components. • New drywall placement. • Renovation work in a single room. • Nonexisting cable pathway or invasive electrical work above ceilings. • The removal of drywall where a moderate amount of dust and debris is created. • Dry sanding where a moderate amount of dust and debris is created. • Work creating significant vibration and/or noise. • Any activity that cannot be completed in a single work shift.
TYPE D	**Major demolition and construction projects** Includes, but is not limited to: • Removal or replacement of building system component(s). • Removal/installation of drywall partitions. • Invasive large-scale new building construction. • Renovation work in two or more rooms.

Patient Risk Group Table

Group 1 Low Risk	Group 2 Medium Risk	Group 3 High Risk	Group 4 Highest Risk
• Office areas (non-clinical) • FES/EMS areas	• Physical Therapy • Radiology departments • All patient waiting rooms • All outpatient clinics • Research Areas • Respiratory Therapy	• Emergency Room • Clinical Laboratories (specimen) • Same Day Surgery • Pharmacy • Nutrition and Food Service/Canteen • Procedural Areas (GI) • Inpatient Mental Health	• Any area caring for immunocompromised patients • Cardiac Cath Lab/IR • Central Sterile Supply • Sterile Processing Service • Intensive Care Units • Medical/Surgical Units • Negative pressure isolation rooms • Outpatient Chemotherapy Areas • Operating rooms • Post Anesthesia Care Unit • Dialysis • Dental

Infection Control Matrix - Class of Precautions: Construction Project by Patient Risk

Patient Risk Group	Construction Project Type: TYPE A	TYPE B	TYPE C	TYPE D
LOW Risk Group 1	I	II	II	III
MEDIUM Risk Group 2	I	II	III	IV
HIGH Risk Group 3	I	III	IV	V
HIGHEST Risk Group 4	III	IV	V	V

Note: Infection Control approval will be required when the Construction Activity and Risk Level indicate that Class III or Class IV control procedures are necessary.

CONSTRUCTION ACTIVITIES SHALL BE CLASSIFIED AS FOLLOWS UNLESS NOTED OTHERWISE:
1. INSTALLATION OF CABLE TRAY IN CORRIDOR CEILINGS SHALL BE CONSIDERED CONSTRUCITON ACTIVITY TYPE B.
2. ALL CONDUIT SPECIFIED TO BE INSTALLED IN WALL SHALL BE CONSIDERED CONSTRUCTION ACTIVITY TYPE C.
3. CONSTRUCTION OF NEW ROOMS SHALL BE CONSIDERED CONSTRUCTION ACTIVITY TYPE D.
4. INSTALLATION OF NEW DOORS TO OR FROM EXISTING SPACES SHALL BE CONSIDERED CONSTRUCTION ACTIVITY TYPE C.

It is the Contractor's Responsibility to provide the following Infection Control Precautions depending upon the Area Class Designation

	During Construction Project	Upon Completion of Project
CLASS I	1. Execute work by methods to minimize raising dust from construction operations. 2. Perform noninvasive work activity as to not block or interrupt patient care. 3. Perform noninvasive work activities in areas that are not directly occupied with patients. 4. Perform noninvasive work activity in a manner that does not create dust. 5. Immediately replace any displaced ceiling tile before leaving the area and/or at end of noninvasive work activity.	Cleaning: 1. Clean work areas including all environmental surfaces, high horizontal surfaces and flooring materials. 2. Check all supply and return air registers for dust accumulation on upper surfaces as well as air diffuser surfaces. HVAC Systems: 1. Remove isolation of HVAC system in areas where work is being performed. Verify that HVAC systems are clean and operational. 2. Verify the HVAC systems meet original airflow and air exchange design specifications.
CLASS II	1. Includes all activities required by Class I 2. Perform only limited dust work and/or activities designed for basic facilities and engineering work. 3. Perform limited dust and invasive work following standing precautions procedures approved by the organization. 4. This Class of Precautions must never be used for construction or renovation activities. 5. Provide active means to prevent airborne dust from dispersing into atmosphere. 6. Water mist work surfaces to control dust while cutting. 7. Seal unused doors with duct tape. 8. Block off and seal air vents. 9. Replace adhesive walk-off mats at entrance and exit of work area. Replace used mats in accordance with manufacturer's recommendations. 10. Remove or isolate HVAC system in area where work is being done to prevent contamination of duct system.	Cleaning: 1. Clean work areas including all environmental surfaces, high horizontal surfaces and flooring materials. 2. Check all supply and return air registers for dust accumulation on upper surfaces as well as air diffuser surfaces. HVAC Systems: 1. Remove isolation of HVAC system in areas where work is being performed. Verify that HVAC systems are clean and operational. 2. Verify the HVAC systems meet original airflow and air exchange design specifications.

INFECTION CONTROL RISK MITIGATION RECOMMENDATIONS MATRIX OF PRECAUTIONS FOR CONSTRUCTION AND RENOVATION

It is the Contractor's Responsibility to provide the following Infection Control Precautions depending upon the Area Class Designation

	During Construction Project	Upon Completion of Project
CLASS III	1. Includes all activities required by Class II 2. Obtain Infection Control Permit from Hospital Safety Officer or Facilities Management Maintenance and Engineering department before construction begins. 3. Provide active means to prevent airborne dust dispersion into the occupied areas. 4. Means for controlling minimal dust dispersion may include hand-held HEPA vacuum devices, polyethylene plastic containment, or isolation of work area by closing room door. 5. Remove or isolate return air diffusers to avoid dust from entering the HVAC system. 6. Remove or isolate the supply air diffusers to avoid positive pressurization of the space. 7. If work area is contained, then it must be neutrally to negatively pressurized at all times. 8. Seal all doors with tape that will not leave residue. 9. Contain all trash and debris in the work area. 10. Nonporous/smooth and cleanable containers (with a hard lid) must be used to transport trash and debris from the construction areas. These containers must be damp-wiped cleaned and free of visible dust/debris before leaving the contained work area. 11. 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. 12. Maintain clean surroundings when area is not contained by damp mopping or HEPA vacuuming surfaces. 13. Clean construction area at the end of each shift by damp mopping or HEPA Vacuum.	For Type C activities, follow procedures for Class IV. Cleaning: 1. Clean work areas including all environmental surfaces, high horizontal surfaces and flooring materials. 2. Check all supply and return air registers for dust accumulation on upper surfaces as well as air diffuser surfaces. HVAC Systems: 1. Remove isolation of HVAC system in areas where work is being performed. Verify that HVAC systems are clean and operational. 2. Verify the HVAC systems meet original airflow and air exchange design specifications.
CLASS IV	1. Includes all activities required by Class III 2. Obtain Infection Control Permit from Hospital Safety Officer or Facilities Management Maintenance and Engineering department before construction begins. 3. 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. 4. All (plastic or hard) barrier construction activities must be completed in a manner that prevents dust release. Plastic barriers must be effectively affixed to ground and ceiling and secure from movement or damage. Apply tape that will not leave a residue to seal gaps between barriers, ceiling or floor. 5. Seal all penetrations in containment barriers, including floors and ceiling, using approved materials (UL schedule firestop if applicable for barrier type). 6. Containment units or environmental containment units (ECUs) approved for Class IV precautions in small areas totally contained by the unit and that has HEPA-filtered exhaust air. 7. Remove or isolate return air diffusers to avoid dust entering the HVAC system. 8. Remove or isolate the supply air diffusers to avoid positive pressurization of the space. 9. Negative airflow pattern must be maintained from the entry point to the anteroom and into the construction area. The airflow must cascade from outside to inside the construction area. The entire construction area must remain negatively pressurized. 10. Maintain negative pressurization of the entire workspace by use of HEPA exhaust air systems directed outdoors. Exhaust discharged directly to the outdoors that is 25 feet or greater from entrances, air intakes and windows does not require HEPA-filtered air. 11. If exhaust is directed indoors, then the system must be HEPA filtered. Prior to start of work, HEPA filtration must be verified by particulate measurement as no less than 99.97% efficiency and must not alter or change airflow/pressure relationships in other areas. 12. Exhaust into shared or recirculating HVAC systems, or other shared exhaust systems (e.g., bathroom exhaust) is not acceptable. 13. Install device (e.g., magnehelic, manometer, or digital monitoring) on exterior of work containment to continually monitor negative pressurization. The "ball in the wall" or similar apparatus are not acceptable. 14. Contain all trash and debris in the work area. 15. Nonporous/smooth and cleanable containers (with a hard lid) must be used to transport trash and debris from the construction areas. These containers must be damp-wiped cleaned and free of visible dust/debris before leaving the contained work area. 16. Worker clothing must be clean and free of visible dust before leaving the work area. HEPA vacuuming of clothing or use of cover suites is acceptable. 17. Workers must wear shoe covers prior to entry into the work area. Shoe covers must be changed prior to exiting the anteroom to the occupied space (non-work area). Damaged shoe covers must be immediately changed. 18. 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. 19. Consider collection of particulate data during work to monitor and ensure that contaminates do not enter the occupied spaces. Routine collection of particulate samples may be used to verify HEPA filtration efficiencies.	Construction areas must be inspected by an infection preventionist or designee and engineering representative for discontinuation or downgrading of ICRA precautions. Work Area Cleaning: 1. Clean work areas including all environmental surfaces, high horizontal surfaces and flooring materials. 2. Check all supply and return air registers for dust accumulation on upper surfaces as well as air diffuser surfaces. Removal of Critical Barriers: 1. Critical barriers must remain in place during all work involving drywall removal, creation of dust and activities beyond simple touch-up work. The barrier may NOT be removed until a work area cleaning has been performed. 2. All (plastic or hard) barrier removal activities must be completed in a manner that prevents dust release. Use the following precautions when removing hard barriers: 1. Carefully remove screws and painter tape. 2. If dust will be generated during screw removal, use hand-held HEPA vacuum. 3. Drywall cutting is prohibited during removal process. 4. Clean all stud tracks with HEPA vacuum before removing outer hard barrier. 5. Use a plastic barrier to enclose area if dust could be generated. Negative Air Requirements: 1. The use of negative air must be designed to remove contaminates from the work area. 2. Negative air devices must remain operational at all times and in place for a period after completion of dust creating activities to remove contaminants from the work area and before removal of critical barriers. HVAC systems: 1. Upon removal of critical barriers, remove isolation of HVAC system in areas where work is being performed. 2. Verify that HVAC systems are clean and operational. 3. Verify the HVAC systems meets original airflow and air exchange design specifications.
CLASS V	1. Includes all activities required by Class IV 2. Obtain Infection Control Permit from Hospital Safety Officer or Facilities Management Maintenance and Engineering department before construction begins. 3. 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. 4. All (plastic or hard) barrier construction activities must be completed in a manner that prevents dust release. Plastic barriers must be effectively affixed to ground and ceiling and secure from movement or damage. Apply tape that will not leave a residue to seal gaps between barriers, ceiling or floor. 5. Seal all penetrations in containment barriers, anteroom barriers, including floors and ceiling using approved materials (UL schedule firestop if applicable for barrier type). 6. Construct anteroom large enough for equipment staging, cart cleaning, workers. The anteroom must be constructed adjacent to entrance of construction work area. 7. Personnel will be required to wear coveralls at all times during Class V work activities. Coveralls must be removed before leaving the anteroom. 8. Remove or isolate return air diffusers to avoid dust entering the HVAC system. 9. Remove or isolate the supply air diffusers to avoid positive pressurization of the space. 10. Negative airflow pattern must be maintained from the entry point to the anteroom and into the construction area. The airflow must cascade from outside to inside the construction area. The entire construction area must remain negatively pressurized. 11. Maintain negative pressurization of the entire workspace using HEPA exhaust air systems directed outdoors. Exhaust discharged directly to the outdoors that is 25 feet or greater from entrances, air intakes and windows does not require HEPA-filtered air. 12. If exhaust is directed indoors, then the system must be HEPA filtered. Prior to start of work, HEPA filtration must be verified by particulate measurement as no less than 99.97% efficiency and must not alter or change airflow/pressure relationships in other areas. 13. Exhaust into shared or recirculating HVAC systems, or other shared exhaust systems (bathroom exhaust) is not acceptable. 14. Install device (e.g., magnehelic, manometer, or digital monitoring) on exterior of work containment to continually monitor negative pressurization. The "ball in the wall" or similar apparatus are not acceptable. 15. Contain all trash and debris in the work area. 16. Nonporous/smooth and cleanable containers (with a hard lid) must be used to transport trash and debris from the construction areas. These containers must be damp-wiped cleaned and free of visible dust/debris before leaving the contained work area. 17. Worker clothing must be clean and free of visible dust before leaving the work area anteroom. 18. Workers must wear shoe covers prior to entry into the work area. Shoe covers must be changed prior to exiting the anteroom to the occupied space (non-work area). Damaged shoe covers must be immediately changed. 19. 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. 20. Consider collection of particulate data during work to monitor and ensure that contaminates do not enter the occupied spaces. Routine collection of particulate samples may be used to verify HEPA filtration efficiencies.	Construction areas must be inspected by an infection preventionist or designee and engineering representative for discontinuation or downgrading of ICRA precautions. Work Area Cleaning: 1. Clean work areas including all environmental surfaces, high horizontal surfaces and flooring materials. 2. 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Negative air devices must remain operational at all times and in place for a period after completion of dust creating activities to remove contaminants from the work area and before removal of critical barriers. HVAC systems: 1. Upon removal of critical barriers, remove isolation of HVAC system in areas where work is being performed. 2. Verify that HVAC systems are clean and operational. 3. Verify the HVAC systems meets original airflow and air exchange design specifications.

SHEET NOTES:

A. TAPE ALL SERVICES TO PROTECT AGAINST CONTAMINATION

B. THE CONTRACTOR SHALL NOT HAUL DEBRIS THROUGH PATIENT-CARE AREAS WITHOUT PRIOR APPROVAL OF THE COR AND THE MEDICAL CENTER

C. USING A HEPA VACUUM, CLEAN INSIDE THE BARRIER AND VACUUM CEILING TILE PRIOR TO REPLACEMENT. ANY CEILING ACCESS PANELS OPENED FOR INVESTIGATION BEYOND SEALED AREAS SHALL BE SEALED IMMEDIATELY WHEN UNATTENDED.

D. AT COMPLETION, REMOVE CONSTRUCTION BARRIERS AND CEILING PROTECTION CAREFULLY, OUTSIDE OF NORMAL WORK HOURS. VACUUM AND CLEAN ALL SURFACES FREE OF DUST AFTER THE REMOVAL.

E. CONTRACTOR TO VERIFY AND COORDINATE FINAL AND APPROVED ICRA MEASURES WITH THE NASHVILLE VA MEDICAL CENTER'S ICRA PERSONNEL PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITY.

FULLY SPRINKLERED

BID DOCUMENTS

#	Revisions:	Date

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6/12/2024

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ACG Project Number 22-215N

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ICRA INFORMATION AND DETAILS & NOTES

Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

Approved

Date: JUNE 13, 2024 | Checked: GTS | Drawn: NPM

VA PROJECT NUMBER: 626-22-103

Building Number: #

Drawing Number: G-100

Dwg 3 of 3

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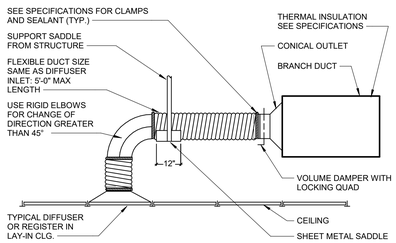
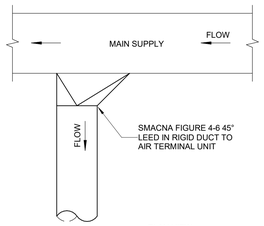


NOTE:
THE USE OF FLEXIBLE AIR DUCT CONNECTORS ARE NOT PERMITTED FOR THE DEDICATED AHU SERVING THE SURGICAL SUITE

1 FLEX AIR DUCT CONNECTOR DETAIL

Scale: No Scale



PLAN VIEW

2 SUPPLY DUCT TAKEOFF - AIR TERMINAL UNITS

Scale: N.T.S.

MECHANICAL ABBREVIATIONS

A/E	ARCHITECT / ENGINEER
AAHX	AIR TO AIR HEAT EXCHANGER
AB	AIR BLENDER
AAV	AUTOMATIC AIR VENT
ACC	AIR-COOLED CONDENSER
ACCH	AIR-COOLED CHILLER
ACCU	AIR-COOLED CONDENSING UNIT
ACU	AIR CONDITIONING UNIT
ACD	AUTOMATIC CONTROL DAMPER, MODULATING
ACD-TP	AUTOMATIC CONTROL DAMPER,TWO POSITION
AD	ACCESS DOOR
AF	AFTER FILTER
AFCV	AIR FLOW CONTROL VALVE
AFF	ABOVE FINISHED FLOOR
AFMD	AIR FLOW MEASURING DEVICE
AFW	AIR FOIL WHEEL (FAN)
AHU	AIR-HANDLING UNIT
AMP	AMPERAGE
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARI	AIR CONDITIONING AND REFRIGERATION INSTITUTE
AS	AIR SEPARATOR
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AW	AIR WASHER
AXF	AXIAL FLOW
B	BOILER
BD	BUTTERFLY DAMPER
BDD	BACKDRAFT DAMPER
BDR	BASE BOARD RADIATOR
BFP	BACKFLOW PREVENTER
BFT	BOILER PLANT FIRE TUBE
BHP	BRAKE HORSEPOWER
BHW	HOT WATER HEATING BOILER
BHX	BOILER BLOWDOWN HEAT EXCHANGER
BIW	BACKWARD INCLINED WHEEL (FAN)
BSC	BIOLOGICAL SAFETY CABINETS
BT	BUFFER TANK
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
C	CENTIGRADE (CELSIUS)
CC	COOLING COIL
CCD	COOLING COIL CONDENSATE DRAIN
CENT	CENTRIFUGAL
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CFT	CUBIC FEET
CFP	CHEMICAL FEED PUMP
CH	CHILLER
CHWP	CHILLED WATER PUMP
CHW	CHILLER WATER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CM	CARBON MONOXIDE
CM	CUBIC METER
CM/S	CUBIC METER PER SECOND
CO	CLEAN OUT
CO2	CARBON DIOXIDE
COMP	COMPRESSOR UNIT
COP	COEFFICIENT OF PERFORMANCE
CP	CONDENSATE PUMP
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME
CW	COLD WATER (POTABLE)
CHWCC	CHILLED WATER COOLING COIL
D	DAMPER - AUTOMATIC
D-1	OUTDOOR AIR DAMPER
D-2	RETURN AIR DAMPER
D-3	RELIEF AIR DAMPER
D-4	ECONOMIZER OUTDOOR AIR DAMPER
dB	DECIBELS
Db	DRY-BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE
DF	DIFFUSER
DIA	DIAMETER
DIW	DEIONIZED WATER
DP	DEW POINT TEMPERATURE
DP	DIFFUSER PLATE
DPA	DIFFERENTIAL PRESSURE ASSEMBLY
DPS	DIFFERENTIAL PRESSURE SENSOR
DX	DIRECT EXPANSION
DXCC	DIRECT EXPANSION COOLING COIL
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ECC	ENGINEERING CONTROL CENTER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EGS	EMERGENCY GAS SHUTOFF
EH	EXHAUST HOOD
EJ	EXPANSION JOINT
EMD	END OF MAIN DRIP (STEAM)
ENT	ENTERING
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
F	FAHRENHEIT
F&T	FLOAT AND THERMOSTATIC
F/SDPR	COMBINATION FIRE SMOKE DAMPER
FA	FREE AREA
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT (4 PIPE)
FCW	FORWARD CURVED WHEEL (FAN)
FD	FLOOR DRAIN
FD	FIRE DAMPER
FF	FINAL FILTER
FM	FLOW METER
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FRP	FIBER REINFORCED POLYESTER
FS	FLOW SWITCH
FSTAT	FREEZESTAT
FT	FEET
FT-LB	FOOT-POUND
FTR	FIN TUBE RADIATION
FV	FACE VELOCITY
GA	GAUGE
GAL	GALLONS
GH	GRAVITY HOOD
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GS	GALVANIZED STEEL
H	HUMIDIFIER
H&CW	HOT & COLD WATER
HAC	HOUSEKEEPING AID CLOSET
HB	HOSE BIBB
HC	HEATING COIL
HD	HEAD
HD	HOOD
HHW	HEATING HOT WATER
HHWC	HEATING HOT WATER COIL
HHWP	HEATING HOT WATER PUMP
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HOA	HAND/OFF/AUTOMATIC
HP	HEAT PUMP
HP	HORSEPOWER
HPDT	HIGH PRESSURE DRIP TRAP
HPR	HIGH PRESSURE RETURN (STEAM CONDENSATE)
HPS	HIGH PRESSURE SUPPLY (STEAM)
HRC	HEAT RECOVERY COIL
HRD	HEAT RECOVERY DEVICE
HRP	HYDRONIC RADIANT (CEILING) PANEL
HRW	HEAT RECOVERY WHEEL
HSTAT	HUMIDISTAT
HUM	HUMIDIFIER UNIT MOUNTED
HVU	HEATING AND VENTILATING UNIT
HW	HOT WATER
HWC	HOT WATER COIL
HWUH	HOT WATER UNIT HEATER
HX	HEAT EXCHANGER
Hz	HERTZ
I/O	INPUT/OUTPUT
IAQ	INDOOR AIR QUALITY
IBT	INVERTED BUCKET TRAP
ICF	IN-LINE CENTRIFUGAL FAN
ICU	INTENSIVE CARE UNIT
ID	INSIDE DIAMETER
IFB	INTEGRAL FACE AND BYPASS
IN	INCHES
IN HG	INCHES OF MERCURY
IN WC	INCH WATER COLUMN
IN WG	INCH WATER GAUGE
IN-LB	INCH-POUND
IPLV	INTEGRATED PART LOAD VALUE
IRH	INFRARED HEATER
IS	INSECT SCREEN
IV	INLET VANES
kg	KILOGRAM
kg/HR	KILOGRAM PER HOUR
kPa	KILOPASCAL
kW	KILOWATT
kWh	KILOWATT HOUR
L	LITER
L/s	LITERS PER SECOND
LAT	LEAVING AIR TEMPERATURE
LBS/HR	POUNDS PER HOUR
LF	LINEAR FOOT (FEET)
LH	LATENT HEAT
LPR	LOW PRESSURE RETURN (STEAM CONDENSATE)
LPS	LOW PRESSURE SUPPLY (STEAM)
LSD	LINEAR SLOT DIFFUSER
LTCP	LOCAL TEMPERATURE CONTROL PANEL
LVG	LEAVING
LVR	LOUVER
LWT	LEAVING WATER TEMPERATURE
M	METER, SI UNIT
M/s	METERS PER SECOND (OR METERS/SECOND)
MA	MIXED AIR
MAT	MIXED AIR TEMPERATURE
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MB	MIXING BOX
MBH	1000 BTUH
MCA	MINIMUM BRANCH CIRCUIT AMPACITY
MER	MECHANICAL EQUIPMENT ROOM
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MHP	MOTOR HORSEPOWER
MIN	MINIMUM
MM	MILLIMETER
MOV	MOTOR OPERATED VALVE
MPR	MEDIUM PRESSURE RETURN (STEAM CONDENSATE)
MPS	MEDIUM PRESSURE SUPPLY (STEAM)
MTD	MEAN TEMPERATURE DIFFERENCE
MVD	MANUAL VOLUME DAMPER
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NOAA	NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION
NOM	NOMINAL
NPLV	NON-STANDARD PART LOAD VALUE
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OD	OUTSIDE DIAMETER
OR	OPERATING ROOM
OSA	OUTSIDE SUPPLY AIR (CONDITIONED)
P	PUMP
PC	PUMPED CONDENSATE
PCF	POUNDS PER CUBIC FOOT (FEET)
PD	PRESSURE DROP
PF	PRE-FILTER
PG	PRESSURE GAGE
PHC	PREHEAT COIL
PHCP	PREHEAT COIL PUMP
PPM	PARTS PER MILLION
PRV	PRESSURE REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH – ABSOLUTE
PSIG	POUNDS PER SQUARE INCH – GAGE
PSS	PRIMARY SECONDARY SYSTEM
PSV	PRESSURE SAFETY VALVE
R/E	RETURN OR EXHAUST
RA	RETURN AIR
RAT	RETURN AIR TEMPERATURE
RDS	ROOM DATA SHEETS
REA	RELIEF AIR
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RL	REFRIGERANT LIQUID LINE
RLA	RUN LOAD AMPERE
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RTU	ROOF TOP UNIT
RV	RELIEF VALVE
SA	SUPPLY AIR
SAD	SOUND ATTENUATING DEVICE
SAT	SUPPLY AIR TEMPERATURE
SC	SHADING COEFFICIENT
SCFM	STANDARD CUBIC FEET PER MINUTE
SCR	SILICON CONTROLLED RECTIFIER
SD	SMOKE DETECTOR
SD	SUPPLY AIR DIFFUSER
SDPR	SMOKE DAMPER
SDR	SMOKE DAMPER (RETURN)
SDS	SMOKE DAMPER (SUPPLY)
SEN	SENSIBLE HEAT
SF	SUPPLY FAN
SH	STEAM HUMIDIFIER
SHC	STEAM HEATING COIL
SI	SQUARE INCHES
SP	STATIC PRESSURE
SP GR	SPECIFIC GRAVITY
SPD	SUPPLY PROCESS AND DISTRIBUTION
SPRV	STEAM PRESSURE REDUCING VALVE
SPS	STATIC PRESSURE SENSOR
SQ FT	SQUARE FOOT (FEET)
SR	SUPPLY AIR REGISTER
SS	STAINLESS STEEL
SSR	SOLID SEPARATOR
ST	STEAM TRAP
SV	STEAM SAFETY VALVE
SVS	STEAM VENT SILENCER
T & PCV	TEMPERATURE AND PRESSURE CONTROL VALVE
TAB	TESTING, ADJUSTING, BALANCE
TD	TEMPERATURE DIFFERENCE
TDH	TOTAL DYNAMIC HEAD
TDS	TOTAL DISSOLVED SOLIDS
TP	TRAP
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TU	TERMINAL UNIT
UC	UNDER CUT
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
V	VALVE
VAF	VANE-AXIAL FAN
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER (MANUAL OPPOSED BLADE)
VFD	VARIABLE FREQUENCY DRIVE
VHA	VETERANS HEALTH ADMINISTRATION
VI	VIBRATION ISOLATOR
VP	VACUUM PUMP
VPS	VARIABLE PRIMARY SYSTEM
VR	VACUUM (STEAM CONDENSATE) RETURN
VSD	VARIABLE SPEED DRIVE
VUH	VERTICAL UNIT HEATER
W	WATTS
Wb	WET-BULB (TEMPERATURE)
WFCV	WATER FLOW CONTROL VALVE
WFM	WATER FLOWMETER
WFMD	WATER FLOW MEASURING DEVICE
WG	WATER GAGE
WPD	WATER SIDE PRESSURE DROP
XT	EXPANSION TANK
YR	YEAR

MECHANICAL DEMOLITION GENERAL NOTES

1. VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING WORK. NOTIFY COR REGARDING CONFLICTS BEFORE PROCEEDING WITH WORK.
2. REMOVED ITEMS REMAIN PROPERTY OF GOVERNMENT UNTIL COR DETERMINES THAT THEY ARE NOT REQUIRED. REMOVE FROM SITE ITEMS NOT BEING RETAINED BY GOVERNMENT OR REINSTALLED AS PART OF THIS WORK.
3. DO NOT DISTURB ITEMS NOT INDICATED FOR DEMOLITION.
4. VERIFY SIZE AND LOCATION OF EXISTING UTILITIES PRIOR TO START OF DEMOLITION. RELOCATE, REMOVE AND ADJUST MECHANICAL AND ELECTRICAL ITEMS AS NECESSARY TO COORDINATE WITH NEW WORK.
5. AFTER DEMOLITION IS COMPLETE, PATCH AND REPAIR FINISHES TO MATCH EXISTING ADJACENT CONDITIONS.
6. COORDINATE DEMOLITION WITH COR. SUBMIT SHUTDOWN PLAN AND SCHEDULE TO COR FOR REVIEW AND APPROVAL.
7. PROTECT EXISTING UTILITIES TO REMAIN FROM DAMAGE DURING DEMOLITION. REPAIR UTILITIES AND SERVICES DAMAGED AT NO ADDITIONAL COST.
8. TEMPORARILY MOVE OR TAKE EQUIPMENT OUT OF SERVICE AS NECESSARY TO COMPLETE WORK.

MECHANICAL GENERAL NOTES

1. WORK SHALL CONFORM TO APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND APPLICABLE VA STANDARDS.
2. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.
3. PROVIDE NEW MATERIALS, EQUIPMENT AND PRODUCTS INCORPORATED IN THE WORK, OF A SUITABLE GRADE FOR THE PURPOSES INTENDED.
4. WHERE POSSIBLE, PROVIDE STANDARD PRODUCTS OF THE VARIOUS MANUFACTURERS EXCEPT WHERE SPECIAL CONSTRUCTION OR PERFORMANCE FEATURES ARE REQUIRED.
5. EQUIPMENT OR MATERIAL DEVIATIONS FROM INDICATED CONTRACT REQUIREMENTS SHALL BE SUBJECT TO THE APPROVAL OF THE COR. SUBMIT PROPOSED EQUIPMENT DEVIATIONS THAT ARE SIMILAR BOTH IN QUALITY AND CAPACITY TO THAT EQUIPMENT SPECIFIED, AS SOLELY DETERMINED BY THE COR.
6. PROVIDE MECHANICAL EQUIPMENT THAT IS LISTED AND LABELED BY UNDERWRITERS LABORATORIES (U.L.).
7. INSTALL EQUIPMENT AS INDICATED, ALLOWING FOR SUFFICIENT ACCESS AND CLEARANCE SPACE FOR EQUIPMENT MAINTENANCE, REPAIRS, AND REPLACEMENT.
8. INSTALL EQUIPMENT WITH PROPER CLEARANCES FOR REQUIRED PIPING AND ELECTRICAL SERVICES AND CONNECTIONS. INSTALL EQUIPMENT WITH REQUIRED ACCESS AND CLEARANCES IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS AND APPLICABLE CODES AND STANDARDS.
9. COORDINATE LOCATION, INSTALLATION, AND ROUTING OF DUCTWORK, PIPING, AND EQUIPMENT WITH WORK OF ALL OTHER TRADES.
10. PROVIDE SUPPORT FOR MECHANICAL EQUIPMENT. COORDINATE SUPPORT LOCATIONS WITH ALL CONTRACTORS PRIOR TO INSTALLATION.
11. PROVIDE POWER CONNECTIONS TO EQUIPMENT PROVIDED UNDER THIS CONTRACT AS WORK OF DIVISION 26.
12. PROVIDE CONTROL WIRING FOR MECHANICAL EQUIPMENT AS WORK OF DIVISION 23.
13. DUCTWORK AND PIPING LAYOUTS AND LOCATIONS ARE SCHEMATIC. DO NOT SCALE THESE DRAWINGS. COORDINATE AND DETERMINE EXACT ROUTING OF DUCTWORK AND PIPING IN THE FIELD.
14. FIELD VERIFY DIMENSIONS BY ACTUAL MEASUREMENT AND OBSERVATION BEFORE ORDERING OR FABRICATING DUCTWORK, PIPING OR EQUIPMENT.
15. NOTIFY COR REGARDING DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND EXISTING CONDITIONS OR DIMENSIONS BEFORE PERFORMING WORK. FAILURE TO VERIFY AND REPORT SHALL CONSTITUTE CONTRACTOR'S ACCEPTANCE OF EXISTING CONDITIONS AS FIT FOR THE PROPER EXECUTION OF THE WORK.
16. SEE ARCHITECTURAL DRAWINGS FOR FINAL LOCATION OF CEILING INSTALLED EQUIPMENT.
17. INSTALL DUCTWORK AND PIPING AS HIGH AS POSSIBLE AND AS CLOSE AS POSSIBLE TO BUILDING WALLS, CEILING AND FLOOR AND ROOF STRUCTURE. PROVIDE OFFSETS, FITTINGS, AND DIMENSIONAL TRANSITIONS NOT SHOWN BUT REQUIRED TO MAINTAIN MINIMUM CLEAR SPACE TO BUILDING SURFACES AT NO ADDITIONAL COST.
18. PATCH, PAINT AND CLEAN SURFACES SUSTAINING DAMAGE ASSOCIATED WITH MECHANICAL WORK OF THIS CONTRACT, UNLESS NOTED OTHERWISE.
19. SUBMIT BOUND SET OF OPERATING AND MAINTENANCE INSTRUCTIONS FOR EQUIPMENT AT COMPLETION OF PROJECT.
20. INSTALL ESCUTCHEONS IN ALL PLACES WHERE PIPING PENETRATES A WALL IN AN EXPOSED LOCATION.
21. MAKE A COMPLETE REVIEW OF DRAWINGS, INCLUDING SCHEDULES AND DETAILS, PRIOR TO BEGINNING MECHANICAL SYSTEM INSTALLATION. RESOLVE CONFLICTS WITH COR.
22. DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF PIPING SYSTEMS.
23. INSTALL PIPING INDICATED TO BE EXPOSED AND PIPING IN EQUIPMENT ROOMS AND SERVICE AREAS AT RIGHT ANGLES OR PARALLEL TO BUILDING WALLS. DIAGONAL RUNS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY INDICATED OTHERWISE.
24. INSTALL PIPING FREE OF SAGS AND BENDS.
25. INSTALL PIPING TO ALLOW APPLICATION OF INSULATION.
26. PIPING SHALL NOT BE ROUTED OVER TELECOM OR ELECTRICAL CLOSETS/ROOMS.
27. INSTALLATION COMMENCED PRIOR TO COORDINATION DRAWING APPROVAL IS TAKEN AT THE CONTRACTORS OWN RISK. MODIFY, MOVE OR RECONFIGURE WORK LACKING COORDINATION AT NO ADDITIONAL COST.

MECHANICAL LEGEND

- CARBON DIOXIDE SENSOR
- THERMOSTAT OR TEMPERATURE SENSOR
- HUMIDISTAT OR HUMIDITY SENSOR
- SUPPLY DIFFUSER
- RETURN GRILLE
- EXHAUST GRILLE
- LINEAR SLOT DIFFUSER
- BALANCING DAMPER
- FIRE DAMPER
- SMOKE DAMPER
- FIRE / SMOKE DAMPER
- MOTORIZED DAMPER
- ROUND FLEX DUCT
- INCLINED RISE, IN DIRECTION OF AIRFLOW
- INCLINED DROP, IN DIRECTION OF AIRFLOW
- CONNECT NEW DUCT TO EXISTING
- LIMIT OF DEMOLITION
- VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)
- VANED ELBOW (SHORT RADIUS)
- STANDARD RADIUS ELBOW (LONG RADIUS)
- NEW DUCT (INSIDE DIMENSIONS: WIDTH X DEPTH)
- EXISTING DUCT TO REMAIN
- EXISTING DUCT TO BE DEMOLISHED
- DUCT TRANSITION
- END MOUNTED OR SIDEWALL GRILLE
- TERMINAL UNIT SUPPLY DUCT BRANCH (CONICAL TAP)
- STANDARD BRANCH SUPPLY OR RETURN, NO SPLITTER (45° TAP)
- SUPPLY DUCT (UP & DOWN)
- EXHAUST DUCT (UP & DOWN)
- RETURN DUCT (UP & DOWN)
- HIGH PRESSURE STEAM PIPING (60 PSI)
- HIGH PRESSURE STEAM CONDENSATE RETURN
- MEDIUM PRESSURE STEAM PIPING (16 PSI AND 59 PSI)
- MEDIUM PRESSURE STEAM CONDENSATE RETURN
- LOW PRESSURE STEAM PIPING (15 PSI AND BELOW)
- LOW PRESSURE STEAM CONDENSATE RETURN
- CHILLED WATER SUPPLY PIPING
- CHILLED WATER RETURN PIPING
- HEATING HOT WATER SUPPLY PIPING
- HEATING HOT WATER RETURN PIPING
- REFRIGERANT LINE SET (LIQUID AND SUCTION)
- CONDENSATE DRAIN LINE
- PIPE UP
- PIPE DOWN
- BOTTOM CONNECTION
- TOP CONNECTION
- CAPPED OR PLUGGED PIPE
- CONNECT TO EXISTING PIPE
- LIMIT OF DEMOLITION
- GLOBE VALVE
- GATE VALVE
- BALL VALVE
- CHECK VALVE
- STEAM SAFETY VALVE
- PRESSURE REGULATING VALVE
- WYE STRAINER VALVE
- BALANCING VALVE
- MODULATING TWO-WAY CONTROL VALVE
- MODULATING THREE-WAY CONTROL VALVE
- TWO POSITION CONTROL VALVE
- STEAM TRAP
- DRAIN VALVE
- TEST PLUG
- STEAM PRESSURE REDUCING VALVE
- INLINE CENTRIFUGAL PUMP

WALL RATING LEGEND

- 2 HOUR FIRE SEPARATION
- 1 HOUR FIRE SEPARATION
- SMOKE RATED

ANNOTATION SYMBOLS

#	NEW WORK KEYNOTE
#	DEMOLITION KEYNOTE
NEW	BOLD TEXT INDICATES NEW ITEM
EXISTING	ITALICIZED TEXT INDICATES EXISTING ITEM
## / #	DETAIL MODULE NUMBER; DETAIL OR SECTION MARK; SHOWN ON DRAWING
	CONNECT TO EXISTING
	LIMIT OF DEMOLITION
SD-## ###	DIFFUSER TAG
##-VAV-#	EQUIPMENT TAG

FULLY SPRINKLERED

BID DOCUMENTS

#	Revisions:	Date

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SILAS P. GEORGE, REGISTERED ENGINEER, AGRICULTURE, TENNESSEE, No. 120824, STATE OF TENNESSEE, 6/12/2024

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL GENERAL INFORMATION AND DETAILS

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Approved

Date: JUNE 13, 2024 | Checked: SPG | Drawn: KSC

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Dwg 1 of 2

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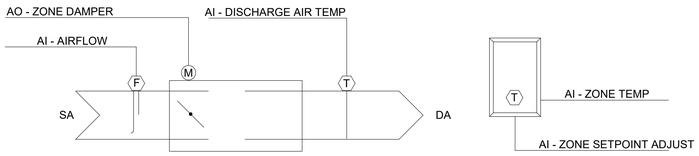


3 VAV TERMINAL SCHEMATIC

Scale: No Scale

	HARDWARE POINTS				SOFTWARE POINTS						
POINT NAME:	AI	AO	BI	BO	AV	BV	LOOP	SCHED	TREND	ALARM	SHOW ON GRAPHIC
ZONE TEMPERATURE	X								X		X
ZONE TEMPERATURE SETPOINT	X										X
AIRFLOW	X								X		X
DISCHARGE AIR TEMPERATURE	X								X		X
ZONE DAMPER		X									X
MAXIMUM OCCUPIED AIRFLOW SETPOINT					X				X		X
COOLING SETPOINT									X		X
HIGH ZONE TEMPERATURE										X	
LOW ZONE TEMPERATURE										X	
HIGH DISCHARGE TEMPERATURE										X	
LOW DISCHARGE TEMPERATURE										X	
MINIMUM OCCUPIED AIR FLOW SETPOINT					X				X		X
MINIMUM UNOCCUPIED AIRFLOW SETPOINT					X				X		X
	4	1			3				7	4	9
TOTAL HARDWARE (5)					TOTAL SOFTWARE (14)						

4 VAV TERMINAL UNIT CONTROLS

Scale: No Scale

VAV TERMINAL UNIT

VARIABLE AIR VOLUME - TERMINAL UNIT

RUN CONDITIONS - CONTINUOUS:
THE UNIT SHALL RUN CONTINUOUSLY AND SHALL MAINTAIN:
- A 72°F (ADJ.) COOLING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

ZONE SETPOINT ADJUST:
THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE COOLING SETPOINTS AT THE ZONE SENSOR.

PRESSURE INDEPENDENT VARIABLE VOLUME TERMINAL UNIT - FLOW CONTROL:

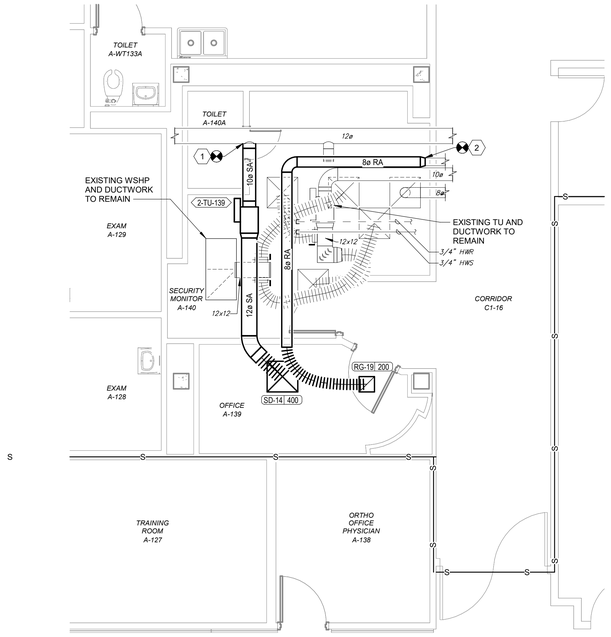
- WHEN ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.

DISCHARGE AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 70°F (ADJ.).
- LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 50°F (ADJ.).

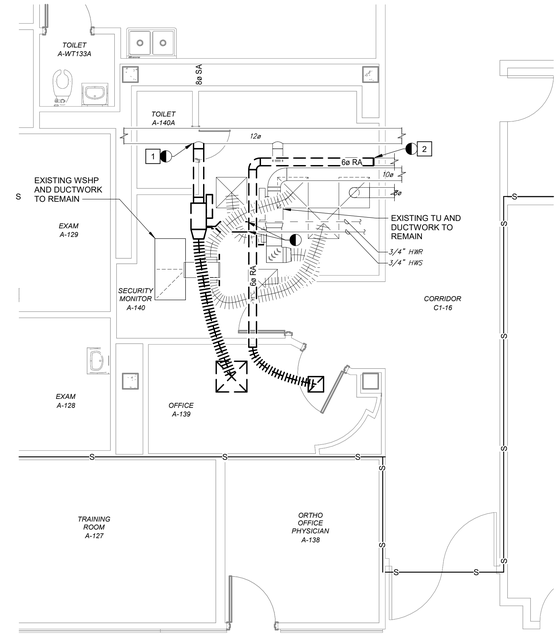
5 VAV TERMINAL SEQUENCE OF OPERATION

Scale: No Scale



2 FIRST FLOOR HVAC PLAN

Scale: 1/4" = 1'-0"



1 FIRST FLOOR MECHANICAL DEMOLITION PLAN

Scale: 1/4" = 1'-0"

SINGLE DUCT AIR TERMINAL SCHEDULE

MARK	ROOM SERVED	SYSTEM AIR HANDLING	DUCT INLET	DESIGN AIRFLOW (CFM)			ALLOWABLE AIRFLOW (CFM)		CONTROL TYPE	CONTROL SEQUENCE	REHEAT	REMARKS
				MAX	MIN	REHEAT	MAX	MIN				
2-TU-139	A-139	AHU-2	10 in	400	100	0	1050	350	VAV	5°F DEADBAND	NONE	1, 2

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE WITH 120V-24V TRANSFORMER.

AIR DEVICE SCHEDULE (SUPPLY)

DIFFUSER MARK	TYPE	AIR FLOW		MAX. APD	MOUNTING	PANEL/FRAME SIZE	NECK SIZE	MAX NC	DAMPER	FINISH	MATERIAL	REMARKS
		MIN.	MAX.									
SD-14	LOUVERED FACE	301	450	0.08 in-wg	CEILING	24x24	12"Ø	19	No	WHITE	STEEL	1, 2

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE DAMPER IN BRANCH DUCT AS SHOWN ON PLANS.

AIR DEVICE SCHEDULE (RETURN)

MARK	TYPE	AIR FLOW		MAX. APD	MOUNTING	PANEL/FRAME SIZE	NECK SIZE	MAX NC	DAMPER	FINISH	MATERIAL	REMARKS
		MIN.	MAX.									
RG-19	EGG CRATE	110	200	0.09 in-wg	CEILING	12x12	8"Ø	18	No	WHITE	STEEL	1, 2

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE DAMPER IN BRANCH DUCT AS SHOWN ON PLANS.

KEY NOTES:

1. DEMOLISH EXISTING TERMINAL UNIT, DIFFUSER, AND DUCTWORK FEEDING OFFICE A-139 BACK TO SUPPLY MAIN. CAP HEATING HOT WATER PIPING.
2. DEMOLISH EXISTING DIFFUSER AND DUCTWORK SERVINGING OFFICE A-139 BACK TO LOCATION INDICATED.

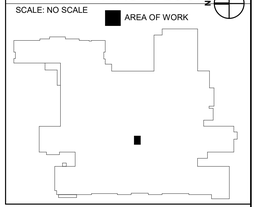
KEY NOTES:

1. REPLACE EXISTING TERMINAL UNIT, DIFFUSER, AND DUCTWORK FEEDING OFFICE A-139 AND TIE INTO EXISTING SUPPLY MAIN. PROVIDE WITH DDC CONTROLS AND CONNECT INTO CAMPUS SIEMENS BAS.
2. REPLACE EXISTING DIFFUSER AND DUCTWORK FEEDING OFFICE A-139 AND TIE INTO EXISTING RETURN MAIN.

KEY PLAN - FIRST FLOOR

SCALE: NO SCALE

AREA OF WORK



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BID DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRST FLOOR MECHANICAL PLANS, CONTROLS, AND SCHEDULES

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

VA PROJECT NUMBER: 626-22-103

Building Number: #

Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212

Approved

Date: JUNE 13, 2024 | Checked: SPG | Drawn: KSC

Drawing Number: M-101

Dwg 2 of 2

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CABLES AND CONNECTORS COLOR LEGEND

DESCRIPTION ITEM	JACK	CABLE	PATCH CABLES	I.D.	CONDUIT COLOR	NOTES
TELEPHONE	IVORY	IVORY	IVORY	T	-	4 PAIR CABLE
DATA/COMPUTER	BLUE	BLUE	BLUE	C	BLUE[1]	4 PAIR CABLE
WIRELESS ACCESS POINT	GREEN	GREEN[3]	GREEN	WAP	-	4 PAIR CABLE
FIBER - MULTI-MODE	BLACK	AQUA	AQUA	FO	-	6/12/24/36
FIBER - SINGLE-MODE	IVORY	YELLOW[3]	YELLOW	FO	-	6/12
SOUND SYSTEM	N/A	GREEN[3]	N/A	SS	YELLOW[2]	MULTI COLOR CONDUCTORS
NURSE CALL	N/A	YELLOW[3]	N/A	NC	YELLOW[2]	4 PAIR UTP
MATV	N/A	BLACK	N/A	MATV	YELLOW[2]	COAX RG6
SSTV - IP	WHITE	WHITE	WHITE	SSTV	YELLOW[2]	SSTV
PACS	N/A	GRAY	N/A	PACS	YELLOW[2]	MULTI COLOR CONDUCTORS

1. HORIZONTAL DATA RUNS SHALL BE INSTALLED IN BLUE CONDUIT WHERE USED FOR HORIZONTAL DATA CABLING. OTHER THAN HORIZONTAL CABLING CONDITIONS SHALL BE IDENTIFIED BY THE FOLLOWING COLORS:
   DEMARCATION POINT - ORANGE
   NETWORK CONNECTION - GREEN
   FIRST LEVEL, TERMINATING BUILDING BACKBONE, MC(CD) TO IC(BD) - WHITE
   SECOND LEVEL, IC(BD) TO TR(HD/FD) - GRAY
   CAMPUS BACKBONE - BROWN
2. YELLOW CONDUIT SHALL HAVE A SECONDARY IDENTIFIER COLOR ADDED AS A STRIPE IN ORDER TO INDICATE SPECIFIC SYSTEM SERVED. COORDINATE SECONDARY INDICATING COLOR WITH COR.
3. WHERE MULTIPLE SYSTEMS UTILIZE THE SAME CABLE COLOR, SYSTEM SPECIFIC CABLING SHALL HAVE A STRIPE IN ORDER TO INDICATE SPECIFIC SYSTEM SERVED. COORDINATE STRIPE COLOR FOR SPECIFIC SUBSYSTEMS WITH COR.

SECURITY SYMBOL LEGEND

SYMBOL	HEIGHT	DESCRIPTION
PACS	6' TO TOP	PHYSICAL ACCESS CONTROL SYSTEM
CR	48"	CARD READER (K - KEYPAD)
ES	DOOR	ELECTRONIC LOCKING MECHANISM
EP	DOOR	ELECTRONIC PANIC HARDWARE
DC	DOOR	DOOR CONTACT
RX	ABOVE DOOR	REQUEST FOR EXIT SENSOR
ADO	DOOR	DOOR OPERATOR
	48"	HANDWAVE
	48"	EMERGENCY EXIT BUTTON TO RELEASE DOOR (EEB)
MD	88"	MOTION DETECTOR
IC	54"	INTERCOM WITH CAMERA
IC M	DESK	INTERCOM MASTER WITH PUSH TO RELEASE DOOR
H6	CEILING	SSTV H6 ANALYTIC DOME CAMERA FIXED
H6SL	CEILING	SSTV H6SL NON ANALYTIC DOME CAMERA FIXED
DH	CEILING	SSTV DUAL HEAD CAMERA FIXED
90	CEILING	SSTV 90 DEGREE PANORAMIC MULTISENSOR CAMERA
180	CEILING	SSTV 180 DEGREE PANORAMIC MULTISENSOR CAMERA
270	CEILING	SSTV 270 DEGREE PANORAMIC MULTISENSOR CAMERA
360	CEILING	SSTV 360 DEGREE PANORAMIC MULTISENSOR CAMERA
FE	CEILING	SSTV FISHEYE PANORAMIC CAMERA
SSTV	FLOOR	SSTV CAMERA EQUIPMENT CABINET
AOF	6' TO TOP	AREA OF REFUGE PANEL
AOFA	6' TO TOP	AREA OF REFUGE ANNUNCIATION PANEL
IC	48"	AREA OF REFUGE INTERCOM
SL	CEILING	AREA OF REFUGE STROBE LIGHT
DP	48"	DURESS PANIC ALARM PUSH BUTTON
DPP	6' TO TOP	DURESS PANIC ALARM PANEL

ALL HEIGHTS ARE TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
ANY HEIGHTS INDICATED IN PLANS SHALL SUPERSEDE THOSE LISTED HERE.
SEE DRAWINGS FOR MORE INFORMATION.
NOTE: NOT ALL SYMBOLS ARE USED.

WALL RATING LEGEND

- 2 HOUR FIRE SEPARATION
- 1 HOUR FIRE SEPARATION
- SMOKE RATED

CAMERA TYPE SCHEDULE

HEIGHT	TYPE	DESCRIPTION	MANUFACTURER	COUNT
12'-0" AFG UNO	H5A DH	SSTV DUEL HEAD	AVIGILON (BASIS OF DESIGN)	7
12'-0" AFG UNO	H5A FE	SSTV FIXED DOME	AVIGILON (BASIS OF DESIGN)	3
12'-0" AFG UNO	H5A MS 90	SSTV MULTISENSOR	AVIGILON (BASIS OF DESIGN)	1
12'-0" AFG UNO	H5A MS 180	SSTV MULTISENSOR	AVIGILON (BASIS OF DESIGN)	1
12'-0" AFG UNO	H5A MS 270	SSTV MULTISENSOR	AVIGILON (BASIS OF DESIGN)	29
12'-0" AFG UNO	H5A MS 360	SSTV MULTISENSOR	AVIGILON (BASIS OF DESIGN)	13
12'-0" AFG UNO	H6	SSTV FIXED DOME	AVIGILON (BASIS OF DESIGN)	70
12'-0" AFG UNO	H6SL	SSTV FIXED DOME	AVIGILON (BASIS OF DESIGN)	98
12'-0" AFG UNO	H6SL SW	SSTV FIXED DOME	AVIGILON (BASIS OF DESIGN)	13
Grand total: 235				235

PROPOSED PHASING SCHEME

1. INSTALL FIBER BACKBONE CABLING FROM NEW SECURITY CAMERA HEADENED EQUIPMENT TO NEW POE CISCO SWITCH TO BE INSTALLED IN ROOM A-139, BUILDING 1, TO FACILITATE CONNECTION TO CAMPUS SECURED FIBER OPTIC NETWORK.
2. RUN NEW CAT6A COPPER CABLES (OR FIBER CABLES FOR DISTANCES OVER 90 METERS) FROM EXISTING IT ROOM TO CAMERA LOCATIONS.
3. INSTALL SECURITY CAMERA HEADEND EQUIPMENT, CONDUIT ALONG WITH EQUIPMENT RACK IN ROOM A-139 AND REQUIRED POWER OUTLETS.
4. INSTALL MONITORS IN POLICE DISPATCH ROOM.
5. INSTALL WALL MOUNTED AND CEILING MOUNTED SECURITY CAMERAS. NEW CAMERAS TO BE CONNECTED PRIOR TO REMOVAL OF THOSE BEING REPLACED TO AVOID BLIND SPOTS.
6. MAKE CONNECTIONS TO CAMERAS.
7. REMOVE ALL REMAINING EXISTING CAMERAS, EQUIPMENT AND CABLING.
8. REMOVE ALL REMAINING EXISTING CAMERAS, EQUIPMENT AND CABLING.
9. REMOVE REPLACED EXISTING CAMERAS AND UNUSED POWER AND DATA CABLES.

GENERAL TECHNOLOGY SYMBOL LEGEND

SYMBOL	HEIGHT	DESCRIPTION	
N	18"	DATA OUTLET - N-4 PR UTP	(N - QUANTITY)
N	48"	TELCO OUTLET - N-4 PR UTP	(N - QUANTITY)
W	48"	WALL PHONE JACK	
N	CEILING	WIRELESS ACCESS POINT - N-4 PR UTP	(N - QUANTITY)
S N	CEILING	SECURE WIRELESS ACCESS POINT - N-4 PR UTP	(N - QUANTITY)
	AS NOTED	TV OUTLET WALL MOUNTED	
	FLOOR	CHANNEL TR EQUIPMENT RACK	
	FLOOR	TR EQUIPMENT CABINET	
MATV	6' TO TOP	MATV EQUIPMENT CABINET	
	ABOVE CEILING	LADDER CABLE TRAY (4" HIGH - SEE PLANS FOR OTHER DIMENSIONS)	
	18"	GROUND BUS	
	8"	4'x8'x3/4" FIRE RETARDED TTB	
	FLOOR	HIGH CAPACITY FLOOR BOX FOR DATA (2-4P) & POWER (4-RECEPTACLE)	
J	AS NOTED	JUNCTION BOX - AS NOTED ON PLANS	

ALL HEIGHTS ARE TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
ANY HEIGHTS INDICATED IN PLANS SHALL SUPERSEDE THOSE LISTED HERE.
SEE DRAWINGS FOR MORE INFORMATION.
NOTE: NOT ALL SYMBOLS ARE USED.

TECHNOLOGY GENERAL NOTES

1. PROVIDE TECHNOLOGY DEVICES AND EQUIPMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, MANUFACTURER'S RECOMMENDED PROCEDURES, ALL APPLICABLE LOCAL AND STATE CODES, AMERICANS WITH DISABILITIES ACT, LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, BICSI STANDARDS, AND VA OIT STANDARDS.
2. PROVIDE ADDITIONAL SUPPORT FOR DEVICES AND EQUIPMENT WHERE BUILDING CONSTRUCTION IS NOT SUITABLE FOR DIRECT MOUNTING.
3. FIRESTOP, DRAFTSTOP, SMOKESTOP OR PROTECT ANNULAR SPACE AROUND PENETRATIONS THROUGH WALLS, PARTITIONS, FLOORS, CEILINGS, AND ROOF IN ACCORDANCE WITH REQUIREMENTS OF NFPA 70, UL LISTING REQUIREMENT AND APPLICABLE BUILDING CODES.
4. PROVIDE CABLING THAT COMPLIES WITH THE LATEST EDITION OF TELECOMMUNICATIONS DISTRIBUTION METHOD MANUAL AND ANSI/TIA/EIA PUBLICATIONS.
5. COMPLY WITH THE LATEST ANSI/TIA/EIA 758 AND 607D - BONDING AND GROUNDING TELECOMMUNICATIONS.
6. COMPLY WITH THE LATEST ANSI/TIA/EIA 568.1E - COMMERCIAL BUILDING TELECOMMUNICATIONS WIRING STANDARD.
7. COMPLY WITH THE LATEST ANSI/TIA/EIA 569E - TELECOMMUNICATIONS PATHWAYS AND SPACES.
8. COMPLY WITH ANSI/TIA-1069 STANDARD FOR HOSPITAL SIGNALING & NURSE CALL EQUIPMENT.
9. COMPLY WITH ANSI/TIA-1179 HEALTHCARE FACILITY TELECOMMUNICATION INFRASTRUCTURE STANDARD.
10. COMPLY WITH THE LATEST NFPA 70 NATIONAL ELECTRICAL CODE.
11. COMPLY WITH THE LATEST NFPA 99 HEALTHCARE FACILITIES CODE.
12. COMPLY WITH THE LATEST NFPA 101 LIFE SAFETY CODE.
13. CONTRACTOR RESPONSIBLE FOR THE COORDINATION OF ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
14. MANUFACTURER'S NAME AND MODEL NUMBER ARE GIVEN FOR DESCRIPTIVE PURPOSES TO INDICATE A QUALITY STANDARD AND ARE NOT INTENDED TO LIMIT PRODUCTS TO A PARTICULAR MANUFACTURER. PRODUCTS DEEMED EQUAL IN ACCORDANCE WITH SPECIFIED PROCESSES FOR APPROVAL AND APPROVED BY THE COR WILL BE ACCEPTABLE. COMPLY WITH "BUY AMERICAN ACT".
15. MOUNTING HEIGHTS INDICATED ARE TO CENTER OF DEVICE, BOXES, OUTLET, OR EQUIPMENT UNLESS NOTED OTHERWISE.
16. PROVIDE RGS OR EMT CONDUIT UNLESS OTHERWISE NOTED.
17. PROVIDE MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT LABEL LISTED BY APPROVED THIRD PARTY TESTING AGENCY.
18. NOTIFY COR REGARDING DISCREPANCY BETWEEN PLANS AND SPECIFICATIONS FOR CLARIFICATION. THE MORE STRINGENT SHALL TAKE PRECEDENCE.
19. PROVIDE TIA/EIA 4 PR UTP COPPER CABLE, JACKS, AND CONNECTORS.
20. ALL WORK AREA OUTLETS SHALL BE 8 PIN, 8P8C KEYSTONE JACK WIRED PER T568B.
21. LABEL DEVICES IN ACCORDANCE WITH LATEST ANSI/TIA 606A OR 606B EDITION AS WELL AS THE STANDARDS SET FORTH BY THE VAMC OIT.
22. PROVIDE A MINIMUM OF 12" CLEARANCE ABOVE THE CABLE TRAY PER TIA/EIA 569.B PARAGRAPH 4.5.6.2.
23. VA SHALL CONDUCT A WAP SURVEY AND PROVIDE THE SURVEY TO THE CONTRACTOR. CONTRACTOR SHALL INSTALL CABLING AND EQUIPMENT IN ACCORDANCE WITH THE SURVEY. COORDINATE WITH COR/OIT.
24. ALL CABLING INSTALLED ABOVE CEILING SHALL BE PLENUM RATED.
25. MINIMUM CONDUIT SIZE TO BE USED IS 1 1/4" CONDUIT.
26. WALL MOUNTED DEVICES PLACED IN TELECOMMUNICATIONS ROOM TO BE MOUNTED ON FIRE RETARDANT PLYWOOD.
27. ALL CAMERAS SHALL BE IN COMPLIANCE WITH THE NATIONAL DEFENSE AUTHORIZATION ACT.

TECHNOLOGY ABBREVIATIONS LIST

ADO AUTOMATIC DOOR OPERATOR
AFF ABOVE FINISH FLOOR
AFG ABOVE FINISH GRADE

BOD BASIS OF DESIGN

CCTV CLOSED CIRCUIT TELEVISION
COAX COAXIAL CABLE
COMM COMMUNICATION
COR CONTRACTING OFFICER REPRESENTATIVE

DC DOOR CONTACT SWITCH
DN DOWN
DO DOOR OPERATOR
DVC DIGITAL VOICE COMMAND
DVR DIGITAL VIDEO RECORDER

E EXISTING DEVICES
EEB EMERGENCY EXIT BUTTON
EL ELECTRICAL STRIKE
EMT ELECTRICAL METALLIC CONDUIT
ETR EXISTING TO REMAIN

FA FIRE ALARM
FACP FIRE ALARM CONTROL PANEL
FAAP FIRE ALARM ANNUNCIATOR PANEL
FO FIBER OPTIC
FAGAP FIRE ALARM GRAPHIC ANNUNCIATOR PANEL

IT INTERCOMMUNICATION ROOM

MATV MASTER ANTENNA TELEVISION
MM MULTI MODE FIBER

NAC NOTIFICATION APPLIANCE CONTROL PANEL
N NEW DEVICES
NCA NETWORK CONTROL ANNUNCIATOR
NS NO SCALE
NTS NOT TO SCALE
NVR NETWORK VIDEO RECORDER

OC ON CENTER
OIT OFFICE OF INFORMATION TECHNOLOGY

PACS PHYSICAL ACCESS CONTROL SYSTEM
PAMN PUBLIC ADDRESS AND MASS NOTIFICATION SYSTEM
PB PUSH BUTTON
PBB PRIMARY BONDING BUSBAR
PDU RACK POWER DISTRIBUTION UNITS
POE POWER OVER ETHERNET
PR PAIR

RBB RACK BONDING BUSBAR
RGS RIGID GALVANIZED STEEL CONDUIT
RX REQUEST TO EXIT

SBB SECONDARY BONDING BUSBAR
SEP SERVICE ENTRANCE PROTECTION
SLC SIGNALING LINE CIRCUIT
SM SINGLE MODE FIBER
SSTV SECURITY SURVAILLANCE TELEVISION SYSTEM

TBB TELECOM BONDING CONDUCTOR
TEL TELEPHONE
TM TELEMONITORING
TP TWISTED PAIR
TR TELECOM ROOM
TTB TELEPHONE TERMINAL BOARD
TV TELEVISION

WM WIRE MANAGEMENT
WAP WIRELESS ACCESS POINT

UL UNDERWRITERS LABORATORY
UPS UNINTERRUPTIBLE POWER SUPPLY
UTP UNSHIELDED TWISTED PAIR

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#	Revisions:	Date

CONSULTANTS:

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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY GENERAL NOTES, SYMBOL LEGEND, AND ABBREVIATIONS

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

VA PROJECT NUMBER: 626-22-103

Building Number: #

Location: NASHVILLE VAMC
1310 24TH AVENUE SOUTH
NASHVILLE, TN 37212

Approved

Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS

Drawing Number: T-001

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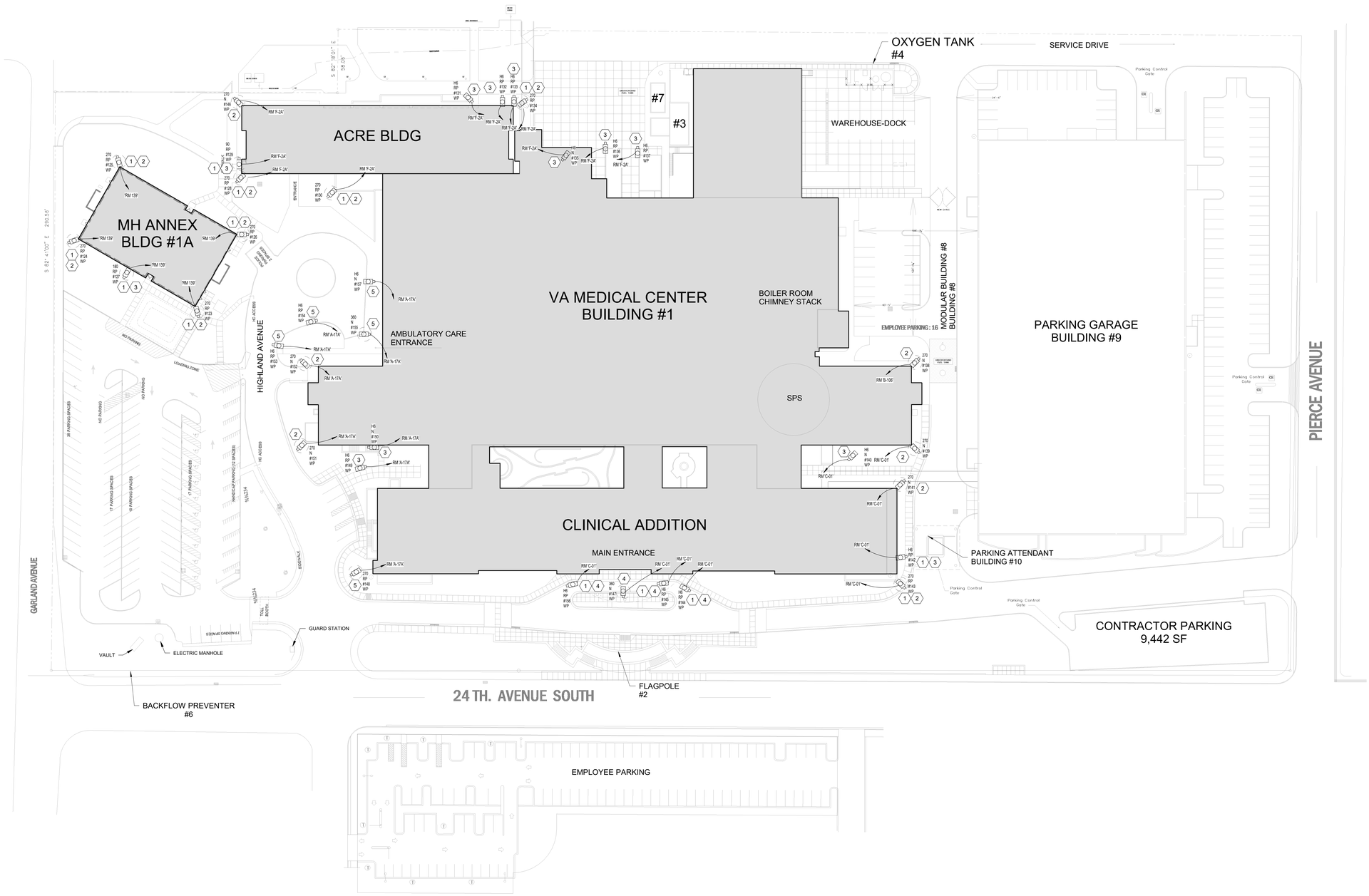

1 TECHNOLOGY SITE PLAN

Scale: 1" = 40'-0"

0 20 40 80 NORTH

SHEET NOTES:

A. DEMOLISH CAMERAS AS NOTED (SEE CAMERA ABBREVIATIONS). REMOVE CABLING AND CONDUIT BACK TO SOURCE. PATCH/REPAIR AND PAINT SURFACES AFFECTED BY DEMOLITION TO MATCH SURROUNDING AREA. REPLACE ANY CEILING TILES DAMAGED OR BROKEN DURING DEMOLITION AT NO ADDITIONAL COST TO THE VA.

B. PROVIDE AND INSTALL NEW CAMERAS AS NOTED (SEE CAMERA ABBREVIATIONS). RUN NEW 4 PR UTP TO CCTV EQUIPMENT IN DESIGNATED IT ROOM.

C. REMOVE AND REPLACE CAMERAS AS NOTED (SEE CAMERA ABBREVIATIONS). RUN NEW 4 PR UTP TO CCTV EQUIPMENT IN DESIGNATED IT ROOM.

D. CCTV SERVICES ARE TO REMAIN ACTIVE OUTSIDE AREAS UNDER ACTIVE CONSTRUCTION AT ALL TIMES. FIELD VERIFY CIRCUITS SHOWN AND RETAIN SERVICES TO ALL DEVICES AND/OR SYSTEMS DURING DEMOLITION AND REMODEL OF THE RESPECTIVE AREAS.

E. ALL EXISTING CONDITIONS AND DEVICES ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF SURVEY AND VISUAL INSPECTION. VERIFY EXISTING CONDITIONS IN FIELD.

F. NEW CCTV CABLING TO BE RUN ON J-HOOKS 2' OC ABOVE CEILING IN CORRIDORS.

G. ALL CONDUIT SECURITY JUNCTION BOXES AND RACEWAY PROVIDED BY ELECTRICAL CONTRACTOR UNO. ALL CONDUIT SHALL BE 3/4" MINIMUM. ELECTRICAL CONTRACTOR TO SIZE CONDUIT PER THE MOST CURRENT EDITION OF THE NEC.

H. ALL EXPOSED BOXES AND PANELS MOUNTED ON OR IN THE EXTERIOR WALLS SHALL BE WEATHERPROOF AND RAIN-TIGHT.

I. WHERE LENGTH FROM CAMERA TO RACK EQUIPMENT EXCEED 295' (90M) CONTRACTOR SHALL USE FIBER OPTIC CABLE.

J. ALL CAMERAS AND EQUIPMENT THAT IS REMOVED SHALL BE TURNED OVER TO THE POLICE DEPARTMENT. COORDINATE WITH COR.

K. ALL EXTERIOR CAMERAS TO BE WEATHERPROOF.

N. CONTRACTOR SHALL PLAN PENETRATIONS AND CONDUIT RUNS FROM EXTERIOR CAMERAS INTO THE BUILDINGS SO AS TO MINIMIZE THE CHANGES TO THE BUILDINGS EXTERIOR AND WILL MINIMIZE THE NECESSARY CONDUIT RUNS ON THE EXTERIOR OF THE BUILDING.

O. COORDINATE EXTERIOR CAMERA MOUNTING HEIGHT WITH THE INTERIOR CEILING HEIGHT TO MINIMIZE EXTERIOR CONDUIT RUNS. REUSE EXISTING CONDUIT RUNS AND BUILDING PENETRATIONS WHEN POSSIBLE.

P. COORDINATE ALL NEW CAMERA LOCATIONS WITH COR PRIOR TO ROUGH-IN.

Q. ALL CONDUIT RUNS ON THE EXTERIOR OF THE BUILDING SHALL BE PAINTED TO MATCH THE BUILDING COLOR PRIOR TO ROUGH-IN.

KEY NOTES:

1 EXISTING CAMERA APPROXIMATELY 12 FEET AFG TO BE REMOVED AND REPLACED WITH NEW CAMERA.
2 PROVIDE CORNER MOUNT BRACKET.
3 PROVIDE FLAT WALL BRACKET.
4 REPLACE CAMERA AT ENTRANCE UNDER OVERHANG.
5 MOUNT CAMERA TO EXISTING STRUCTURE. ROUTE CONDUIT ALONG WALKWAY STRUCTURE.

FULLY SPRINKLERED
BID DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

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7/24/2024

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Drawing Title: TECHNOLOGY SITE PLAN
Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE
VA PROJECT NUMBER: 626-22-103
Building Number: #
Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212
Approved:
Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS
Drawing Number: TS101
Dwg 2 of 29

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1 **MENTAL HEALTH ANNEX FIRST FLOOR SECURITY PLAN**
Scale: 3/16" = 1'-0"

0 2 4 8 NORTH

SHEET NOTES:

A. ALL EXISTING CONDITIONS ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF SURVEY.

B. NEW CCTV CABLING TO BE RUN ON J-HOOKS 2' ON CENTER ABOVE CEILING IN CORRIDORS.

C. ALL CONDUIT SHALL BE 3/4" MINIMUM. ELECTRICAL CONTRACTOR TO SIZE CONDUIT. PER THE MOST CURRENT EDITION OF THE NEC.

D. WHERE LENGTH FROM CAMERA TO RACK EQUIPMENT EXCEEDS 295' (90M) CONTRACTOR SHALL USE FIBER OPTIC CABLE.

E. COORDINATE AND CONFIRM ALL ROUTING WITH COR PRIOR TO ROUGH-IN.

F. EXISTING CAMERAS TO BE REPLACED ON THIS SHEET ARE SHOWN IN HALF TONE. NEW CAMERA LOCATIONS ARE SHOWN REGULARLY.

G. SEE SHEET G-100 FOR ICRA MEASURES.

H. USE MOBILE CONTAINMENT CART (6/G-100) ALONG CORRIDORS.

KEY NOTES:

1 REMOVE EXISTING CAMERAS AND CABLING BACK TO SOURCE.

2 INSTALL NEW CAMERAS. PROVIDE NEW 4 PR UTP CABLING FROM CAMERA TO NEW POE SWITCH IN TELECOM ROOM. REPAIR/ REPLACE SURFACES AFFECTED BY CAMERA EQUIPMENT INSTALLATION TO MATCH SIMILAR/EXISTING CONDITIONS. CONTRACTOR TO REPLACE DAMAGED CEILING TILE AND GRID ASSOCIATED WITH WORK AT NO ADDITIONAL COST TO GOVERNMENT.

3 PROPOSED LOCATION OF NEW CISCO 9300 SWITCH AND PATCH PANEL. VERIFY LOCATION WITH COR AND OIT REPRESENTATIVE.

4 ROUTE MMF FROM TELECOM ROOM TO RACKS IN A-140 DISPATCH. AVAILABILITY OF SPARE FIBER TO BE COORDINATED WITH OIT.

FULLY SPRINKLERED
BID DOCUMENTS

#	Revisions:	Date

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EXPIRES 12-31-24
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NORTH CAROLINA PROFESSIONAL SEAL 36876 ENGINEER GARRETT R. GOSSETT
7/24/2024

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ACG Project Number 22-215N

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MENTAL HEALTH ANNEX FIRST FLOOR SECURITY PLAN

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

VA PROJECT NUMBER: 626-22-103

Building Number: # 1A

Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212

Approved

Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS

Drawing Number: T-101

Dwg 3 of 29

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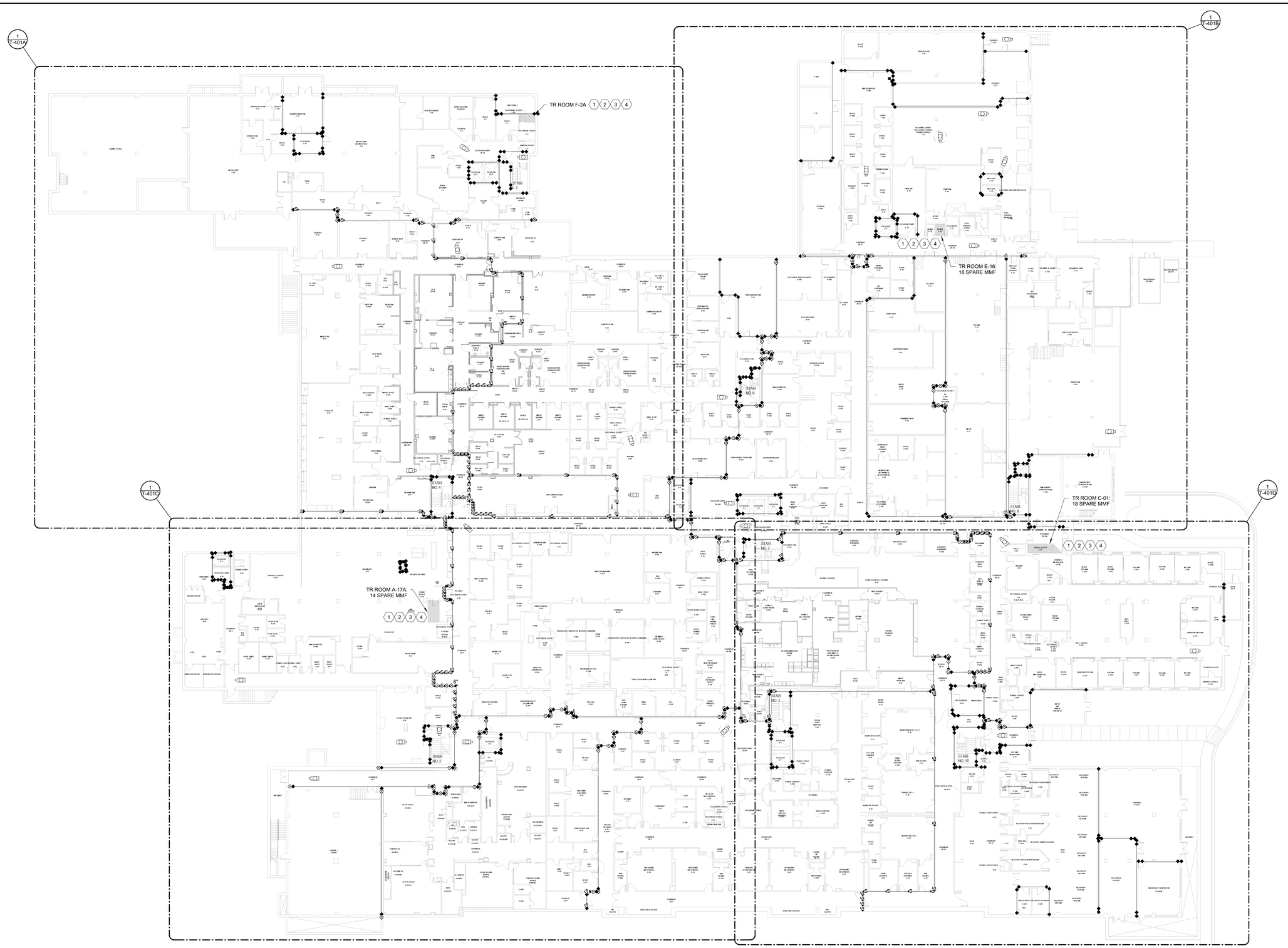

1 BUILDING 1 & 1A-ACRE BASEMENT SECURITY PLAN

Scale: 1" = 20'-0"

0 10 20 40

NORTH

SHEET NOTES:

A. ALL EXISTING CONDITIONS ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF SURVEY.

B. NEW CCTV CABLING TO BE RUN ON J-HOOKS 2' ON CENTER ABOVE CEILING IN CORRIDORS.

C. ALL CONDUIT SHALL BE 3/4" MINIMUM. ELECTRICAL CONTRACTOR TO SIZE CONDUIT. PER THE MOST CURRENT EDITION OF THE NEC.

D. WHERE LENGTH FROM CAMERA TO RACK EQUIPMENT EXCEEDS 295' (90M) CONTRACTOR SHALL USE FIBER OPTIC CABLE.

E. COORDINATE AND CONFIRM ALL ROUTING WITH COR PRIOR TO ROUGH-IN.

F. EXISTING CAMERAS TO BE REPLACED ON THIS SHEET ARE SHOWN IN HALF TONE. NEW CAMERA LOCATIONS ARE SHOWN REGULARLY.

G. SEE SHEET G-100 FOR ICRA MEASURES.

H. USE MOBILE CONTAINMENT CART (6/G-100) ALONG CORRIDORS.

KEY NOTES:

1 REMOVE EXISTING CAMERAS AND CABLING BACK TO SOURCE.

2 INSTALL NEW CAMERAS. PROVIDE NEW 4 PR UTP CABLING FROM CAMERA TO NEW POE SWITCH IN TELECOM ROOM.

3 PROPOSED LOCATION OF NEW CISCO 9300 SWITCH AND PATCH PANEL. VERIFY LOCATION WITH COR AND OIT REPRESENTATIVE.

4 ROUTE MMF FROM TELECOM ROOM TO RACKS IN A-140 DISPATCH. AVAILABILITY OF SPARE FIBER TO BE COORDINATED WITH OIT.

FULLY SPRINKLERED

BID DOCUMENTS

#	Revisions:	Date

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NORTH CAROLINA PROFESSIONAL SEAL 36876 ENGINEER GARRETT R. GOSSETT
7/24/2024

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ACG Project Number 22-215N

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 1 & 1A-ACRE BASEMENT SECURITY PLAN

Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

Approved

Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS

VA PROJECT NUMBER 626-22-103

Building Number # 1

Drawing Number T-102

Dwg 4 of 29

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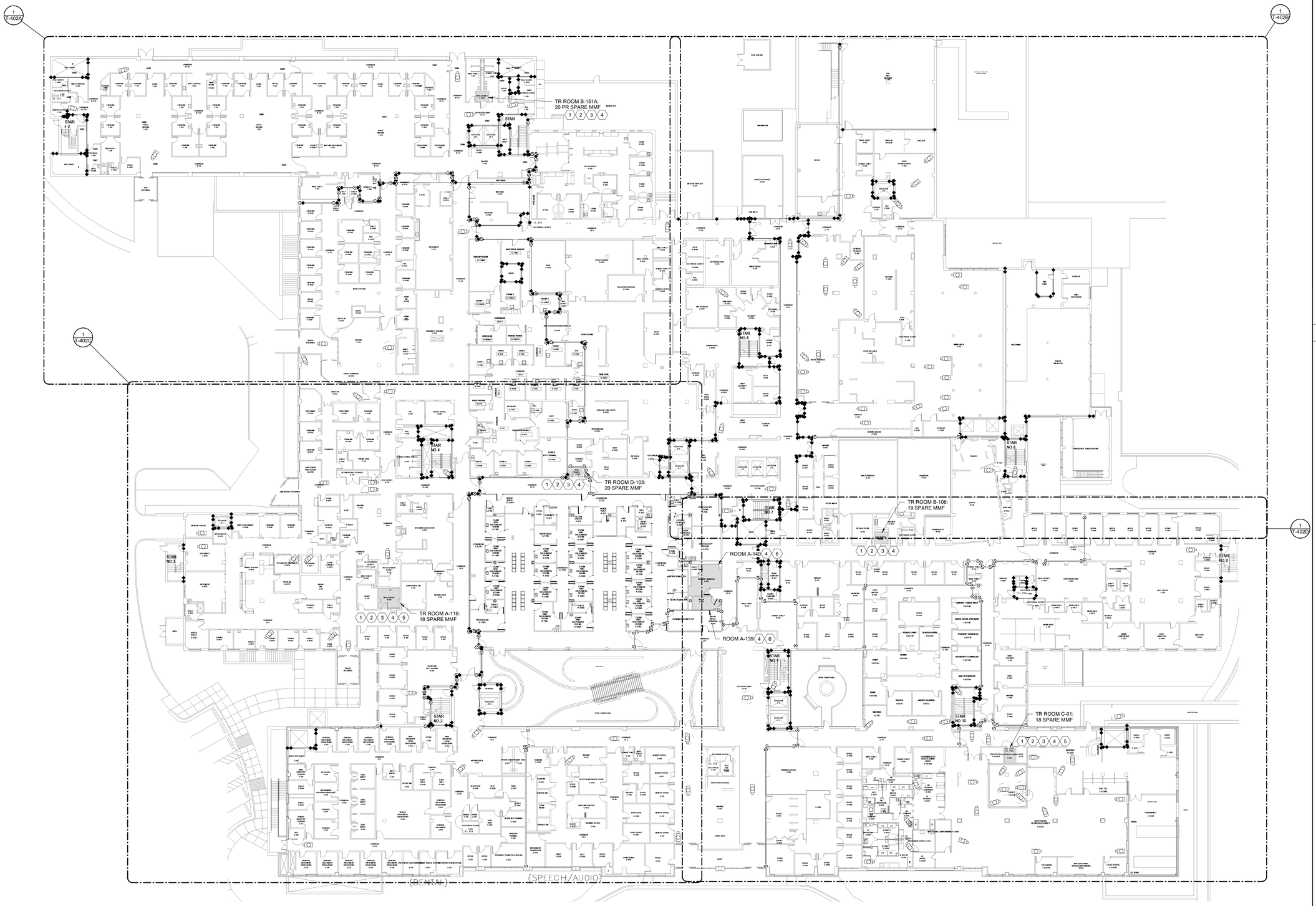

1 BUILDING 1 & 1A-ACRE FIRST FLOOR SECURITY PLAN

Scale: 1" = 20'-0"

0 10 20 40

NORTH

SHEET NOTES:

A. ALL EXISTING CONDITIONS ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF SURVEY.

B. NEW CCTV CABLING TO BE RUN ON J-HOOKS 2' ON CENTER ABOVE CEILING IN CORRIDORS.

C. ALL CONDUIT SHALL BE 3/4" MINIMUM. ELECTRICAL CONTRACTOR TO SIZE CONDUIT. PER THE MOST CURRENT EDITION OF THE NEC.

D. WHERE LENGTH FROM CAMERA TO RACK EQUIPMENT EXCEEDS 295' (90M) CONTRACTOR SHALL USE FIBER OPTIC CABLE.

E. COORDINATE AND CONFIRM ALL ROUTING WITH COR PRIOR TO ROUGH-IN.

F. EXISTING CAMERAS TO BE REPLACED ON THIS SHEET ARE SHOWN IN HALF TONE. NEW CAMERA LOCATIONS ARE SHOWN REGULARLY.

G. SEE SHEET G-100 FOR ICRA MEASURES.

H. USE MOBILE CONTAINMENT CART (6/G-100) ALONG CORRIDORS.

KEY NOTES:

1 REMOVE EXISTING CAMERAS AND CABLING BACK TO SOURCE.

2 INSTALL NEW CAMERAS. PROVIDE NEW 4 PR UTP CABLING FROM CAMERA TO NEW POE SWITCH IN TELECOM ROOM.

3 PROPOSED LOCATION OF NEW CISCO 9300 SWITCH AND PATCH PANEL. VERIFY LOCATION WITH COR AND OIT REPRESENTATIVE.

4 ROUTE MMF FROM TELECOM ROOM TO RACKS IN A-140 DISPATCH. AVAILABILITY OF SPARE FIBER TO BE COORDINATED WITH OIT.

5 PROVIDE NEW PDU TO POWER NEW RACK EQUIPMENT IN TELECOM ROOM.

6 AVIGILON NVR'S AND PATCH PANEL TO BE IN INSTALLED IN SERVER ROOM. NVR TO PROVIDE A MINIMUM OF 30 DAYS OF BACKUP. LOCATION OF NEW EQUIPMENT TO BE COORDINATED WITH OIT REPRESENTATIVE.

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BID DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

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EXPIRES 12-31-24
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 1 & 1A-ACRE FIRST FLOOR SECURITY PLAN

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

VA PROJECT NUMBER: 626-22-103

Building Number: # 1

Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212

Approved

Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS

Drawing Number: T-103

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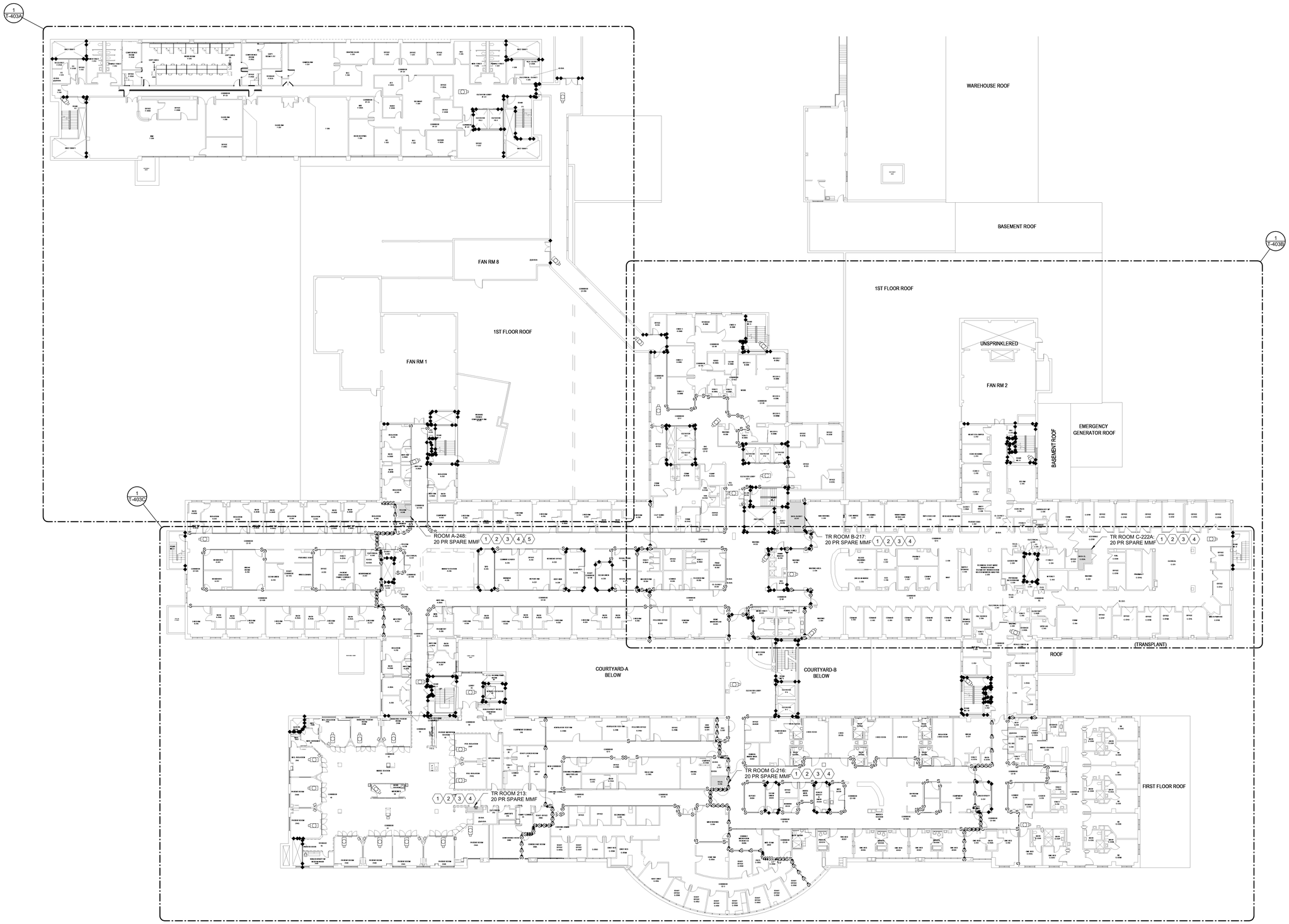

1 BUILDING 1 & 1A-ACRE SECOND FLOOR SECURITY PLAN

Scale: 1" = 20'-0"

0 10 20 40

NORTH

SHEET NOTES:

A. ALL EXISTING CONDITIONS ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF SURVEY.

B. NEW CCTV CABLING TO BE RUN ON J-HOOKS 2' ON CENTER ABOVE CEILING IN CORRIDORS.

C. ALL CONDUIT SHALL BE 3/4" MINIMUM. ELECTRICAL CONTRACTOR TO SIZE CONDUIT. PER THE MOST CURRENT EDITION OF THE NEC.

D. WHERE LENGTH FROM CAMERA TO RACK EQUIPMENT EXCEEDS 295' (90M) CONTRACTOR SHALL USE FIBER OPTIC CABLE.

E. COORDINATE AND CONFIRM ALL ROUTING WITH COR PRIOR TO ROUGH-IN.

F. EXISTING CAMERAS TO BE REPLACED ON THIS SHEET ARE SHOWN IN HALF TONE. NEW CAMERA LOCATIONS ARE SHOWN REGULARLY.

G. SEE SHEET G-100 FOR ICRA MEASURES.

H. USE MOBILE CONTAINMENT CART (6/G-100) ALONG CORRIDORS.

KEY NOTES:

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4 ROUTE MMF FROM TELECOM ROOM TO RACKS IN A-140 DISPATCH. AVAILABILITY OF SPARE FIBER TO BE COORDINATED WITH OIT.

5 PROVIDE NEW PDU TO POWER NEW RACK EQUIPMENT IN TELECOM ROOM.

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#	Revisions:	Date

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ACG Project Number 22-215N

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 1 & 1A-ACRE SECOND FLOOR SECURITY PLAN

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

VA PROJECT NUMBER: 626-22-103

Building Number: # 1

Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212

Approved

Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS

Drawing Number: T-104

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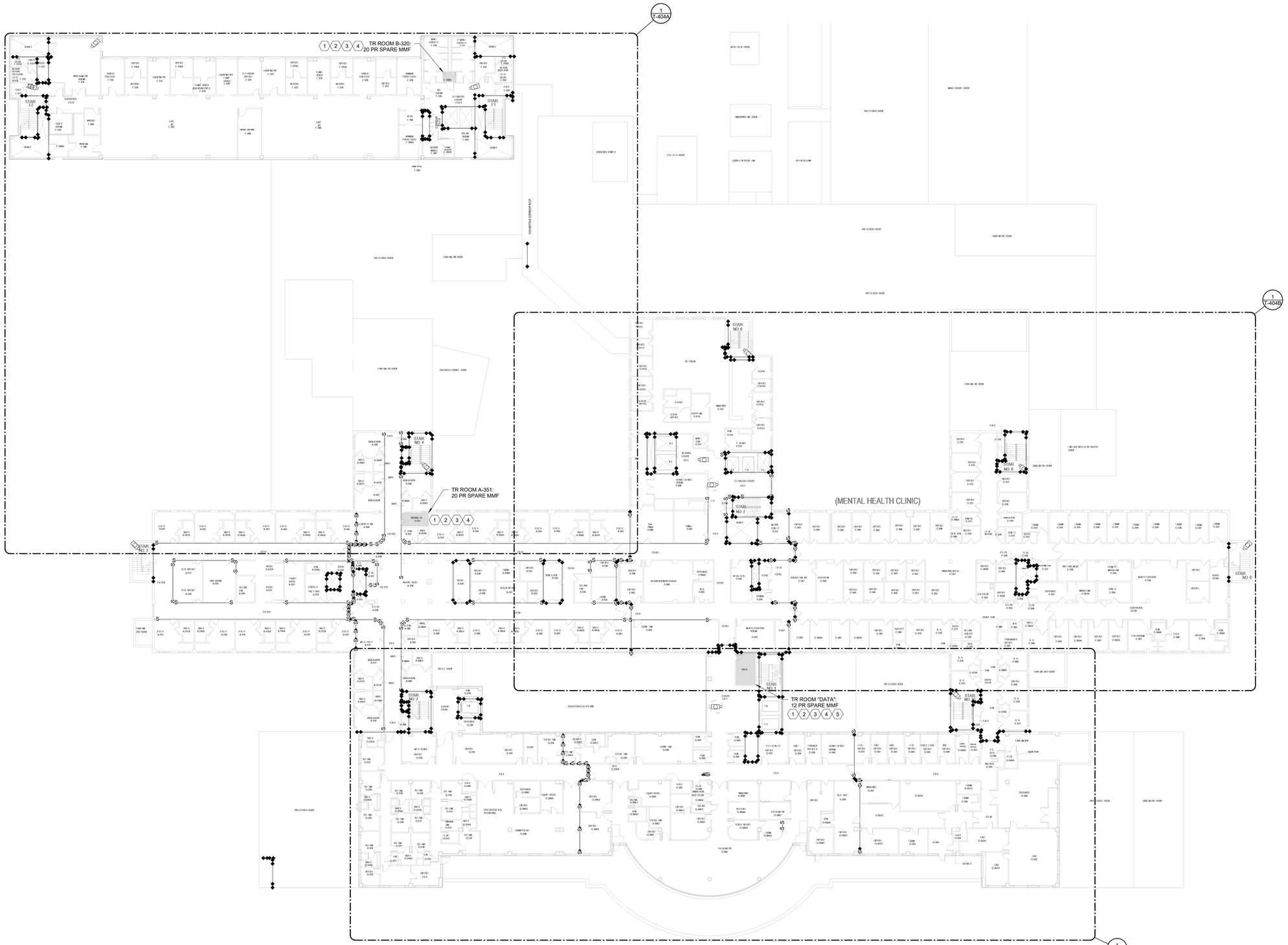

1 **BUILDING 1 & 1A-ACRE THIRD FLOOR SECURITY PLAN**

Scale: 1" = 20'-0"

SHEET NOTES:

A. ALL EXISTING CONDITIONS ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF SURVEY.

B. NEW CCTV CABLING TO BE RUN ON J-HOOKS 2' ON CENTER ABOVE CEILING IN CORRIDORS.

C. ALL CONDUIT SHALL BE 3/4" MINIMUM. ELECTRICAL CONTRACTOR TO SIZE CONDUIT. PER THE MOST CURRENT EDITION OF THE NEC.

D. WHERE LENGTH FROM CAMERA TO RACK EQUIPMENT EXCEEDS 295' (90M) CONTRACTOR SHALL USE FIBER OPTIC CABLE.

E. COORDINATE AND CONFIRM ALL ROUTING WITH COR PRIOR TO ROUGH-IN.

F. EXISTING CAMERAS TO BE REPLACED ON THIS SHEET ARE SHOWN IN HALF TONE. NEW CAMERA LOCATIONS ARE SHOWN REGULARLY.

G. SEE SHEET G-100 FOR ICRA MEASURES.

H. USE MOBILE CONTAINMENT CART (6/G-100) ALONG CORRIDORS.

KEY NOTES:

1 REMOVE EXISTING CAMERAS AND CABLING BACK TO SOURCE.

2 INSTALL NEW CAMERAS. PROVIDE NEW 4 PR UTP CABLING FROM CAMERA TO NEW POE SWITCH IN TELECOM ROOM.

3 PROPOSED LOCATION OF NEW CISCO 9300 SWITCH AND PATCH PANEL. VERIFY LOCATION WITH COR AND OIT REPRESENTATIVE.

4 ROUTE MMF FROM TELECOM ROOM TO RACKS IN A-140 DISPATCH. AVAILABILITY OF SPARE FIBER TO BE COORDINATED WITH OIT.

5 PROVIDE NEW PDU TO POWER NEW RACK EQUIPMENT IN TELECOM ROOM.

FULLY SPRINKLERED

BID DOCUMENTS

#	Revisions:	Date

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EXPIRES 12-31-24

NORTH CAROLINA PROFESSIONAL SEAL 36876 ENGINEER GARRETT R. GOSSETT
7/24/2024

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ACG Project Number 22-215N

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 1 & 1A-ACRE THIRD FLOOR SECURITY PLAN

Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

VA PROJECT NUMBER 626-22-103

Building Number # 1

Approved

Date JUNE 13, 2024 | Checked JVE | Drawn LAS

Drawing Number T-105

Dwg 7 of 29

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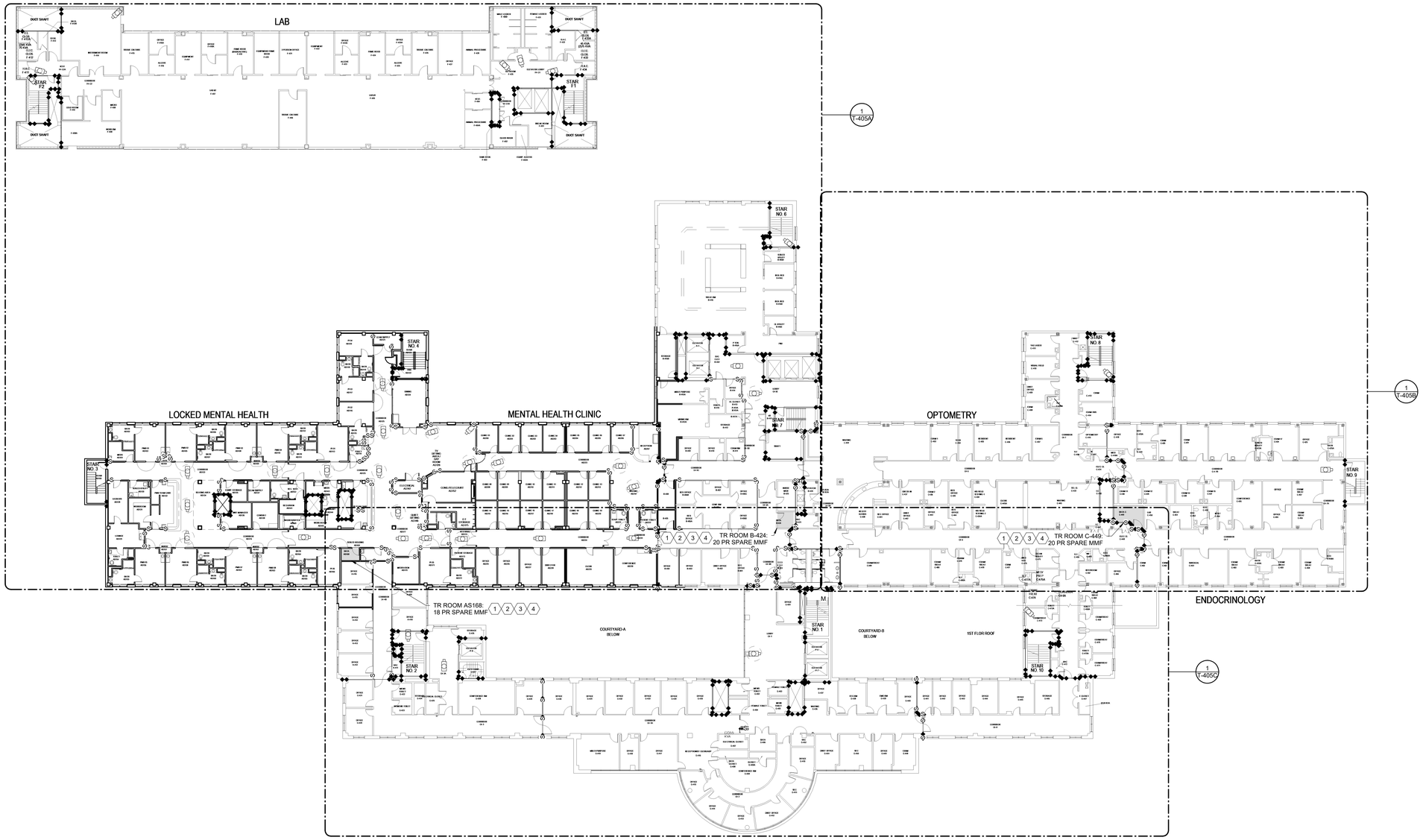

1 **BUILDING 1 & 1A-ACRE FOURTH FLOOR SECURITY PLAN**

Scale: 1" = 20'-0"

0 10 20 40

NORTH

SHEET NOTES:

A. ALL EXISTING CONDITIONS ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF SURVEY.

B. NEW CCTV CABLING TO BE RUN ON J-HOOKS 2' OC ABOVE CEILING IN CORRIDORS.

C. ALL CONDUIT SHALL BE 3/4" MINIMUM. EC TO SIZE CONDUIT. PER THE MOST CURRENT EDITION OF THE NEC.

D. WHERE LENGTH FROM CAMERA TO RACK EQUIPMENT EXCEED 295' (90M) CONTRACTOR SHALL USE FIBER OPTIC CABLE.

E. COORDINATE AND CONFIRM ALL ROUTING WITH COR PRIOR TO ROUGH-IN.

F. EXISTING CAMERAS TO BE REPLACED ON THIS SHEET ARE SHOWN IN HALF TOWN. NEW CAMERA LOCATIONS ARE SHOWN REGULARLY.

KEY NOTES:

1 REMOVE EXISTING CAMERAS AND CABLING BACK TO SOURCE.

2 INSTALL NEW CAMERAS. PROVIDE NEW 4 PR UTP CABLING FROM CAMERA TO NEW POE SWITCH IN TELECOM ROOM.

3 PROPOSED LOCATION OF NEW CISCO 9300 SWITCH AND PATCH PANEL. VERIFY LOCATION WITH COR AND OIT REPRESENTATIVE.

4 ROUTE MMF FROM TELECOM ROOM TO RACKS IN A-140 DISPATCH. AVAILABILITY OF SPARE FIBER TO BE COORDINATED WITH OIT.

5 PROVIDE NEW PDU TO POWER NEW RACK EQUIPMENT IN TELECOM ROOM.

FULLY SPRINKLERED

BID DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
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JAMES V EZEKIEL
BICSI ID# 290762
EXPIRES 12-31-24
RCDD

NORTH CAROLINA PROFESSIONAL SEAL 36876 ENGINEER GARRITT R. GOSSETT
7/24/2024

PROJECT MANAGER

ACG Project Number 22-215N

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VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 1 & 1A-ACRE FOURTH FLOOR SECURITY PLAN

Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

Approved

Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS

VA PROJECT NUMBER 626-22-103

Building Number # 1

Drawing Number T-106

Dwg 8 of 29

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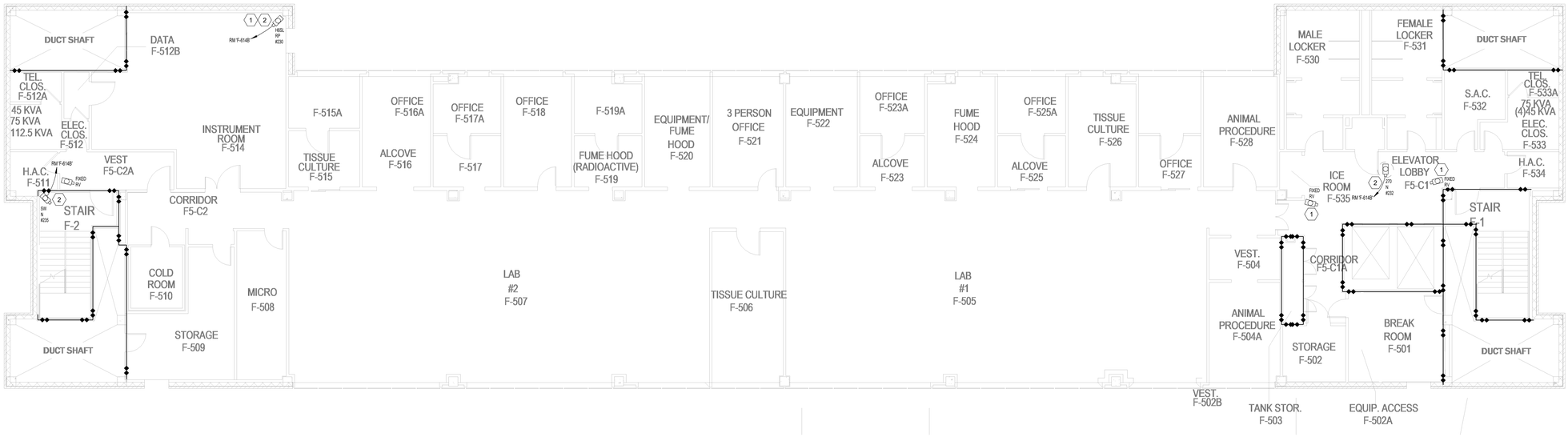
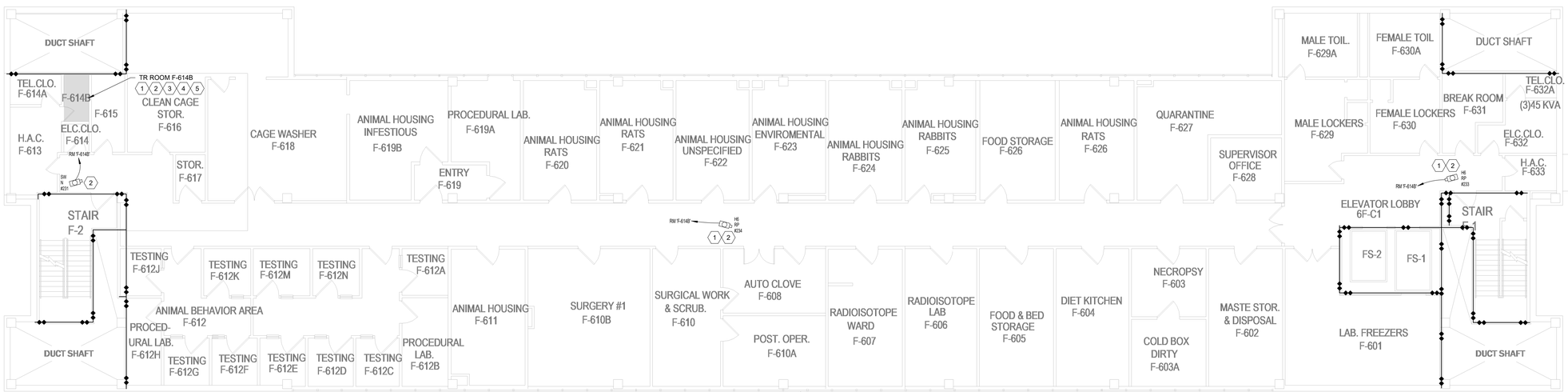


1 **BUILDING 1 & 1A-ACRE FIFTH FLOOR SECURITY PLAN**
Scale: 1/8" = 1'-0"



2 **BUILDING 1A-ACRE SIXTH FLOOR SECURITY PLAN**
Scale: 1/8" = 1'-0"

SHEET NOTES:

A. REFERENCE SHEET TS101 FOR EXTERIOR CAMERA LOCATIONS.

B. ALL EXISTING CONDITIONS ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF SURVEY.

C. NEW CCTV CABLING TO BE RUN ON J-HOOKS 2' OC ABOVE CEILING IN CORRIDORS.

D. ALL CONDUIT SHALL BE 3/4" MINIMUM. EC TO SIZE CONDUIT. PER THE MOST CURRENT EDITION OF THE NEC.

E. WHERE LENGTH FROM CAMERA TO RACK EQUIPMENT EXCEED 295' (90M) CONTRACTOR SHALL USE FIBER OPTIC CABLE.

F. COORDINATE AND CONFIRM ALL ROUTING WITH COR PRIOR TO ROUGH-IN.

G. EXISTING CAMERAS TO BE REPLACED ON THIS SHEET ARE SHOWN IN HALF TONE. NEW CAMERA LOCATIONS ARE SHOWN REGULARLY.

KEY NOTES:

1. REMOVE EXISTING CAMERAS AND CABLING BACK TO SOURCE.
2. INSTALL NEW CAMERAS. PROVIDE NEW 4 PR UTP CABLING FROM CAMERA TO NEW POE SWITCH IN TELECOM ROOM.
3. PROPOSED LOCATION OF NEW CISCO 9300 SWITCH AND PATCH PANEL. VERIFY LOCATION WITH COR AND OIT REPRESENTATIVE.
4. ROUTE MMF FROM TELECOM ROOM TO RACKS IN A-140 DISPATCH. AVAILABILITY OF SPARE FIBER TO BE COORDINATED WITH OIT.
5. PROVIDE NEW PDU TO POWER NEW RACK EQUIPMENT IN TELECOM ROOM.

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BID DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Bicsi JAMES V EZEKIEL BICSI ID# 290762 EXPIRES 12-31-24 RCDD

NORTH CAROLINA PROFESSIONAL SEAL 36876 ENGINEER GARRETT R. GOSSETT 7/24/2024

PROJECT MANAGER

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 1A-ACRE FIFTH AND SIXTH FLOOR SECURITY PLAN

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

VA PROJECT NUMBER: 626-22-103

Building Number: # ACRE

Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212

Approved

Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS

Drawing Number: T-107

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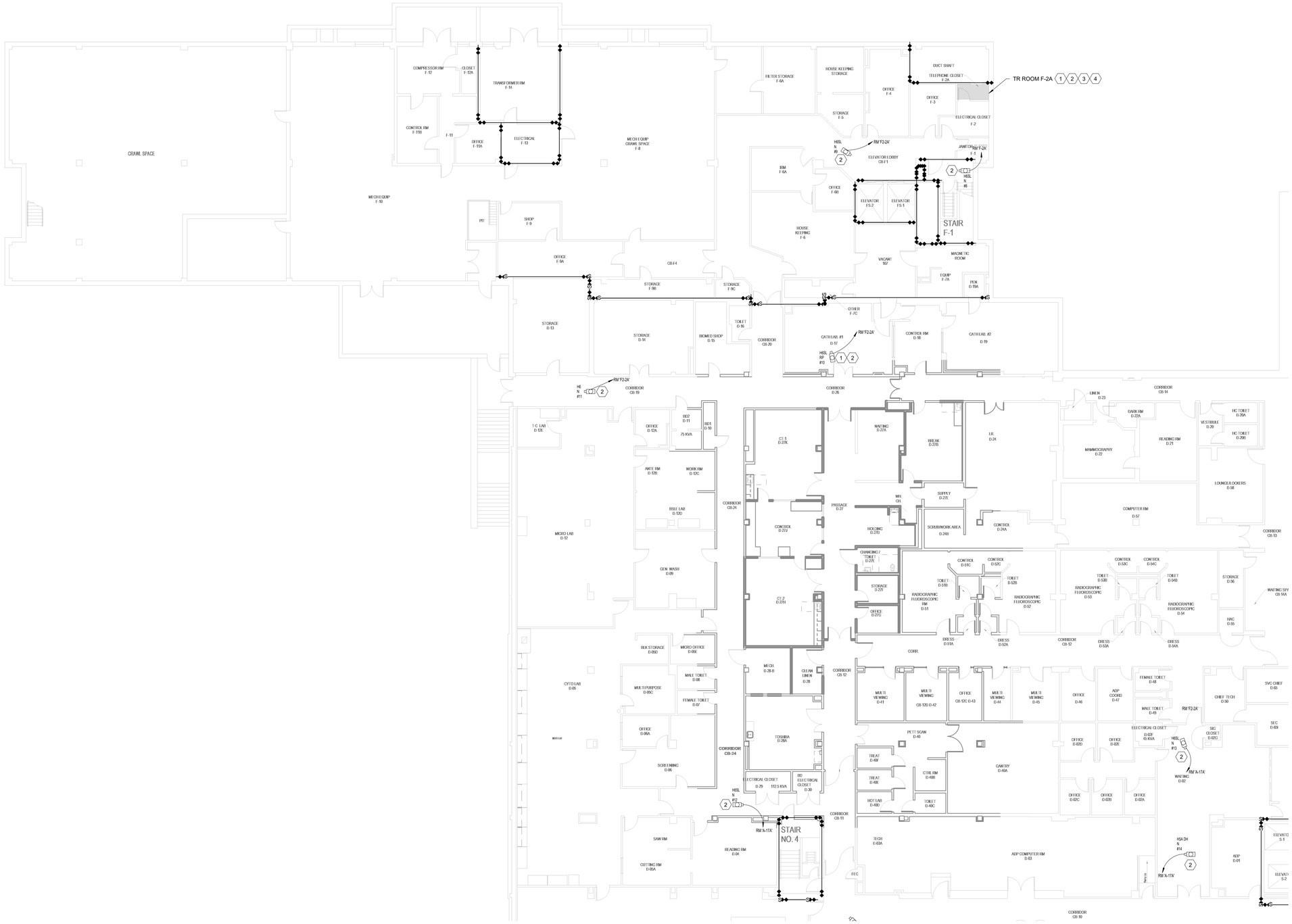

1 BUILDING 1 & 1A-ACRE BASEMENT SECURITY PLAN

Scale: 3/32" = 1'-0"

0 4 8 16

NORTH

SHEET NOTES:

A. REFERENCE SHEET TS101 FOR EXTERIOR CAMERA LOCATIONS.

B. ALL EXISTING CONDITIONS ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF SURVEY.

C. NEW CCTV CABLING TO BE RUN ON J-HOOKS 2' OC ABOVE CEILING IN CORRIDORS.

D. ALL CONDUIT SHALL BE 3/4" MINIMUM. EC TO SIZE CONDUIT. PER THE MOST CURRENT EDITION OF THE NEC.

E. WHERE LENGTH FROM CAMERA TO RACK EQUIPMENT EXCEED 295' (90M) CONTRACTOR SHALL USE FIBER OPTIC CABLE.

F. COORDINATE AND CONFIRM ALL ROUTING WITH COR PRIOR TO ROUGH-IN.

KEY NOTES:

1. REMOVE EXISTING CAMERAS AND CABLING BACK TO SOURCE. REPAIR/REPLACE EXISTING SURFACES AFFECTED BY REMOVAL OF CAMERA EQUIPMENT TO MATCH SIMILAR EXISTING CONDITIONS.
2. INSTALL NEW CAMERAS. PROVIDE NEW 4 PR UTP CABLING FROM CAMERA TO NEW POE SWITCH IN TELECOM ROOM. REPAIR/ REPLACE SURFACES AFFECTED BY CAMERA EQUIPMENT INSTALLATION TO MATCH SIMILAR/EXISTING CONDITIONS. CONTRACTOR TO REPLACE DAMAGED CEILING TILE AND GRID ASSOCIATED WITH WORK AT NO ADDITIONAL COST TO GOVERNMENT.
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4. ROUTE MMF FROM TELECOM ROOM TO RACKS IN A-140 DISPATCH. AVAILABILITY OF SPARE FIBER TO BE COORDINATED WITH OIT.

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BID DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Bicsi JAMES V EZEKIEL BICSI ID# 290762 EXPIRES 12-31-24 RCDD

NORTH CAROLINA PROFESSIONAL SEAL 36876 ENGINEER GARRETT R. GOSSETT 7/24/2024

PROJECT MANAGER

ACG Project Number 22-215N

APOGEE Engineers | Architects

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 1 & 1A-ACRE BASEMENT SECURITY PLAN - AREA A

Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

Approved

Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS

VA PROJECT NUMBER 626-22-103

Building Number # 1

Drawing Number T-401A

Dwg 10 of 29

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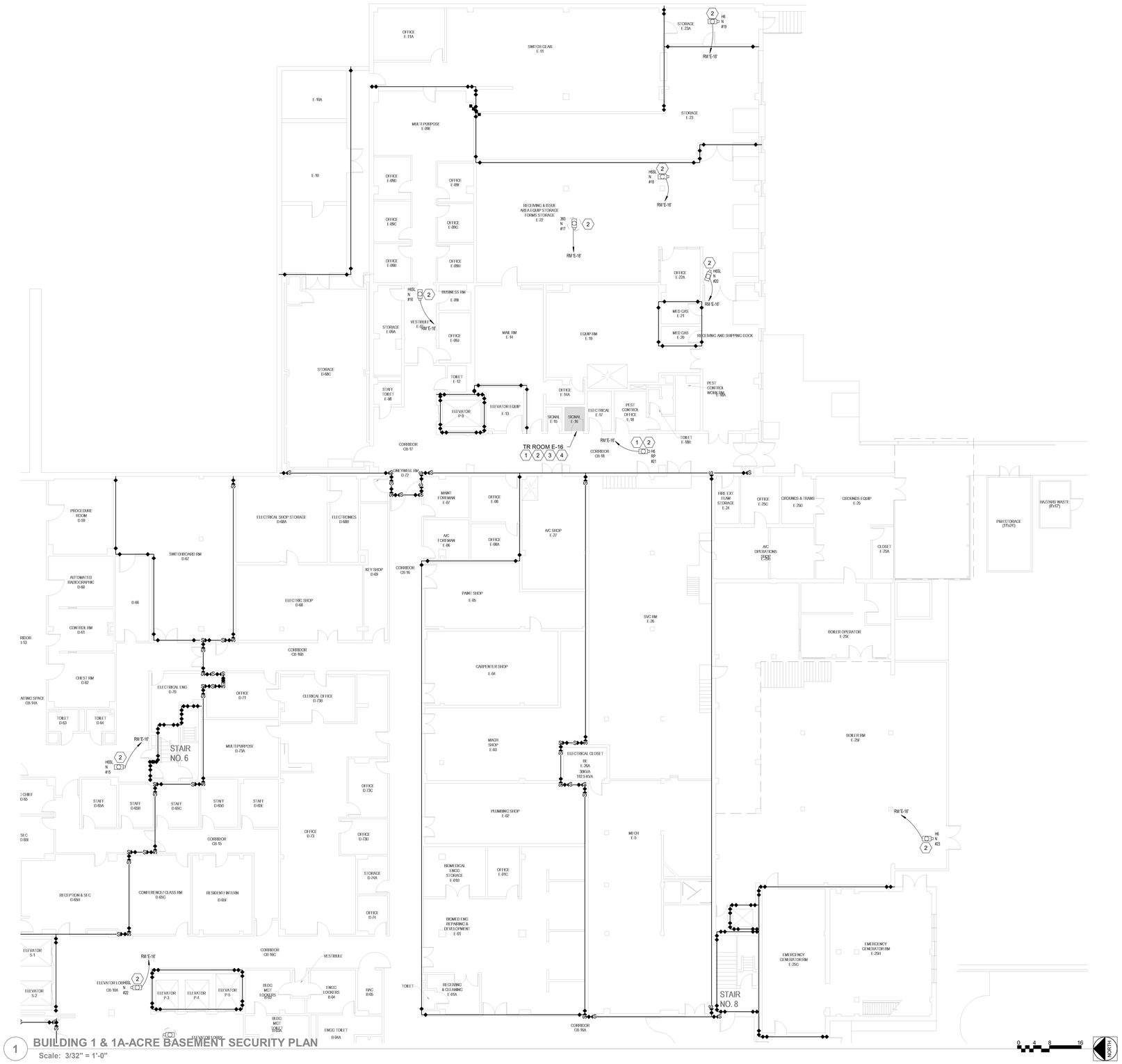

1 BUILDING 1 & 1A-ACRE BASEMENT SECURITY PLAN
Scale: 3/32" = 1'-0"

SHEET NOTES:

A. REFERENCE SHEET TS101 FOR EXTERIOR CAMERA LOCATIONS.

B. ALL EXISTING CONDITIONS ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF SURVEY.

C. NEW CCTV CABLING TO BE RUN ON J-HOOKS 2' OC ABOVE CEILING IN CORRIDORS.

D. ALL CONDUIT SHALL BE 3/4" MINIMUM. EC TO SIZE CONDUIT. PER THE MOST CURRENT EDITION OF THE NEC.

E. WHERE LENGTH FROM CAMERA TO RACK EQUIPMENT EXCEED 295' (90M) CONTRACTOR SHALL USE FIBER OPTIC CABLE.

F. COORDINATE AND CONFIRM ALL ROUTING WITH COR PRIOR TO ROUGH-IN.

KEY NOTES:

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BID DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
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BICSI ID# 290762
EXPIRES 12-31-24
RCDD

NORTH CAROLINA PROFESSIONAL SEAL 36876 ENGINEER GARRETT R. GOSSETT
7/24/2024

PROJECT MANAGER
ACG Project Number 22-215N

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VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 1 & 1A-ACRE BASEMENT SECURITY PLAN - AREA B
Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE
VA PROJECT NUMBER: 626-22-103
Building Number: # 1
Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212
Approved:
Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS
Drawing Number: T-401B
Dwg 11 of 29

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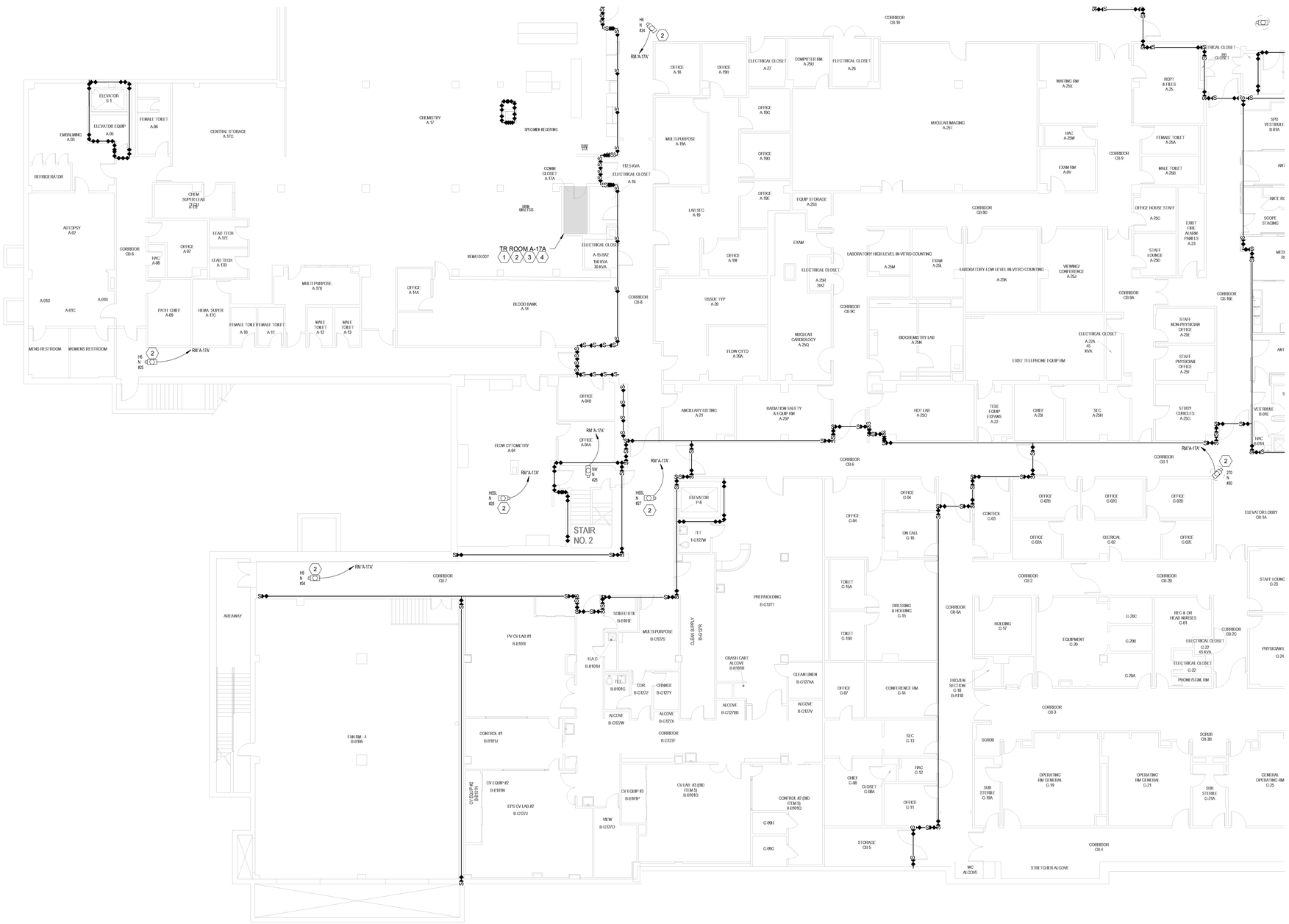

1 BUILDING 1 & 1A-ACRE BASEMENT SECURITY PLAN

Scale: 3/32" = 1'-0"

0 4 8 16

SHEET NOTES:

A. REFERENCE SHEET TS101 FOR EXTERIOR CAMERA LOCATIONS.

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#	Revisions:	Date

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 36876 GARRETT R. GOODRATT 7/24/2024

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ACG Project Number 22-215N

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Drawing Title: BUILDING 1 & 1A-ACRE BASEMENT SECURITY PLAN - AREA C

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

VA PROJECT NUMBER: 626-22-103

Building Number: # 1

Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212

Approved

Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS

Drawing Number: T-401C

Dwg 12 of 29

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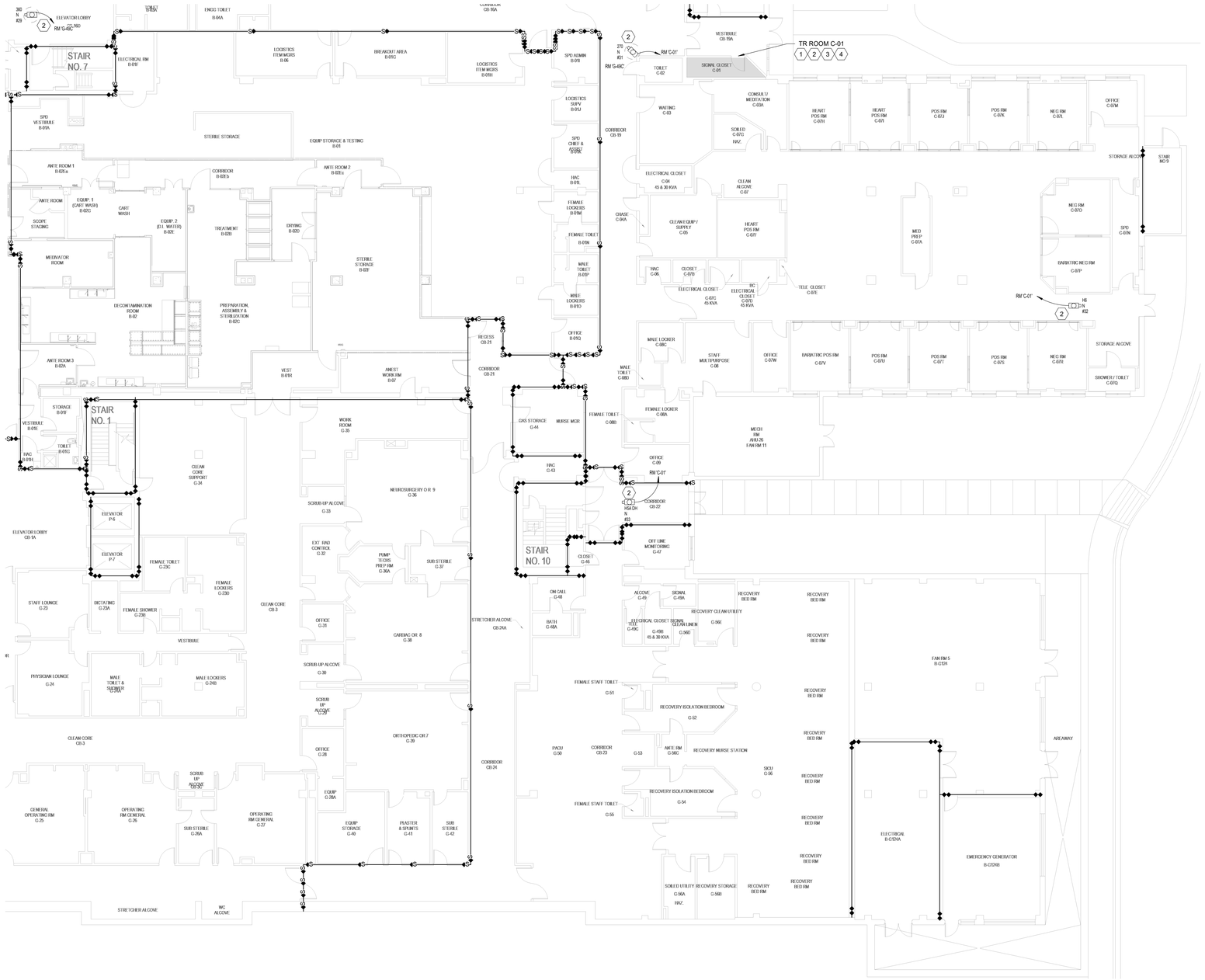

1 **BUILDING 1 & 1A-ACRE BASEMENT SECURITY PLAN**
Scale: 3/32" = 1'-0"

0 4 8 16

SHEET NOTES:

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#	Revisions:	Date

CONSULTANTS:

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BICSI ID# 290762
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NORTH CAROLINA PROFESSIONAL SEAL 36876 ENGINEER GARRETT R. GOSSETT
1/24/2024

PROJECT MANAGER

ACG Project Number 22-215N

APOGEE Engineers | Architects

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www.acg-pa.com 919-858-7420

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VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 1 & 1A-ACRE BASEMENT SECURITY PLAN - AREA D

Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

Approved

Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS

VA PROJECT NUMBER: 626-22-103

Building Number: # 1

Drawing Number: T-401D

Dwg 13 of 29

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1 **BUILDING 1 & 1A-ACRE FIRST FLOOR SECURITY PLAN**
Scale: 3/32" = 1'-0"

SHEET NOTES:

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BID DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
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JAMES V EZEKIEL
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EXPIRES 12-31-24
RCDD

NORTH CAROLINA PROFESSIONAL SEAL 36876 ENGINEER GARRETT R. GOSSETT
7/24/2024

PROJECT MANAGER
ACG Project Number 22-215N

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VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 1 & 1A-ACRE FIRST FLOOR SECURITY PLAN - AREA A

Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

Approved

Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS

VA PROJECT NUMBER 626-22-103
Building Number # 1
Drawing Number T-402A
Dwg 14 of 29

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1 BUILDING 1 & 1A-ACRE FIRST FLOOR SECURITY PLAN
Scale: 3/32" = 1'-0"

SHEET NOTES:

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#	Revisions:	Date

CONSULTANTS:

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
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BICSI ID# 290762
EXPIRES 12-31-24

NORTH CAROLINA PROFESSIONAL SEAL 36876 ENGINEER GARRETT R. GOSSETT
7/24/2024

PROJECT MANAGER
ACG Project Number 22-215N

APOGEE Engineers | Architects

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VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 1 & 1A-ACRE FIRST FLOOR SECURITY PLAN - AREA B

Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

Approved

Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS

VA PROJECT NUMBER 626-22-103

Building Number # 1

Drawing Number T-402B

Dwg 15 of 29

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1 **BUILDING 1 & 1A-ACRE FIRST FLOOR SECURITY PLAN**
Scale: 3/32" = 1'-0"

SHEET NOTES:

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5. PROVIDE NEW PDU TO POWER NEW RACK EQUIPMENT IN TELECOM ROOM.

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#	Revisions:	Date

CONSULTANTS:

INSTRUCTED COMMUNICATIONS DISTRIBUTION DESIGNER
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JAMES V EZEKIEL
BICSI ID# 290762
EXPIRES 12-31-24

NORTH CAROLINA PROFESSIONAL SEAL 36876 ENGINEER GARRETT R. GOSSETT
7/24/2024

PROJECT MANAGER

ACG Project Number 22-215N

APOGEE Engineers | Architects

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Cary, North Carolina 27511

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VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 1 & 1A-ACRE FIRST FLOOR SECURITY PLAN - AREA C

Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

VA PROJECT NUMBER: 626-22-103

Building Number: # 1

Approved

Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS

Drawing Number: T-402C

Dwg 16 of 29

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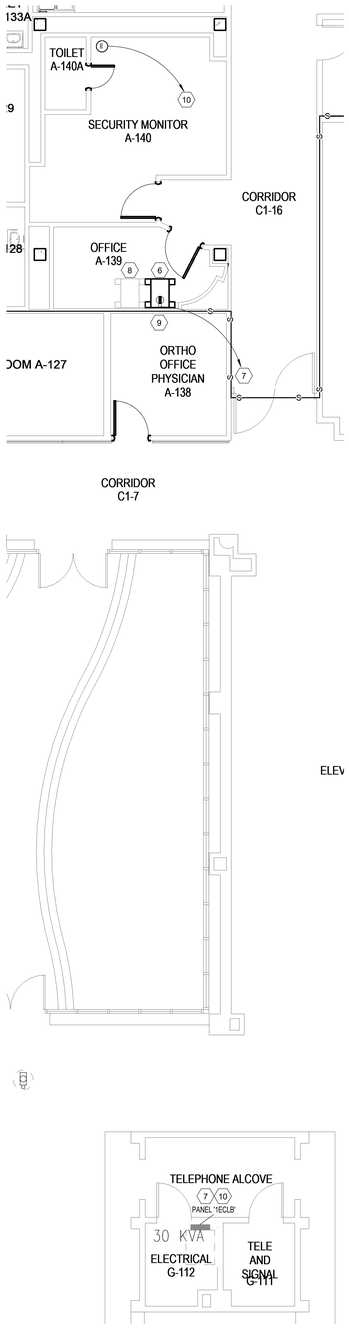
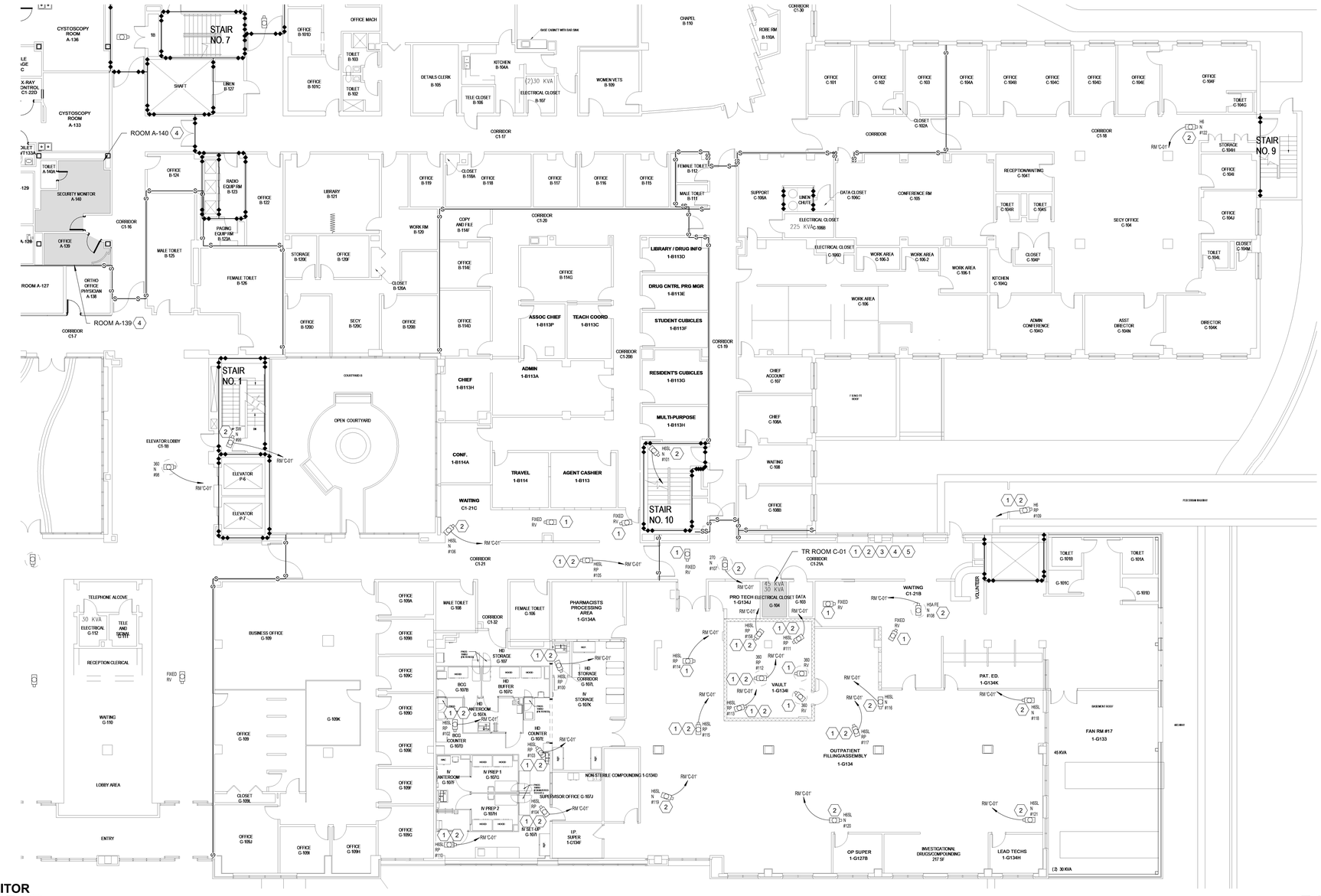


2 BUILDING 1 & 1A-ACRE FIRST FLOOR SECURITY MONITOR ENLARGED PLAN
Scale: 3/16" = 1'-0"



1 BUILDING 1 & 1A-ACRE FIRST FLOOR SECURITY PLAN
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5. PROVIDE NEW PDU TO POWER NEW RACK EQUIPMENT IN TELECOM ROOM.
6. NEW CCTV HEAD ENED EQUIPMENT TO BE MOUNTED IN NEW CABINET. COORDINATE LOCATION WITH COR.
7. PROVIDE 1P, 20A CIRCUIT BREAKER IN THE EXISTING 120/208V PANEL 1ECLB.
8. EXISTING STAND ALONE CCTV HEAD END EQUIPMENT TO BE REMOVED AFTER NEW SECURITY SYSTEM HAS BEEN INSTALLED AND TESTED. CABINET TO REMAIN.
9. PROVIDE POWER OUTLET FOR NEW CCTV EQUIPMENT. INSTALL POWER OUTLET WITHIN 5 FEET OF NEW UPS LOCATION.
10. PROVIDE 1P, 20A CIRCUIT BREAKER IN THE EXISTING 120/208V PANEL 1ECLB TO PROVIDE POWER FOR NEW AIR TERMINAL UNIT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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#	Revisions:	Date

CONSULTANTS:

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Bicsi JAMES V EZEKIEL BICSI ID# 290762 EXPIRES 12-31-24 RCDD

NORTH CAROLINA PROFESSIONAL SEAL 36876 ENGINEER GARRETT R. GOSSETT 7/24/2024

PROJECT MANAGER
ACG Project Number 22-215N

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VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 1 & 1A-ACRE FIRST FLOOR SECURITY PLAN - AREA D

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

VA PROJECT NUMBER: 626-22-103

Building Number: # 1

Location: NASHVILLE VAMC 1310 24TH AVENUE SOUTH NASHVILLE, TN 37212

Approved

Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS

Drawing Number: T-402D

Dwg 17 of 29

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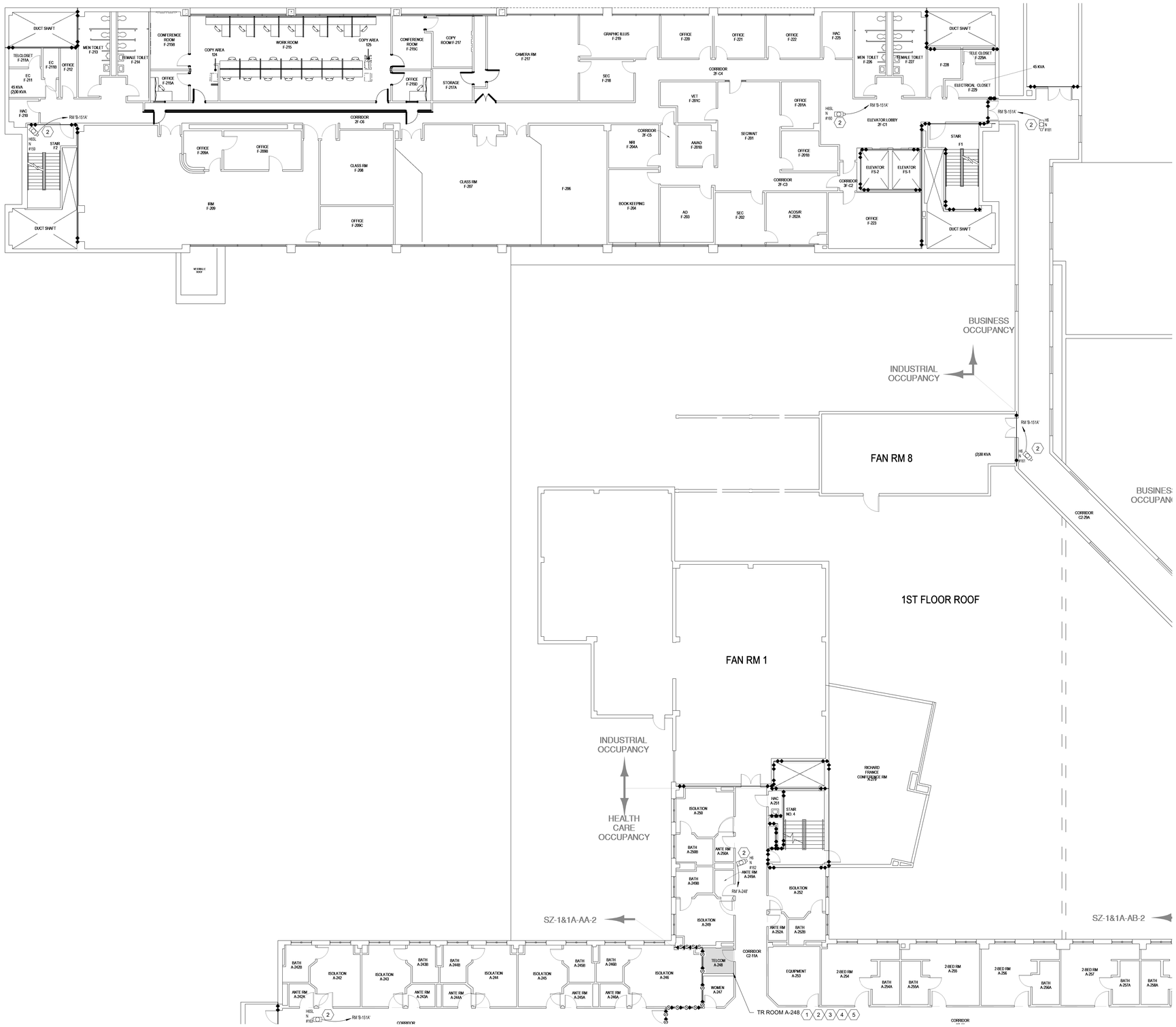

1 **BUILDING 1 & 1A-ACRE SECOND FLOOR SECURITY PLAN**
Scale: 3/32" = 1'-0"

SHEET NOTES:

A. REFERENCE SHEET TS101 FOR EXTERIOR CAMERA LOCATIONS.

B. ALL EXISTING CONDITIONS ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF SURVEY.

C. NEW CCTV CABLING TO BE RUN ON J-HOOKS 2' OC ABOVE CEILING IN CORRIDORS.

D. ALL CONDUIT SHALL BE 3/4" MINIMUM. EC TO SIZE CONDUIT. PER THE MOST CURRENT EDITION OF THE NEC.

E. WHERE LENGTH FROM CAMERA TO RACK EQUIPMENT EXCEED 295' (90M) CONTRACTOR SHALL USE FIBER OPTIC CABLE.

F. COORDINATE AND CONFIRM ALL ROUTING WITH COR PRIOR TO ROUGH-IN.

KEY NOTES:

1. REMOVE EXISTING CAMERAS AND CABLING BACK TO SOURCE. REPAIR/REPLACE EXISTING SURFACES AFFECTED BY REMOVAL OF CAMERA EQUIPMENT TO MATCH SIMILAR EXISTING CONDITIONS.
2. INSTALL NEW CAMERAS. PROVIDE NEW 4 PR UTP CABLING FROM CAMERA TO NEW POE SWITCH IN TELECOM ROOM. REPAIR/ REPLACE SURFACES AFFECTED BY CAMERA EQUIPMENT INSTALLATION TO MATCH SIMILAR/EXISTING CONDITIONS. CONTRACTOR TO REPLACE DAMAGED CEILING TILE AND GRID ASSOCIATED WITH WORK AT NO ADDITIONAL COST TO GOVERNMENT.
3. PROPOSED LOCATION OF NEW CISCO 9300 SWITCH AND PATCH PANEL. VERIFY LOCATION WITH COR AND OIT REPRESENTATIVE.
4. ROUTE MMF FROM TELECOM ROOM TO RACKS IN A-140 DISPATCH. AVAILABILITY OF SPARE FIBER TO BE COORDINATED WITH OIT.
5. PROVIDE NEW PDU TO POWER NEW RACK EQUIPMENT IN TELECOM ROOM.

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BID DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Bicsi JAMES V EZEKIEL BICSI ID# 290762 EXPIRES 12-31-24 RCDD

NORTH CAROLINA PROFESSIONAL SEAL 36876 ENGINEER GARRETT R. GOSSETT 7/24/2024

PROJECT MANAGER

ACG Project Number 22-215N

APOGEE Engineers | Architects

Headquarters:
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Cary, North Carolina 27511
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 1 & 1A-ACRE SECOND FLOOR SECURITY PLAN - AREA A

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

VA PROJECT NUMBER: 626-22-103

Building Number: # 1

Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212

Approved

Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS

Drawing Number: T-403A

Dwg 18 of 29

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1 **BUILDING 1 & 1A-ACRE SECOND FLOOR SECURITY PLAN**
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FULLY SPRINKLERED
BID DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
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RCDD

NORTH CAROLINA PROFESSIONAL SEAL 36876 ENGINEER GARRETT R. GOSSETT
7/24/2024

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Drawing Title: BUILDING 1 & 1A-ACRE SECOND FLOOR SECURITY PLAN - AREA B

Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

Approved

Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS

VA PROJECT NUMBER: 626-22-103
Building Number: # 1
Drawing Number: T-403B
Dwg 19 of 29

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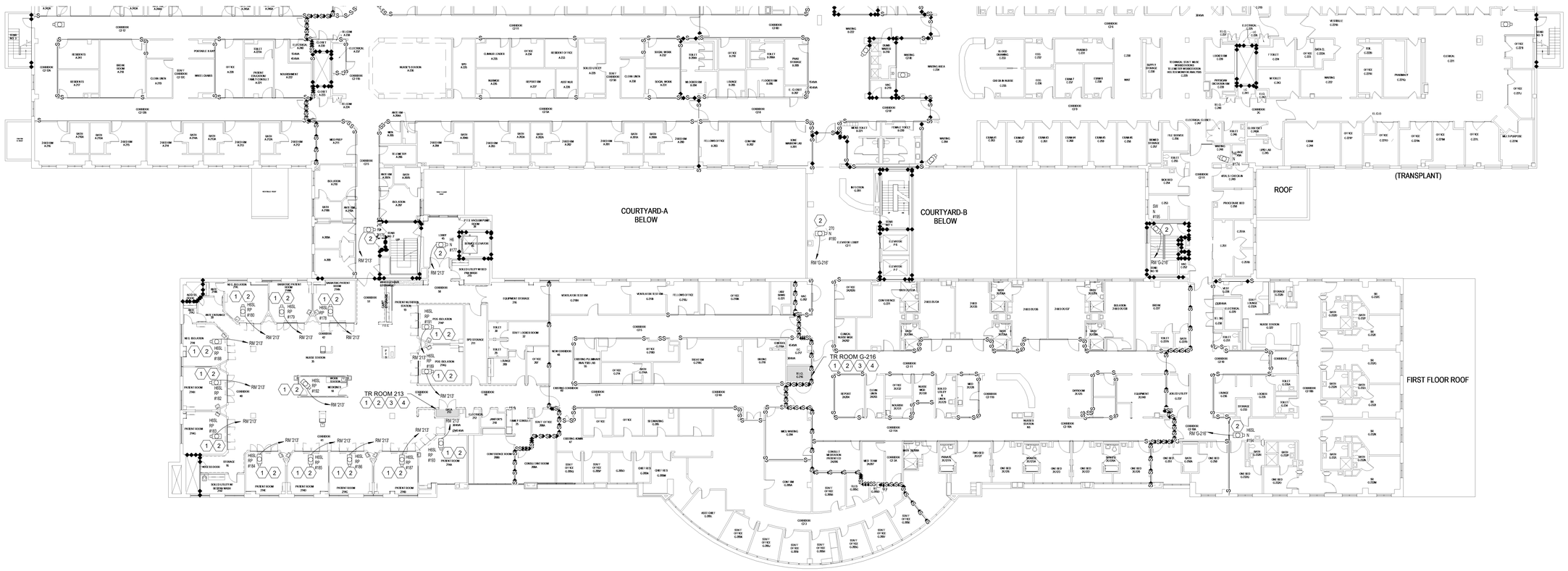

1 **BUILDING 1 & 1A-ACRE SECOND FLOOR SECURITY PLAN**
Scale: 1/16" = 1'-0"

0 8 16 32

NORTH

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CONSULTANTS:

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NORTH CAROLINA PROFESSIONAL SEAL 36876 ENGINEER GARRETT R. GOSSETT
7/24/2024

PROJECT MANAGER

ACG Project Number 22-215N

APOGEE Engineers | Architects

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VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 1 & 1A-ACRE SECOND FLOOR SECURITY PLAN - AREA C

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

VA PROJECT NUMBER: 626-22-103

Building Number: # 1

Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212

Approved

Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS

Drawing Number: T-403C

Dwg 20 of 29

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1 **BUILDING 1 & 1A-ACRE THIRD FLOOR SECURITY PLAN**

Scale: 3/32" = 1'-0"

SHEET NOTES:

A. REFERENCE SHEET TS101 FOR EXTERIOR CAMERA LOCATIONS.

B. ALL EXISTING CONDITIONS ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF SURVEY.

C. NEW CCTV CABLING TO BE RUN ON J-HOOKS 2' OC ABOVE CEILING IN CORRIDORS.

D. ALL CONDUIT SHALL BE 3/4" MINIMUM. EC TO SIZE CONDUIT. PER THE MOST CURRENT EDITION OF THE NEC.

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F. COORDINATE AND CONFIRM ALL ROUTING WITH COR PRIOR TO ROUGH-IN.

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BID DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
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JAMES V EZEKIEL
BICSI ID# 290762
EXPIRES 12-31-24
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 36876 GARRETT R. GOSSETT 7/24/2024

PROJECT MANAGER

ACG Project Number 22-215N

APOGEE Engineers | Architects

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VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 1 & 1A-ACRE THIRD FLOOR SECURITY PLAN - AREA A	Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE		VA PROJECT NUMBER 626-22-103
			Building Number # 1
Location: NASHVILLE VAMC 1310 24TH AVENUE SOUTH NASHVILLE, TN 37212	Approved		Drawing Number T-404A
	Date: JUNE 13, 2024	Checked: JVE	Drawn: LAS

Dwg 21 of 29

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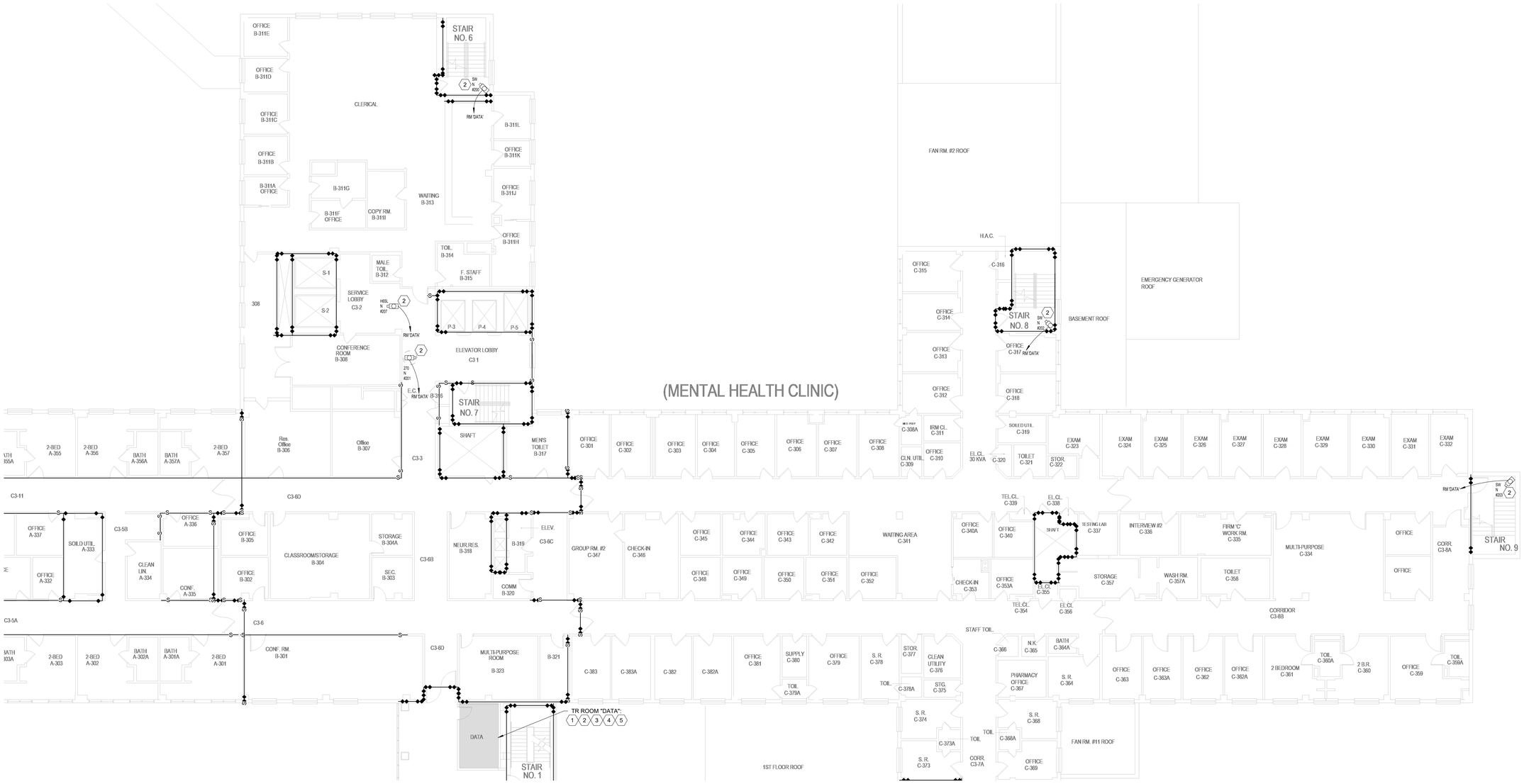

1 BUILDING 1 & 1A-ACRE THIRD FLOOR SECURITY PLAN

Scale: 3/32" = 1'-0"

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#	Revisions:	Date

CONSULTANTS:

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
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JAMES V EZEKIEL
BICSI ID# 290762
EXPIRES 12-31-24
RCDD

NORTH CAROLINA PROFESSIONAL SEAL 36876 ENGINEER GARRETT R. GOODRICH
7/24/2024

PROJECT MANAGER

ACG Project Number 22-215N

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Drawing Title: BUILDING 1 & 1A-ACRE THIRD FLOOR SECURITY PLAN - AREA B

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

VA PROJECT NUMBER: 626-22-103

Building Number: # 1

Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212

Approved

Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS

Drawing Number: T-404B

Dwg 22 of 29

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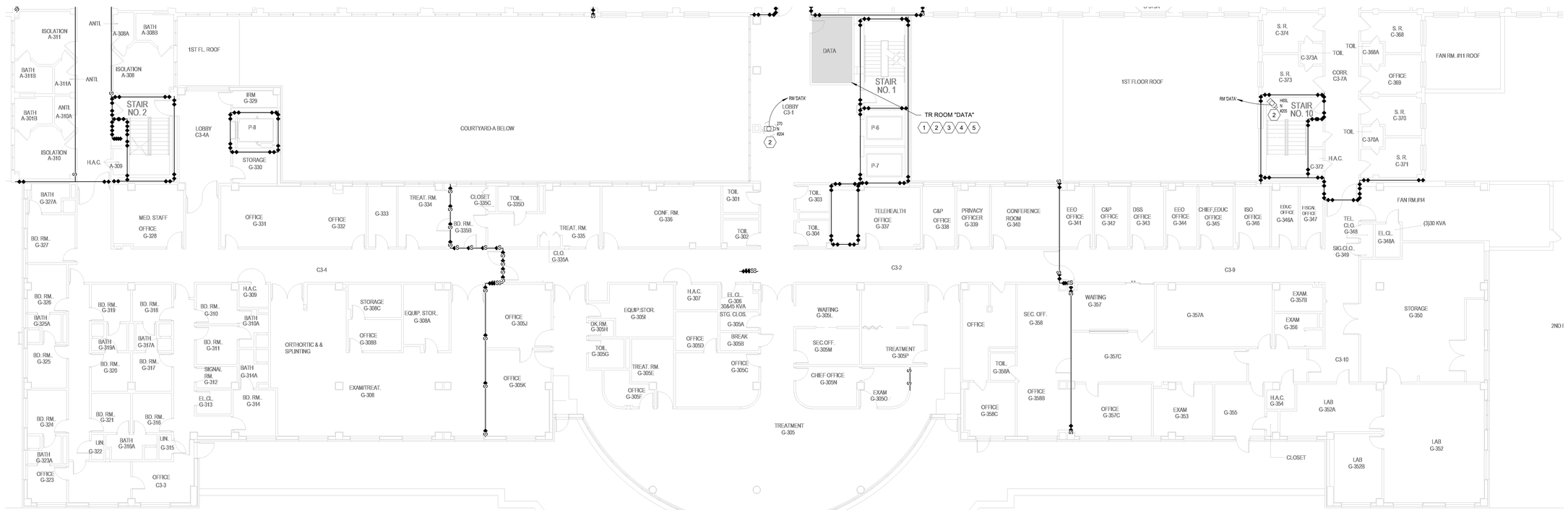

1 **BUILDING 1 & 1A-ACRE THIRD FLOOR SECURITY PLAN**

Scale: 3/32" = 1'-0"

0 4 8 16

NORTH

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NORTH CAROLINA PROFESSIONAL SEAL 36876 ENGINEER GARRETT R. GOSSETT
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VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 1 & 1A-ACRE THIRD FLOOR SECURITY PLAN - AREA C

Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

Approved

Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS

VA PROJECT NUMBER: 626-22-103

Building Number: # 1

Drawing Number: T-404C

Dwg 23 of 29

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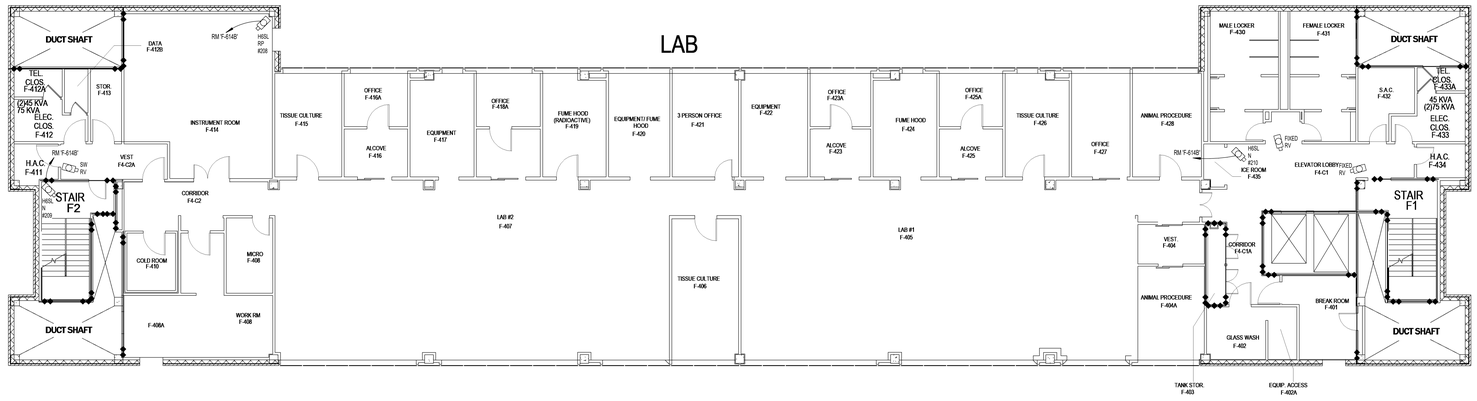

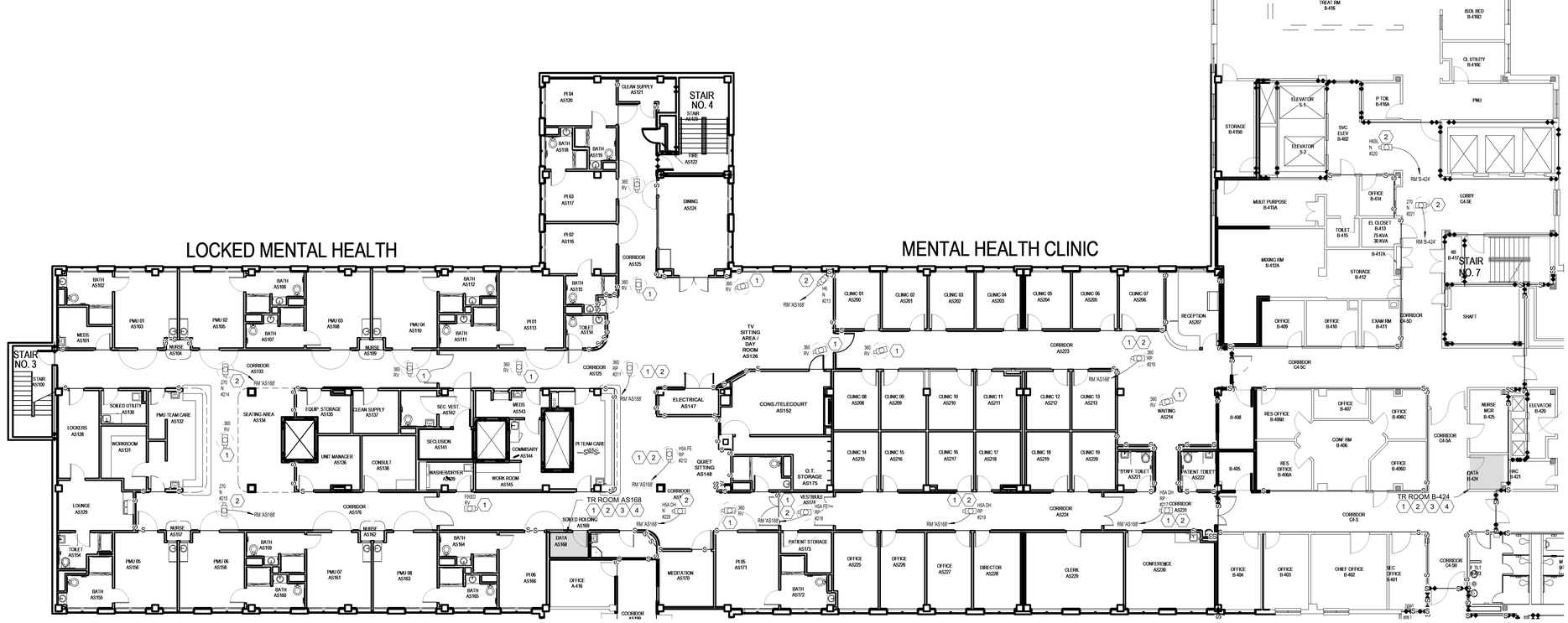

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1 **BUILDING 1 & 1A-ACRE FOURTH FLOOR SECURITY PLAN**
Scale: 3/32" = 1'-0"

0 4 8 16 NORTH

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CONSULTANTS:

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VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 1 & 1A-ACRE FOURTH FLOOR SECURITY PLAN - AREA B

Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

VA PROJECT NUMBER: 626-22-103
Building Number: #
Approved
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Drawing Number: T-405B
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TR ROOM AS168:
18 PR SPARE MMF
TR ROOM B-424:
ROOM C-449
COURTYARD-A BELOW
COURTYARD-B BELOW
1ST FLOR ROOF
STAIR NO. 1
STAIR NO. 2
STAIR NO. 10
ELEVATOR P-6
ELEVATOR P-7
ELEVATOR P-8
ELEVATOR G-407
LOBBY C4-1
CORRIDOR C4-3
CORRIDOR C4-1A
CORRIDOR C4-2
CORRIDOR C4-3A
CORRIDOR C4-6A
CORRIDOR C4-8
ELECTRICAL CLOSET G-407
(2)155 KVA
(2)20 KVA
E CLOSET G-447
MULTIPURPOSE G-419
RECEPTIONIST CLERK/ADP G-416
CONFERENCE RM G-409
CONFERENCE RM G-428
EXAM/TREAT C-481
EXAM/TREAT C-480
EXAM/TREAT C-478
EXAM/TREAT C-474
EXAM/TREAT C-473
EXAM/TREAT C-469
EXAM/TREAT C-469
EXAM/TREAT C-470
EXAM/TREAT C-471
EXAM/TREAT C-468
EXAM/TREAT C-477
EXAM/TREAT C-463
EXAM/TREAT C-462
EEG RM G-438
EMG RM G-439
CHIEF OFFICE C-451
SEC G-450
OFFICE G-449
EXAM G-448
CHIEF OFFICE G-412
SEC G-411
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MENS TOILET G-422
WOMENS TOILET G-423
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OFFICE C-442
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OFFICE B-403
OFFICE B-402
OFFICE B-401
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OFFICE A-415
OFFICE A-414
OFFICE A-413
OFFICE A-412
OFFICE A-411
OFFICE A-409
OFFICE A-410
OFFICE A-434
CORRIDOR AS224
CORRIDOR AS199
CORRIDOR C4-4D
CORRIDOR C4-5
CORRIDOR C4-6
CORRIDOR C4-8
CLERK AS209
CONFERENCE AS230
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OFFICE AS227
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CLINIC 18 AS219
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PATIENT TOILET AS222
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PI 96 AS166
PI 95 AS171
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RES OFFICE B-406A
RES OFFICE C-444
VIS FIELD TESTING 2 C-434A
RECEIP CLERKS C-438
SEC OFFICE C-441
CHIEF OFFICE C-442
EXAM C-477
EXAM C-463
EXAM C-462
EXAM C-469
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EXAM C-468
EXAM C-473
EXAM C-474
EXAM C-480
EXAM C-478
PHARM C-479
MED STO C-476
CLEAN UTILITY C-475
MED PREP C-475A
TLT C-477A
TLT C-480A
TLT C-466
TLT C-465
STO C-465A
RESTROOM C-462
OFFICE C-466
TOILET C-470A
TOILET C-468A
TOILET C-470B
TIL CL C-446
ELEC CL C-448
DATA C C-449
LAB C-450
LC C-447
HAC C-472
HAC C-452
HAC A-411
HAC G-421
RM A-410
RM A-416
RM A-415
RM A-414
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RM A-410
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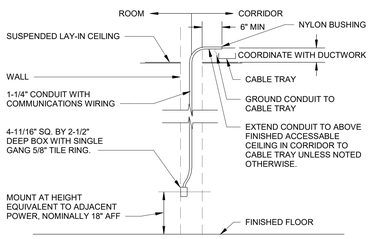
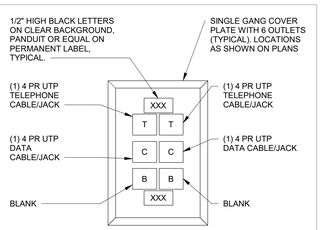


5 TELECOMMUNICATIONS OUTLET INSTALLATION DETAIL

Scale: No Scale



TELE/DATA (TYP.) (▼/4)

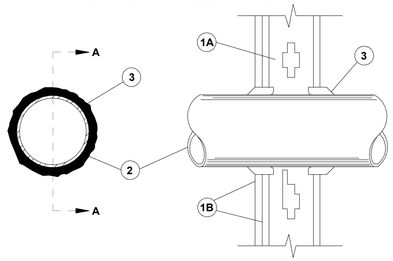
DETAIL NOTES:

A. ALL EQUIPMENT AND INSTALLATION SHALL BE APPROVED BY VAMC IT DEPARTMENT.

6 TELECOMMUNICATIONS FACEPLATES

Scale: No Scale

SYSTEM NO.W-L-1001
JUNE 15, 2005
F RATINGS - 1, 2, 3 AND 4 HR (SEE ITEMS 2 AND 3)
T RATINGS - 0, 1, 2, 3, AND 4 HR (SEE ITEM 3)
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT



SECTION A-A

1. WALL ASSEMBLY - THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 HR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC WITH NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE BY 1-3/8 IN. (35 MM) DEEP CHANNELS SPACED MAX 24 IN. (610 MM) OC.
B. GYPSUM BOARD* - NOM 1/2 OR 5/8 IN. (13 OR 16 MM) THICK, 4 FT. (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 26 IN. (660 MM).

2. THROUGH PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN. (0 MM) (POINT CONTACT) TO MAX 2 IN. (51 MM). PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
A. STEEL PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
B. IRON PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. (305 MM) DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
C. CONDUIT - NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING
D. COPPER TUBING - NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING
E. COPPER PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
F. THROUGH PENETRATING PRODUCT* - FLEXIBLE METAL PIPING - THE FOLLOWING TYPES OF STEEL FLEXIBLE METAL GAS PIPING MAY BE USED:

1. NOM 2 IN. (51 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

OMEGA FLEX INC

2. NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

TITEFLEX CORP
A BUNDY CO

3. NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

WARD MFG INC

3. FILL,VOID OR CAVITY MATERIAL* - CAULK OR SEALANT - MIN 5/8. 1-1/4,1-7/8 AND 2-1/2 IN. (16, 32, 48 AND 64 MM) THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL.
THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE.
THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

MAX PIPE OR CONDUIT DIAM IN. (mm)	F RATING HR	T RATING HR
1 (25)	1 OR 2	0+, 1 OR 2
1 (25)	3 OR 4	3 OR 4
4 (102)	1 OR 2	0
6 (152)	3 OR 4	0
12 (305)	1 OR 2	0

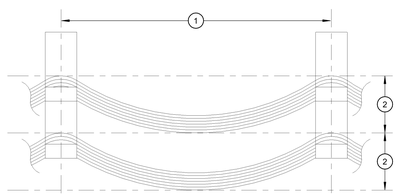
+WHEN COPPER PIPE IS USED, T RATING IS 0 HR.

3M COMPANY - CP 25WB+ CAULK OR FB-3000 WT SEALANT,

*BEARING THE UL CLASSIFICATION MARKING

3 UL PENETRATION DETAIL W-L-1001

Scale: No Scale



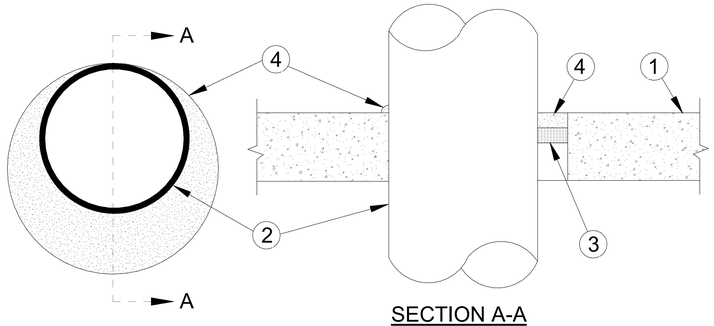
NOTES:

1. J-HOOKS TO BE LOCATED MAX 5' APART.
2. 1' MAX.

4 J-HOOK DETAIL

Scale: No Scale

System No. C-AJ-1001
June 15, 2005
F Rating - 3 Hr
T Rating - 0 Hr
W Rating - Class I (See Item 4)



SECTION A-A

1. FLOOR OR WALL ASSEMBLY - MIN 4-1/2 IN. (114 MM) THICK LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED **CONCRETE BLOCKS***. MAX DIAM OF CIRCULAR THROUGH OPENING IS 32-1/2 IN. (826 MM).

SEE **CONCRETE BLOCKS** (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

1A. STEEL SLEEVE (OPTIONAL, NOT SHOWN) - NOM 12 IN. (305 MM) DIAM (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE SLEEVE CAST INTO CONCRETE FLOOR OR WALL. SLEEVE TO BE FLUSH WITH OR PROJECT MAX 2 IN. (51MM) FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL.

2. THROUGH PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN. (0 MM)(POINT CONTACT) TO MAX 1-3/8 IN. (35 MM). PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

A. STEEL PIPE - NOM 30 IN. (762 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
A1. IRON PIPE - NOM 30 IN. (762 MM) DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
B. CONDUIT - NOM 6 IN. (152 MM) DIAM (OR SMALLER) RIGID STEEL CONDUIT.
C. CONDUIT - NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.

3. PACKING MATERIAL - POLYETHYLENE BACKER ROD OR NOM 1 IN. (25 MM) THICKNESS OF TIGHTLY-PACKED CERAMIC (ALUMINA SILICA) FIBER BLANKET. MINERAL WOOL BATT OR GLASS FIBER INSULATION MATERIAL USED AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF SOLID CONCRETE OR CONCRETE BLOCK WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM 4). AS AN ALTERNATE WHEN MAX PIPE SIZE IS 10 IN. (254 MM) DIAM AND WHEN MAX ANNULAR SPACE IS 1 IN. (25 MM), A MIN 1 IN. (25 MM) THICKNESS OF TIGHTLY-PACKED CERAMIC FIBER BLANKET OR MINERAL WOOL BATT PACKING MATERIAL MAY BE RECESSED MIN 1/2 IN. (13 MM) FROM BOTTOM SURFACE OF FLOOR OR FROM EITHER SIDE OF SOLID CONCRETE WALL.

4. FILL,VOID OR CAVITY MATERIALS* - CAULK OR SEALANT - APPLIED TO FILL THE ANNULAR SPACE TO THE MIN THICKNESS SHOWN IN THE FOLLOWING TABLE:

MAX PIPE DIAM IN. (MM)	MAX ANNULAR SPACE IN. (MM)	PACKING MATL TYPE (a)	MIN. CAULK THKNS IN. (MM)
10 (254)	1 (25)	BR, CF, GF OR MW	1/2 (13) (b)
10 (254)	1 (25)	CF OR MW	1/2 (13) (c)
30 (762)	2-1/2 (64)	BR, CF, GF OR MW	1 (25) (b)

(A) BR = POLYETHYLENE BACKER ROD.
CF = CERAMIC FIBER BLANKET.
GF = GLASS FIBER INSULATION.
MW = MINERAL-WOOL BATT.
(B) CAULK INSTALLED FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL.
(C) CAULK INSTALLED FLUSH WITH BOTTOM SURFACE OF FLOOR OR ONE SURFACE OF SOLID (NON- CONCRETE BLOCK) WALL.

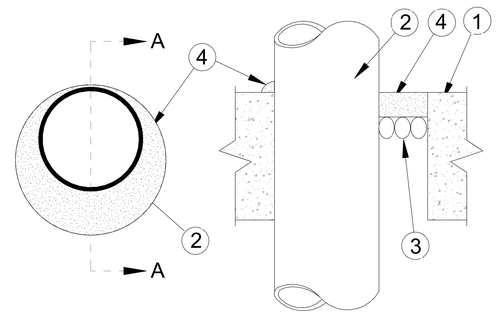
3M COMPANY - CP 25WB+ CAULK OR FB-3000 WT SEALANT.
(NOTE: W RATING APPLIES ONLY WHEN FB-3000 WT SEALANT IS USED.)

*BEARING THE UL CLASSIFICATION MARKING

1 UL PENETRATION DETAIL C-AJ-1001

Scale: No Scale

System No. C-AJ-1044
June 15, 2005
F Ratings - 2, 3, and 4 Hr (See Items 2A and 4)
T Rating - 0 Hr
L Rating At Ambient - 2 CFM/sq ft
L Rating At 400 F - less than 1 CFM/sq ft
W Rating - Class I (See Item 4)



SECTION A-A

1. FLOOR OR WALL ASSEMBLY - LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. EXCEPT AS NOTED IN TABLE UNDER ITEM 4, MIN THICKNESS OF SOLID CONCRETE FLOOR OR WALL ASSEMBLY IS 4-1/2 IN. (114 MM). FLOOR MAY ALSO BE CONSTRUCTED OF ANY MIN 6 IN. (152 MM) THICK UL CLASSIFIED HOLLOW CORE **PRECAST CONCRETE UNITS***. WHEN FLOOR IS CONSTRUCTED OF HOLLOW CORE PRECAST CONCRETE UNITS, PACKING MATERIAL (ITEM 3) AND CAULK FILL MATERIAL (ITEM 4) TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF FLOOR, FLUSH WITH FLOOR SURFACE. WALL ASSEMBLY MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED **CONCRETE BLOCKS***. MAX DIAM OF OPENING IS IN SOLID LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE. FLOOR IS 32 IN. (813 MM). MAX DIAM OF OPENING IN FLOOR CONSTRUCTED OF HOLLOW-CORE PRECAST CONCRETE UNITS IS 7 IN. (178 MM).

SEE **CONCRETE BLOCKS** (CAZT) AND **PRECAST CONCRETE UNITS** (CFTV) CATEGORIES IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

1A. STEEL SLEEVE (OPTIONAL, NOT SHOWN) - MAX 15 IN. (381 MM) ID (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAX OF 2 IN. (51 MM) ABOVE TOP OF FLOOR OR BEYOND EITHER SURFACE OF WALL. MAX 16 IN. (406 MM) ID (OR SMALLER) MIN 0.028 (0.71 MM) WALL THICKNESS (OR HEAVIER) GALVANIZED STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAX OF 1/2 IN. (13 MM) BEYOND EITHER SURFACE OF FLOOR OR WALL.

2. THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. MAX ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND EDGE OF THROUGH OPENING OR SLEEVE IS DEPENDENT ON THE PARAMETERS SHOWN IN ITEM 4. MIN ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF THROUGH OPENING IS 0 IN. (0 MM) (POINT CONTACT). PIPE CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

A. STEEL PIPE - NOM 30 IN. (762 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
B. IRON PIPE - NOM 30 IN. (762 MM) DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
C. CONDUIT - NOM 6 IN. (152 MM) DIAM (OR SMALLER) RIGID STEEL CONDUIT.
D. CONDUIT - NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
E. COPPER - TUBING NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBE.
F. COPPER PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

3. PACKING MATERIAL - POLYETHYLENE BACKER ROD OR NOM 1 IN. (25 MM) THICKNESS OF TIGHTLY-PACKED MINERAL WOOL BATT OR GLASS FIBER INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM 4).

4. FILL,VOID OR CAVITY MATERIAL* - CAULK OR SEALANT - APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH TOP SURFACE OF FLOOR, IN WALL ASSEMBLIES, REQUIRED CAULK THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL, FLUSH WITH WALL SURFACE. AT POINT CONTACT LOCATION BETWEEN PENETRANT AND SLEEVE OR BETWEEN PENETRANT AND CONCRETE, A MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK SHALL BE APPLIED AT TOP SURFACE OF FLOOR AND AT BOTH SURFACES OF WALL. THE HOURLY F RATINGS AND THE MIN REQUIRED CAULK THICKNESSES ARE DEPENDENT UPON A NUMBER OF PARAMETERS, AS SHOWN IN THE FOLLOWING TABLE:

MIN FLOOR OR WALL THKNS IN. (MM)	NOM PIPE TUBE OR CONDUIT DIAM IN. (MM)	MAX ANNULAR SPACE IN. (MM)	MIN. CAULK THKNS IN. (MM)	F RATING HR
2-1/2 (64)	1/2-12 (13-305)	1-3/8 (35)	1/2 (13)	2
2-1/2 (64)	1/2-12 (13-305)	3-1/4 (83)	1 (25)	2
4-1/2 (114)	1/2-6 (13-152)	1-3/8 (35)	1/4 (6) (a)	2
4-1/2 (114)	1/2-12 (13-305)	1-1/4 (32)	1/2 (13)	3
4-1/2 (114)	1/2-20 (13-508)	2 (51)	1 (25)	3
4-1/2 (114)	1/2-20 (13-508)	2 (51)	1 (25)	3
4-1/2 (114)	1/2-12 (13-305)	3-1/4 (83)	1 (25)	3
4-1/2 (114)	22-30 (558-762)	2 (51)	2 (51)	3
5-1/2 (140)	1/2-6 (13-152)	1-3/8 (35)	1 (25) (b)	4

(A)MIN 2 IN. (51 MM) THICKNESS OF MINERAL WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE.
(B)MIN 1 IN. (25 MM) THICKNESS OF MINERAL WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. MIN 1 IN. (25 MM) THICKNESS OF CAULK TO BE INSTALLED FLUSH WITH EACH SURFACE OF FLOOR OR WALL ASSEMBLY.

3M COMPANY - CP 25WB+ CAULK OR FB-3000 WT SEALANT. (NOTE: W RATING APPLIES ONLY WHEN FB-3000 WT SEALANT IS USED.)

*BEARING THE UL CLASSIFICATION MARKING

2 UL PENETRATION DETAIL C-AJ-1044

Scale: No Scale

FULLY SPRINKLERED
BID DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
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BICSI ID# 290762
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7/24/2024

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7/24/2024

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ACG Project Number 22-215N

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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY DETAILS
Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE
VA PROJECT NUMBER: 626-22-103
Building Number: #
Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212
Approved
Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS
Drawing Number: T-501
Dwg 27 of 29

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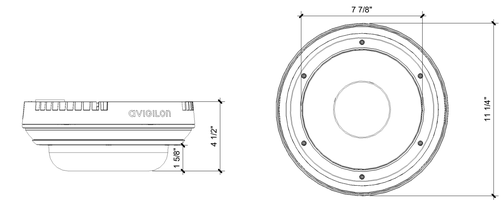
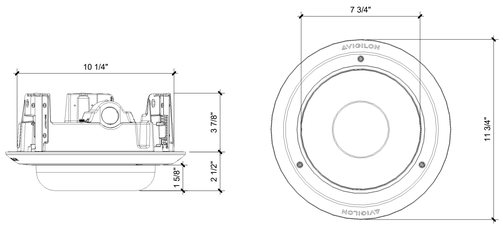


SURFACE MOUNT



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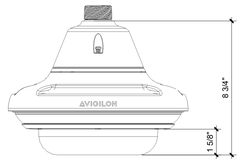
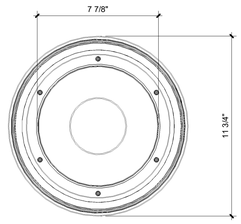
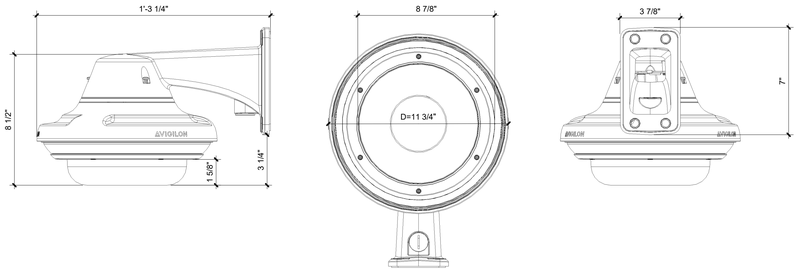




PENDANT MOUNT

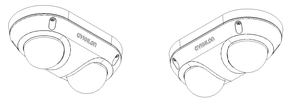


PENDANT ARM

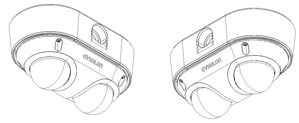
5 CAMERA H5A MH - DIMENSIONS - BASIS OF DESIGN

Scale: No Scale

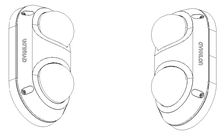
H5DH - Surface Mount - Ceiling



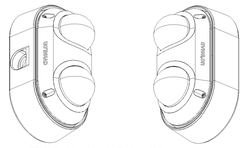
H5DH - Backbox Mount - Ceiling



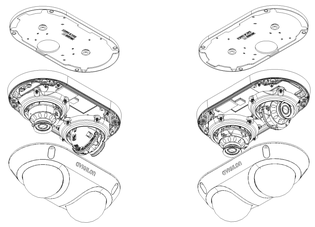
H5DH - Surfacel Mount - Wall



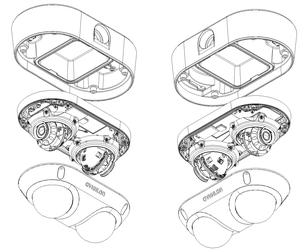
H5DH - Backbox Mount - Wall



H5DH - Wall Mount - Exploded View

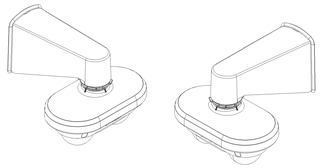


H5DH - Backbox Mount - Exploded View



H5DH - NPT Mount - Top View

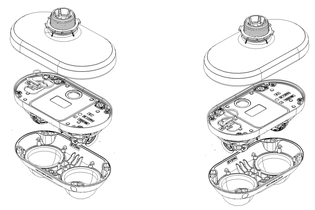
H5DH - Pendant Mount - Top View



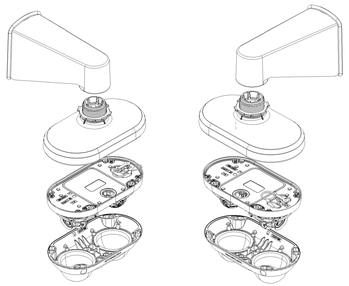
H5DH - NPT Mount - Bottom View

H5DH - Pendant Mount- Bottom View

H5DH - NPT Mount - Exploded View



H5DH - Pendant Mount- Exploded View



4 CAMERA H5A DH - ISOMETRIC - BASIS OF DESIGN

Scale: No Scale

P13 DOME - OUTDOOR SURFACE MOUNT ADAPTER

H4A VARIANTS
2.0C-H4A-DO1
2.0C-H4A-DO1-IR
2.0C-H4A-DO1-IR
2.0C-H4A-DO3-IR
4.0C-H4A-DO1
4.0C-H4A-DO1-IR
4.0C-H4A-DO1-IR
4.0C-H4A-DO3-IR
6.0C-H4A-DO1
6.0C-H4A-DO3
6.0C-H4A-DO1-IR
6.0C-H4A-DO3-IR
8.0C-H4A-DO1
8.0C-H4A-DO3
8.0C-H4A-DO1-IR
8.0C-H4A-DO3-IR

H4XF VARIANTS
4.0C-H4XF-DO1-IR-NA
4.0C-H4XF-DO1-IR-EU
4.0C-H4XF-DO2-IR-NA
4.0C-H4XF-DO2-IR-EU
8.0C-H4XF-DO1-IR-NA
8.0C-H4XF-DO1-IR-EU
8.0C-H4XF-DO2-IR-NA
8.0C-H4XF-DO2-IR-EU

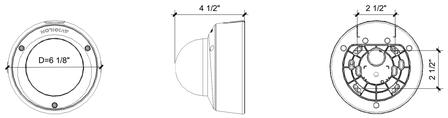
H4X VARIANTS
4.0C-H4X-DO1-IR
4.0C-H4X-DO2-IR
8.0C-H4X-DO1-IR
8.0C-H4X-DO2-IR

1 CAMERA H6A - DIMENSIONS - BASIS OF DESIGN

Scale: No Scale

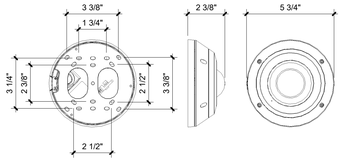
H6SL DOME - SURFACE MOUNT ADPATER

3.0C-H6SL-DO1-IR
5.0C-H6SL-DO1-IR
2.0C-H6SL-DO1-IR

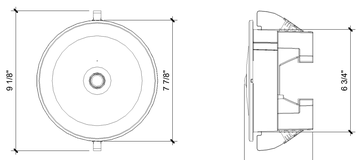


2 CAMERA H6SL - DIMENSIONS - BASIS OF DESIGN

Scale: No Scale



SURFACE MOUNT



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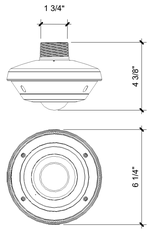

PENDANT MOUNT

3 CAMERA H5 FE - DIMENSIONS - BASIS OF DESIGN

Scale: No Scale

FULLY SPRINKLERED

BID DOCUMENTS

#	Revisions:	Date

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY DETAILS

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

VA PROJECT NUMBER: 626-22-103

Building Number: #

Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212

Approved

Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS

Drawing Number: T-502

Dwg 28 of 29

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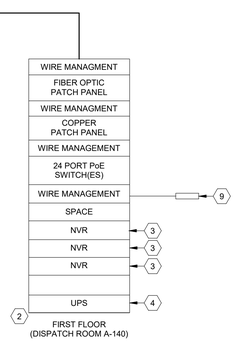
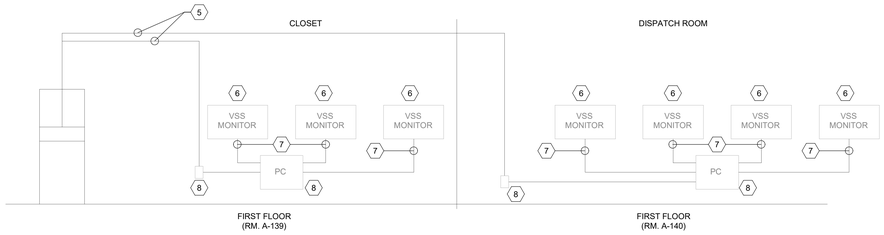


1 SSTV SYSTEM RISER DIAGRAM

Scale: No Scale



2 SSTV SYSTEM RISER DIAGRAM

Scale: No Scale

SHEET NOTES:

A. FIBER ROUTING SHOWN IS DIAGRAMMATIC TO INDICATE PROPOSED ROUTING. CONTRACTOR TO COORDINATE EXACT ROUTING IN FIELD WITH THE COR PRIOR TO ROUGH-IN.

B. CONTRACTOR SHALL FIELD COORDINATE ALL STUB UP LOCATIONS WITH COR AND FIELD CONDITIONS PRIOR TO ROUGH-IN.

C. PROVIDE FIRE-CAULK FOR ALL CONDUIT/CABLE PENETRATIONS THROUGH RATED WALLS AND/OR FLOORS.

D. SEE PROPOSED PHASING SCHEME, SHEET T-001, FOR ADDITIONAL INFORMATION.

E. VA TO PROVIDE PoE DATA SWITCH WITH 2-10 GIG UPLINK FOR ALL CCTV EQUIPMENT SHALL.

F. USE 4 PR UTP FOR CABLE RUNS OF LESS THAN 295 FEET.

G. USE FIBER FOR CABLE RUNS GREATER THAN 295 FEET.

H. ALL ELECTRICAL CONDUIT SHALL BE MINIMUM 3/4" CONDUIT. ALL 4 PAIR BALANCED TWISTED PAIR CONDUIT SHALL BE MINIMUM 1-1/4" CONDUIT.

KEY NOTES:

1 INCOMING MMF FIBER FROM TELECOM ROOMS ROUTED TO FIBER OPTIC PATCH PANEL IN SERVER RACK.

2 CCTV CABINET SHALL BE 44 Us - 23"W x 30"D - FRONT GLASS DOOR, QUIET FAN WITH FILTER, POWER STRIP SURGE PROTECTION WITH FILTER, VERTICAL GROUND BUS BAR, AND SHELVES.

3 AVIGILON (BASIS OF DESIGN) MODEL #NVR5-PRM-228TB--S19-NA INSTALLED IN NEW CCTV CABINET. NVR SHOULD INCLUDE 10G ETHERNET CONNECTION.

4 NEW SMT3000C UPS TO PROVIDE CONTINUITY OF POWER FOR RACK EQUIPMENT.

5 RUN CAT 6A CABLING FROM SPARE PORTS IN EXISTING SWITCH OR PATCH PANEL TO NEW TELECOMMUNICATIONS OUTLET.

6 NEW RACK EQUIPMENT TO CONNECT TO EXISTING VSS MONITORS VIA HDMI INPUTS. VSS MONITORS SHALL BE WALL MOUNTED IN POLICE DISPATCH. COORDINATE VSS MONITOR CONNECTIONS WITH COR AND POLICE.

7 VSS MONITOR SHALL HAVE HDMI INPUTS. PROVIDE DESK STAND FOR VSS MONITOR. COORDINATE VSS MONITOR CONNECTIONS WITH COR AND OIT REPRESENTATIVE.

8 UTILIZE EXISTING TELECOMMUNICATIONS OUTLET IN POLICE DISPATCH TO SERVE NEW MONITOR WORKSTATION - PC, KEYBOARD, MOUSE INCLUDED. COORDINATE WITH COR AND POLICE FOR PC LOCATION.

9 PROVIDE SLIDE OUT LAPTOP. LAPTOP SHALL HAVE 17" SCREEN.

FULLY SPRINKLERED

BID DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

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RCDD
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7/24/2024

PROJECT MANAGER

ACG Project Number 22-215N

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY RISERS

Project Title: VIDEO SURVEILLANCE SECURITY- NASHVILLE

VA PROJECT NUMBER: 626-22-103

Building Number: #

Location: NASHVILLE VAMC, 1310 24TH AVENUE SOUTH, NASHVILLE, TN 37212

Approved

Date: JUNE 13, 2024 | Checked: JVE | Drawn: LAS

Drawing Number: T-601

Dwg 29 of 29

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