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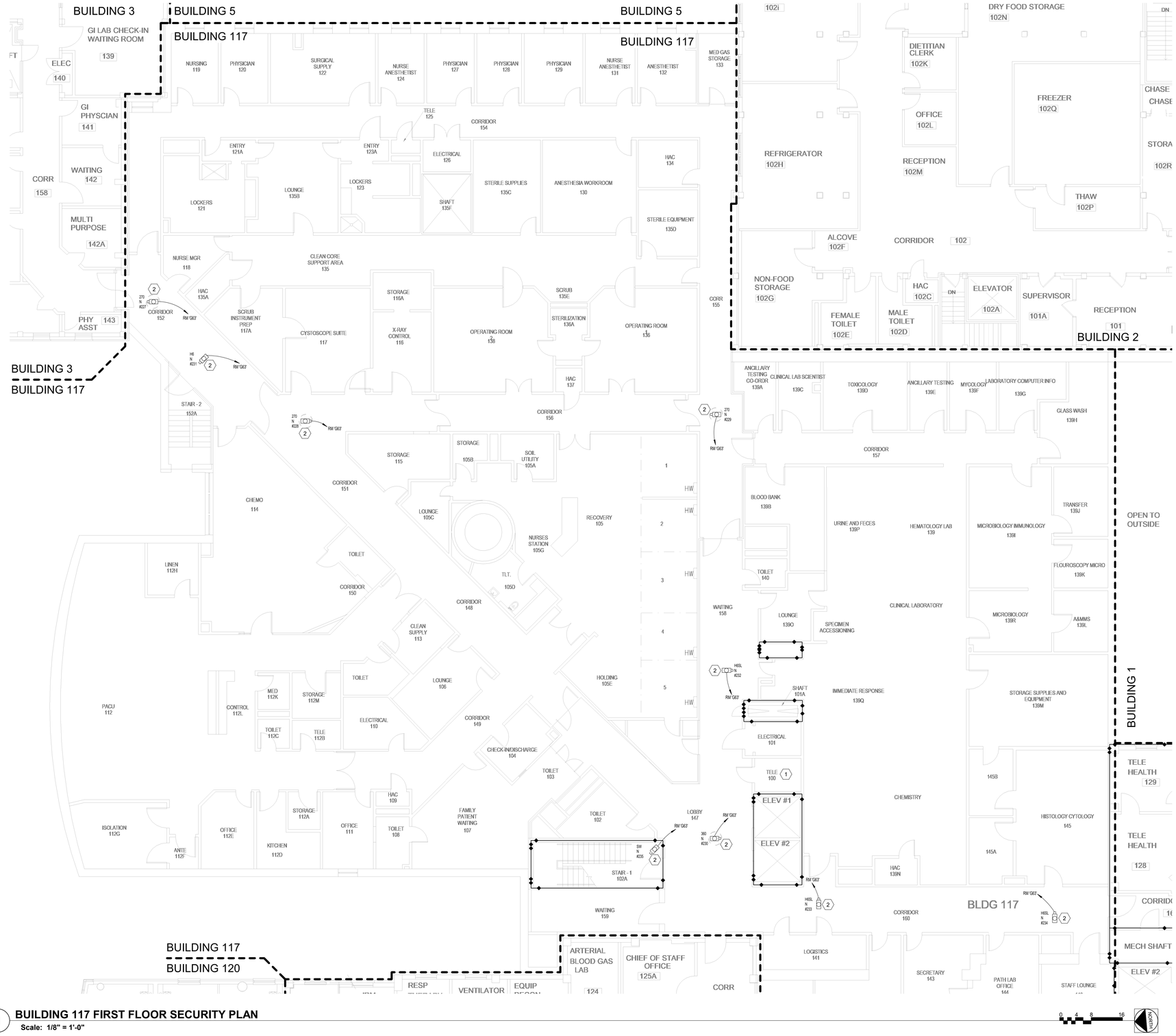


SHEET NOTES:

A. REFERENCE SHEET TS101 AND TS102 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. ELECTRICAL CONTRACTOR TO SIZE CONDUIT. PER THE MOST CURRENT EDITION OF THE NEC.

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

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

G. SEE SHEET G-100 FOR ICRA MEASURES.

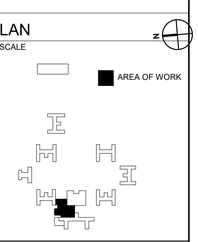
H. USE MOBILE CONTAINMENT CART (6/G-100) ALONG CORRIDORS.

KEY NOTES:

1 ROUTE UTP CABLING DOWN TO TELECOM ROOM.

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.

KEY PLAN
SCALE: NO SCALE



1 BUILDING 117 FIRST FLOOR SECURITY PLAN
Scale: 1/8" = 1'-0"

FULLY SPRINKLERED
BID DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
JAMES V EZEKIEL
BICSI ID# 250762
EXPIRES 12-31-24
RCDD

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

PROJECT MANAGER

ACG Project Number 22-215

APOGEE Engineers | Architects

Headquarters:
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 117 FIRST FLOOR SECURITY PLAN

Project Title: VIDEO SURVEILLANCE SECURITY YORK

VA PROJECT NUMBER: 626A4-22-104

Building Number: # 117

Location: ALVIN C. YORK CAMPUS 3400 LEBANON ROAD MURFREESBORO, TN 37129

Approved

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

Drawing Number: 117.T-102

Dwg 22 of 26

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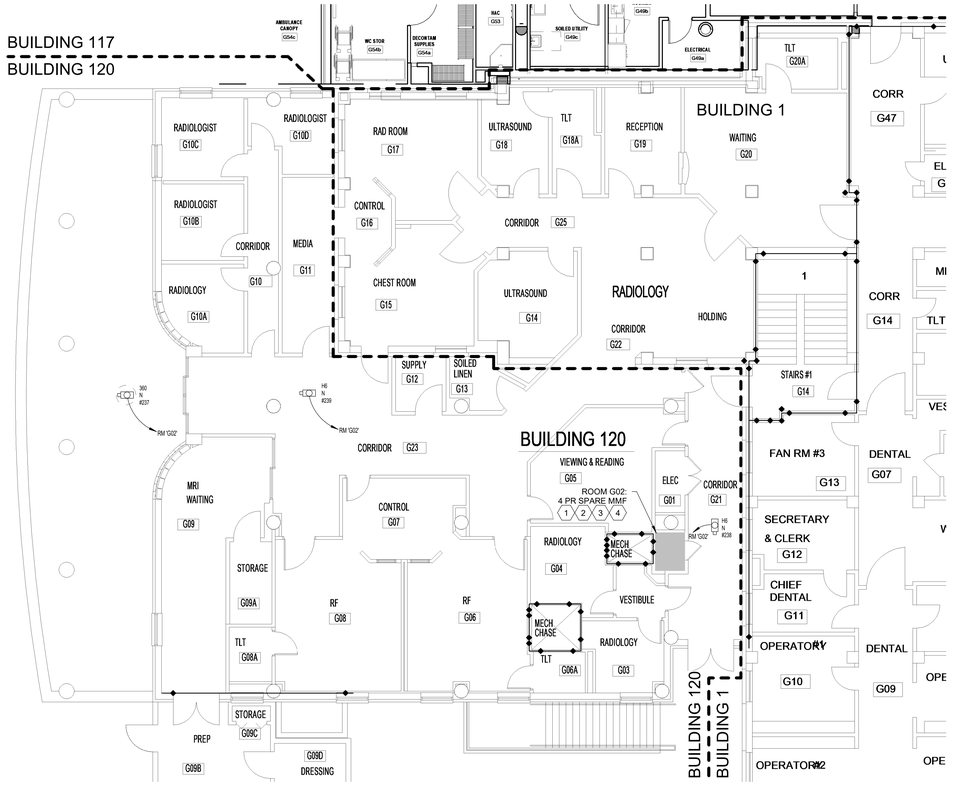


1 **BUILDING 120 GROUND FLOOR SECURITY PLAN**
Scale: 1/8" = 1'-0"

0 4 8 16 NORTH

SHEET NOTES:

A. REFERENCE SHEET TS101 AND TS102 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. ELECTRICAL CONTRACTOR TO SIZE CONDUIT. PER THE MOST CURRENT EDITION OF THE NEC.

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

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

G. SEE SHEET G-100 FOR ICRA MEASURES.

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

KEY NOTES:

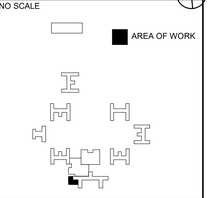
1 REMOVE EXISTING CAMERAS AND CABLING BACK TO SOURCE.

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 BUILDING 5 SERVER ROOM.

KEY PLAN
SCALE: NO SCALE



FULLY SPRINKLERED
BID DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
JAMES V EZEKIEL
BICSI ID# 250762
EXPIRES 12-31-24
RCDD

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

PROJECT MANAGER
ACG Project Number 22-215

APOGEE Engineers | Architects
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www.acg-pa.com 919-858-7420

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

Drawing Title: BUILDING 120 SECURITY PLANS
Location: ALVIN C. YORK CAMPUS 3400 LEBANON ROAD MURFREESBORO, TN 37129
Project Title: VIDEO SURVEILLANCE SECURITY YORK
Approved
Date: JUNE 13, 2024
Checked: JVE
Drawn: LAS
VA PROJECT NUMBER: 626A4-22-104
Building Number: # 120
Drawing Number: 120.T-101
Dwg 23 of 26

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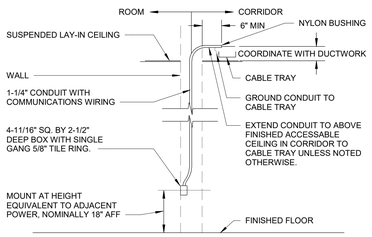
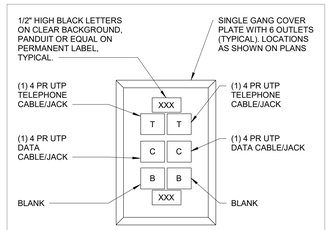


5 TELECOMMUNICATIONS OUTLET INSTALLATION DETAIL

Scale: No Scale



TELE/DATA (TYP.) (▼/4)

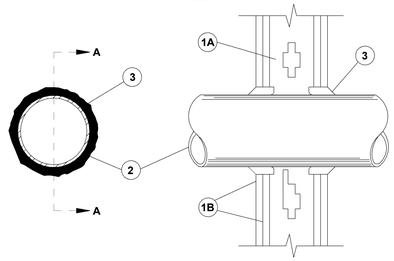
DETAIL NOTES:

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

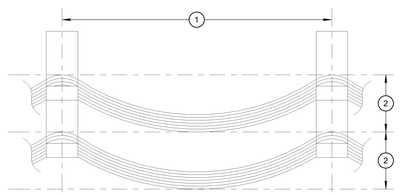
+WHEN COPPER PIPE IS USED, T RATING IS 0 HR.

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



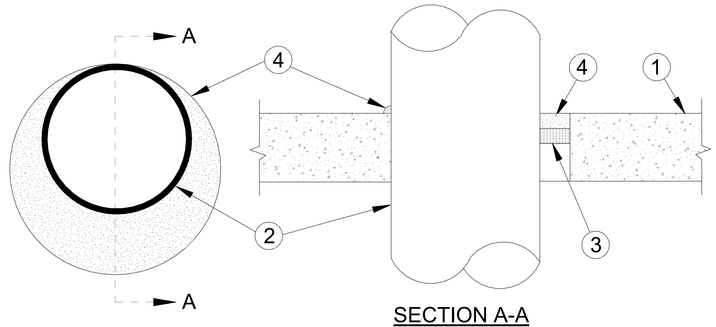
NOTES:

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.

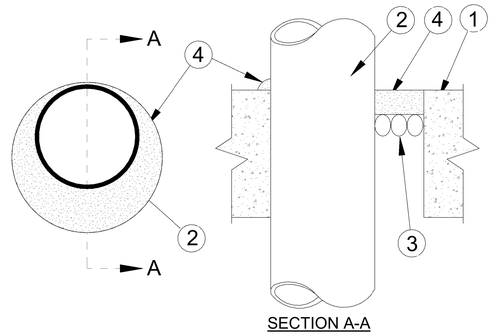
3M COMPANY - CP 25WB+ CAULK OR FB-3000 WT SEALANT.
(NOTE: W RATING APPLIES ONLY WHEN FB-3000 WT SEALANT IS USED.)

*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 — Bicsi — JAMES V EZEKIEL — BICSI ID# 250762 — EXPIRES 12-31-24

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

PROJECT MANAGER | ACG Project Number 22-215

APOGEE Engineers | Architects

Headquarters:
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1151 Kildaire Farm Road, Suite 120
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY DETAILS

Location: ALVIN C. YORK CAMPUS
3400 LEBANON ROAD
MURFREESBORO, TN 37129

Project Title: VIDEO SURVEILLANCE SECURITY YORK

Approved

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

VA PROJECT NUMBER: 626A4-22-104

Building Number: #

Drawing Number: T-501

Dwg 24 of 26

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VA FORM 08-6231

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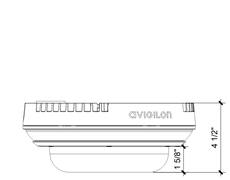
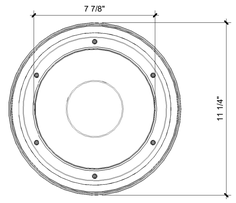
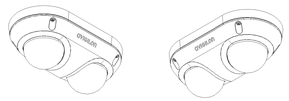


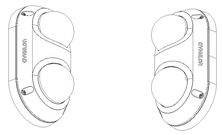


SURFACE MOUNT

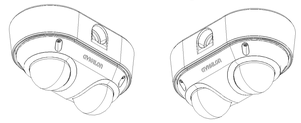
H5DH - Surface Mount - Ceiling



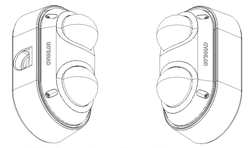
H5DH - Surface Mount - Wall

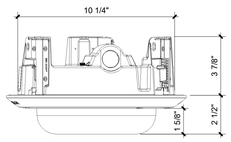


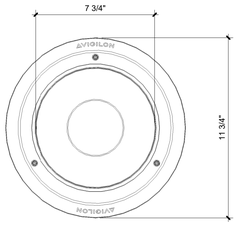
H5DH - Backbox Mount - Ceiling



H5DH - Backbox Mount - Wall

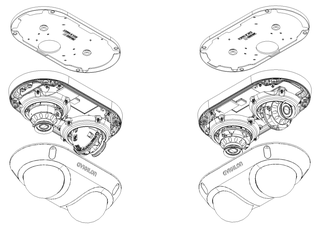




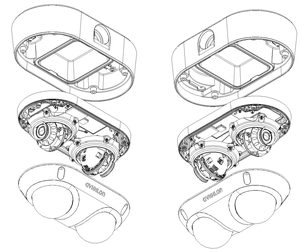


IN CEILING

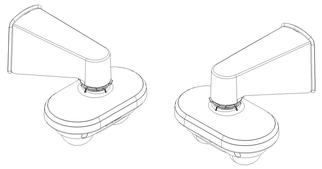
H5DH - Wall Mount - Exploded View

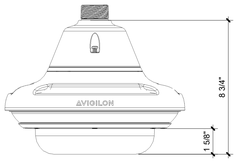


H5DH - Backbox Mount - Exploded View



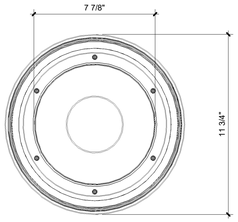
H5DH - Pendant Mount - Top View





H5DH - NPT Mount - Top View

H5DH - Pendant Mount- Bottom View

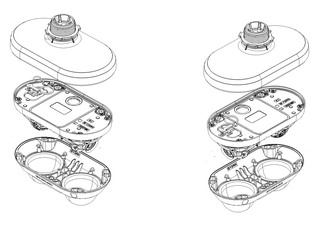


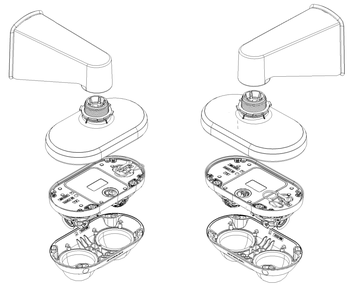
PENDANT MOUNT

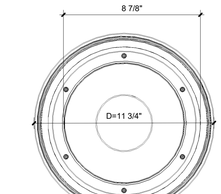
H5DH - NPT Mount - Bottom View

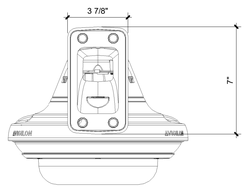
H5DH - Pendant Mount- Exploded View

H5DH - NPT Mount - Exploded View

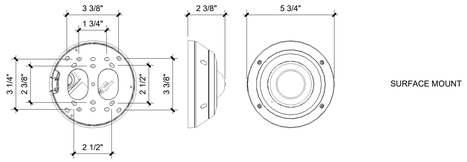




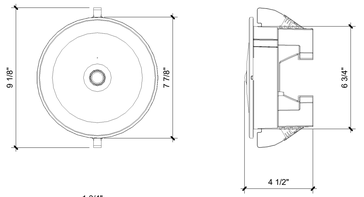




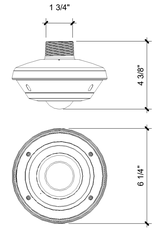
PENDANT ARM



SURFACE MOUNT



IN CEILING

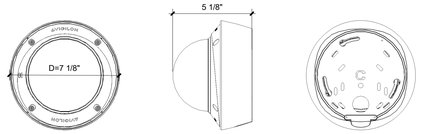


PENDANT MOUNT

1 CAMERA H5A MH - DIMENSIONS - BASIS OF DESIGN

Scale: N.T.S.

P13 DOME - OUTDOOR SURFACE MOUNT ADAPTER



H6A VARIANTS
2.0C-H6A-DO1
2.0C-H6A-DO2
2.0C-H6A-DO3-IR
2.0C-H6A-DO3-IR
4.0C-H6A-DO1
4.0C-H6A-DO2
4.0C-H6A-DO1-IR
4.0C-H6A-DO2-IR
4.0C-H6A-DO3-IR
4.0C-H6A-DO3
4.0C-H6A-DO2
4.0C-H6A-DO1-IR
4.0C-H6A-DO3-IR
8.0C-H6A-DO2
8.0C-H6A-DO3
8.0C-H6A-DO1-IR
8.0C-H6A-DO3-IR

H6XP VARIANTS
4.0C-H6XP-DO1-IR-NA
4.0C-H6XP-DO1-IR-EU
4.0C-H6XP-DO3-IR-NA
4.0C-H6XP-DO3-IR-EU
8.0C-H6XP-DO1-IR-NA
8.0C-H6XP-DO1-IR-EU
8.0C-H6XP-DO3-IR-NA
8.0C-H6XP-DO3-IR-EU

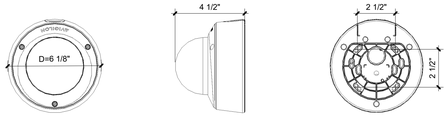
H6X VARIANTS
4.0C-H6X-DO1-IR
4.0C-H6X-DO3-IR
8.0C-H6X-DO1-IR
8.0C-H6X-DO3-IR

2 CAMERA H6A - DIMENSIONS - BASIS OF DESIGN

Scale: N.T.S.

H6SL DOME - SURFACE MOUNT ADPATER

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



3 CAMERA H6SL - DIMENSIONS - BASIS OF DESIGN

Scale: N.T.S.

4 CAMERA H5A MH - ISOMETRIC - BASIS OF DESIGN

Scale: N.T.S.

5 CAMERA H5A MH - DIMENSIONS - BASIS OF DESIGN

Scale: N.T.S.

FULLY SPRINKLERED
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. GOODSELL 7/24/2024

PROJECT MANAGER
ACG Project Number 22-215

APOGEE Engineers | Architects

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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: TECHNOLOGY DETAILS

Project Title: VIDEO SURVEILLANCE SECURITY YORK

VA PROJECT NUMBER: 626A4-22-104

Building Number: #

Location: ALVIN C. YORK CAMPUS
3400 LEBANON ROAD
MURFREESBORO, TN 37129

Approved:

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

Drawing Number: T-502

Dwg 25 of 26

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