



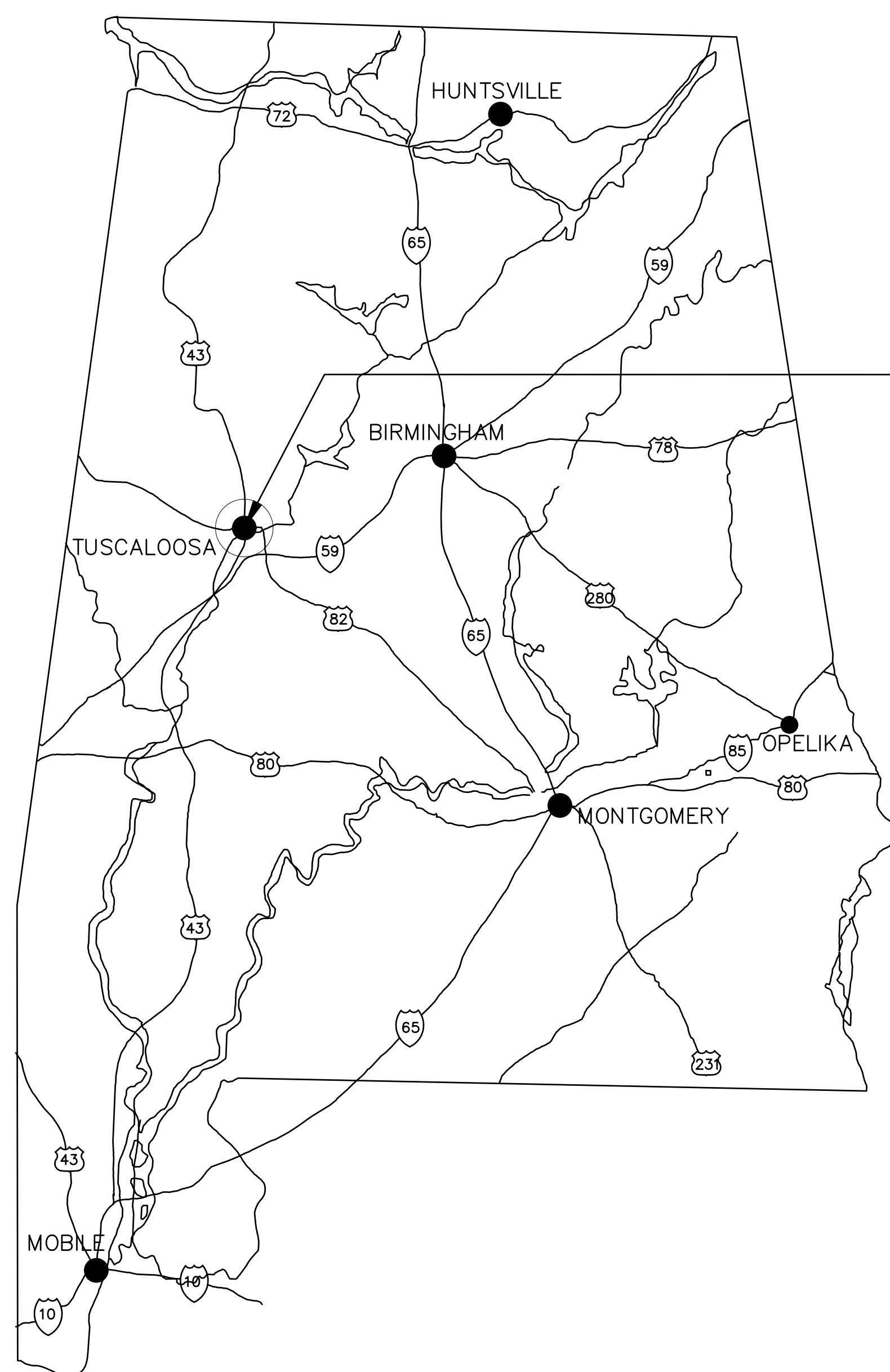
VA

U.S. Department of Veterans Affairs

TUSCALOOSA VA MEDICAL CENTER TUSCALOOSA, AL 35404

TELECOMMUNICATION NEW WORK

PROJECT # 679-20-104 EHRM INFRASTRUCTURE UPGRADES



VICINITY MAP
NTS



CAMPUS MAP
NTS

REVIEWER'S SIGNATURES	
_____	_____
MEDICAL CENTER DIRECTOR	DATE
_____	_____
SAFETY MANAGER	DATE
_____	_____
INFECTION CONTROL	DATE
_____	_____
ENERGY ENGINEER	DATE

6/4/2024 12:38:03 PM

Revisions:	Date:

CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	BRITT, PETERS & ASSOCIATES BRITT, PETERS & ASSOCIATES CONSULTING ENGINEERS 1435 West Morehead Street Suite 145 Charlotte, NC 28211 (704) 522-0489 www.brittpeters.com	ARCHITECT/ENGINEER OF RECORD Atriax GROUP www.atriaxgroup.com Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP TODD GINDREY REGISTERED ARCHITECT 19300 12/31/24 NORTH CAROLINA MATTHEWS, NC	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title COVER SHEET Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104 Building Number Drawing Number GI001



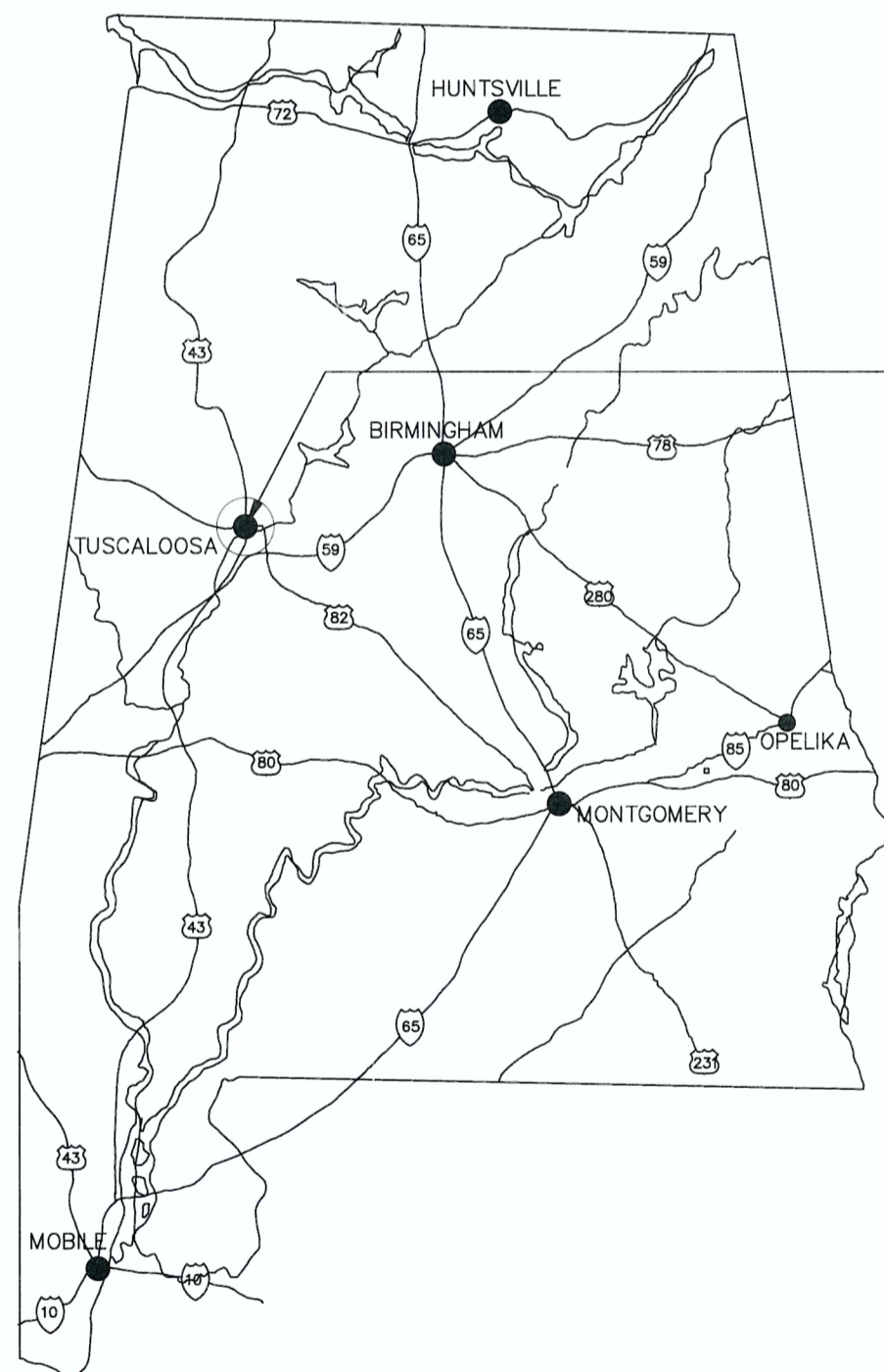
VA

**U.S. Department
of Veterans Affairs**

**TUSCALOOSA VA MEDICAL CENTER
TUSCALOOSA, AL 35404**

**TELECOMMUNICATION
NEW WORK**

**PROJECT # 679-20-104
EHRM INFRASTRUCTURE UPGRADES**



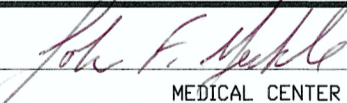
**PROJECT
VICINITY**

VICINITY MAP
NTS



CAMPUS MAP
NTS

0:14:2009 02:39:03 PM

REVIEWER'S SIGNATURES	
	7/23/24
MEDICAL CENTER DIRECTOR	DATE
HENRY HUDSON Digitally signed by HENRY HUDSON Date: 2024.07.19 13:47:32 -05'00'	
SAFETY MANAGER	DATE
JAMES HARDEMON Digitally signed by JAMES HARDEMON Date: 2024.07.17 07:43:13 -05'00'	
INFECTION CONTROL	DATE
GERALD BALLMAN Digitally signed by GERALD BALLMAN Date: 2024.07.17 16:09:46 -05'00'	
ENERGY ENGINEER	DATE

Revisions:	Date:

CONSULTANT

 WileyWilson
127 Nationwide Drive
Lynchburg, VA 24502
Phone: 434.947.1901
www.wileywilson.com

 **SPECIALIZED
ENGINEERING
SOLUTIONS**
Specialized Engineering Solutions
1300 Baxter Street, Suite 355
Charlotte, NC 28204

 **BRITT PETERS
ASSOCIATES**
1435 West Morehead Street
Charlotte, NC 28217
1-704-362-7868
www.britteters.com

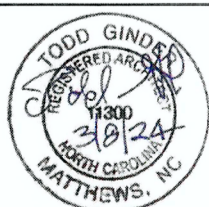
ARCHITECT/ENGINEER OF RECORD

 **Atriax**
GROUP
www.atriaxgroup.com

Atriax, pllc
703 Main Avenue SW
PO Box 1629, Hickory, NC 28603
Phone: 828.315.9962
Fax: 828.315.9964

NC Engineering License No.: P-0214
NC Architectural License No.: 51254


STAMP



**Office of
Construction
and Facilities
Management**

 U.S. Department
of Veterans Affairs

Drawing Title
COVER SHEET

Approved: Chief Engineer


Phase
**100% CONSTRUCTION
DOCUMENTS**

Project Title
**EHRM INFRASTRUCTURE
UPGRADES**

Location
TUSCALOOSA VAMC, TUSCALOOSA, AL

Issue Date
03/08/2024

Checked
TG

Drawn
MM/TR

Project Number
679-20-104

Building Number

Drawing Number
GI001

INDEX OF DRAWINGS

DWG.#	DRAWING TITLE	DWG.#	DRAWING TITLE	DWG.#	DRAWING TITLE	DWG.#	DRAWING TITLE
	<u>GENERAL</u>		<u>TELECOMMUNICATIONS CONT'D</u>		<u>TELECOMMUNICATIONS CONT'D</u>		
GI001	COVER SHEET	TN137.2	BUILDING 137 - LEVEL 02 - TELECOM	TN437	BLDG 137 - ENLARGED PLANS & ELEV. - TR H1-101C		
GI002	SHEET INDEX	TN137.2A	BUILDING 137 - LEVEL 02 - AREA A - TELECOM	TN438	BLDG 137 - ENLARGED PLANS & ELEV. - TR F1-104		
	<u>TELECOMMUNICATIONS</u>	TN137.2B	BUILDING 137 - LEVEL 02 - AREA B - TELECOM	TN439	BLDG 137 - ENLARGED PLANS & ELEV. - TR D1-107		
TG001	LEGEND ABBREVIATION AND GENERAL NOTES	TN137.2C	BUILDING 137 - LEVEL 02 - AREA C - TELECOM	TN440	BLDG 137 - ENLARGED PLANS & ELEV. - TR H2-103		
TG002	SITE PLAN - TELECOM	TN137.2D	BUILDING 137 - LEVEL 02 - AREA D - TELECOM	TN441	BLDG 137 - ENLARGED PLANS & ELEV. - TR F2-106		
TG003	SITE OSP CONNECTIVITY DIAGRAM	TN137.3	BUILDING 137 - LEVEL 03 - TELECOM	TN442	BLDG 137 - ENLARGED PLANS & ELEV. - TR D2-114		
TG004	SITE PLAN - TELECOM DUCT BANK	TN137.3A	BUILDING 137 - LEVEL 03 - AREA A - TELECOM	TN443	BLDG 137 - ENLARGED PLANS & ELEV. - TR H3-103		
TG004.A	PART SITE PLAN A - TELECOM	TN137.3B	BUILDING 137 - LEVEL 03 - AREA B - TELECOM	TN444	BLDG 137 - ENLARGED PLANS & ELEV. - TR F3-106		
TG004.B	PART SITE PLAN B - TELECOM	TN137.3C	BUILDING 137 - LEVEL 03 - AREA C - TELECOM	TN445	BLDG 137 - ENLARGED PLANS & ELEV. - TR D3-116		
TG004.C	PART SITE PLAN C - TELECOM	TN137.3D	BUILDING 137 - LEVEL 03 - AREA D - TELECOM	TN446	BLDG 137 - ENLARGED PLANS & ELEV. - TR J4-100		
TG004.D	PART SITE PLAN D - TELECOM	TN137.4	BUILDING 137 - LEVEL 04 - TELECOM	TN447	BLDG 137 - ENLARGED PLANS & ELEV. - TR B4-107		
TG004.E	PART SITE PLAN E - TELECOM	TN137.4A	BUILDING 137 - LEVEL 04 - AREA A - TELECOM	TN448	BLDG 137 - ENLARGED PLANS & ELEV. - TR F4-106		
TG004.F	PART SITE PLAN F - TELECOM	TN137.4B	BUILDING 137 - LEVEL 04 - AREA B - TELECOM	TN449	BLDG 138 - ENLARGED PLANS AND ELEV. - TR LVLG		
TG500	DETAILS	TN137.4C	BUILDING 137 - LEVEL 04 - AREA C - TELECOM	TN450	BLDG 143 - ENLARGED PLANS AND ELEV. - TR 42		
TG501	DETAILS	TN137.4D	BUILDING 137 - LEVEL 04 - AREA D - TELECOM	TN451	BLDG 145 - ENLARGED PLANS AND ELEV. - TR B34		
TG502	DETAILS	TN137.A	BUILDING 137 - ATTIC LEVEL - TELECOM	TN452	BLDG 145 - ENLARGED PLANS AND ELEV. - TR 129		
TG503	DETAILS	TN137.AA	BUILDING 137 - ATTIC LEVEL - AREA A - TELECOM	TN453	BLDG 146 - ENLARGED PLANS AND ELEV. - TR 100		
TG504	DETAILS	TN137.AB	BUILDING 137 - ATTIC LEVEL - AREA B - TELECOM	TN454	BLDG 147 - ENLARGED PLANS AND ELEV. - TR 100		
TN001.0	BUILDING 001 - GROUND LEVEL - TELECOM	TN137.AC	BUILDING 137 - ATTIC LEVEL - AREA C - TELECOM	TN455	BLDG 149 - ENLARGED PLANS AND ELEV. - TR 58		
TN001.1	BUILDING 001 - LEVEL 01 - TELECOM	TN137.AD	BUILDING 137 - ATTIC LEVEL - AREA D - TELECOM	TN456	BLDG 151 - ENLARGED PLANS AND ELEVATIONS		
TN001.2	BUILDING 001 - LEVEL 02 - TELECOM	TN138.0	BUILDING 138 - GROUND LEVEL - TELECOM	TN457	BLDG 151 - ENLARGED PLANS AND ELEVATIONS		
TN001.3	BUILDING 001 - LEVEL 03 - TELECOM	TN143.1	BUILDING 143 - LEVEL 01 - TELECOM	TN458	BLDG 151 - ENLARGED PLANS AND ELEVATIONS		
TN001.4	BUILDING 001 - LEVEL 04 - TELECOM	TN145.B	BUILDING 145 - BASEMENT LEVEL - TELECOM	TN601	RISER DIAGRAMS - BUILDING 001		
TN002.0	BUILDING 002 - GROUND LEVEL - TELECOM	TN145.1	BUILDING 145 - LEVEL 01 - TELECOM	TN602	RISER DIAGRAMS - BUILDING 002		
TN002.1	BUILDING 002 - LEVEL 01 - TELECOM	TN146.1	BUILDING 146 - LEVEL 01 - TELECOM	TN603	RISER DIAGRAMS - BUILDING 003		
TN002.2	BUILDING 002 - LEVEL 02 - TELECOM	TN146.A	BUILDING 146 - ATTIC LEVEL - TELECOM	TN604	RISER DIAGRAMS - BUILDING 004		
TN003.0	BUILDING 003 - GROUND LEVEL - TELECOM	TN147.1	BUILDING 147 - LEVEL 01 - TELECOM	TN605	RISER DIAGRAMS - BUILDING 005		
TN003.1	BUILDING 003 - LEVEL 01 - TELECOM	TN147.A	BUILDING 147 - ATTIC LEVEL - TELECOM	TN606	RISER DIAGRAMS - BUILDING 006		
TN003.2	BUILDING 003 - LEVEL 02 - TELECOM	TN149.1	BUILDING 149 - LEVEL 01 - TELECOM	TN607	RISER DIAGRAMS - BUILDING 012		
TN004.0	BUILDING 004 - GROUND LEVEL - TELECOM	TN149.1A	BUILDING 149 - LEVEL 01 - TELECOM - AREA A	TN608	RISER DIAGRAMS - BUILDING 017		
TN004.1	BUILDING 004 - LEVEL 01 - TELECOM	TN149.1B	BUILDING 149 - LEVEL 01 - TELECOM - AREA B	TN609	RISER DIAGRAMS - BUILDING 018		
TN005.B	BUILDING 005 - BASEMENT LEVEL - TELECOM	TN149.A	BUILDING 149 - ATTIC LEVEL - TELECOM	TN610	RISER DIAGRAMS - BUILDING 038		
TN005.1	BUILDING 005 - LEVEL 01 - TELECOM	TN149.AA	BUILDING 149 - ATTIC LEVEL - TELECOM - AREA A	TN611	RISER DIAGRAMS - BUILDING 039		
TN005.2	BUILDING 005 - LEVEL 02 - TELECOM	TN149.BB	BUILDING 149 - ATTIC LEVEL - TELECOM - AREA B	TN612	RISER DIAGRAMS - BUILDING 040		
TN006.B	BUILDING 006 - BASEMENT LEVEL - TELECOM	TN151.1	BUILDING 150 - GROUND LEVEL - TELECOM	TN613	RISER DIAGRAMS - BUILDING 041		
TN006.1	BUILDING 006 - LEVEL 01 - TELECOM	TN401	BLDG 001 - ENLARGED PLANS AND ELEV. - TR RM1	TN614	RISER DIAGRAMS - BUILDING 046		
TN006.2	BUILDING 006 - LEVEL 02 - TELECOM	TN402	BLDG 001 - ENLARGED PLANS AND ELEV. - TR 132	TN615	RISER DIAGRAMS - BUILDING 061		
TN012.B	BUILDING 012 - BASEMENT LEVEL - TELECOM	TN403	BLDG 001 - ENLARGED PLANS AND ELEV. - TR 236	TN616	RISER DIAGRAMS - BUILDING 063		
TN017.0	BUILDING 017 - GROUND LEVEL - TELECOM	TN404	BLDG 001 - ENLARGED PLANS AND ELEV. - TR 301D	TN617	RISER DIAGRAMS - BUILDING 135		
TN018.B	BUILDING 018 - BASEMENT LEVEL - TELECOM	TN405	BLDG 001 - ENLARGED PLANS AND ELEV. - TR 431	TN618	RISER DIAGRAMS - BUILDING 137		
TN018.1	BUILDING 018 - LEVEL 01 - TELECOM	TN406	BLDG 002 - ENLARGED PLANS AND ELEV. - TR 9	TN619	RISER DIAGRAMS - BUILDING 138		
TN038.0	BUILDING 038 - GROUND LEVEL - TELECOM	TN407	BLDG 002 - ENLARGED PLANS AND ELEV. - TR 116	TN620	RISER DIAGRAMS - BUILDING 143		
TN038.1	BUILDING 038 - LEVEL 01 - TELECOM	TN408	BLDG 002 - ENLARGED PLANS AND ELEV. - TR 216	TN621	RISER DIAGRAMS - BUILDING 145		
TN038.2	BUILDING 038 - LEVEL 02 - TELECOM	TN409	BLDG 003 - ENLARGED PLANS AND ELEV. - TR 4D	TN622	RISER DIAGRAMS - BUILDING 146		
TN039.0	BUILDING 039 - GROUND LEVEL - TELECOM	TN410	BLDG 003 - ENLARGED PLANS AND ELEV. - TR 138	TN623	RISER DIAGRAMS - BUILDING 147		
TN039.1	BUILDING 039 - LEVEL 01 - TELECOM	TN411	BLDG 003 - ENLARGED PLANS AND ELEV. - TR 216	TN624	RISER DIAGRAMS - BUILDING 149		
TN039.2	BUILDING 039 - LEVEL 02 - TELECOM	TN412	BLDG 003 - ENLARGED PLANS AND ELEV. - DC 215	TN625	RISER DIAGRAMS - BUILDING 151		
TN040.B	BUILDING 040 - BASEMENT LEVEL - TELECOM	TN413	BLDG 004 - ENLARGED PLANS AND ELEV. - TR 104				
TN040.1	BUILDING 040 - LEVEL 01 - TELECOM	TN414	BLDG 005 - ENLARGED PLANS AND ELEV. - TR 5A				
TN040.2	BUILDING 040 - LEVEL 02 - TELECOM	TN415	BLDG 005 - ENLARGED PLANS AND ELEV. - TR 111A				
TN041.0	BUILDING 041 - GROUND LEVEL - TELECOM	TN416	BLDG 005 - ENLARGED PLANS AND ELEV. - TR 211				
TN041.1	BUILDING 041 - LEVEL 01 - TELECOM	TN417	BLDG 006 - ENLARGED PLANS AND ELEV. - TR G1A				
TN046.0	BUILDING 046 - GROUND LEVEL - TELECOM	TN418	BLDG 012 - ENLARGED PLANS AND ELEV. - TR 1A				
TN061.1	BUILDING 061 - LEVEL 01 - TELECOM	TN419	BLDG 017 - ENLARGED PLANS AND ELEV. - TR 3B				
TN061.1A	BUILDING 061 - LEVEL 01 - AREA A - TELECOM	TN420	BLDG 018 - ENLARGED PLANS AND ELEV. - TR 104				
TN061.1B	BUILDING 061 - LEVEL 01 - AREA B - TELECOM	TN421	BLDG 038 - ENLARGED PLANS AND ELEV. - TR G13A				
TN061.1C	BUILDING 061 - LEVEL 01 - AREA C - TELECOM	TN422	BLDG 038 - ENLARGED PLANS AND ELEV. - TR 225				
TN063.0	BUILDING 063 - GROUND LEVEL - TELECOM	TN423	BLDG 039 - ENLARGED PLANS AND ELEV. - TR 019D				
TN063.1	BUILDING 063 - LEVEL 01 - TELECOM	TN424	BLDG 039 - ENLARGED PLANS AND ELEV. - TR 104				
TN135.B	BUILDING 135 - BASEMENT LEVEL - TELECOM	TN425	BLDG 039 - ENLARGED PLANS AND ELEV. - TR 207				
TN135.0	BUILDING 135 - GROUND LEVEL - TELECOM	TN426	BLDG 040 - ENLARGED PLANS AND ELEV. - TR 7A				
TN135.1	BUILDING 135 - LEVEL 01 - TELECOM	TN427	BLDG 040 - ENLARGED PLANS AND ELEV. - TR 115				
TN137.1	BUILDING 137 - LEVEL 01 - TELECOM	TN428	BLDG 040 - ENLARGED PLANS AND ELEV. - TR 215				
TN137.1A	BUILDING 137 - LEVEL 01 - AREA A - TELECOM	TN429	BLDG 041 - ENLARGED PLANS AND ELEV. - TE 104				
TN137.1B	BUILDING 137 - LEVEL 01 - AREA B - TELECOM	TN430	BLDG 046 - ENLARGED PLANS AND ELEV. - TC 6A				
TN137.1C	BUILDING 137 - LEVEL 01 - AREA C - TELECOM	TN431	BLDG 061 - ENLARGED PLANS AND ELEV. - TR C04A				
TN137.1D	BUILDING 137 - LEVEL 01 - AREA D - TELECOM	TN432	BLDG 061 - ENLARGED PLANS AND ELEV. - TR C36				
		TN433	BLDG 063 - ENLARGED PLANS AND ELEV. - TR 9A				
		TN434	BLDG 135 - ENLARGED PLANS AND ELEV. - TR B-08A				
		TN435	BLDG 135 - ENLARGED PLANS AND ELEV. - TR G-66				
		TN436	BLDG 135 - ENLARGED PLANS AND ELEV. - TR 120A				

6/14/2008 12:38:03 PM

Revisions:	Date:

CONSULTANT



WileyWilson
127 Nationwide Drive
Lynchburg, VA 24502
Phone: 434.947.1901
www.wileywilson.com




SPECIALIZED ENGINEERING SOLUTIONS
1300 Baxter Street, Suite 355
Charlotte, NC 28204



BRITT, PETERS ASSOCIATES
1435 West Morehead Street
Suite 140
Charlotte, NC 28217
770.522.0466
www.britt-peters.com

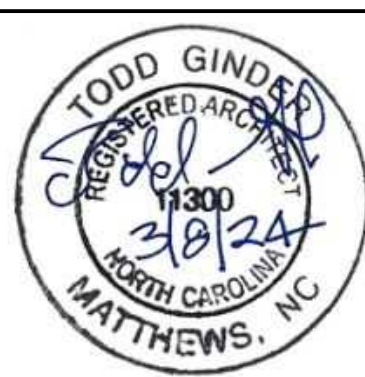
ARCHITECT/ENGINEER OF RECORD



Atriax, p.l.l.c.
703 Main Avenue SW
PO Box 1629, Hickory, NC 28603
Phone: 828.315.9962
Fax: 828.315.9964
www.atriaxgroup.com

NC Engineering License No.: P-0214
NC Architectural License No.: 51254

STAMP



Office of Construction and Facilities Management



U.S. Department of Veterans Affairs

Drawing Title
INDEX OF DRAWINGS TELECOMMUNICATIONS

Approved: Chief Engineer

Phase
100% CONSTRUCTION DOCUMENTS

Project Title
EHRM INFRASTRUCTURE UPGRADES

Location
TUSCALOOSA VAMC, TUSCALOOSA, AL.

Issue Date 03/08/2024	Checked TG	Drawn MM/TR
--------------------------	---------------	----------------

Project Number
679-20-104

Building Number

Drawing Number
GI002

TELECOM ABBREVIATIONS table with columns A-F and rows for various abbreviations like A, AC, ADA, AFC, AFF, AFG, etc.

TELECOM ABBREVIATIONS table with columns LV, M, MAG, MAN, MAX, MB, MBPS, MC, MCK, MECH, MFR, MH, MI, MIN, MM, MMFO, MPOE, N, NEC, NEMA, NFPA, NIC, NIK, NM, NMS, NTS, O, OC, ODM, OSP, PA, PABX, PB, PBX, PC, PCN, PED, PIR, PM, PNL, POTS, PRTS, PROX, PVC, PWR, R, RCDD, RCP, RECP, RFI, RGS, RM, RMC, S, SCTP, SMFO, SP, SPOE, STD, STP, SW, TBB, TBD, TCO, TCIPI, TDMM, TEL, TELCO, TEMP, TGB, TIA, TMGB, TR, TV, TYP, U, UC, UD, UL, UON, UPS, UTP, V, W, WAN, WAP, WLAN, WP, X, X(X)

TELECOM LEGEND table with columns SYMBOL and descriptions for various symbols like ceiling mounted data outlet, ceiling mounted voice outlet, etc.

*X LETTER IDENTIFIER INDICATES NETWORK # NUMBER IDENTIFIER INDICATES CABLE COUNT AT OUTLET. SEE TELECOM OUTLET SCHEDULES FOR OUTLET AND NETWORK DEFINITIONS.

DEMOLITION NOTES
1. HORIZONTAL DISTRIBUTION: REMOVE ALL CABLING AND JACKS WHILE RETAINING EXISTING PATHWAYS FOR TELECOMMUNICATIONS...

TELECOM GENERAL NOTES
1. INTENT OF THE DRAWINGS - THE DRAWINGS AND INTENT OF THE GENERAL LOCATION OF OUTLETS, RACEWAY AND EQUIPMENT. THE DRAWINGS DO NOT SHOW ALL NECESSARY OFFSETS...

TELECOM GENERAL NOTES
16. LABEL ALL CABLES WITHIN 4" OF EACH TERMINATION. PROVIDE 1/2" LONG SERVICE LOOP AT THE WORK AREA END OF EACH HORIZONTAL CABLE. PROVIDE DUST COVERS ON ALL SPARE SYSTEM PATCH PANEL JACKS.

TELECOM GENERAL NOTES
1. THE GENERAL CONTRACTOR (GC) SHALL PROVIDE, INSTALL, DOCUMENT, AND TEST A FULLY INTEGRATED SECURITY SYSTEM FOR THE OWNER. THE INTEGRATED SECURITY SYSTEM SHALL INCLUDE A MICROPROCESSOR-BASED SECURITY MANAGEMENT CARD ACCESS/ALARM MONITORING SYSTEM, A CLOSED CIRCUIT TELEVISION SYSTEM, A SECURITY INTERCOMMUNICATIONS SYSTEM, VARIOUS ASSASSIATED CONTROL AND SUPPORT EQUIPMENT, AND ALL REQUIRED CABLING AND WIRING. SECURITY SYSTEM CONDUCTORS SHALL NOT BE INSTALLED IN THE SAME CONDUIT AS "AC" POWER CONDUCTORS.

SECURITY GENERAL NOTES
1. THE GENERAL CONTRACTOR (GC) SHALL PROVIDE, INSTALL, DOCUMENT, AND TEST A FULLY INTEGRATED SECURITY SYSTEM FOR THE OWNER. THE INTEGRATED SECURITY SYSTEM SHALL INCLUDE A MICROPROCESSOR-BASED SECURITY MANAGEMENT CARD ACCESS/ALARM MONITORING SYSTEM, A CLOSED CIRCUIT TELEVISION SYSTEM, A SECURITY INTERCOMMUNICATIONS SYSTEM, VARIOUS ASSASSIATED CONTROL AND SUPPORT EQUIPMENT, AND ALL REQUIRED CABLING AND WIRING. SECURITY SYSTEM CONDUCTORS SHALL NOT BE INSTALLED IN THE SAME CONDUIT AS "AC" POWER CONDUCTORS.

TELECOM LEGEND NOTES
1. SYMBOLS ORIENTATION DOES NOT IMPLY DEVICE OR EQUIPMENT ORIENTATION. UNLESS NOTED AS SUCH, SEE REFLECTED CEILING PLANS FOR ALL CEILING MOUNTED DEVICE POSITIONS AND ORIENTATIONS.

SECURITY LEGEND NOTES
1. SYMBOLS ORIENTATION DOES NOT IMPLY DEVICE OR EQUIPMENT ORIENTATION. UNLESS NOTED AS SUCH, SEE REFLECTED CEILING PLANS FOR ALL CEILING MOUNTED DEVICES.

TELECOM GENERAL NOTES
24. PROVIDE JACKETING, SHEATHING, ARMORING AND FILLING COMPOUNDS FOR OUTSIDE PLANT CABLES IN ACCORDANCE WITH THE CONTRACT DOCUMENT SPECIFICATION REQUIREMENTS. PROVIDE OUTSIDE PLANT CABLES SUITABLE FOR USE IN EXTERIOR APPLICATIONS AND IN ACCORDANCE WITH THE CABLE LISTING AND LABELING APPLICATIONS.

TELECOM GENERAL NOTES
25. THE LOCATIONS AND ELEVATIONS OF TECHNOLOGY DEVICES SHOWN ON THESE DRAWINGS ARE SCHEMATIC UNLESS ACTUAL DIMENSIONS ARE SHOWN ON THE DRAWINGS. REFER TO THE ARCHITECTURAL PLANS AND OBTAIN THE APPROVAL OF THE OWNER'S REPRESENTATIVE FOR THE ACTUAL LOCATIONS AND ELEVATIONS OF ALL DEVICES.

TELECOM GENERAL NOTES
26. COMPLY WITH CURRENT ADA REQUIREMENTS FOR MOUNTING HEIGHTS OF ALL DEVICES AND EQUIPMENT. PROVIDE SUPPORTS AND ANCHORING FOR CONDUIT, CABLE TRAYS, EQUIPMENT, AND OTHER NON-STRUCTURAL ELEMENTS. SEE TECHNOLOGY SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

TELECOM GENERAL NOTES
27. PROVIDE PROTECTIVE BUSHINGS ON ALL COMMUNICATIONS CONDUITS AND WHERE CABLE ROUTES THROUGH METAL STUDS. PROVIDE LOW-VOLTAGE CABLES IN CONDUITS, CABLE TRAYS, WIREWAYS OR OTHER APPROVED CABLE MANAGEMENT DEVICES OR SYSTEMS. THE CONTRACTOR SHALL NOT INSTALL CABLING SUPPORTED BY CEILING SYSTEMS (CEILING TILE OR GRID, GYPSUM BOARD, LATH & PLASTER, HVAC DUCTS OR PIPES, LIGHTING FIXTURES, ELECTRICAL CONDUITS OR CABLES, PLUMBING/FIRE PROTECTION PIPES, OR ANY OTHER DEVICES NOT INTENDED FOR THE SUPPORT OF LOW-VOLTAGE CABLING).

TELECOM GENERAL NOTES
28. LABEL ALL CLOSETS, RACKS, FRAMES, CABINETS, TERMINATION BLOCKS, CABLES, TERMINATIONS, RACEWAYS, ETC. IN ACCORDANCE WITH ANSITIA-606-B AND OWNER'S CRITERIA.

TELECOM GENERAL NOTES
29. LABEL ALL CLOSETS, RACKS, FRAMES, CABINETS, TERMINATION BLOCKS, CABLES, TERMINATIONS, RACEWAYS, ETC. IN ACCORDANCE WITH ANSITIA-606-B AND OWNER'S CRITERIA.

TELECOM GENERAL NOTES
30. ALL COMMUNICATIONS RACEWAYS AND PATHWAYS SHALL MINIMIZE UNNECESSARY CABLE LENGTHS AND MAINTAIN INDUSTRY STANDARD LENGTH LIMITATIONS FOR HORIZONTAL CABLE DISTRIBUTION (E.G. CAT.6). BASIC LINK CABLE LENGTH SHALL NOT EXCEED 295-FT (90M) FOR UTP CABLE, 200-FT (60M) FOR SERIES-9 COAXIAL CABLE.

TELECOM GENERAL NOTES
31. PROVIDE PROTECTIVE BUSHINGS ON ALL COMMUNICATIONS CONDUITS AND WHERE CABLE ROUTES THROUGH METAL STUDS. PROVIDE LOW-VOLTAGE CABLES IN CONDUITS, CABLE TRAYS, WIREWAYS OR OTHER APPROVED CABLE MANAGEMENT DEVICES OR SYSTEMS. THE CONTRACTOR SHALL NOT INSTALL CABLING SUPPORTED BY CEILING SYSTEMS (CEILING TILE OR GRID, GYPSUM BOARD, LATH & PLASTER, HVAC DUCTS OR PIPES, LIGHTING FIXTURES, ELECTRICAL CONDUITS OR CABLES, PLUMBING/FIRE PROTECTION PIPES, OR ANY OTHER DEVICES NOT INTENDED FOR THE SUPPORT OF LOW-VOLTAGE CABLING).

TELECOM GENERAL NOTES
32. PROVIDE LOW-VOLTAGE CABLES IN CONDUITS, CABLE TRAYS, WIREWAYS OR OTHER APPROVED CABLE MANAGEMENT DEVICES OR SYSTEMS. THE CONTRACTOR SHALL NOT INSTALL CABLING SUPPORTED BY CEILING SYSTEMS (CEILING TILE OR GRID, GYPSUM BOARD, LATH & PLASTER, HVAC DUCTS OR PIPES, LIGHTING FIXTURES, ELECTRICAL CONDUITS OR CABLES, PLUMBING/FIRE PROTECTION PIPES, OR ANY OTHER DEVICES NOT INTENDED FOR THE SUPPORT OF LOW-VOLTAGE CABLING).

TELECOM GENERAL NOTES
33. REUSABLE VETRO TIES SHALL BE USED TO BUNDLE OR MANAGE CABLES. PLASTIC ZIP TIES SHALL NOT BE PERMITTED.

TELECOM GENERAL NOTES
34. SIZE AND ORIENTATION OF ALL TELECOM PULL-BOXES SHALL MEET OR EXCEED THE BICSI TDMM REQUIREMENTS.

TELECOM GENERAL NOTES
35. ALL OUTSIDE CONDUITS SHALL BE INSTALLED WITH NYLON PULL LINES HAVING 1200 LB MINIMUM TENSILE STRENGTH AND NUMBERED FOOT MARKINGS.

TELECOM GENERAL NOTES
36. PROVIDE WARNING OR CAUTION LABELS ON ALL ENCLOSURES THAT USE OR CONTAIN FIBER OPTIC CABLING.

TELECOM GENERAL NOTES
37. PROVIDE WARNING OR CAUTION LABELS ON ALL ENCLOSURES THAT USE OR CONTAIN FIBER OPTIC CABLING.

TELECOM GENERAL NOTES
38. PROVIDE WARNING OR CAUTION LABELS ON ALL ENCLOSURES THAT USE OR CONTAIN FIBER OPTIC CABLING.

TELECOM GENERAL NOTES
39. PROVIDE WARNING OR CAUTION LABELS ON ALL ENCLOSURES THAT USE OR CONTAIN FIBER OPTIC CABLING.

TELECOM GENERAL NOTES
40. PROVIDE WARNING OR CAUTION LABELS ON ALL ENCLOSURES THAT USE OR CONTAIN FIBER OPTIC CABLING.

TELECOM GENERAL NOTES
41. PROVIDE WARNING OR CAUTION LABELS ON ALL ENCLOSURES THAT USE OR CONTAIN FIBER OPTIC CABLING.

TELECOM GENERAL NOTES
42. PROVIDE WARNING OR CAUTION LABELS ON ALL ENCLOSURES THAT USE OR CONTAIN FIBER OPTIC CABLING.

TELECOM GENERAL NOTES
43. PROVIDE WARNING OR CAUTION LABELS ON ALL ENCLOSURES THAT USE OR CONTAIN FIBER OPTIC CABLING.

TELECOM SCOPE OF WORK RESPONSIBILITY MATRIX

Table with columns: DESCRIPTION, CFCI, CFGI, GFCI, GFGI, NOTES. Rows include: ACTIVE CABINET/RACK MOUNTED NETWORK SWITCHES, ACTIVE CABINET/RACK MOUNTED TIA/CANE EQUIPMENT, CABINET/RACK MOUNTED PDU AND UPS (TELECOM ROOMS ONLY), COPPER AND FIBER PATCH PANELS AND ASSOCIATED TERMINATIONS, COPPER PATCH CABLES AT THE WORK AREA OUTLETS (FROM OUTLET TO WORKSTATION), COPPER PATCH CABLES IN THE TELECOM ROOMS (FROM PATCH PANEL TO SWITCH), DEDICATED TELECOMMUNICATIONS GROUNDING AND BONDING SYSTEM, DEMO OF EXISTING PASSIVE STRUCTURED CABLING SYSTEM (PATHWAYS, CABLE, TERMINATIONS, PATCH PANELS, OUTLETS, ETC.), EQUIPMENT CABINETS AND RACKS IN THE TELECOM ROOMS, FIBER PATCH CABLES IN THE TELECOM ROOMS, MODIFICATION OF EXISTING OSP FIBER CONNECTION TO THE BUILDING, NEW BACKBONE INSIDE PLANT CABLING (FIBER AND COPPER), NEW BACKBONE INSIDE PLANT PATHWAYS, NEW HORIZONTAL INSIDE PLANT CABLING, NEW HORIZONTAL INSIDE PLANT PATHWAYS, TERMINATION AND TESTING OF ALL BACKBONE CABLING, TERMINATION OF ALL HORIZONTAL CABLING.

SECURITY SCOPE OF WORK

Table with columns: DESCRIPTION, CFCI, CFGI, GFCI, GFGI, NOTES. Rows include: ACCESS CONTROL CONNECTIVITY - CONNECTION TO EXISTING ACCESS CONTROL SYSTEM OR CONNECTION TO CAMPUS WIDE ACCESS CONTROL SYSTEM, ACCESS CONTROL DEVICES - CARD READERS, DOOR POSITION SWITCH, REQUEST TO EXIT, ETC., ALL BACKBONE CABLING, HORIZONTAL CABLING, PATCH PANELS, WIRE MANAGERS, WIREWAYS, ETC. TO SUPPORT ACCESS CONTROL AND INTRUSION DETECTION SYSTEMS, CABLING TO SECURITY DOOR HARDWARE FOR ACS AND IDS DEVICES, CCTV CONNECTIVITY - CONNECTION TO EXISTING CCTV SYSTEM OR CONNECTION TO CAMPUS WIDE CCTV SYSTEM, CCTV DEVICES - CAMERAS, CAMERA MOUNTS, ETC., CCTV PATHWAYS TO EXTERNAL CAMERAS, CONDUITS, OPEN TOP CABLE SUPPORTS, CABLE TRAY, LADDER RUNWAY, JUNCTION BOXES, ENCLOSURES, WIREWAYS, ETC. TO SUPPORT ACCESS CONTROL AND INTRUSION DETECTION SYSTEMS, INTRUSION DETECTION CONNECTIVITY - CONNECTION TO EXISTING INTRUSION DETECTION SYSTEM OR CONNECTION TO CAMPUS WIDE INTRUSION DETECTION SYSTEM, INTRUSION DETECTION DEVICES - ALARM KEYPADS, MOTION DETECTORS, ETC.

Revisions table with columns: Revisions, Date.

CONSULTANT: WileyWilson, 127 Nationwide Drive, Lynchburg, VA 24502. Phone: 434.947.1901. www.wileywilson.com

ARCHITECT/ENGINEER OF RECORD: Atriax, pllc, 703 Main Avenue SW, PO Box 1629, Hickory, NC 28603. Phone: 828.315.9962. Fax: 828.315.9964. NC Engineering License No.: P-0214. NC Architectural License No.: 51254.

Office of Construction and Facilities Management. U.S. Department of Veterans Affairs. LEGEND ABBREVIATION AND GENERAL NOTES. Approved: Chief Engineer.

Phase: 100% CONSTRUCTION DOCUMENTS. Project Title: EHRM INFRASTRUCTURE UPGRADES. Project Number: 679-20-104. Building Number. Location: TUSCALOOSA VAMC, TUSCALOOSA, AL. Drawing Number: TG001. Issue Date: 03/08/2024. Checked: JMM. Drawn: JEH.

A
B
C
D
E
F

SITE LEGEND

- TH## NEW 48 INCH BY 48 INCH BY 48 INCH HANDHOLE (TELECOMMUNICATIONS) "##" INDICATES LABEL
- TM## NEW 12 FOOT BY 7 FOOT BY 6 FOOT MAINTENANCE HOLE (TELECOMMUNICATIONS) "##" INDICATES LABEL
- C1-C2 4" CONDUIT DUCTBANK IN 2 x 1 CONFIGURATION SEE GENERAL NOTE "L" FOR APPLICATION
- C1-C2 4" CONDUIT DUCTBANK IN 2 x 2 CONFIGURATION SEE KEY NOTE "1" FOR APPLICATION
- C1-C2-C3 4" CONDUIT DUCTBANK IN 3 x 2 CONFIGURATION SEE KEY NOTE "2" FOR APPLICATION

GENERAL NOTES

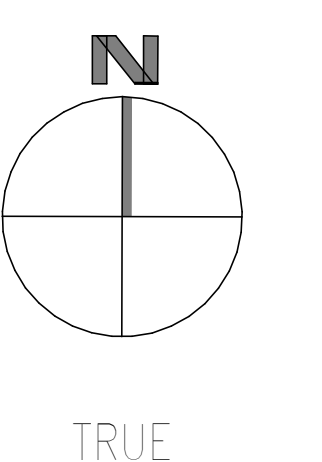
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. WHERE NO NEW DUCTBANK IS SHOWN CONNECTING TO A BUILDING WITHIN THE SCOPE OF WORK (BUILDINGS: 001, 002, 004, 038, 039, 040, 063, 135, & 137) CONDUIT PATHWAY WITHIN CORRIDORS, BREEZEWAYS, AND "BUILDING CONNECTOR HALLWAYS" SHALL BE UTILIZED AS PATHWAY FROM THE AFOREMENTIONED BUILDINGS TO THE DATA CENTER IN BUILDING 151. THE PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE AND DIVERSE CONDUITS WITH A MINIMUM SEPARATION ON 96 INCHES HORIZONTALLY (I.E. OPPOSITE SIDES OF A CORRIDOR) AND SHALL BE INSTALLED IN SEPARATE CORRIDORS WHERE POSSIBLE.
- F. BUILDINGS 017, 046, 061, 145, 146, 147, & 149 ARE ONLY SHOWN WITH (1) DUCTBANK CONNECTION AND SHALL UTILIZE CONDUIT PATHWAY WITHIN CORRIDORS, BREEZEWAYS, AND "BUILDING CONNECTOR HALLWAYS" AS THE REDUNDANT PATHWAY FOR THE REDUNDANT BACKBONE CABLING TO THE DATA CENTER IN BUILDING 151.
- G. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 90 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- H. MAXIMUM DISTANCE BETWEEN OUTSIDE PLANT STRUCTURES SHALL BE 400 FEET OR 180 DEGREES OF BEND.
- I. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- J. TYPICAL DEPTH OF DUCTBANK IS TO BE 36 INCHES BELOW GRADE.
- K. DUCTBANK SHALL BE CONCRETE ENCASED WHEN CROSSING ROADWAYS OR DRIVEWAYS.
- L. PROVIDE (2) NEW 4 INCH CONDUITS TO BUILDINGS AND BETWEEN TELECOMMUNICATIONS STRUCTURES UNLESS OTHERWISE NOTED.

BUILDING SCHEDULE MARK DESCRIPTION

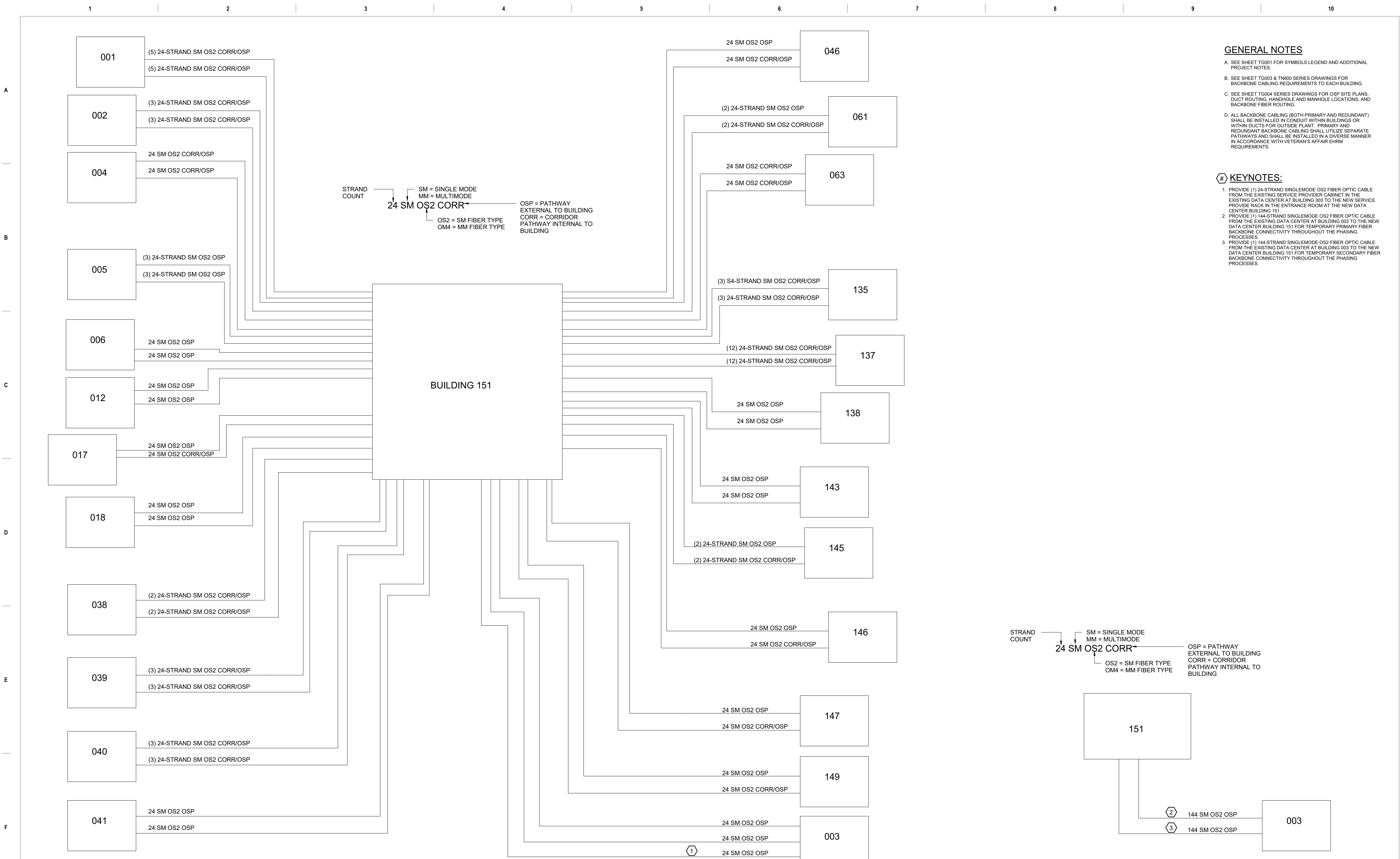
MARK	DESCRIPTION
1	ADMINISTRATIVE
2	ADDICTION REHAB/ ADMIN CREDIT UNION
3	RESEARCH/ SPD/ BOILER PLANT
4	AUDITORIUM
5	ADMINISTRATIVE OFFICES
6	VISIT OFFICES
7	TRANSITIONAL HOME
8	WEST ALA. HOSPICE ADMIN SPACE
9	SMOKE STACK CHIMNEY
10	CITY WATER TANK
12	WAREHOUSE
13	WATER PUMP HOUSE & TRANSFORMER
14	GAS METER HOUSE
15	TRANSITIONAL HOME
17	MAINTENANCE SHOPS BUILDING
18	LAUNDRY
25	FOUR CAR GARAGE
26	SINGLE GARAGE
27	GARAGE & STORAGE
28	GARAGE
33	EUL VALOR GROVE
33A	EUL VALOR GROVE ANNEX
37	APCO SUBSTATION
38	PRIMARY CARE CLINIC/CANTEEN
39	STORAGE SPACE/ SALVATION ARMY
40	OT FIELD OFFICE/ CHILD CARE/ TRAVEL
41	CWT SHOP & GARAGE
42	ELEVATED WATER TANK
46	CHAPEL
60	MAIN PRIMARY SWITCHGEAR
61	COMMUNITY LIVING CENTER
62	AUXILIARY POWER UNIT
63	MANAGEMENT OFFICES & LIBRARY
101	GREENHOUSE
135	OUTPATIENT BLDG.
137	270 BED PSYC. BLDG.
138	CHILLER BLDG.
139	GENERATOR BLDG. (FOR BLDG. 137)
140	GENERATOR BLDG. (FOR BLDG. 2, 36)
141	GENERATOR BLDG. (FOR BLDG. 33, 39, 40)
142	CWT STORAGE BLDG.
143	DIETETICS FACILITY
144	HOSPICE OF WEST ALABAMA
145	REHAB/ REC CENTER COTTAGES
146	MAGNOLIA HOUSE
147	CAMILLA HOUSE
148	COTTAGES FIRE PUMP HOUSE
149	AZALEA HOUSE



F1 SITE PLAN - TELECOM
SCALE: NONE



	<p>CONSULTANT</p> <p>WileyWilson Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP</p> <p>Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI 107 # 219954 E-00000000-25 RCD 03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>SITE PLAN - TELECOM</p> <p>Approved: Chief Engineer</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p> <p>FULLY SPRINKLERED</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p> <p>Location: TUSCALOOSA VAMC, TUSCALOOSA, AL.</p> <p>Issue Date: 03/08/2024</p> <p>Checked: JMM Drawn: JEH</p>	<p>Project Number</p> <p>679-20-104</p> <p>Building Number</p> <p>Drawing Number</p> <p>TG002</p>
--	--	---	---	---	---	---	---	---



GENERAL NOTES

- SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- SEE SHEET TG004 SERIES DRAWINGS FOR OSP SITE PLANS, DUCT ROUTING, HANDHOLE AND MANHOLE LOCATIONS, AND BACKBONE FIBER ROUTING.
- ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.

KEYNOTES:

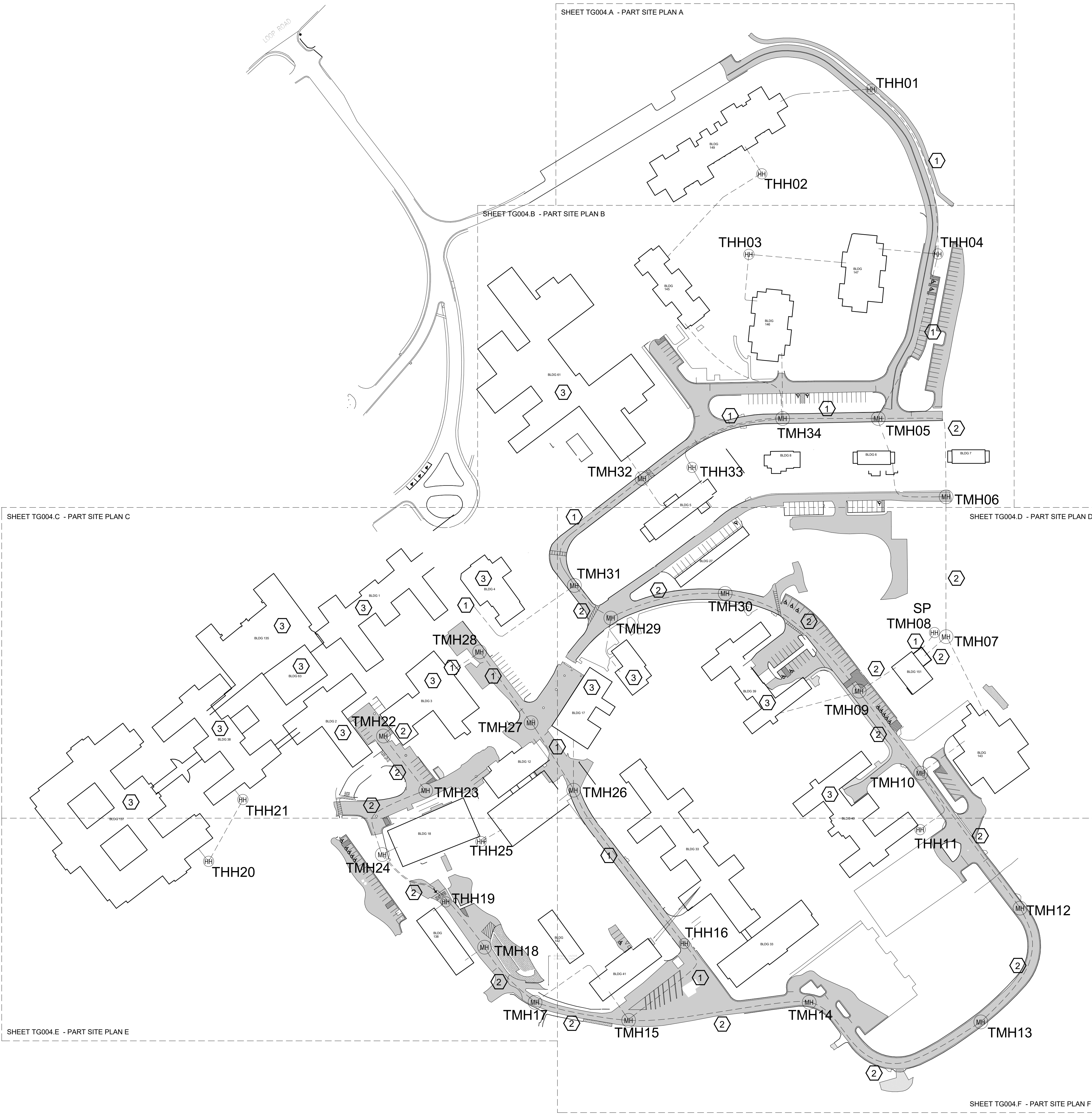
- PROVIDE (1) 24-STRAND SINGLEMODE OS2 FIBER OPTIC CABLE FROM THE EXISTING SERVICE PROVIDER CABINET IN THE EXISTING DATA CENTER AT BUILDING 003 TO THE NEW SERVICE PROVIDE RACK IN THE ENTRANCE ROOM AT THE NEW DATA CENTER BUILDING 151.
- PROVIDE (1) 144-STRAND SINGLEMODE OS2 FIBER OPTIC CABLE FROM THE EXISTING DATA CENTER AT BUILDING 003 TO THE NEW DATA CENTER BUILDING 151 FOR TEMPORARY PRIMARY FIBER BACKBONE CONNECTIVITY THROUGHOUT THE PHASING PROCESSES.
- PROVIDE (1) 144-STRAND SINGLEMODE OS2 FIBER OPTIC CABLE FROM THE EXISTING DATA CENTER AT BUILDING 003 TO THE NEW DATA CENTER BUILDING 151 FOR TEMPORARY SECONDARY FIBER BACKBONE CONNECTIVITY THROUGHOUT THE PHASING PROCESSES.

F1 SITE OSP FINAL CONNECTIVITY DIAGRAM
SCALE: NONE

F8 SITE OSP TEMPORARY CONNECTIVITY DIAGRAM
SCALE: NONE

CONSULTANT 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254		STAMP REGISTERED COMMUNICATIONS DISTRIBUTION TECHNOLOGIST Bicsi 804-239-554 03/08/24 RCD		Office of Construction and Facilities Management U.S. Department of Veterans Affairs		Drawing Title SITE OSP CONNECTIVITY DIAGRAM Approved: Chief Engineer		Phase 100% CONSTRUCTION DOCUMENTS		Project Title EHRM INFRASTRUCTURE UPGRADES Project Number 679-20-104 Building Number	
Revisions:		Date:		Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024		Checked JMM		Drawn JEH		Drawing Number TG003			

A B C D E F



SITE LEGEND

- THH## NEW 48 INCH BY 48 INCH HANDHOLE (TELECOMMUNICATIONS) "##" INDICATES LABEL
- TMH## NEW 12 FOOT BY 7 FOOT BY 6 FOOT MAINTENANCE HOLE (TELECOMMUNICATIONS) "##" INDICATES LABEL
- C1-C2 C1-C2 4" CONDUIT DUCTBANK IN 2 x 1 CONFIGURATION SEE GENERAL NOTE "L" FOR APPLICATION
- C1-C2 C1-C2 C3 C1-C4 4" CONDUIT DUCTBANK IN 2 x 2 CONFIGURATION SEE KEY NOTE "1" FOR APPLICATION
- C1-C2 C3 C4 C3 C4 C1-C4 4" CONDUIT DUCTBANK IN 3 x 2 CONFIGURATION SEE KEY NOTE "2" FOR APPLICATION

GENERAL NOTES

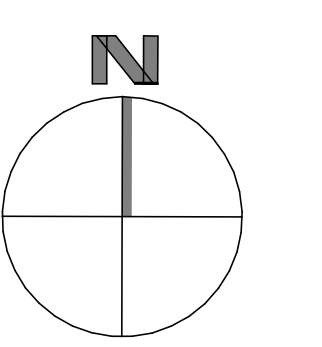
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & T800 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. WHERE NO NEW DUCTBANK IS SHOWN CONNECTING TO A BUILDING WITHIN THE SCOPE OF WORK (BUILDINGS: 001, 002, 004, 038, 039, 040, 063, 135, & 137) CONDUIT PATHWAY WITHIN CORRIDORS, BREEZEWAYS, AND "BUILDING CONNECTOR HALLWAYS" SHALL BE UTILIZED AS PATHWAY FROM THE AFORESAID BUILDINGS TO THE DATA CENTER IN BUILDING 151. THE PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE AND DIVERSE CONDUITS WITH A MINIMUM SEPARATION ON 96 INCHES HORIZONTALLY (I.E. OPPOSITE SIDES OF A CORRIDOR) AND SHALL BE INSTALLED IN SEPARATE CORRIDORS WHERE POSSIBLE.
- F. BUILDINGS 017, 046, 061, 145, 146, 147, & 149 ARE ONLY SHOWN WITH (1) DUCTBANK CONNECTION AND SHALL UTILIZE CONDUIT PATHWAY WITHIN CORRIDORS, BREEZEWAYS, AND "BUILDING CONNECTOR HALLWAYS" AS THE REDUNDANT PATHWAY FOR THE REDUNDANT BACKBONE CABLING TO THE DATA CENTER IN BUILDING 151.
- G. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 90 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- H. MAXIMUM DISTANCE BETWEEN OUTSIDE PLANT STRUCTURES SHALL BE 400 FEET OR 180 DEGREES OF BEND.
- I. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR FULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- J. TYPICAL DEPTH OF DUCTBANK IS TO BE 36 INCHES BELOW GRADE.
- K. DUCTBANK SHALL BE CONCRETE ENCASED WHEN CROSSING ROADWAYS OR DRIVEWAYS.
- L. PROVIDE (2) NEW 4 INCH CONDUITS TO BUILDINGS AND BETWEEN TELECOMMUNICATIONS STRUCTURES UNLESS OTHERWISE NOTED.

BUILDING SCHEDULE

MARK	DESCRIPTION
1	ADMINISTRATIVE
2	ADDICTION REHAB/ ADMIN CREDIT UNION
3	RESEARCH/ SPD/ BOILER PLANT
4	AUDITORIUM
5	ADMINISTRATIVE OFFICES
6	VISIT 7 OFFICES
7	TRANSITIONAL HOME
8	WEST ALA. HOSPICE ADMIN SPACE
9	SMOKE STACK CHIMNEY
10	CITY WATER TANK
12	WAREHOUSE
13	WATER PUMP HOUSE & TRANSFORMER
14	GAS METER HOUSE
15	TRANSITIONAL HOME
17	MAINTENANCE SHOPS BUILDING
18	LAUNDRY
25	FOUR CAR GARAGE
26	SINGLE GARAGE
27	GARAGE & STORAGE
28	GARAGE
33	EUL VALOR GROVE
33A	EUL VALOR GROVE ANNEX
37	AFPO SUBSTATION
38	PRIMARY CARE CLINIC/CANTEEN
39	STORAGE SPACE/ SALVATION ARMY
40	OT FIELD OFFICE/ CHILD CARE/ TRAVEL
41	CWT SHOP & GARAGE
42	ELEVATED WATER TANK
46	CHAPEL
60	MAIN PRIMARY SWITCHGEAR
61	COMMUNITY LIVING CENTER
62	AUXILIARY POWER UNIT
63	MANAGEMENT OFFICES & LIBRARY
101	GREENHOUSE
135	OUTPATIENT BLDG.
137	270 BED PSYC. BLDG.
138	CHILLER BLDG.
139	GENERATOR BLDG. (FOR BLDG. 137)
140	GENERATOR BLDG. (FOR BLDG. 2, 36)
141	GENERATOR BLDG. (FOR BLDG. 33, 39, 40)
142	CWT STORAGE BLDG.
143	DIETETICS FACILITY
144	HOSPICE OF WEST ALABAMA
145	REHAB/ REC CENTER COTTAGES
146	MAGNOLIA HOUSE
147	CAMILLA HOUSE
148	COTTAGES FIRE PUMP HOUSE
149	AZALEA HOUSE

KEYNOTES:

- 1. (4) NEW 4 INCH CONCRETE ENCASED DUCTBANK WITH (3) 1-1/4" INNERDUCTS IN EACH DUCT.
- 2. (6) NEW 4 INCH CONCRETE ENCASED DUCTBANK WITH (3) 1-1/4" INNERDUCTS IN EACH DUCT.
- 3. UTILIZE CONDUIT INSTALLED CORRIDORS, BREEZEWAYS, AND "BUILDING CONNECTOR HALLWAYS" AS THE BACKBONE CABLING PATHWAY. SEE GENERAL NOTES "E", "F" AND "G" ON THIS SHEET FOR ADDITIONAL DETAIL.



TRUE

F1 SITE PLAN - TELECOM DUCT BANK
SCALE: 1" = 100'-0"

CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title SITE PLAN - TELECOM DUCT BANK	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
			Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number TG004
Revisions:	Date:	 REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI 1078239534 Expires 03/31/25 RCD 03/08/24	Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TG004

A
B
C
D
E
F

SITE LEGEND

- THH## NEW 48 INCH BY 48 INCH BY 48 INCH HANDHOLE (TELECOMMUNICATIONS) "##" INDICATES LABEL
- TMH## NEW 12 FOOT BY 7 FOOT BY 6 FOOT MAINTENANCE HOLE (TELECOMMUNICATIONS) "##" INDICATES LABEL
- C1-C2 C1-C2 4" CONDUIT DUCTBANK IN 2 x 1 CONFIGURATION SEE GENERAL NOTE "L" FOR APPLICATION
- C1-C2 C1-C4 4" CONDUIT DUCTBANK IN 2 x 2 CONFIGURATION SEE KEY NOTE "1" FOR APPLICATION
- C1-C2 C3-C4 C1-C4 4" CONDUIT DUCTBANK IN 3 x 2 CONFIGURATION SEE KEY NOTE "2" FOR APPLICATION

GENERAL NOTES

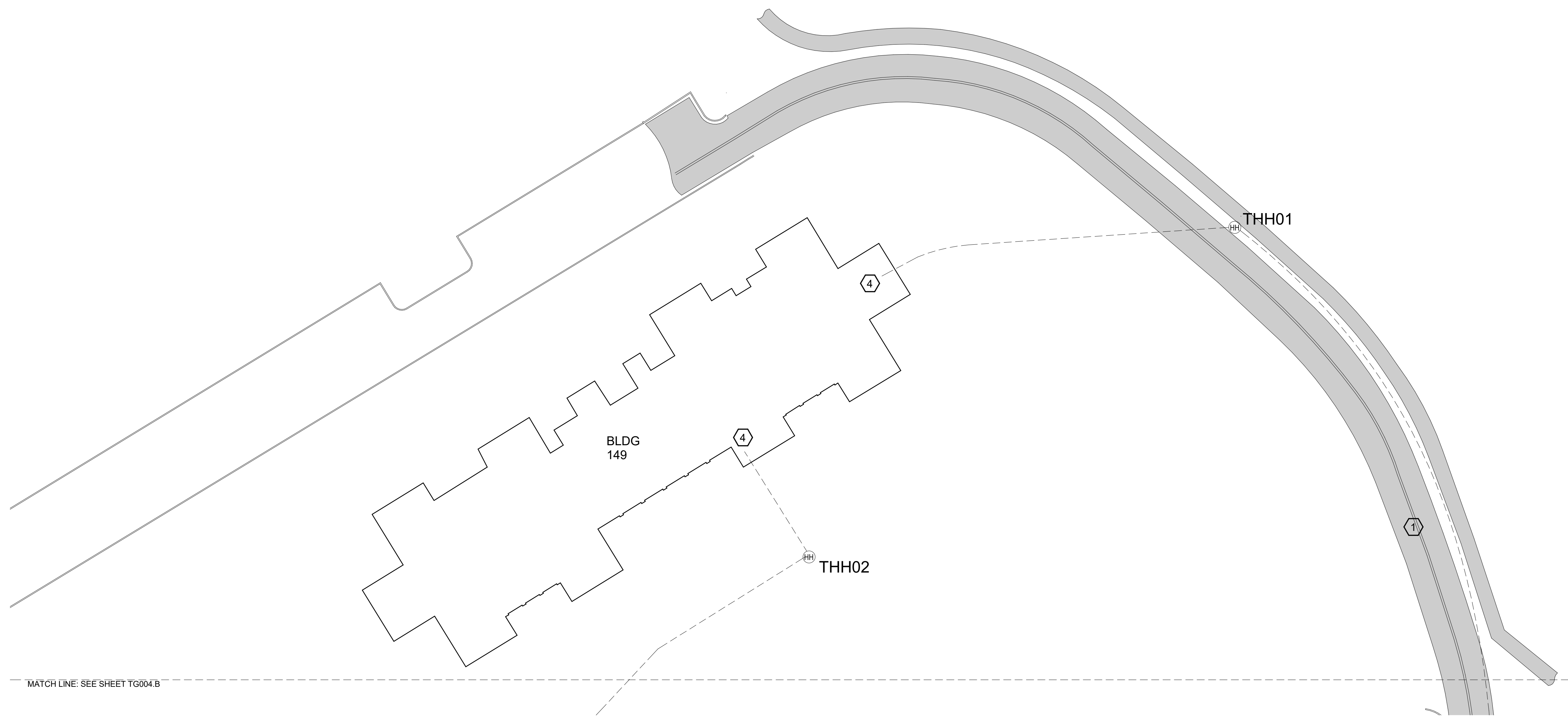
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. WHERE NO NEW DUCTBANK IS SHOWN CONNECTING TO A BUILDING WITHIN THE SCOPE OF WORK (BUILDINGS: 001, 002, 004, 038, 039, 040, 063, 135, & 137) CONDUIT PATHWAY WITHIN CORRIDORS, BREEZEWAYS, AND "BUILDING CONNECTOR HALLWAYS" SHALL BE UTILIZED AS PATHWAY FROM THE AFOREMENTIONED BUILDINGS TO THE DATA CENTER IN BUILDING 151. THE PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE AND DIVERSE CONDUITS WITH A MINIMUM SEPARATION OF 96 INCHES HORIZONTALLY (I.E. OPPOSITE SIDES OF A CORRIDOR) AND SHALL BE INSTALLED IN SEPARATE CORRIDORS WHERE POSSIBLE.
- F. BUILDINGS 017, 046, 061, 145, 146, 147, & 149 ARE ONLY SHOWN WITH (1) DUCTBANK CONNECTION AND SHALL UTILIZE CONDUIT PATHWAY WITHIN CORRIDORS, BREEZEWAYS, AND "BUILDING CONNECTOR HALLWAYS" AS THE REDUNDANT PATHWAY FOR THE REDUNDANT BACKBONE CABLING TO THE DATA CENTER IN BUILDING 151.
- G. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 90 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- H. MAXIMUM DISTANCE BETWEEN OUTSIDE PLANT STRUCTURES SHALL BE 400 FEET OR 180 DEGREES OF BEND.
- I. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR FULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- J. TYPICAL DEPTH OF DUCTBANK IS TO BE 36 INCHES BELOW GRADE.
- K. DUCTBANK SHALL BE CONCRETE ENCASED WHEN CROSSING ROADWAYS OR DRIVEWAYS.
- L. PROVIDE (2) NEW 4 INCH CONDUITS TO BUILDINGS AND BETWEEN TELECOMMUNICATIONS STRUCTURES UNLESS OTHERWISE NOTED.

BUILDING SCHEDULE

MARK	DESCRIPTION
1	ADMINISTRATIVE
2	ADDICTION REHAB/ ADMIN CREDIT UNION
3	RESEARCH/ SPD/ BOILER PLANT
4	AUDITORIUM
5	ADMINISTRATIVE OFFICES
6	VISIT 7 OFFICES
7	TRANSITIONAL HOME
8	WEST ALA. HOSPICE ADMIN SPACE
9	SMOKE STACK CHIMNEY
10	CITY WATER TANK
12	WAREHOUSE
13	WATER PUMP HOUSE & TRANSFORMER
14	GAS METER HOUSE
15	TRANSITIONAL HOME
17	MAINTENANCE SHOPS BUILDING
18	LAUNDRY
25	FOUR CAR GARAGE
26	SINGLE GARAGE
27	GARAGE & STORAGE
28	GARAGE
33	EUL VALOR GROVE
33A	EUL VALOR GROVE ANNEX
37	APCO SUBSTATION
38	PRIMARY CARE CLINICS/CANTEEN
39	STORAGE SPACE/ SALVATION ARMY
40	OT FIELD OFFICE/ CHILD CARE/ TRAVEL
41	CWT SHOP & GARAGE
42	ELEVATED WATER TANK
46	CHAPEL
60	MAIN PRIMARY SWITCHGEAR
61	COMMUNITY LIVING CENTER
62	AUXILIARY POWER UNIT
63	MANAGEMENT OFFICES & LIBRARY
101	GREENHOUSE
135	OUTPATIENT BLDG.
137	270 BED PSYC. BLDG.
138	CHILLER BLDG.
139	GENERATOR BLDG. (FOR BLDG. 137)
140	GENERATOR BLDG. (FOR BLDG. 2, 36)
141	GENERATOR BLDG. (FOR BLDG. 33, 39, 40)
142	CWT STORAGE BLDG.
143	DIETETICS FACILITY
144	HOSPICE OF WEST ALABAMA
145	REHAB/ REC CENTER COTTAGES
146	MAGNOLIA HOUSE
147	CAMILLA HOUSE
148	COTTAGES FIRE PUMP HOUSE
149	AZALEA HOUSE

KEYNOTES:

- 1. (4) NEW 4 INCH CONCRETE ENCASED DUCTBANK WITH (3) 1-1/4" INNERDUCTS IN EACH DUCT.
- 2. (6) NEW 4 INCH CONCRETE ENCASED DUCTBANK WITH (3) 1-1/4" INNERDUCTS IN EACH DUCT.
- 3. UTILIZE CONDUIT INSTALLED CORRIDORS, BREEZEWAYS, AND "BUILDING CONNECTOR HALLWAYS" AS THE BACKBONE CABLING PATHWAY. SEE GENERAL NOTES "E", "F" AND "G" ON THIS SHEET FOR ADDITIONAL DETAIL.
- 4. REFER TO SHEET TN148A FOR CONDUIT CONTINUATION INTO BUILDING.



F1 PART SITE PLAN A
SCALE: 1" = 30'-0"

<p>CONSULTANT</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP</p> <p>Bicsi REGISTERED COMMUNICATIONS DISTRIBUTOR MEMBER BICS11016239554 E-00000000-25 RCDD 03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>PART SITE PLAN A - TELECOM</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>
					<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Drawing Number</p> <p>TG004.A</p>
<p>Revisions:</p>	<p>Date:</p>	<p>Issue Date</p> <p>03/08/2024</p>	<p>Checked</p> <p>JMM</p>	<p>Drawn</p> <p>JEH</p>				

SITE LEGEND

- THH### NEW 48 INCH BY 48 INCH BY 48 INCH HANDHOLE (TELECOMMUNICATIONS) ### INDICATES LABEL
- TMH### NEW 12 FOOT BY 7 FOOT BY 6 FOOT MAINTENANCE HOLE (TELECOMMUNICATIONS) ### INDICATES LABEL
- C1-C2 C1-C2 4" CONDUIT DUCTBANK IN 2 x 2 CONFIGURATION SEE KEY NOTE "1" FOR APPLICATION
- C1-C3 C1-C3 4" CONDUIT DUCTBANK IN 3 x 2 CONFIGURATION SEE KEY NOTE "2" FOR APPLICATION
- C1-C4 C1-C4 4" CONDUIT DUCTBANK IN 2 x 1 CONFIGURATION SEE GENERAL NOTE "L" FOR APPLICATION

GENERAL NOTES

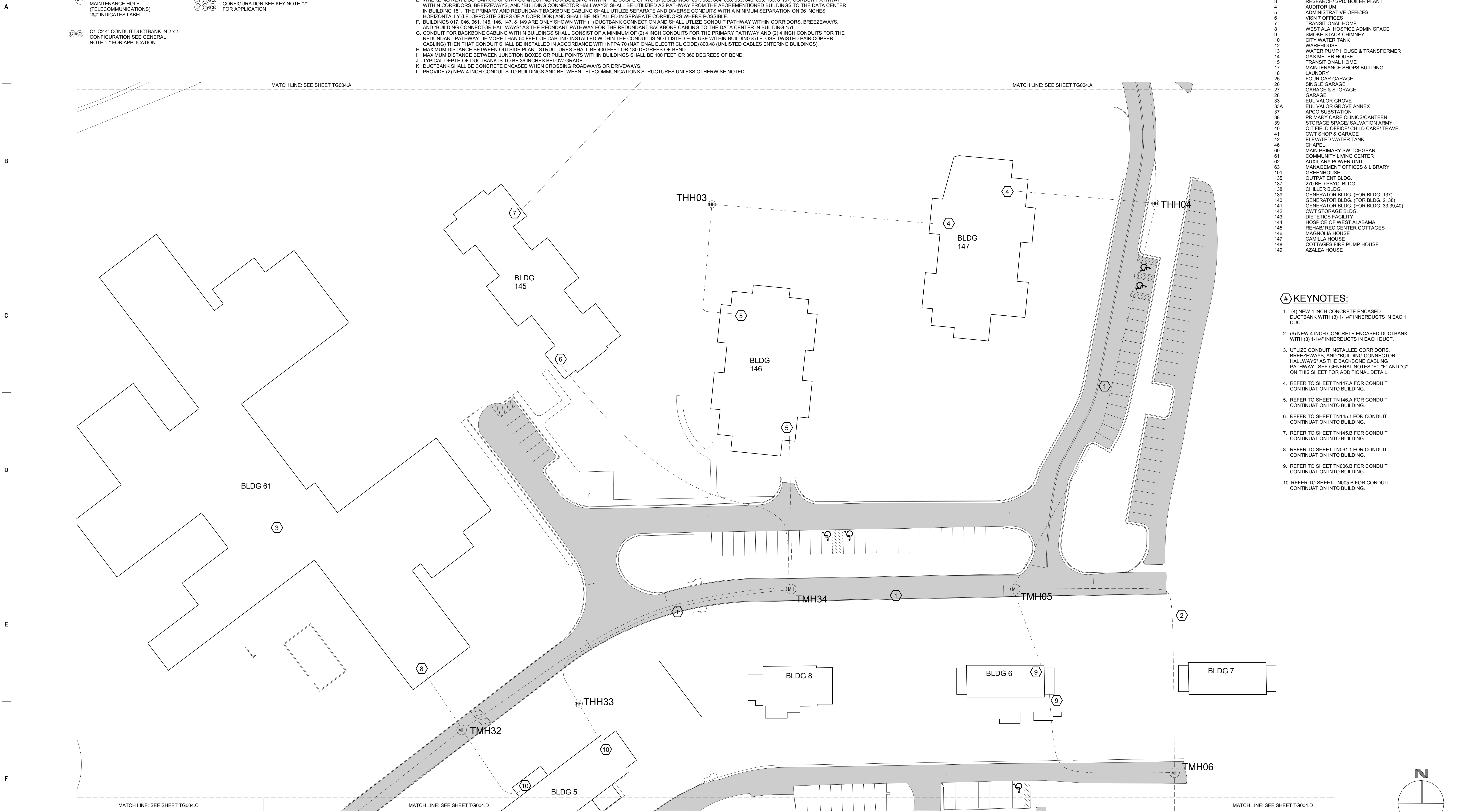
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. WHERE NO NEW DUCTBANK IS SHOWN CONNECTING TO A BUILDING WITHIN THE SCOPE OF WORK (BUILDINGS: 001, 002, 004, 038, 039, 040, 063, 135, & 137) CONDUIT PATHWAY WITHIN CORRIDORS, BREEZEWAYS, AND 'BUILDING CONNECTOR HALLWAYS' SHALL BE UTILIZED AS PATHWAY FROM THE AFOREMENTIONED BUILDINGS TO THE DATA CENTER IN BUILDING 151. THE PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE AND DIVERSE CONDUITS WITH A MINIMUM SEPARATION ON 36 INCHES HORIZONTALLY (I.E. OPPOSITE SIDES OF A CORRIDOR) AND SHALL BE INSTALLED IN SEPARATE CORRIDORS WHERE POSSIBLE.
- F. BUILDINGS 017, 046, 061, 145, 146, 147, & 149 ARE ONLY SHOWN WITH (1) DUCTBANK CONNECTION AND SHALL UTILIZE CONDUIT PATHWAY WITHIN CORRIDORS, BREEZEWAYS, AND 'BUILDING CONNECTOR HALLWAYS' AS THE REDUNDANT PATHWAY FOR THE REDUNDANT BACKBONE CABLING TO THE DATA CENTER IN BUILDING 151.
- G. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- H. MAXIMUM DISTANCE BETWEEN OUTSIDE PLANT STRUCTURES SHALL BE 400 FEET OR 180 DEGREES OF BEND.
- I. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 90 DEGREES OF BEND.
- J. TYPICAL DEPTH OF DUCTBANK IS TO BE 36 INCHES BELOW GRADE.
- K. DUCTBANK SHALL BE CONCRETE ENCASED WHEN CROSSING ROADWAYS OR DRIVEWAYS.
- L. PROVIDE (2) NEW 4 INCH CONDUITS TO BUILDINGS AND BETWEEN TELECOMMUNICATIONS STRUCTURES UNLESS OTHERWISE NOTED.

BUILDING SCHEDULE

MARK	DESCRIPTION
1	ADMINISTRATIVE
2	ADDICTION REHAB/ ADMIN/ CREDIT UNION
3	RESEARCH/ SPD/ BOILER PLANT
4	AUDITORIUM
5	ADMINISTRATIVE OFFICES
6	VISN 7 OFFICES
7	TRANSITIONAL HOME
8	WEST ALA. HOSPICE ADMIN SPACE
9	SMOKE STACK CHIMNEY
10	CITY WATER TANK
11	WAREHOUSE
12	WATER PUMP HOUSE & TRANSFORMER
13	GAS METER HOUSE
14	TRANSITIONAL HOME
15	MAINTENANCE SHOPS BUILDING
16	LAUNDRY
17	FOUR CAR GARAGE
25	SINGLE GARAGE
26	GARAGE & STORAGE
27	GARAGE
28	EUL VALOR GROVE
33	EUL VALOR GROVE ANNEX
33A	APCO SUBSTATION
37	PRIMARY CARE CLINIC/CANTEEN
38	STORAGE SPACE/ SALVATION ARMY
39	OIT FIELD OFFICE/ CHILD CARE/ TRAVEL
40	CWT SHOP & GARAGE
41	ELEVATED WATER TANK
42	CHAPEL
46	MAIN PRIMARY SWITCHGEAR
60	COMMUNITY LIVING CENTER
61	AUXILIARY POWER UNIT
62	MANAGEMENT OFFICES & LIBRARY
63	GREENHOUSE
101	OUTPATIENT BLDG.
135	270 BED PSYC. BLDG.
137	CHILLER BLDG.
138	GENERATOR BLDG. (FOR BLDG. 137)
140	GENERATOR BLDG. (FOR BLDG. 2, 38)
141	GENERATOR BLDG. (FOR BLDG. 33,39,40)
142	CWT STORAGE BLDG.
143	DIETETICS FACILITY
144	HOSPICE OF WEST ALABAMA
145	REHAB/ REC CENTER COTTAGES
146	MAGNOLIA HOUSE
147	CAMILLA HOUSE
148	COTTAGES FIRE PUMP HOUSE
149	AZALEA HOUSE

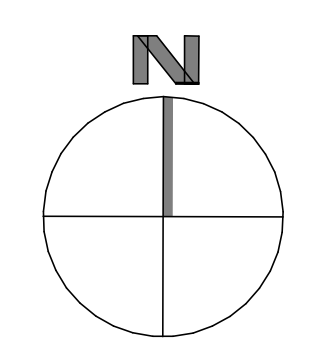
KEYNOTES:

- 1. (4) NEW 4 INCH CONCRETE ENCASED DUCTBANK WITH (3) 1-1/4" INNERDUCTS IN EACH DUCT.
- 2. (6) NEW 4 INCH CONCRETE ENCASED DUCTBANK WITH (3) 1-1/4" INNERDUCTS IN EACH DUCT.
- 3. UTILIZE CONDUIT INSTALLED CORRIDORS, BREEZEWAYS, AND 'BUILDING CONNECTOR HALLWAYS' AS THE BACKBONE CABLING PATHWAY. SEE GENERAL NOTES "E", "F" AND "G" ON THIS SHEET FOR ADDITIONAL DETAIL.
- 4. REFER TO SHEET TN147.A FOR CONDUIT CONTINUATION INTO BUILDING.
- 5. REFER TO SHEET TN146.A FOR CONDUIT CONTINUATION INTO BUILDING.
- 6. REFER TO SHEET TN145.1 FOR CONDUIT CONTINUATION INTO BUILDING.
- 7. REFER TO SHEET TN145.B FOR CONDUIT CONTINUATION INTO BUILDING.
- 8. REFER TO SHEET TN061.1 FOR CONDUIT CONTINUATION INTO BUILDING.
- 9. REFER TO SHEET TN006.B FOR CONDUIT CONTINUATION INTO BUILDING.
- 10. REFER TO SHEET TN005.B FOR CONDUIT CONTINUATION INTO BUILDING.



F1 PART SITE PLAN B

SCALE: 1" = 30'-0"



TRUE

CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 16229, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI 107 # 219954 Expires 03/31/25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title PART SITE PLAN B - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
					Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number TG004.B
Revisions:	Date:	Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TG004.B			

GENERAL NOTES

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. WHERE NO NEW DUCTBANK IS SHOWN CONNECTING TO A BUILDING WITHIN THE SCOPE OF WORK (BUILDINGS: 001, 002, 004, 038, 039, 040, 063, 135, & 137) CONDUIT PATHWAY WITHIN CORRIDORS, BREEZEWAYS, AND BUILDING CONNECTOR HALLWAYS SHALL BE UTILIZED AS PATHWAY FROM THE AFOREMENTIONED BUILDINGS TO THE DATA CENTER IN BUILDING 151. THE PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE AND DIVERSE CONDUITS WITH A MINIMUM SEPARATION ON 36 INCHES HORIZONTALLY (I.E. OPPOSITE SIDES OF A CORRIDOR) AND SHALL BE INSTALLED IN SEPARATE CORRIDORS WHERE POSSIBLE.
- F. BUILDINGS 017, 046, 061, 145, 146, 147, & 149 ARE ONLY SHOWN WITH (1) DUCTBANK CONNECTION AND SHALL UTILIZE CONDUIT PATHWAY WITHIN CORRIDORS, BREEZEWAYS, AND BUILDING CONNECTOR HALLWAYS AS THE REDUNDANT PATHWAY FOR THE REDUNDANT BACKBONE CABLING TO THE DATA CENTER IN BUILDING 151.
- G. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING IS INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- H. MAXIMUM DISTANCE BETWEEN OUTSIDE PLANT STRUCTURES SHALL BE 400 FEET OR 180 DEGREES OF BEND.
- I. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- J. TYPICAL DEPTH OF DUCTBANK IS TO BE 36 INCHES BELOW GRADE.
- K. DUCTBANK SHALL BE CONCRETE ENCASED WHEN CROSSING ROADWAYS OR DRIVEWAYS.
- L. PROVIDE (2) NEW 4 INCH CONDUITS TO BUILDINGS AND BETWEEN TELECOMMUNICATIONS STRUCTURES UNLESS OTHERWISE NOTED.

BUILDING SCHEDULE

MARK	DESCRIPTION
1	ADMINISTRATIVE
2	ADDICTION REHAB/ ADMIN/ CREDIT UNION
3	RESEARCH/ SPD/ BOILER PLANT
4	AUDITORIUM
5	ADMINISTRATIVE OFFICES
6	VISN 7 OFFICES
7	TRANSITIONAL HOME
8	WEST ALA. HOSPICE ADMIN SPACE
9	SMOKE STACK CHIMNEY
10	CITY WATER TANK
12	WAREHOUSE
13	WATER PUMP HOUSE & TRANSFORMER
14	GAS METER HOUSE
15	TRANSITIONAL HOME
17	MAINTENANCE SHOPS BUILDING
18	LAUNDRY
25	FOUR CAR GARAGE
26	SINGLE GARAGE
27	GARAGE & STORAGE
28	GARAGE
33	EUL VALOR GROVE
33A	EUL VALOR GROVE ANNEX
37	APCO SUBSTATION
38	PRIMARY CARE CLINICS/CANTEEN
39	STORAGE SPACE/ SALVATION ARMY
40	OIT FIELD OFFICE/ CHILD CARE/ TRAVEL
41	CWT SHOP & GARAGE
42	ELEVATED WATER TANK
46	CHAPEL
60	MAIN PRIMARY SWITCHGEAR
61	COMMUNITY LIVING CENTER
62	AUXILIARY POWER UNIT
63	MANAGEMENT OFFICES & LIBRARY
101	GREENHOUSE
135	OUTPATIENT BLDG.
137	270 BED PSYC. BLDG.
139	CHILLER BLDG.
140	GENERATOR BLDG. (FOR BLDG. 137)
141	GENERATOR BLDG. (FOR BLDG. 2, 38)
142	GENERATOR BLDG. (FOR BLDG. 33,38,40)
143	CWT STORAGE BLDG.
144	DIETETICS FACILITY
145	HOSPICE OF WEST ALABAMA
146	REHAB/ REC CENTER COTTAGES
147	MAGNOLIA HOUSE
148	CAMILLA HOUSE
149	COTTAGES FIRE PUMP HOUSE
	AZALEA HOUSE

SITE LEGEND

- THHH# (H) NEW 48 INCH BY 48 INCH BY 48 INCH HANDHOLE (TELECOMMUNICATIONS) "##" INDICATES LABEL
- TMH## (MH) NEW 12 FOOT BY 7 FOOT BY 6 FOOT MAINTENANCE HOLE (TELECOMMUNICATIONS) "##" INDICATES LABEL
- C1 C2 C1-C2 4" CONDUIT DUCTBANK IN 2 x 1 CONFIGURATION SEE GENERAL NOTE "L" FOR APPLICATION
- C1 C2 C3 C4 C1-C4 4" CONDUIT DUCTBANK IN 2 x 2 CONFIGURATION SEE KEY NOTE "1" FOR APPLICATION
- C1 C2 C3 C4 C5 C6 C1-C4 4" CONDUIT DUCTBANK IN 3 x 2 CONFIGURATION SEE KEY NOTE "2" FOR APPLICATION

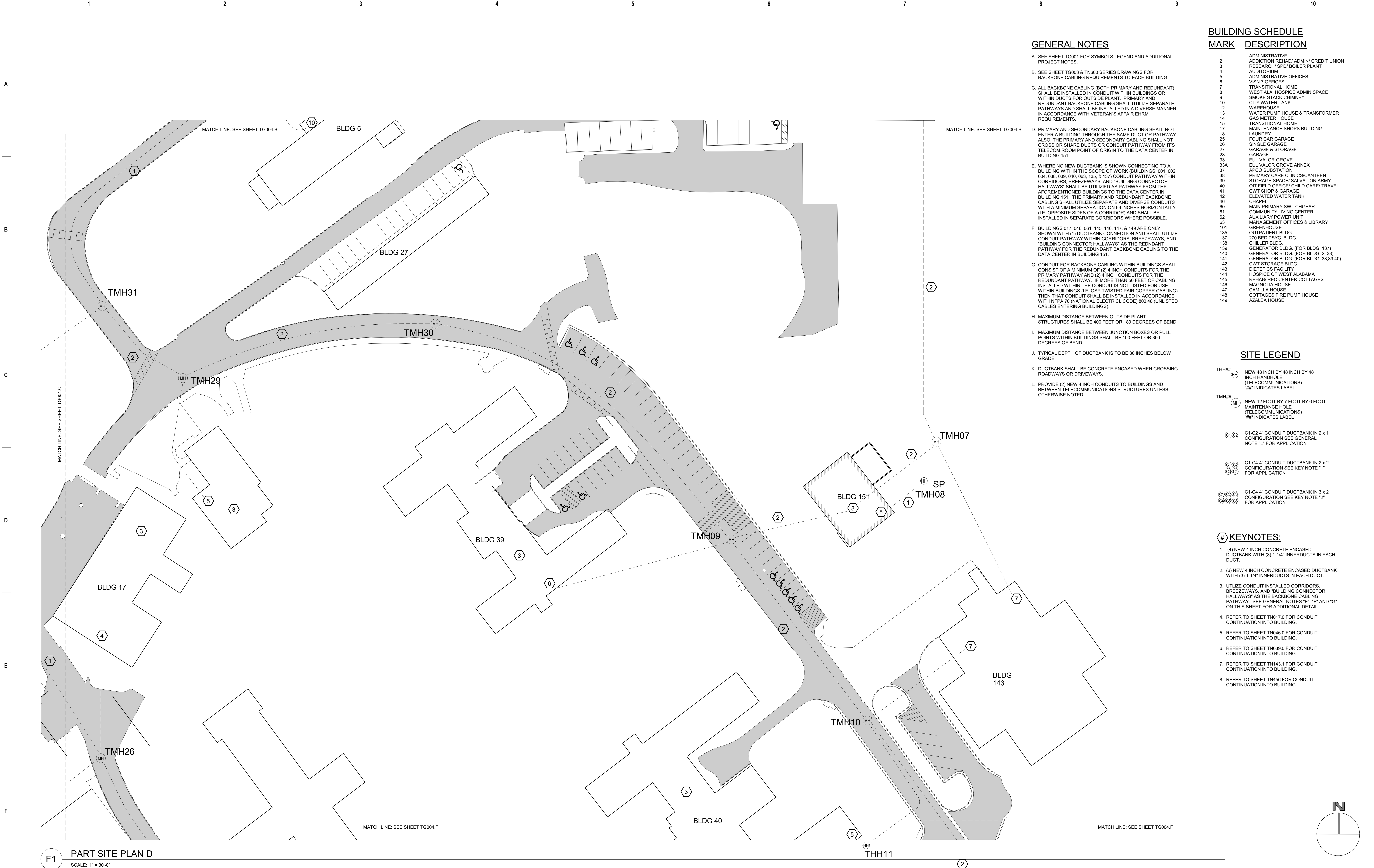
KEYNOTES:

- 1. (4) NEW 4 INCH CONCRETE ENCASED DUCTBANK WITH (3) 1-1/4" INNERDUCTS IN EACH DUCT.
- 2. (6) NEW 4 INCH CONCRETE ENCASED DUCTBANK WITH (3) 1-1/4" INNERDUCTS IN EACH DUCT.
- 3. UTILIZE CONDUIT INSTALLED CORRIDORS, BREEZEWAYS, AND BUILDING CONNECTOR HALLWAYS AS THE BACKBONE CABLING PATHWAY. SEE GENERAL NOTES "E," "F" AND "G" ON THIS SHEET FOR ADDITIONAL DETAIL.
- 4. REFER TO SHEET TN004.0 FOR CONDUIT CONTINUATION INTO BUILDING.
- 5. REFER TO SHEET TN003.0 FOR CONDUIT CONTINUATION INTO BUILDING.
- 6. REFER TO SHEET TN030.0 FOR CONDUIT CONTINUATION INTO BUILDING.



F1 PART SITE PLAN C
SCALE: 1" = 30'-0"

<p>CONSULTANT</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax GROUP www.atriaxgroup.com</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP</p> <p>Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI ID # 219954 Expires 03/31/25 RCD0 03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title PART SITE PLAN C - TELECOM</p> <p>Approved: Chief Engineer</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p> <p>FULLY SPRINKLERED</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p> <p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p> <p>Issue Date 03/08/2024</p>	<p>Project Number 679-20-104</p> <p>Building Number</p> <p>Drawing Number TG004.C</p>
---	---	--	--	---	--	---	--	---



GENERAL NOTES

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. WHERE NO NEW DUCTBANK IS SHOWN CONNECTING TO A BUILDING WITHIN THE SCOPE OF WORK (BUILDINGS: 001, 002, 004, 038, 039, 040, 063, 135, & 137) CONDUIT PATHWAY WITHIN CORRIDORS, BREEZEWAYS, AND 'BUILDING CONNECTOR HALLWAYS' SHALL BE UTILIZED AS PATHWAY FROM THE AFOREMENTIONED BUILDINGS TO THE DATA CENTER IN BUILDING 151. THE PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE AND DIVERSE CONDUITS WITH A MINIMUM SEPARATION ON 96 INCHES HORIZONTALLY (I.E. OPPOSITE SIDES OF A CORRIDOR) AND SHALL BE INSTALLED IN SEPARATE CORRIDORS WHERE POSSIBLE.
- F. BUILDINGS 017, 046, 061, 145, 146, 147, & 149 ARE ONLY SHOWN WITH (1) DUCTBANK CONNECTION AND SHALL UTILIZE CONDUIT PATHWAY WITHIN CORRIDORS, BREEZEWAYS, AND 'BUILDING CONNECTOR HALLWAYS' AS THE REDUNDANT PATHWAY FOR THE REDUNDANT BACKBONE CABLING TO THE DATA CENTER IN BUILDING 151.
- G. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 90 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800-48 (UNLISTED CABLES ENTERING BUILDINGS).
- H. MAXIMUM DISTANCE BETWEEN OUTSIDE PLANT STRUCTURES SHALL BE 400 FEET OR 180 DEGREES OF BEND.
- I. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR FULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- J. TYPICAL DEPTH OF DUCTBANK IS TO BE 36 INCHES BELOW GRADE.
- K. DUCTBANK SHALL BE CONCRETE ENCASED WHEN CROSSING ROADWAYS OR DRIVEWAYS.
- L. PROVIDE (2) NEW 4 INCH CONDUITS TO BUILDINGS AND BETWEEN TELECOMMUNICATIONS STRUCTURES UNLESS OTHERWISE NOTED.

BUILDING SCHEDULE

MARK	DESCRIPTION
1	ADMINISTRATIVE
2	ADDICTION REHAB/ ADMIN CREDIT UNION
3	RESEARCH/ SPD/ BOILER PLANT
4	AUDITORIUM
5	ADMINISTRATIVE OFFICES
6	VISIT OFFICES
7	TRANSITIONAL HOME
8	WEST ALA. HOSPICE ADMIN SPACE
9	SMOKE STACK CHIMNEY
10	CITY WATER TANK
12	WAREHOUSE
13	WATER PUMP HOUSE & TRANSFORMER
14	GAS METER HOUSE
15	TRANSITIONAL HOME
17	MAINTENANCE SHOPS BUILDING
18	LAUNDRY
25	FOUR CAR GARAGE
26	SINGLE GARAGE
27	GARAGE & STORAGE
28	GARAGE
33	EUL VALOR GROVE
33A	EUL VALOR GROVE ANNEX
37	AFPO SUBSTATION
38	PRIMARY CARE CLINIC/CANTEEN
39	STORAGE SPACE/ SALVATION ARMY
40	OT FIELD OFFICE/ CHILD CARE TRAVEL
41	CVT SHOP & GARAGE
42	ELEVATED WATER TANK
46	CHAPEL
60	MAIN PRIMARY SWITCHGEAR
61	COMMUNITY LIVING CENTER
62	AUXILIARY POWER UNIT
63	MANAGEMENT OFFICES & LIBRARY
101	GREENHOUSE
135	OUTPATIENT BLDG.
137	270 BED PSYC. BLDG.
138	CHILLER BLDG.
139	GENERATOR BLDG. (FOR BLDG. 137)
140	GENERATOR BLDG. (FOR BLDG. 2, 36)
141	GENERATOR BLDG. (FOR BLDG. 33, 39, 40)
142	CVT STORAGE BLDG.
143	DIETETICS FACILITY
144	HOSPICE OF WEST ALABAMA
145	REHAB/ REC CENTER COTTAGES
146	MAGNOLIA HOUSE
147	CAMILLA HOUSE
148	COTTAGES FIRE PUMP HOUSE
149	AZALEA HOUSE

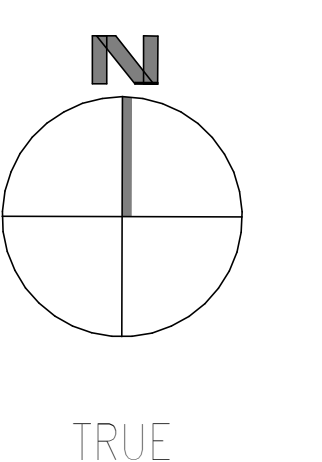
SITE LEGEND

- THH## NEW 48 INCH BY 48 INCH BY 48 INCH HANDHOLE (TELECOMMUNICATIONS) "##" INDICATES LABEL
- TMH## NEW 12 FOOT BY 7 FOOT BY 6 FOOT MAINTENANCE HOLE (TELECOMMUNICATIONS) "##" INDICATES LABEL
- (C1)(C2) C1-C2 4" CONDUIT DUCTBANK IN 2 x 1 CONFIGURATION SEE KEY NOTE "1" FOR APPLICATION
- (C1)(C2)(C3) C1-C4 4" CONDUIT DUCTBANK IN 2 x 2 CONFIGURATION SEE KEY NOTE "1" FOR APPLICATION
- (C1)(C2)(C3)(C4)(C5)(C6) C1-C4 4" CONDUIT DUCTBANK IN 3 x 2 CONFIGURATION SEE KEY NOTE "2" FOR APPLICATION

KEYNOTES:

1. (4) NEW 4 INCH CONCRETE ENCASED DUCTBANK WITH (3) 1-1/4" INNERDUCTS IN EACH DUCT
2. (6) NEW 4 INCH CONCRETE ENCASED DUCTBANK WITH (3) 1-1/4" INNERDUCTS IN EACH DUCT.
3. UTILIZE CONDUIT INSTALLED CORRIDORS, BREEZEWAYS, AND 'BUILDING CONNECTOR HALLWAYS' AS THE BACKBONE CABLING PATHWAY. SEE GENERAL NOTES "E", "F" AND "G" ON THIS SHEET FOR ADDITIONAL DETAIL.
4. REFER TO SHEET TN017.0 FOR CONDUIT CONTINUATION INTO BUILDING.
5. REFER TO SHEET TN046.0 FOR CONDUIT CONTINUATION INTO BUILDING.
6. REFER TO SHEET TN039.0 FOR CONDUIT CONTINUATION INTO BUILDING.
7. REFER TO SHEET TN143.1 FOR CONDUIT CONTINUATION INTO BUILDING.
8. REFER TO SHEET TN156 FOR CONDUIT CONTINUATION INTO BUILDING.

F1 PART SITE PLAN D
SCALE: 1" = 30'-0"



	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	 SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title PART SITE PLAN D - TELECOM Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED	Project Title EHRM INFRASTRUCTURE UPGRADES Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024	Project Number 679-20-104 Building Number Drawing Number TG004.D Checked JMM Drawn JEH
--	---	---	---	------------------	---	---	--	--	--

GENERAL NOTES

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. WHERE NO NEW DUCTBANK IS SHOWN CONNECTING TO A BUILDING WITHIN THE SCOPE OF WORK (BUILDINGS: 001, 002, 004, 038, 039, 040, 063, 135, & 137) CONDUIT PATHWAY WITHIN CORRIDORS, BREEZEWAYS, AND 'BUILDING CONNECTOR HALLWAYS' SHALL BE UTILIZED AS PATHWAY FROM THE AFOREMENTIONED BUILDINGS TO THE DATA CENTER IN BUILDING 151. THE PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE AND DIVERSE CONDUITS WITH A MINIMUM SEPARATION OF 96 INCHES HORIZONTALLY (I.E. OPPOSITE SIDES OF A CORRIDOR) AND SHALL BE INSTALLED IN SEPARATE CORRIDORS WHERE POSSIBLE.
- F. BUILDINGS 017, 046, 061, 145, 146, 147, & 149 ARE ONLY SHOWN WITH (1) DUCTBANK CONNECTION AND SHALL UTILIZE CONDUIT PATHWAY WITHIN CORRIDORS, BREEZEWAYS, AND 'BUILDING CONNECTOR HALLWAYS' AS THE REDUNDANT PATHWAY FOR THE REDUNDANT BACKBONE CABLING TO THE DATA CENTER IN BUILDING 151.
- G. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- H. MAXIMUM DISTANCE BETWEEN OUTSIDE PLANT STRUCTURES SHALL BE 400 FEET OR 180 DEGREES OF BEND.
- I. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- J. TYPICAL DEPTH OF DUCTBANK IS TO BE 36 INCHES BELOW GRADE.
- K. DUCTBANK SHALL BE CONCRETE ENCASED WHEN CROSSING ROADWAYS OR DRIVEWAYS.
- L. PROVIDE (2) NEW 4 INCH CONDUITS TO BUILDINGS AND BETWEEN TELECOMMUNICATIONS STRUCTURES UNLESS OTHERWISE NOTED.

KEYNOTES:

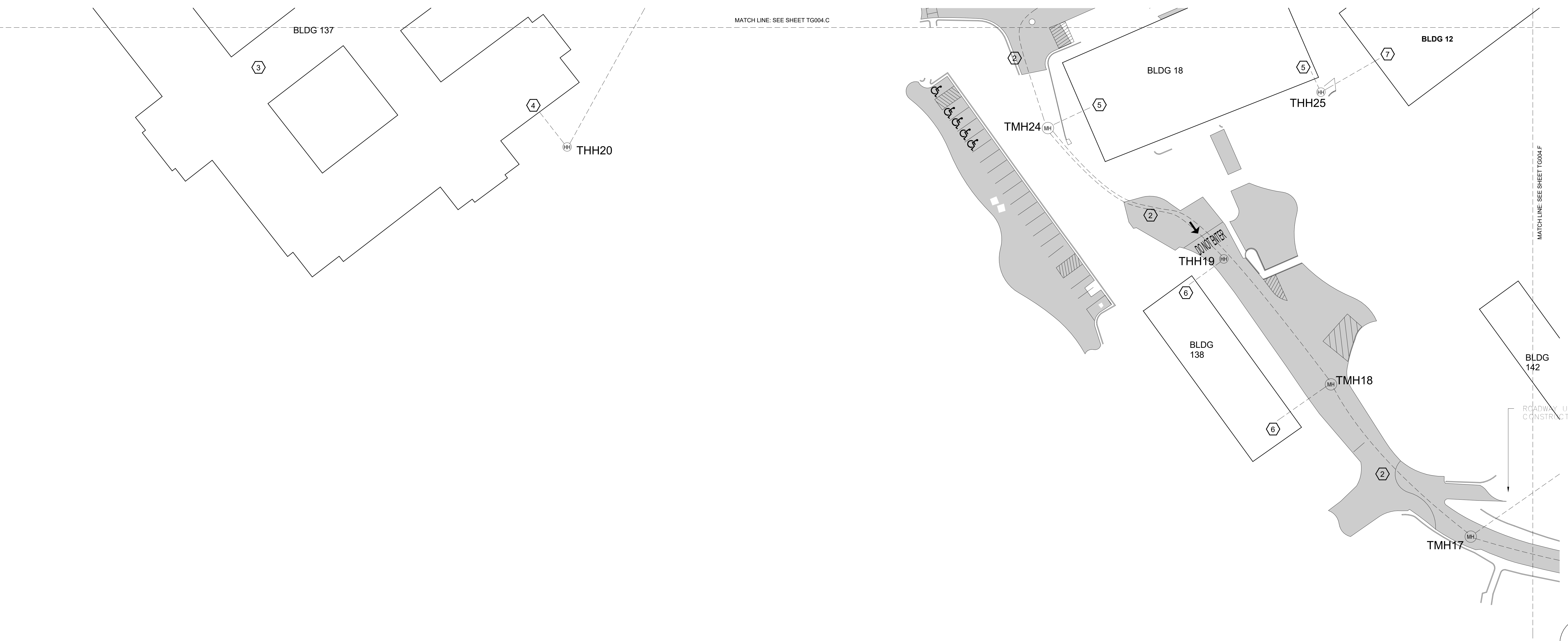
- 1. (4) NEW 4 INCH CONCRETE ENCASED DUCTBANK WITH (3) 1-1/4" INNERDUCTS IN EACH DUCT.
- 2. (6) NEW 4 INCH CONCRETE ENCASED DUCTBANK WITH (3) 1-1/4" INNERDUCTS IN EACH DUCT.
- 3. UTILIZE CONDUIT INSTALLED CORRIDORS, BREEZEWAYS, AND 'BUILDING CONNECTOR HALLWAYS' AS THE BACKBONE CABLING PATHWAY. SEE GENERAL NOTES "E", "F" AND "G" ON THIS SHEET FOR ADDITIONAL DETAIL.
- 4. REFER TO SHEET TN137.1 FOR CONDUIT CONTINUATION INTO BUILDING.
- 5. REFER TO SHEET TN018.1 FOR CONDUIT CONTINUATION INTO BUILDING.
- 6. REFER TO SHEET TN138.0 FOR CONDUIT CONTINUATION INTO BUILDING.
- 7. REFER TO SHEET TN012.B FOR CONDUIT CONTINUATION INTO BUILDING.

SITE LEGEND

THH##	(HH)	NEW 48 INCH BY 48 INCH BY 48 INCH HANDHOLE (TELECOMMUNICATIONS) *## INDICATES LABEL
TMH##	(MH)	NEW 12 FOOT BY 7 FOOT BY 6 FOOT MAINTENANCE HOLE (TELECOMMUNICATIONS) *## INDICATES LABEL
	(C1)(C2)	C1-C2 4" CONDUIT DUCTBANK IN 2 x 1 CONFIGURATION SEE GENERAL NOTE "L" FOR APPLICATION
	(C1)(C2)(C3)(C4)	C1-C4 4" CONDUIT DUCTBANK IN 2 x 2 CONFIGURATION SEE KEY NOTE "1" FOR APPLICATION
	(C1)(C2)(C3)(C4)(C5)(C6)	C1-C4 4" CONDUIT DUCTBANK IN 3 x 2 CONFIGURATION SEE KEY NOTE "2" FOR APPLICATION

BUILDING SCHEDULE MARK DESCRIPTION

1	ADMINISTRATIVE
2	ADDICTION REHAB/ ADMIN/ CREDIT UNION
3	RESEARCH/ SPD/ BOILER PLANT
4	AUDITORIUM
5	ADMINISTRATIVE OFFICES
6	VISN 7 OFFICES
7	TRANSITIONAL HOME
8	WEST ALA. HOSPICE ADMIN SPACE
9	SMOKE STACK CHIMNEY
10	CITY WATER TANK
11	WAREHOUSE
12	WATER PUMP HOUSE & TRANSFORMER
13	GAS METER HOUSE
14	TRANSITIONAL HOME
15	MAINTENANCE SHOPS BUILDING
16	LAUNDRY
17	FOUR CAR GARAGE
18	SINGLE GARAGE
19	GARAGE & STORAGE
20	GARAGE
21	EUL VALOR GROVE
22	EUL VALOR GROVE ANNEX
23	APCO SUBSTATION
24	PRIMARY CARE CLINICS/CANTEEN
25	STORAGE SPACE/ SALVATION ARMY
26	OIT FIELD OFFICE/ CHILD CARE/ TRAVEL
27	CWT SHOP & GARAGE
28	ELEVATED WATER TANK
29	CHAPEL
30	MAIN PRIMARY SWITCHGEAR
31	COMMUNITY LIVING CENTER
32	AUXILIARY POWER UNIT
33	MANAGEMENT OFFICES & LIBRARY
34	GREENHOUSE
35	OUTPATIENT BLDG.
36	270 BED PSYC. BLDG.
37	CHILLER BLDG.
38	GENERATOR BLDG. (FOR BLDG. 137)
39	GENERATOR BLDG. (FOR BLDG. 2, 38)
40	GENERATOR BLDG. (FOR BLDG. 33,39,40)
41	CWT STORAGE BLDG.
42	DIETETICS FACILITY
43	HOSPICE OF WEST ALABAMA
44	REHAB/ REC CENTER COTTAGES
45	MAGNOLIA HOUSE
46	CAMILLA HOUSE
47	COTTAGES FIRE PUMP HOUSE
48	AZALEA HOUSE
49	



F1 PART SITE PLAN E
SCALE: 1" = 30'-0"

	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION TECHNOLOGIST 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title PART SITE PLAN E - TELECOM Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED	Project Title EHRM INFRASTRUCTURE UPGRADES Project Number 679-20-104 Building Number	Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024 Checked JMM Drawn JEH	Drawing Number TG004.E
--	---	---	---	--	---	---	--	--	--	----------------------------------

1 2 3 4 5 6 7 8 9 10

A
B
C
D
E
F

KEYNOTES:

- (4) NEW 4 INCH CONCRETE ENCASED DUCTBANK WITH (3) 1-1/4" INNERDUCTS IN EACH DUCT.
- (6) NEW 4 INCH CONCRETE ENCASED DUCTBANK WITH (3) 1-1/4" INNERDUCTS IN EACH DUCT.
- UTILIZE CONDUIT INSTALLED CORRIDORS, BREEZEWAYS, AND "BUILDING CONNECTOR HALLWAYS" AS THE BACKBONE CABLING PATHWAY. SEE GENERAL NOTES "E", "F" AND "G" ON THIS SHEET FOR ADDITIONAL DETAIL.
- REFER TO SHEET TN041.1 FOR CONDUIT CONTINUATION INTO BUILDING.
- REFER TO SHEET TN040.B FOR CONDUIT CONTINUATION INTO BUILDING.

SITE LEGEND

THH##	NEW 48 INCH BY 48 INCH BY 48 INCH HANDHOLE (TELECOMMUNICATIONS) *### INDICATES LABEL
TMH##	NEW 12 FOOT BY 7 FOOT BY 6 FOOT MAINTENANCE HOLE (TELECOMMUNICATIONS) *### INDICATES LABEL
C1-C2	C1-C2 4" CONDUIT DUCTBANK IN 2 x 1 CONFIGURATION SEE GENERAL NOTE "L" FOR APPLICATION
C1-C4	C1-C4 4" CONDUIT DUCTBANK IN 2 x 2 CONFIGURATION SEE KEY NOTE "1" FOR APPLICATION
C1-C4	C1-C4 4" CONDUIT DUCTBANK IN 3 x 2 CONFIGURATION SEE KEY NOTE "2" FOR APPLICATION

BUILDING SCHEDULE

MARK	DESCRIPTION
1	ADMINISTRATIVE
2	ADDICTION REHAB/ ADMIN CREDIT UNION
3	RESEARCH/ SPD/ BOILER PLANT
4	AUDITORIUM
5	ADMINISTRATIVE OFFICES
6	VISIT OFFICES
7	TRANSITIONAL HOME
8	WEST ALA. HOSPICE ADMIN SPACE
9	SMOKE STACK CHIMNEY
10	CITY WATER TANK
12	WAREHOUSE
13	WATER PUMP HOUSE & TRANSFORMER
14	GAS METER HOUSE
15	TRANSITIONAL HOME
17	MAINTENANCE SHOPS BUILDING
18	LAUNDRY
25	FOUR CAR GARAGE
26	SINGLE GARAGE
27	GARAGE & STORAGE
28	GARAGE
33	EUL VALOR GROVE
33A	EUL VALOR GROVE ANNEX
37	AFPO SUBSTATION
38	PRIMARY CARE CLINICS/CANTEEN
39	STORAGE SPACE/ SALVATION ARMY
40	OT FIELD OFFICE/ CHILD CARE TRAVEL
41	CWT SHOP & GARAGE
42	ELEVATED WATER TANK
46	CHAPEL
60	MAIN PRIMARY SWITCHGEAR
61	COMMUNITY LIVING CENTER
62	AUXILIARY POWER UNIT
63	MANAGEMENT OFFICES & LIBRARY
101	GREENHOUSE
135	OUTPATIENT BLDG.
137	270 BED PSYC. BLDG.
138	CHILLER BLDG.
139	GENERATOR BLDG. (FOR BLDG. 137)
140	GENERATOR BLDG. (FOR BLDG. 2, 36)
141	GENERATOR BLDG. (FOR BLDG. 33, 39, 40)
142	CWT STORAGE BLDG.
143	DIETETICS FACILITY
144	HOSPICE OF WEST ALABAMA
145	REHAB/ REC CENTER COTTAGES
146	MAGNOLIA HOUSE
147	CAMILIA HOUSE
148	COTTAGES FIRE PUMP HOUSE
149	AZALEA HOUSE

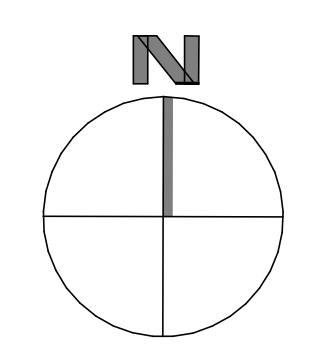
GENERAL NOTES

- SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- WHERE NO NEW DUCTBANK IS SHOWN CONNECTING TO A BUILDING WITHIN THE SCOPE OF WORK (BUILDINGS: 001, 002, 004, 038, 039, 040, 063, 135, & 137) CONDUIT PATHWAY WITHIN CORRIDORS, BREEZEWAYS, AND "BUILDING CONNECTOR HALLWAYS" SHALL BE UTILIZED AS PATHWAY FROM THE AFOREMENTIONED BUILDINGS TO THE DATA CENTER IN BUILDING 151. THE PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE AND DIVERSE CONDUITS WITH A MINIMUM SEPARATION ON 96 INCHES HORIZONTALLY (I.E. OPPOSITE SIDES OF A CORRIDOR) AND SHALL BE INSTALLED IN SEPARATE CORRIDORS WHERE POSSIBLE.
- BUILDINGS 017, 046, 061, 145, 146, 147, & 149 ARE ONLY SHOWN WITH (1) DUCTBANK CONNECTION AND SHALL UTILIZE CONDUIT PATHWAY WITHIN CORRIDORS, BREEZEWAYS, AND "BUILDING CONNECTOR HALLWAYS" AS THE REDUNDANT PATHWAY FOR THE REDUNDANT BACKBONE CABLING TO THE DATA CENTER IN BUILDING 151.
- CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- MAXIMUM DISTANCE BETWEEN OUTSIDE PLANT STRUCTURES SHALL BE 400 FEET OR 180 DEGREES OF BEND.
- MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- TYPICAL DEPTH OF DUCTBANK IS TO BE 36 INCHES BELOW GRADE.
- DUCTBANK SHALL BE CONCRETE ENCASED WHEN CROSSING ROADWAYS OR DRIVEWAYS.
- PROVIDE (2) NEW 4 INCH CONDUITS TO BUILDINGS AND BETWEEN TELECOMMUNICATIONS STRUCTURES UNLESS OTHERWISE NOTED.



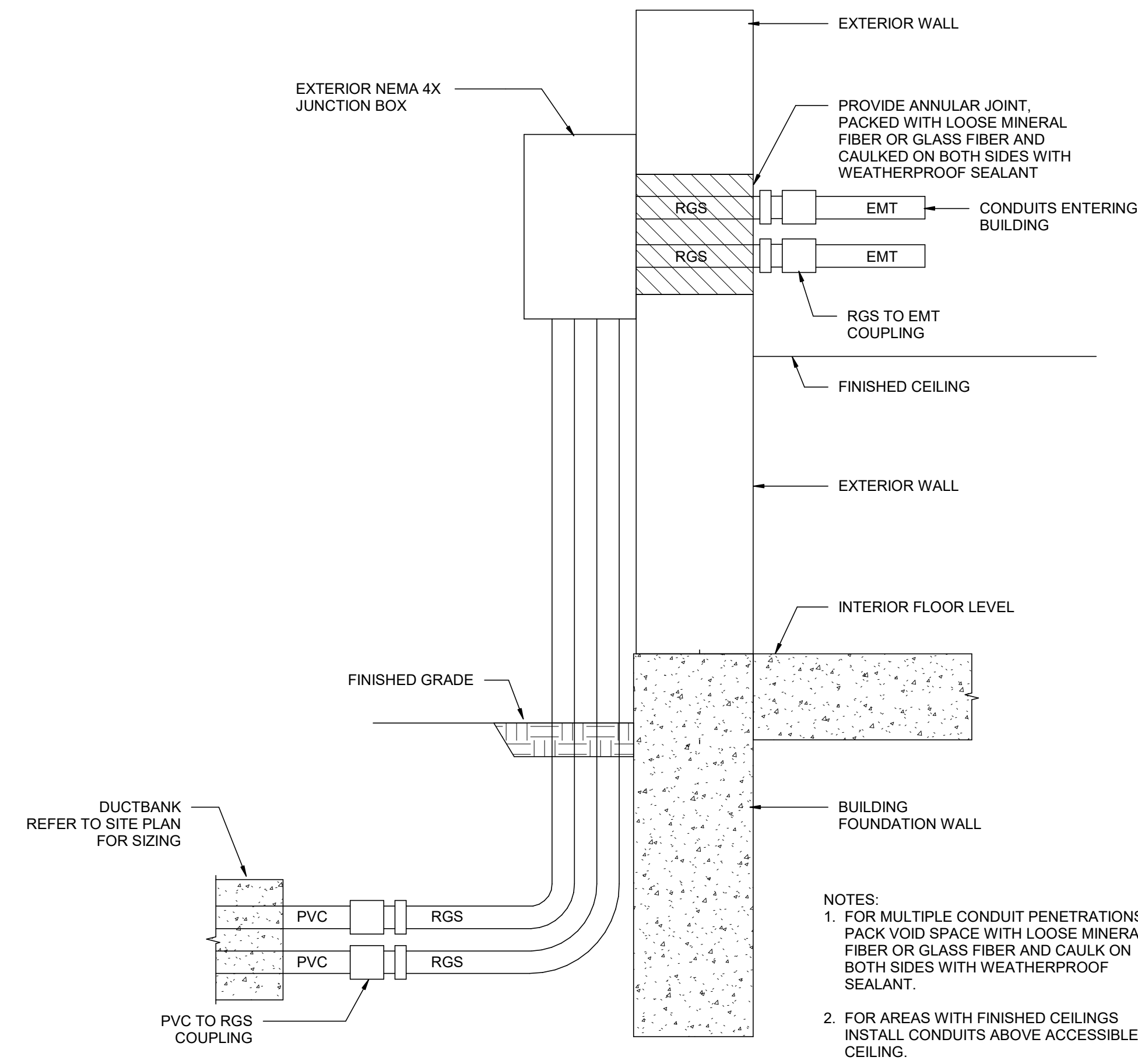
F1 PART SITE PLAN F

SCALE: 1" = 30'-0"



Revisions: Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi Registered Communications Distributor BICSI 107 # 219954 Expires 03/31/25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title PART SITE PLAN F - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
						Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Drawing Number TG004.F

1 2 3 4 5 6 7 8 9 10

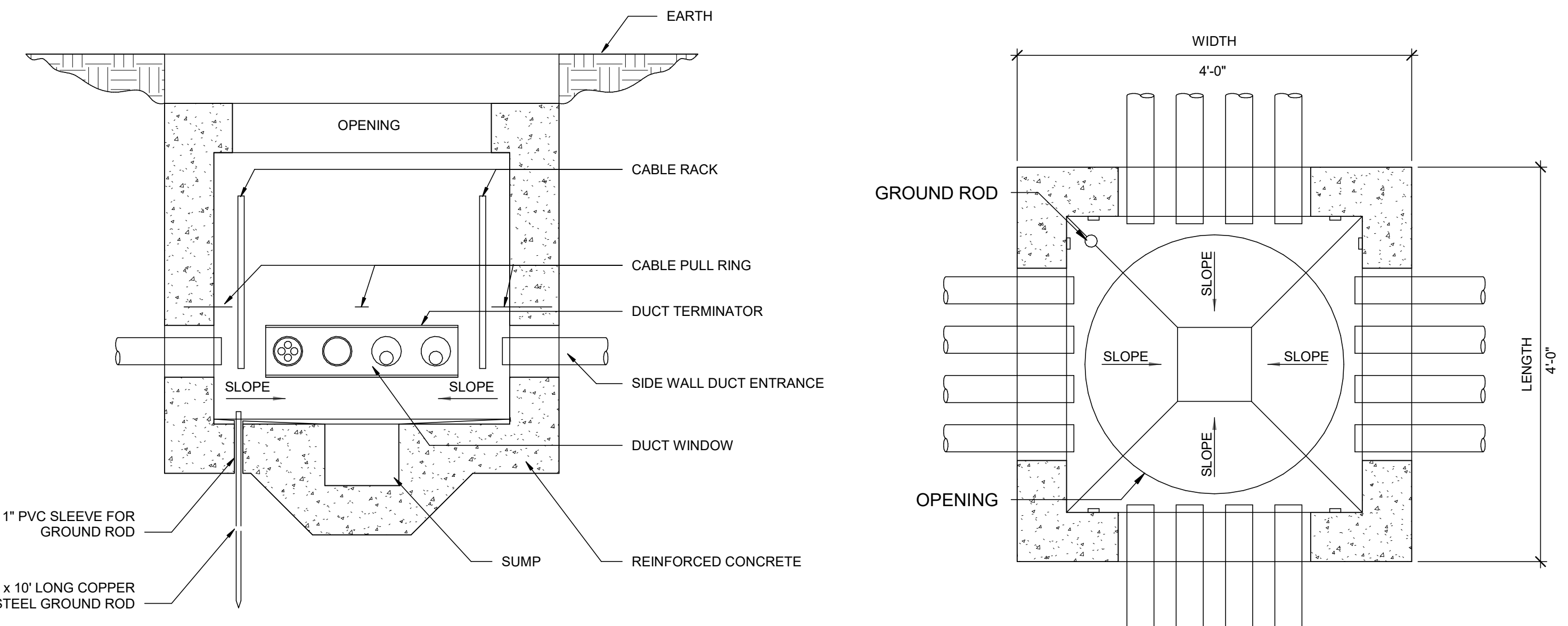


- NOTES:
1. FOR MULTIPLE CONDUIT PENETRATIONS, PACK VOID SPACE WITH LOOSE MINERAL FIBER OR GLASS FIBER AND CAULK ON BOTH SIDES WITH WEATHERPROOF SEALANT.
 2. FOR AREAS WITH FINISHED CEILINGS, INSTALL CONDUITS ABOVE ACCESSIBLE CEILING.

C1 TYPICAL TELECOM DUCTBANK EXTERIOR TRANSITION INTO BUILDING

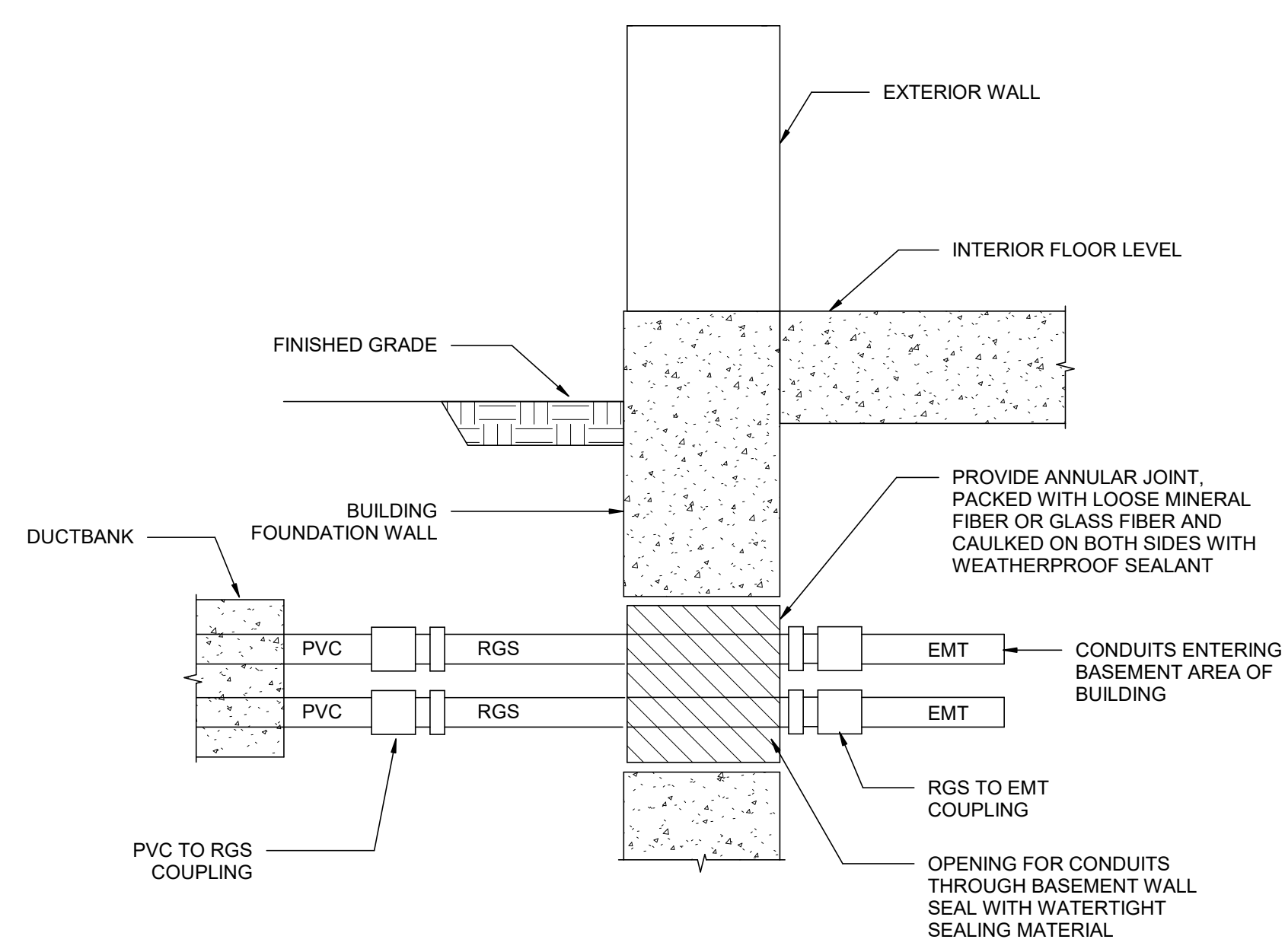
SCALE: NONE

NOTES: HANDHOLE OVERALL DIMENSION MUST BE A MINIMUM 4' X 4' (WxLxD), FULLY ENCLOSED EXCEPT FOR DRAINAGE AND CONSTRUCTED OF CONCRETE. HANDHOLE COVER MUST BE LABELED "COMMUNICATIONS" AND MUST BE LOCKABLE WITH A GSA APPROVE PADLOCK.



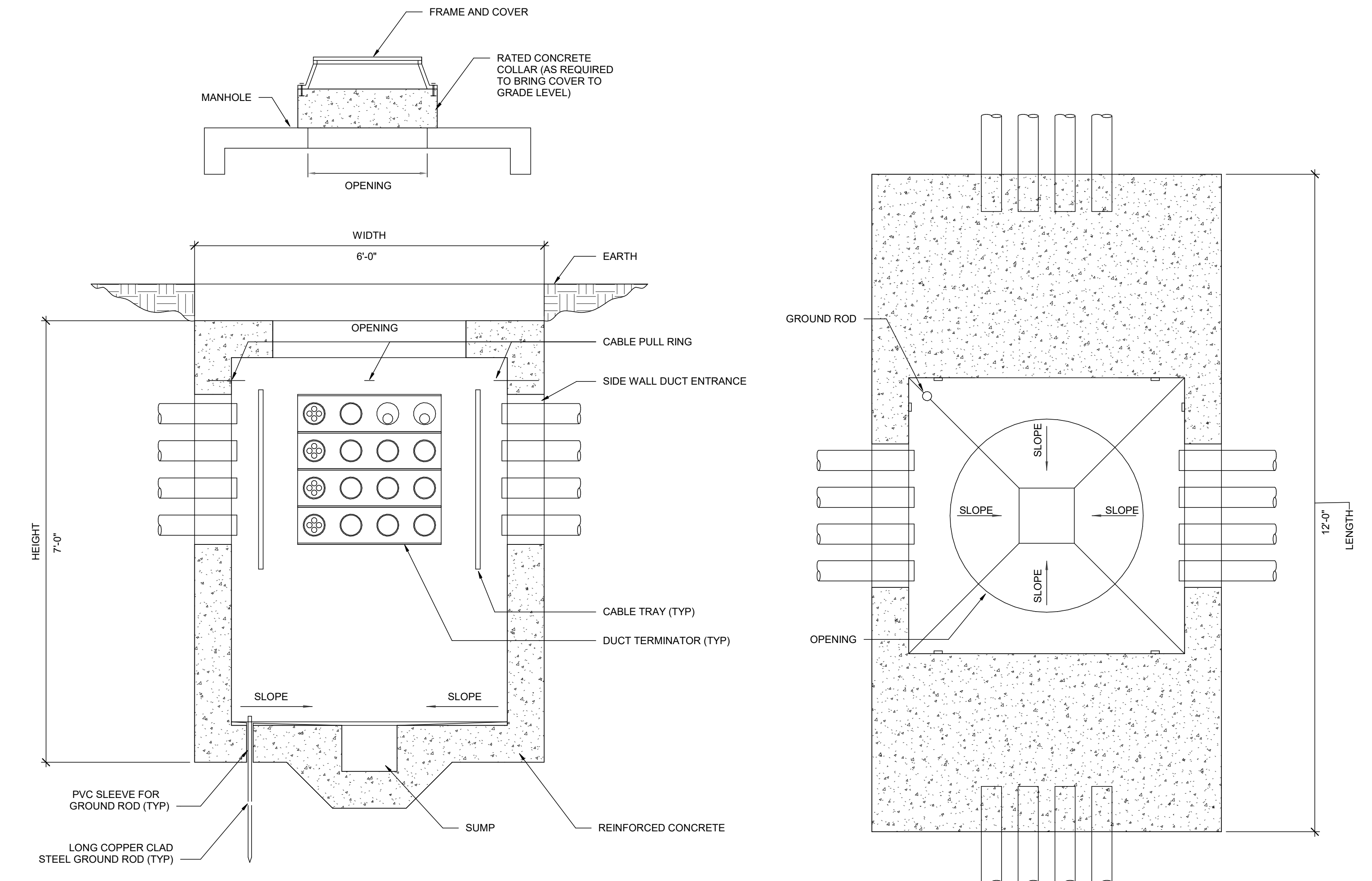
C6 TYPICAL HANDHOLE DETAIL

SCALE: NONE



F1 TYPICAL TELECOM DUCTBANK TRANSITION INTO BASEMENT

SCALE: NONE



F6 TYPICAL MANHOLE DETAIL

SCALE: NONE

- NOTE:
1. ALL SCHEDULE 40 PVC DUCTS MUST BE ENCASED IN CONCRETE.
 2. ALL DUCTS STUBBED THROUGH MANHOLE / HAND HOLE WALLS MUST BE TERMINATED AND SEALED VIA DUCT TERMINATORS.
 3. UNUSED DUCTS MUST BE STUBBED OUT AND CAPPED VIA A SOLVENT WELDED CONDUIT CAP.
 4. ORIENTATION OF MANHOLES / HAND HOLES MUST BE COORDINATED WITH THE DUCTBANK APPROACH.
 5. DEPTH OF DUCTBANKS ARE PROVIDED AS A MINIMUM FOR GENERAL INFORMATION. REFER TO CIVIL PLANS FOR PROFILES AND ACTUAL DUCT DEPTH.
 6. DUCT ARRANGEMENTS IN THESE DETAILS ARE PROVIDED FOR GENERAL INFORMATION. REFER TO DUCTBANK SECTIONS FOR ACTUAL QUANTITIES AND ARRANGEMENTS.
 7. MANHOLE / HAND HOLE COVERS MUST BE H-20 RATED.

Revisions:	Date:

CONSULTANT

WileyWilson
127 Nationwide Drive
Lynchburg, VA 24502
Phone: 434.947.1901
www.wileywilson.com

SPECIALIZED ENGINEERING SOLUTIONS
Specialized Engineering Solutions
1300 Baxter Street, Suite 355
Charlotte, NC 28204

ARCHITECT/ENGINEER OF RECORD

Atriax
www.atriaxgroup.com

Atriax, pllc
703 Main Avenue SW
PO Box 1629, Hickory, NC 28603
Phone: 828.315.9962
Fax: 828.315.9964

NC Engineering License No.: P-0214
NC Architectural License No.: 51254

STAMP

Bicsi
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICS11078239554
Expires 03/31/25
RCD0
03/08/24

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: **DETAILS**

Approved: Chief Engineer

Phase: **100% CONSTRUCTION DOCUMENTS**

Project Title: **EHRM INFRASTRUCTURE UPGRADES**

Project Number: **679-20-104**

Building Number: **TG500**

Location: **TUSCALOOSA VAMC, TUSCALOOSA, AL.**

Issue Date: **03/08/2024**

Checked: **JMM**

Drawn: **JEH**

Drawing Number: **TG500**

FULLY SPRINKLERED

1 2 3 4 5 6 7 8 9 10

A

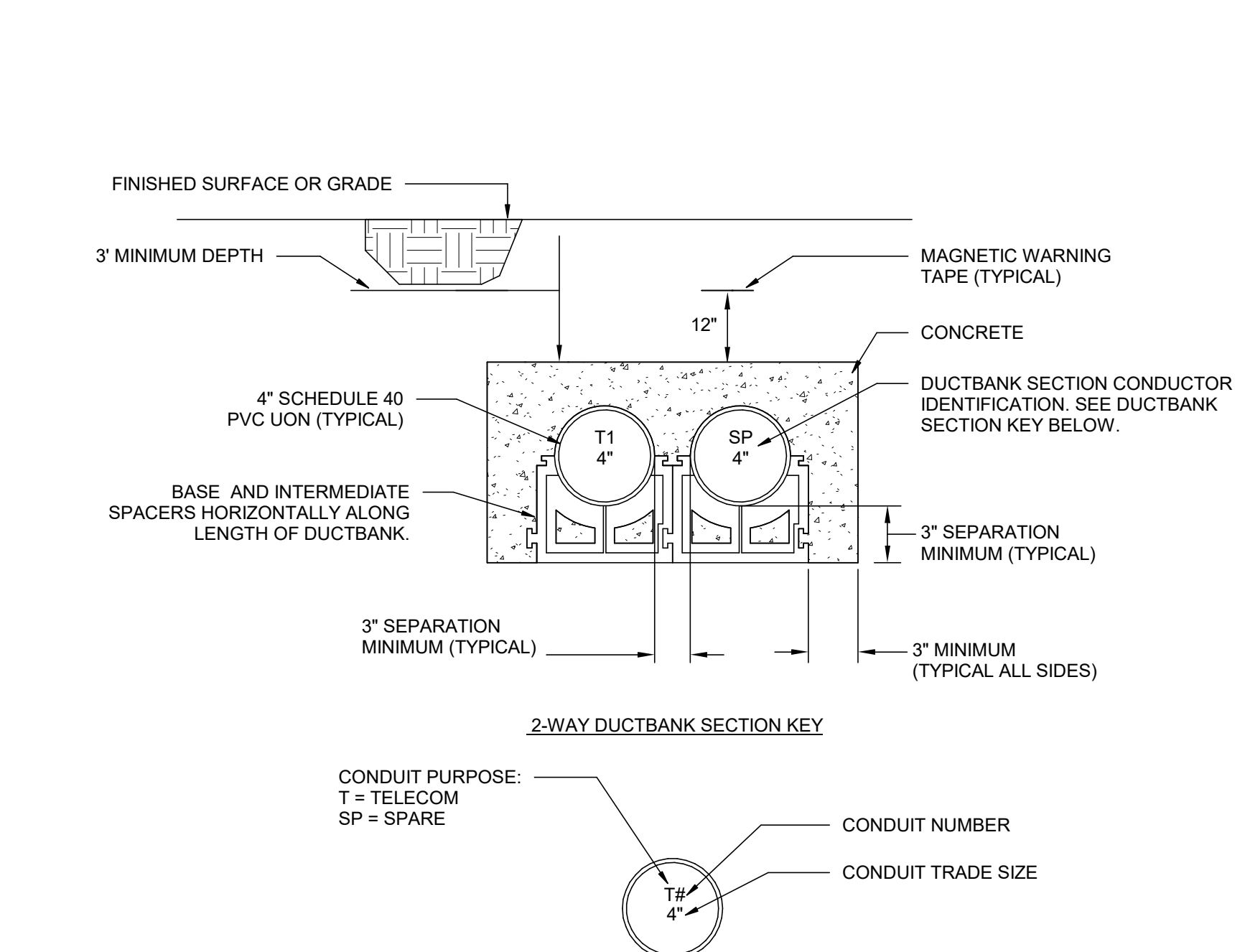
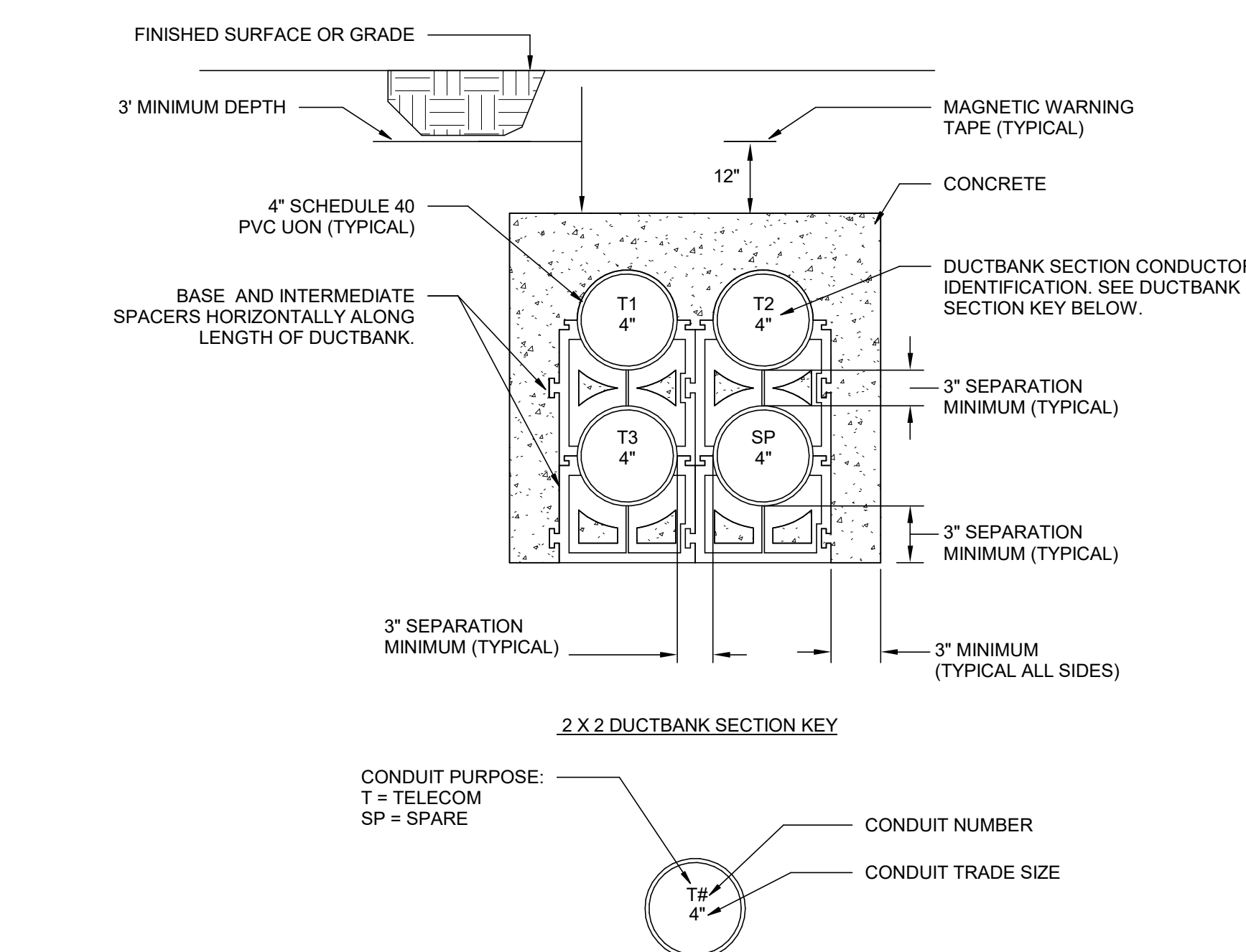
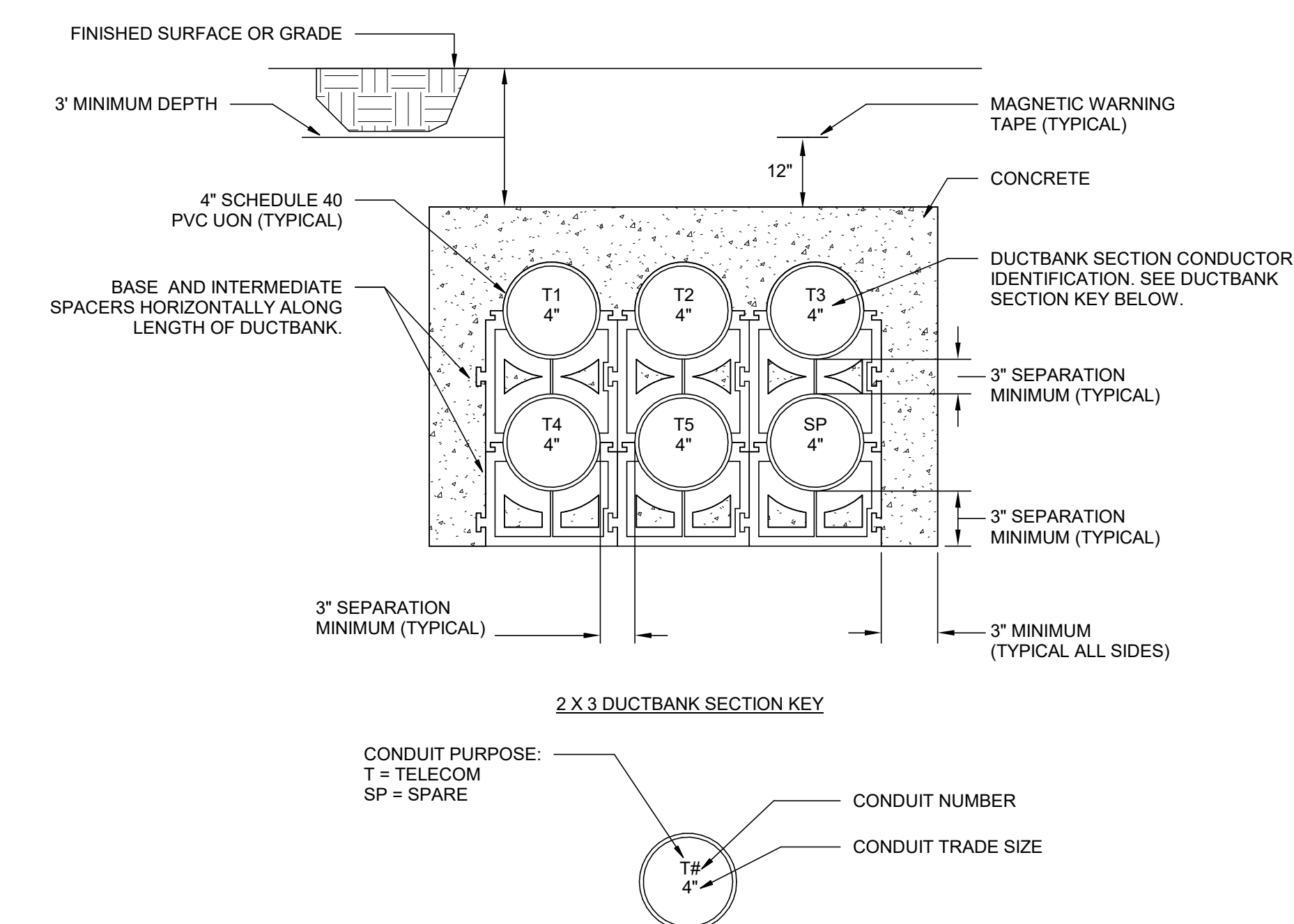
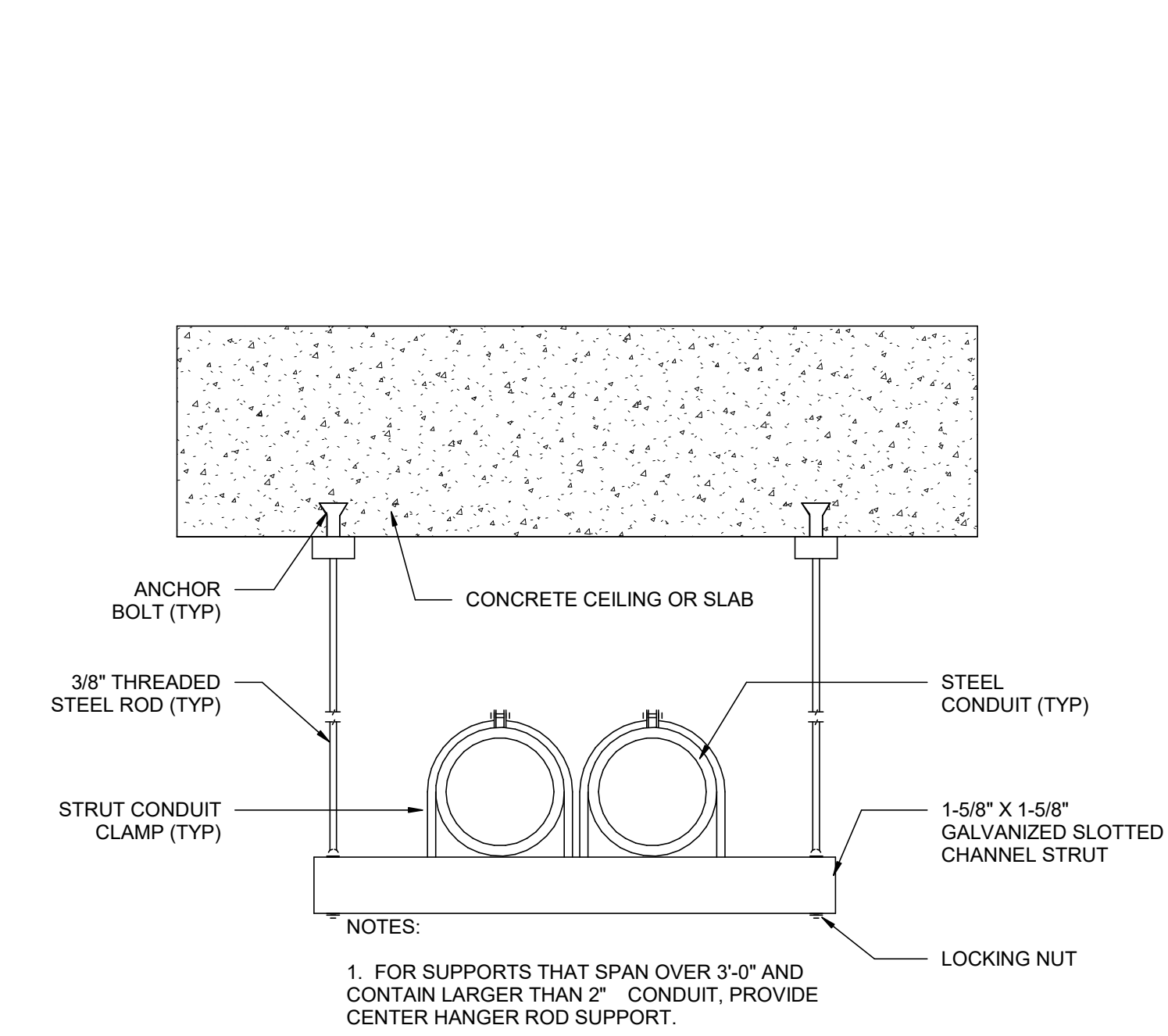
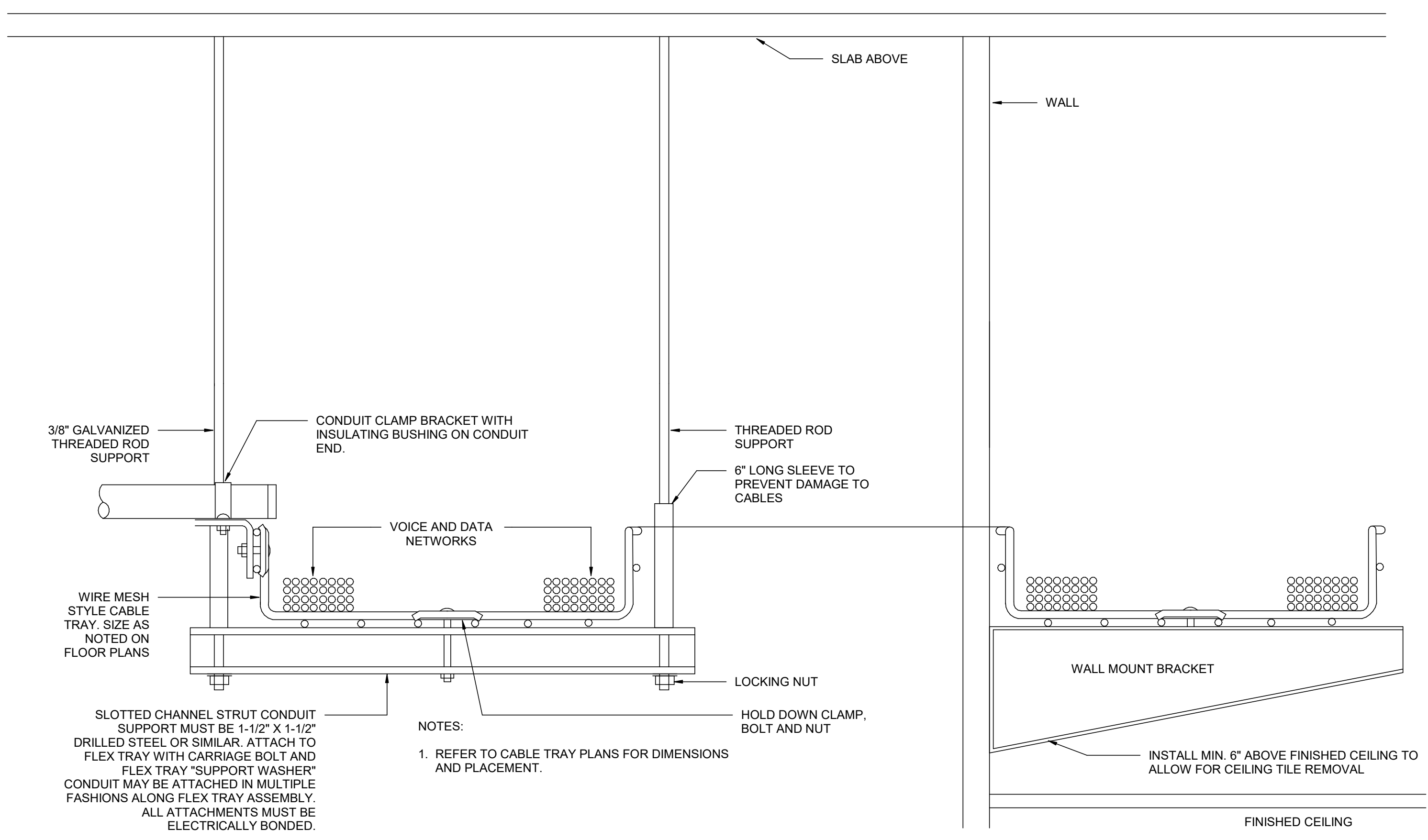
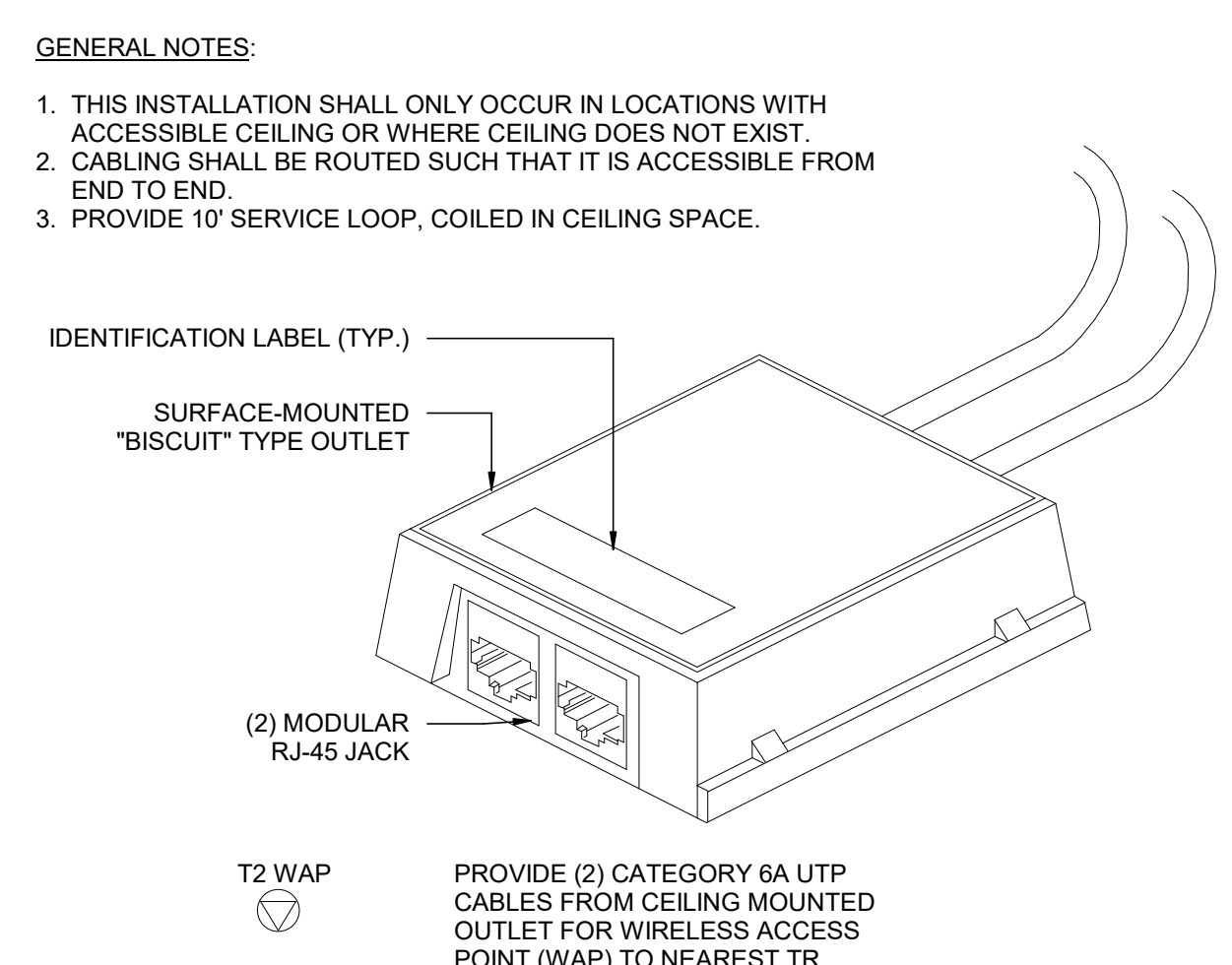
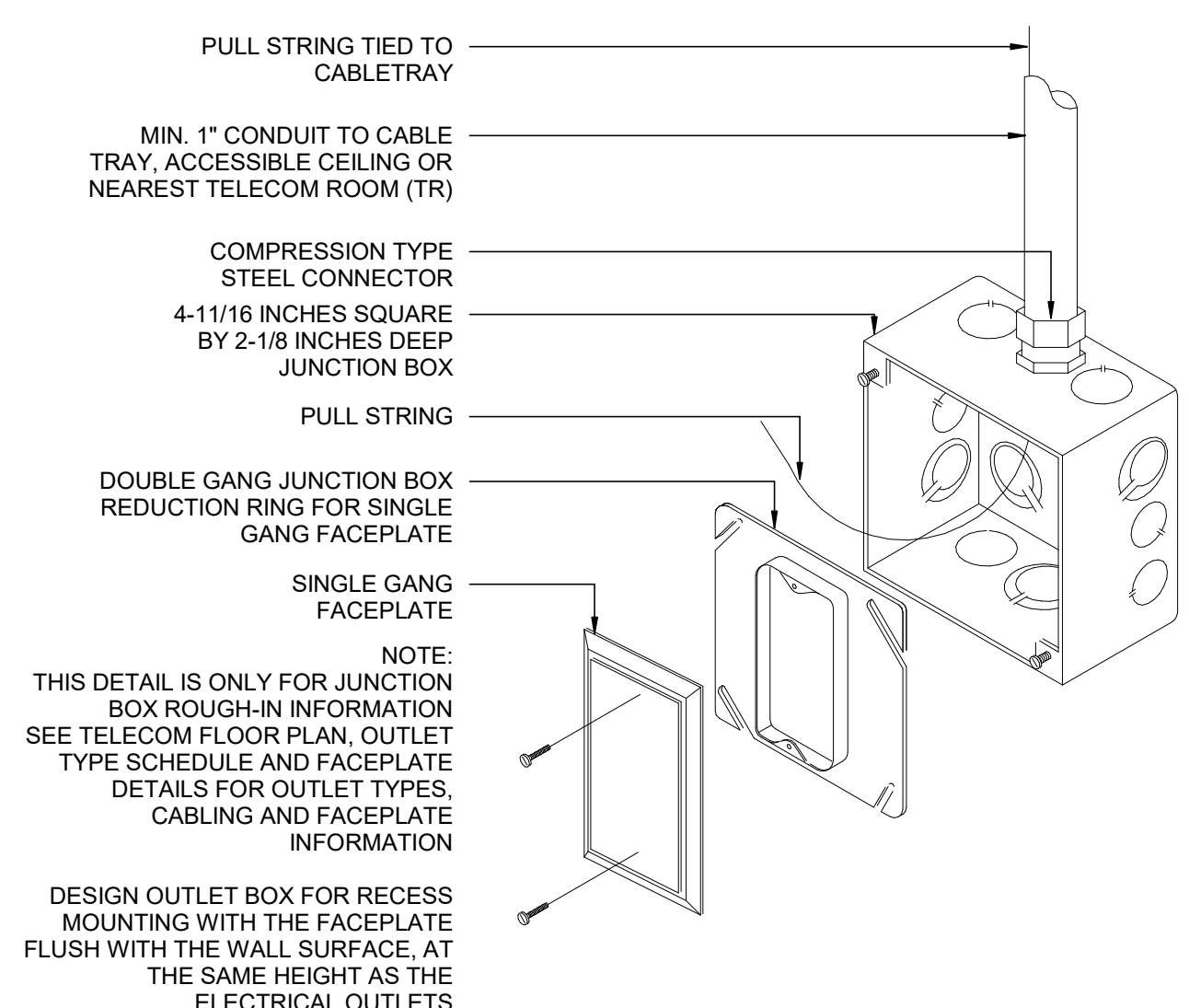
B

C

D

E

F



Revisions:	Date:

CONSULTANT

Wiley|Wilson
127 Nationwide Drive
Lynchburg, VA 24502
Phone: 434.947.1901
www.wileywilson.com

SPECIALIZED ENGINEERING SOLUTIONS
Specialized Engineering Solutions
1300 Baxter Street, Suite 355
Charlotte, NC 28204

ARCHITECT/ENGINEER OF RECORD

Atriax GROUP
www.atriaxgroup.com

Atriax, pllc
703 Main Avenue SW
PO Box 16229, Hickory, NC 28603
Phone: 828.315.9962
Fax: 828.315.9964

NC Engineering License No.: P-0214
NC Architectural License No.: 51254

STAMP

Bicsi
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICS11616 239554
Expires 03/31/25
03/08/24

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: **DETAILS**

Approved: Chief Engineer

Phase: **100% CONSTRUCTION DOCUMENTS**

Project Title: **EHRM INFRASTRUCTURE UPGRADES**

Project Number: **679-20-104**

Building Number:

Location: **TUSCALOOSA VAMC, TUSCALOOSA, AL.**

Issue Date: **03/08/2024**

Checked: **JMM**

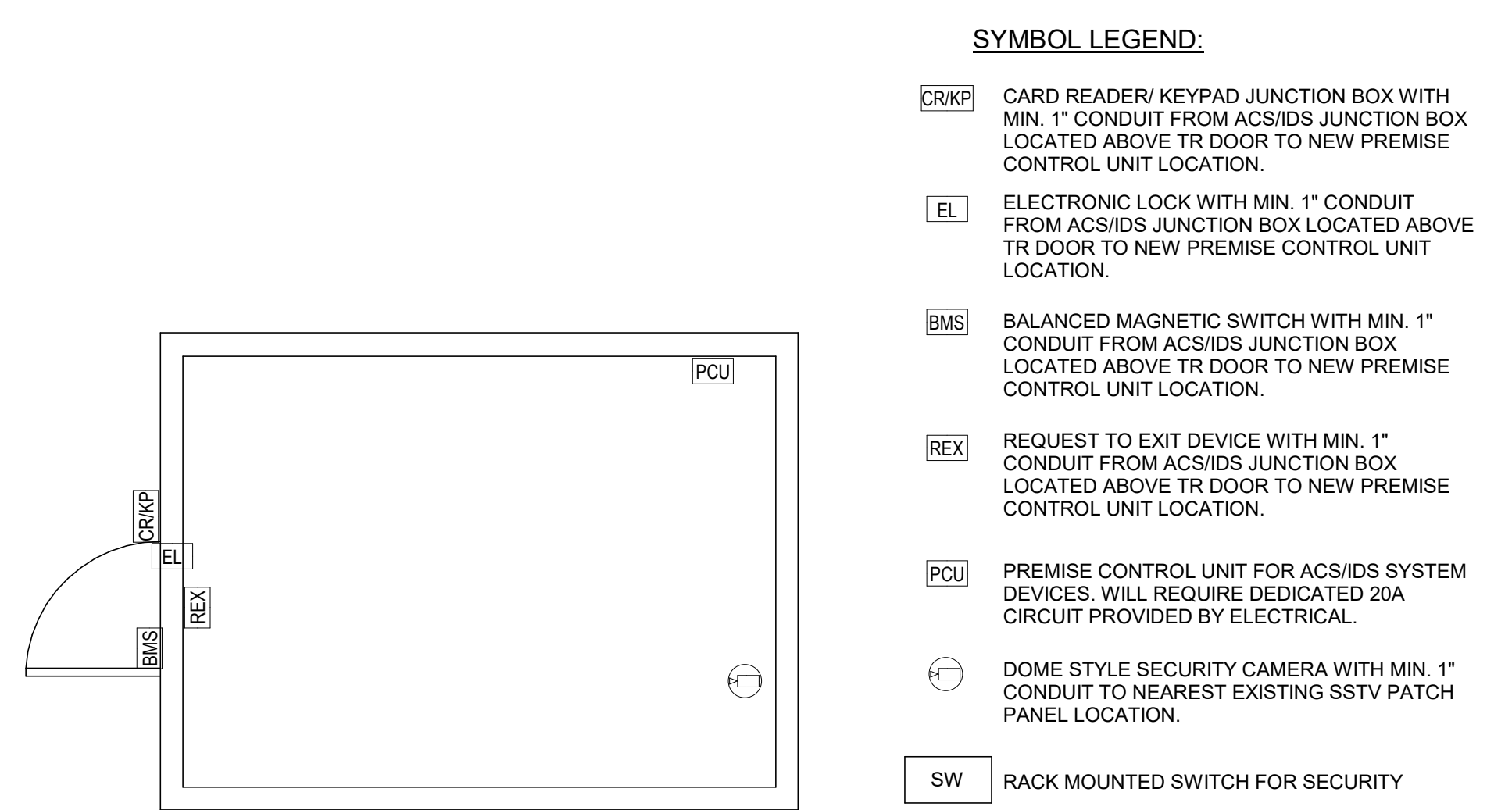
Drawn: **JEH**

Drawing Number: **TG501**

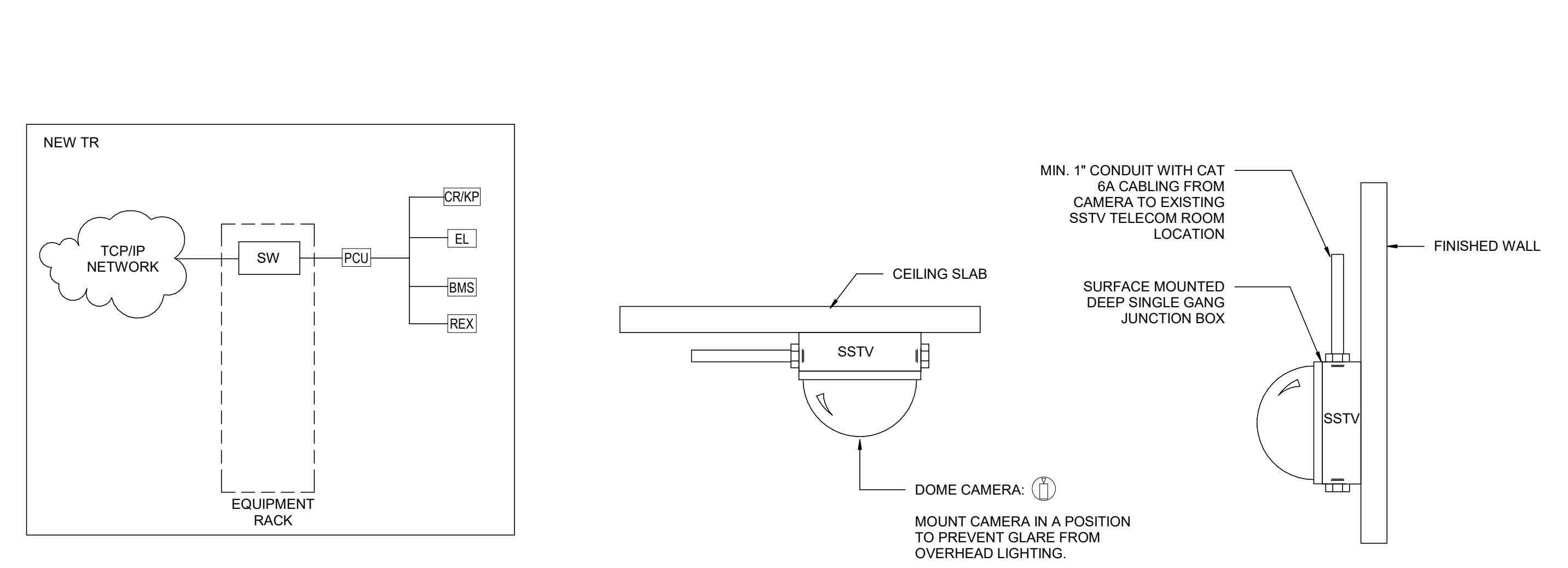
FULLY SPRINKLERED

1 2 3 4 5 6 7 8 9 10

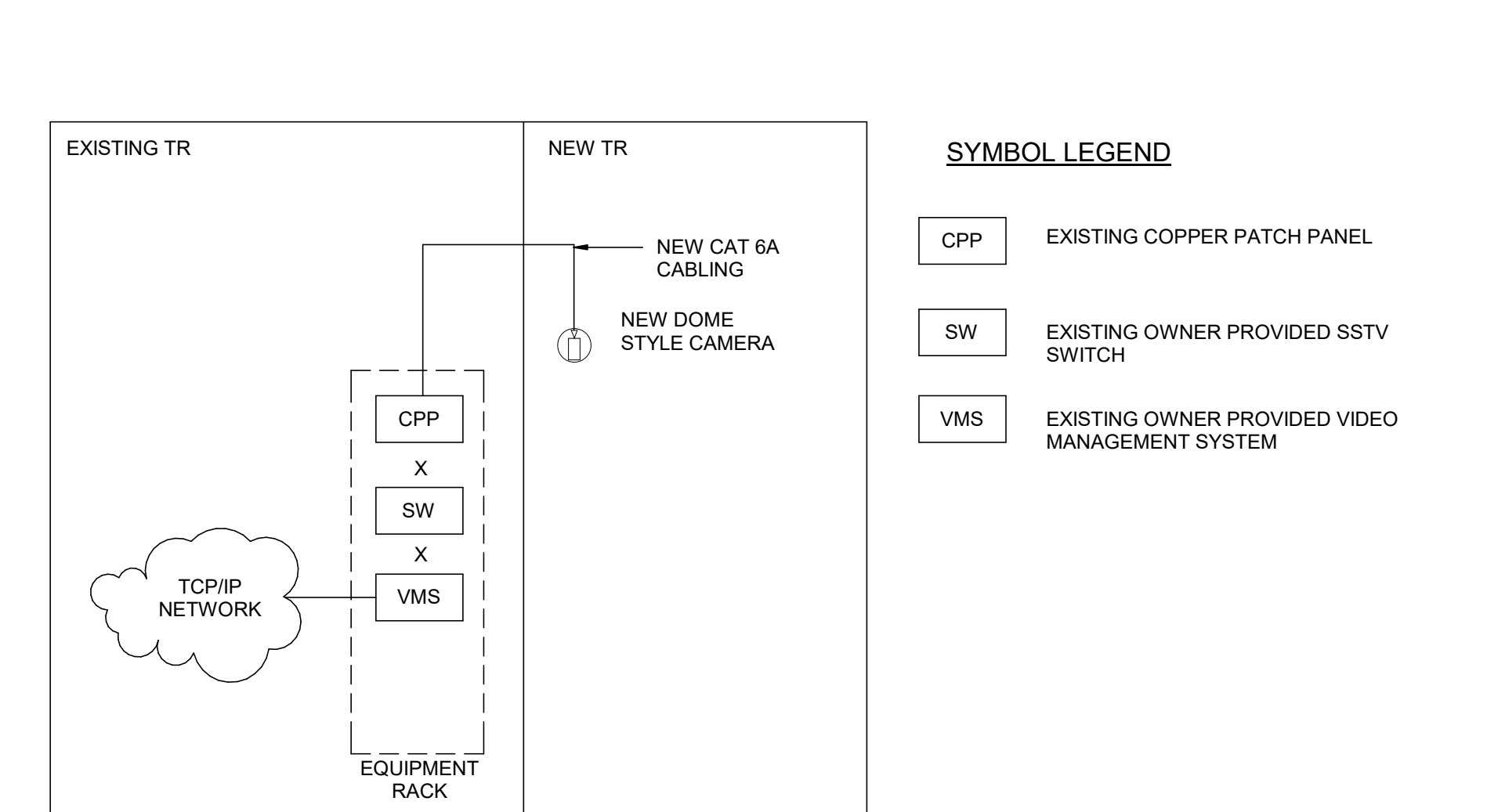
A
B
C
D
E
F



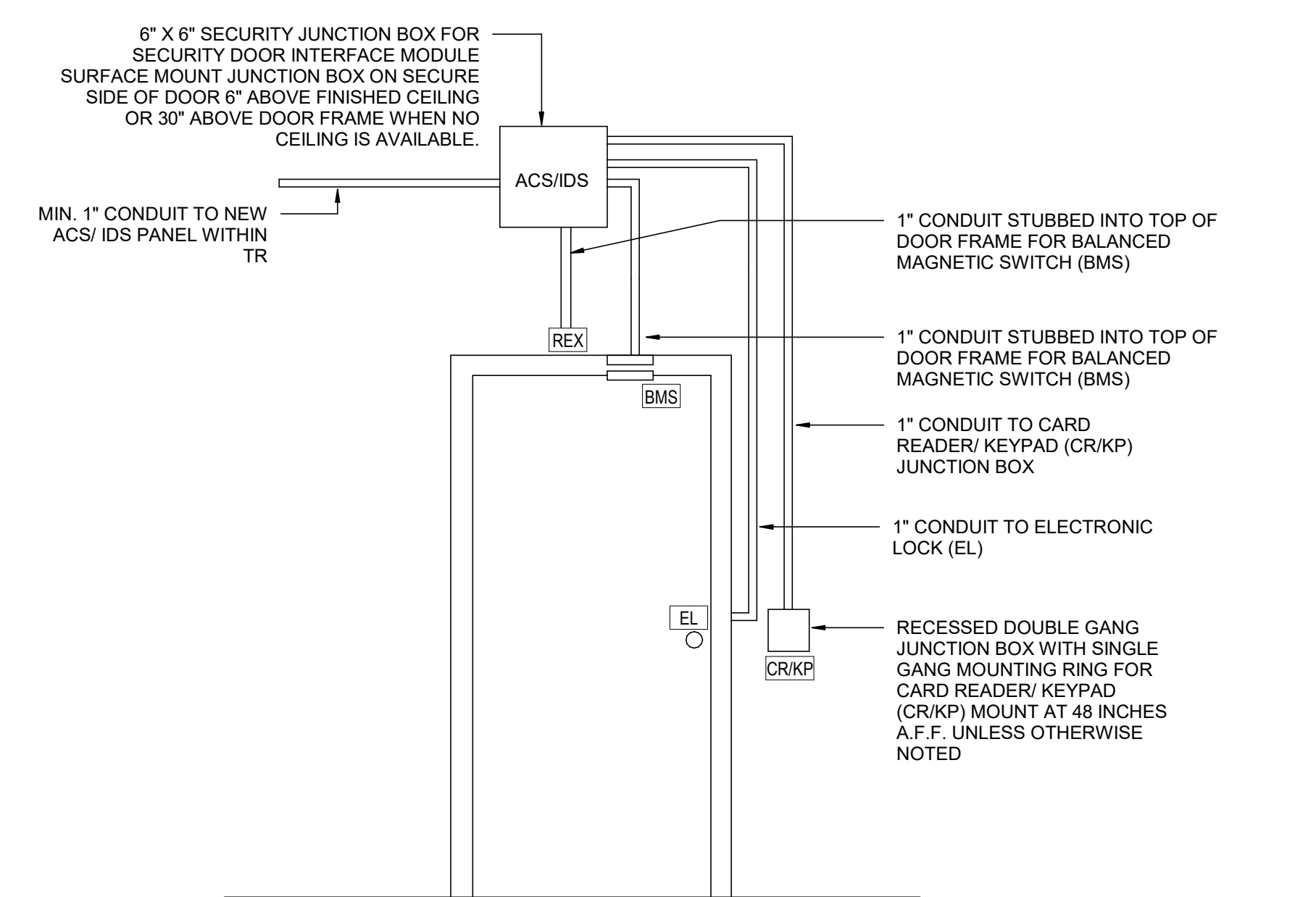
C1 TYPICAL TR SECURITY LAYOUT
SCALE: NONE



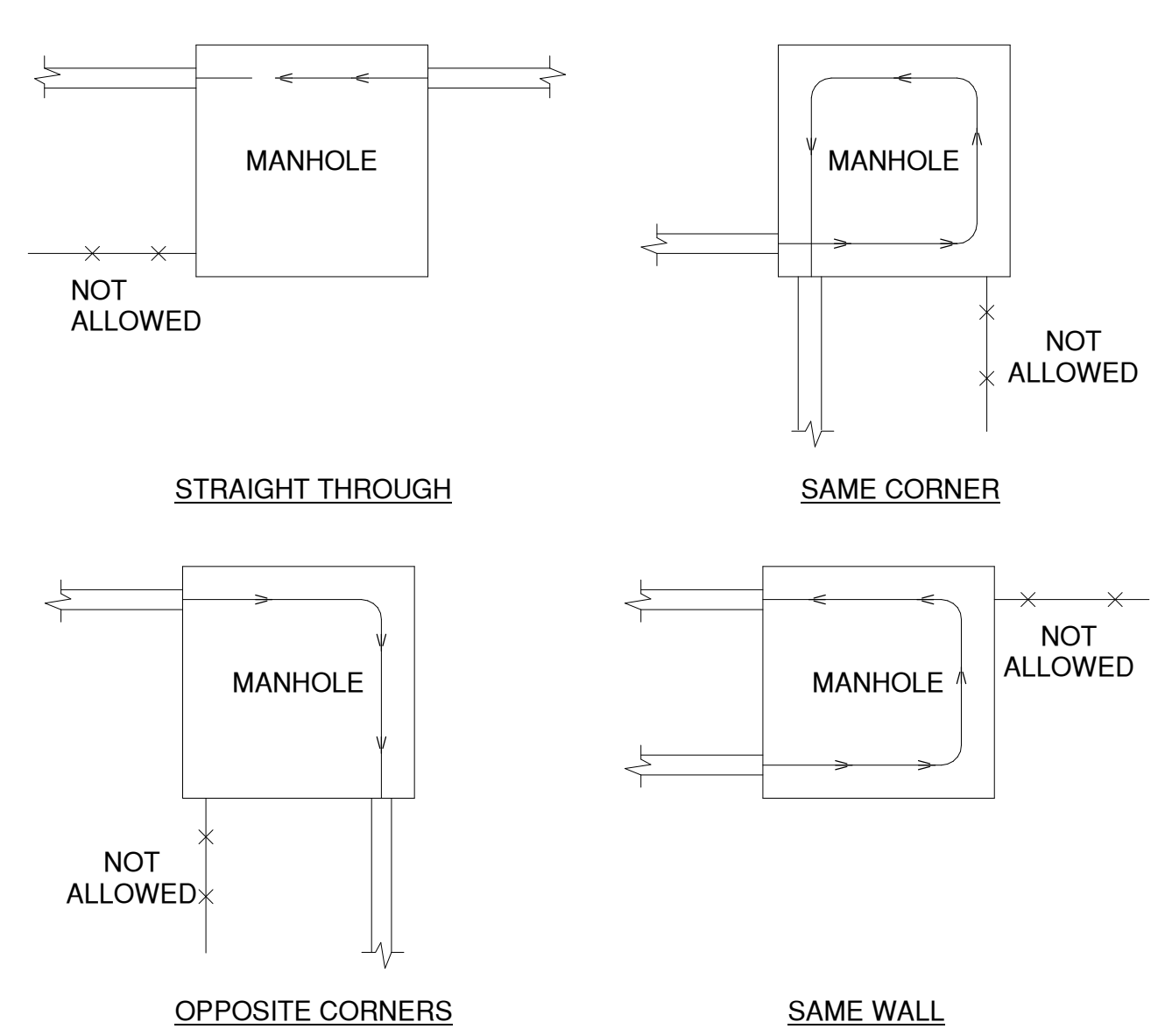
C5 TYPICAL DOME CAMERA DETAIL
SCALE: NONE



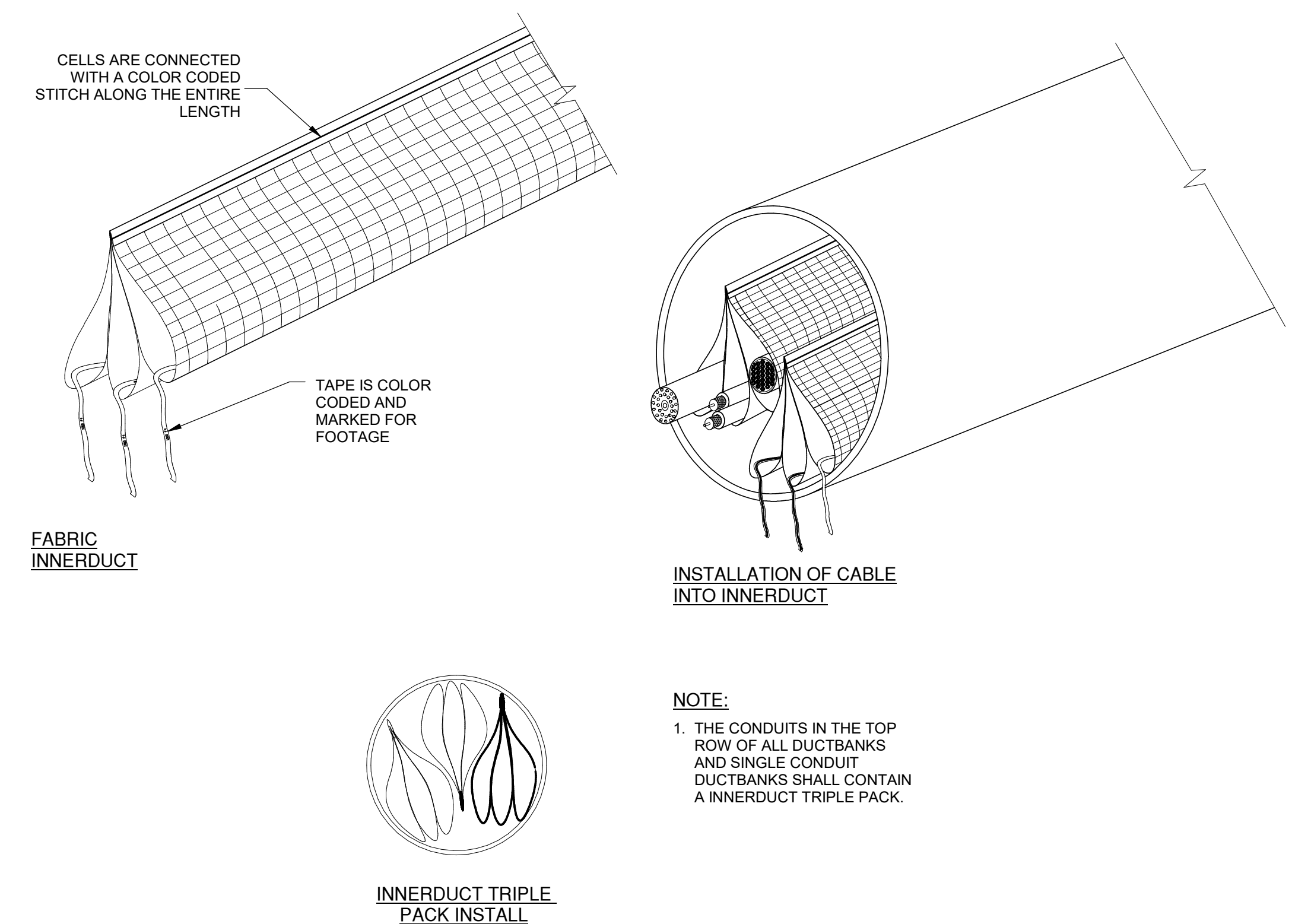
C8 TYPICAL SECURITY CAMERA SYSTEM DIAGRAM
SCALE: NONE



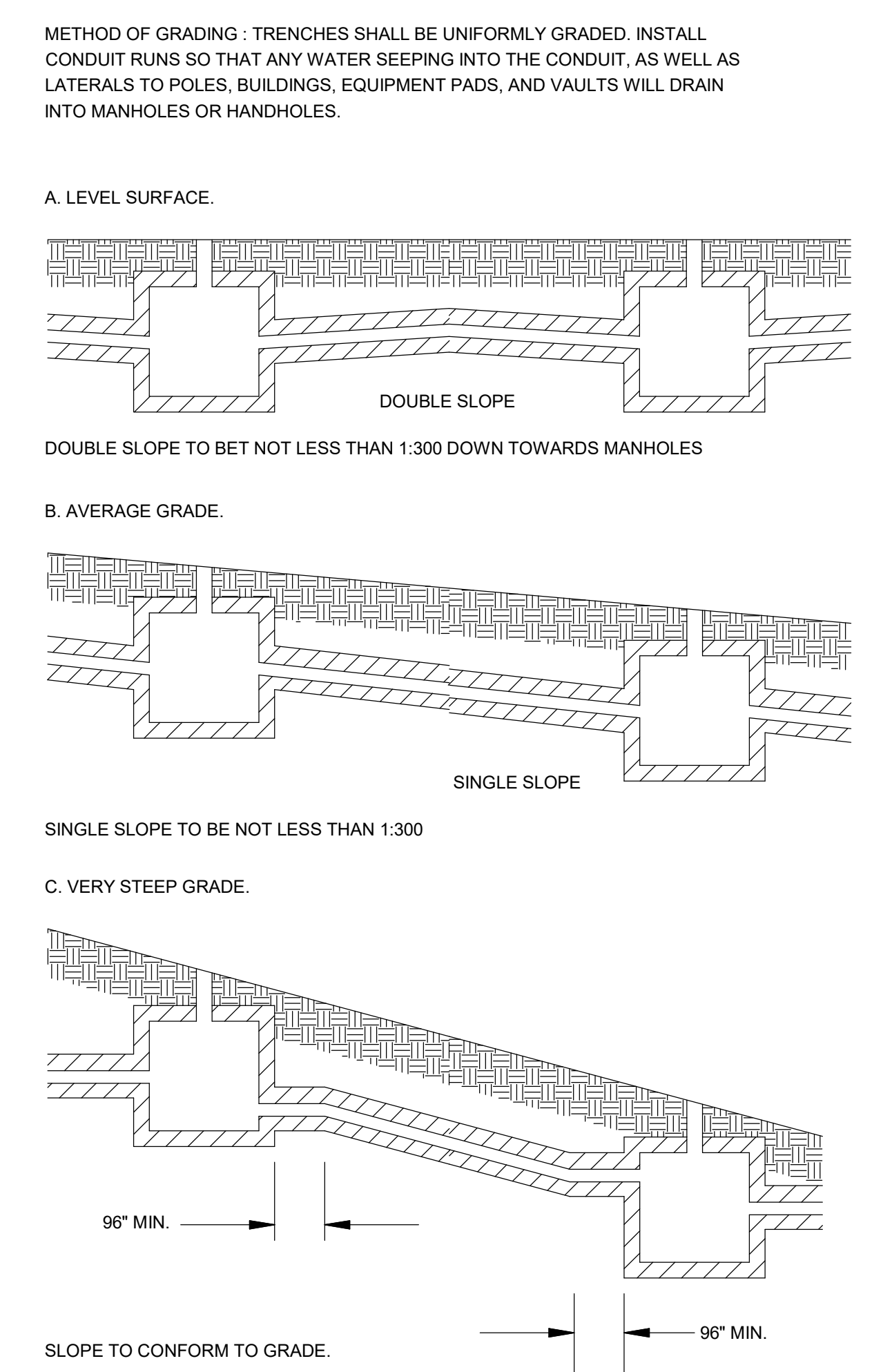
F1 TYPICAL TR DOOR - BMS, CARD READER/KEYPAD, ELEC LOCK, REX
SCALE: NONE



F3 MANHOLE CABLE ROUTING
SCALE: NONE



F6 INNERDUCT DETAIL
SCALE: NONE



F9 DUCTBANK GRADING DETAILS
SCALE: NONE

Revisions:	Date:

CONSULTANT

WileyWilson
127 Nationwide Drive
Lynchburg, VA 24502
Phone: 434.947.1901
www.wileywilson.com

SPECIALIZED ENGINEERING SOLUTIONS
Specialized Engineering Solutions
1300 Baxter Street, Suite 355
Charlotte, NC 28204

ARCHITECT/ENGINEER OF RECORD

Atriax
www.atriaxgroup.com

Atriax, pllc
703 Main Avenue SW
PO Box 1629, Hickory, NC 28603
Phone: 828.315.9962
Fax: 828.315.9964

NC Engineering License No.: P-0214
NC Architectural License No.: 51254

STAMP

Bicsi
REGISTERED COMMUNICATIONS DISTRIBUTION TECHNOLOGIST
BICSI 1076 239954
Expires 03/31/25
03/08/24

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: **DETAILS**

Approved: Chief Engineer

Phase: **100% CONSTRUCTION DOCUMENTS**

Project Title: **EHRM INFRASTRUCTURE UPGRADES**

Project Number: **679-20-104**

Building Number:

Location: **TUSCALOOSA VAMC, TUSCALOOSA, AL.**

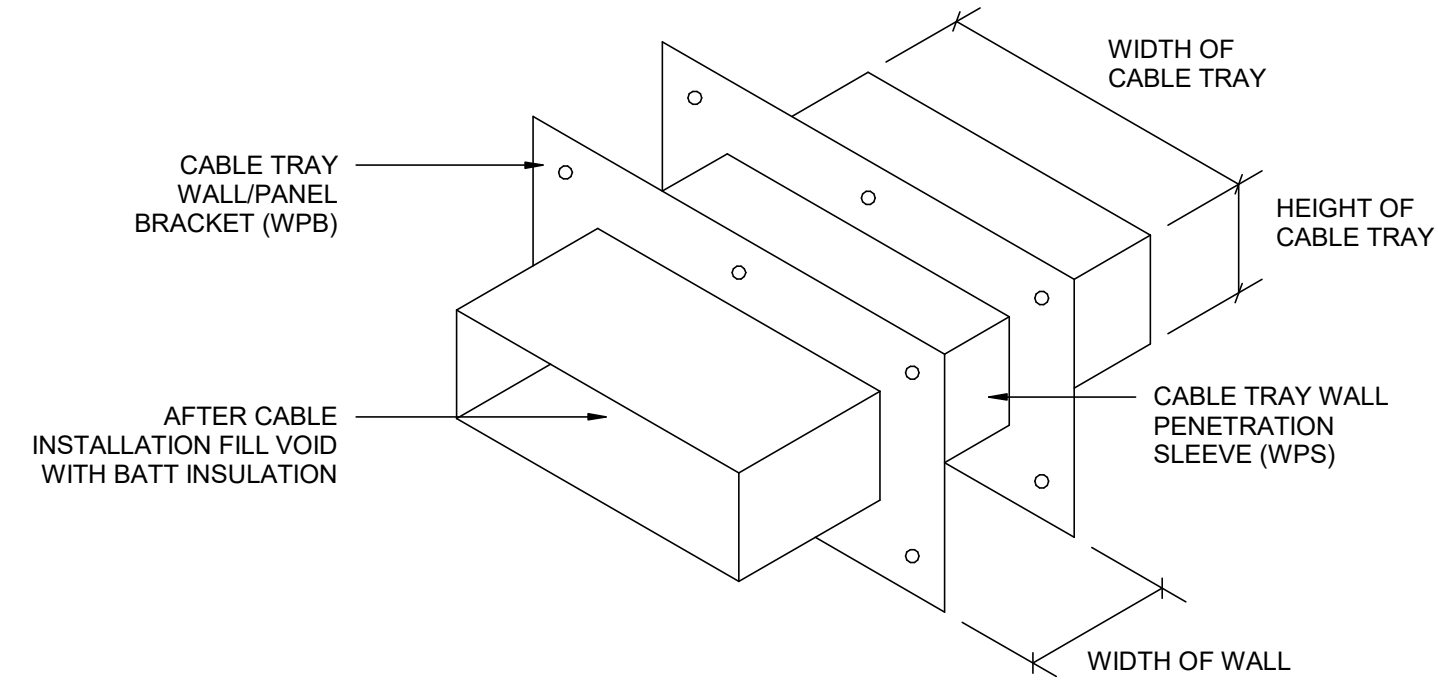
Issue Date: **03/08/2024**

Checked: **JMM**

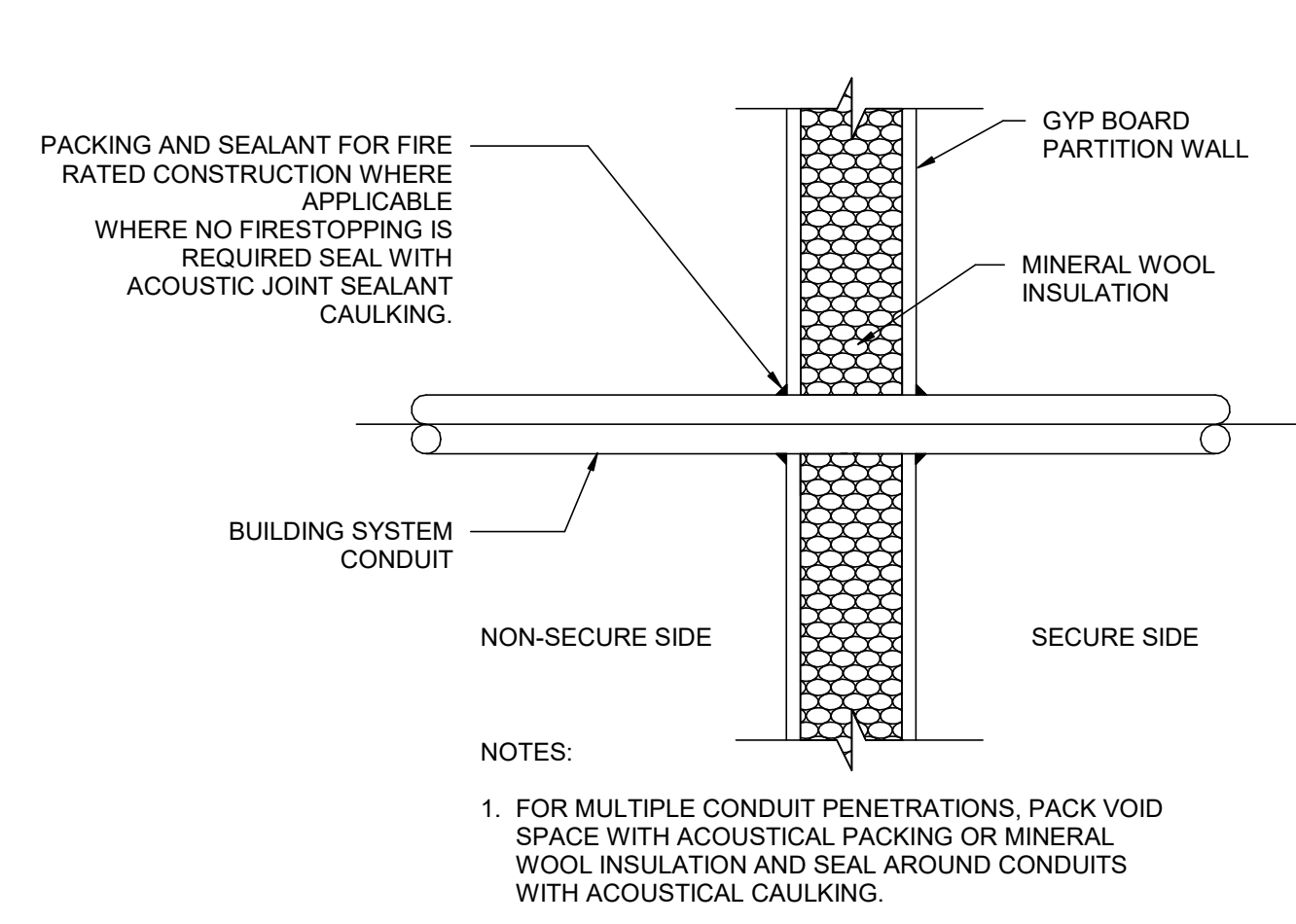
Drawn: **JEH**

Drawing Number: **TG502**

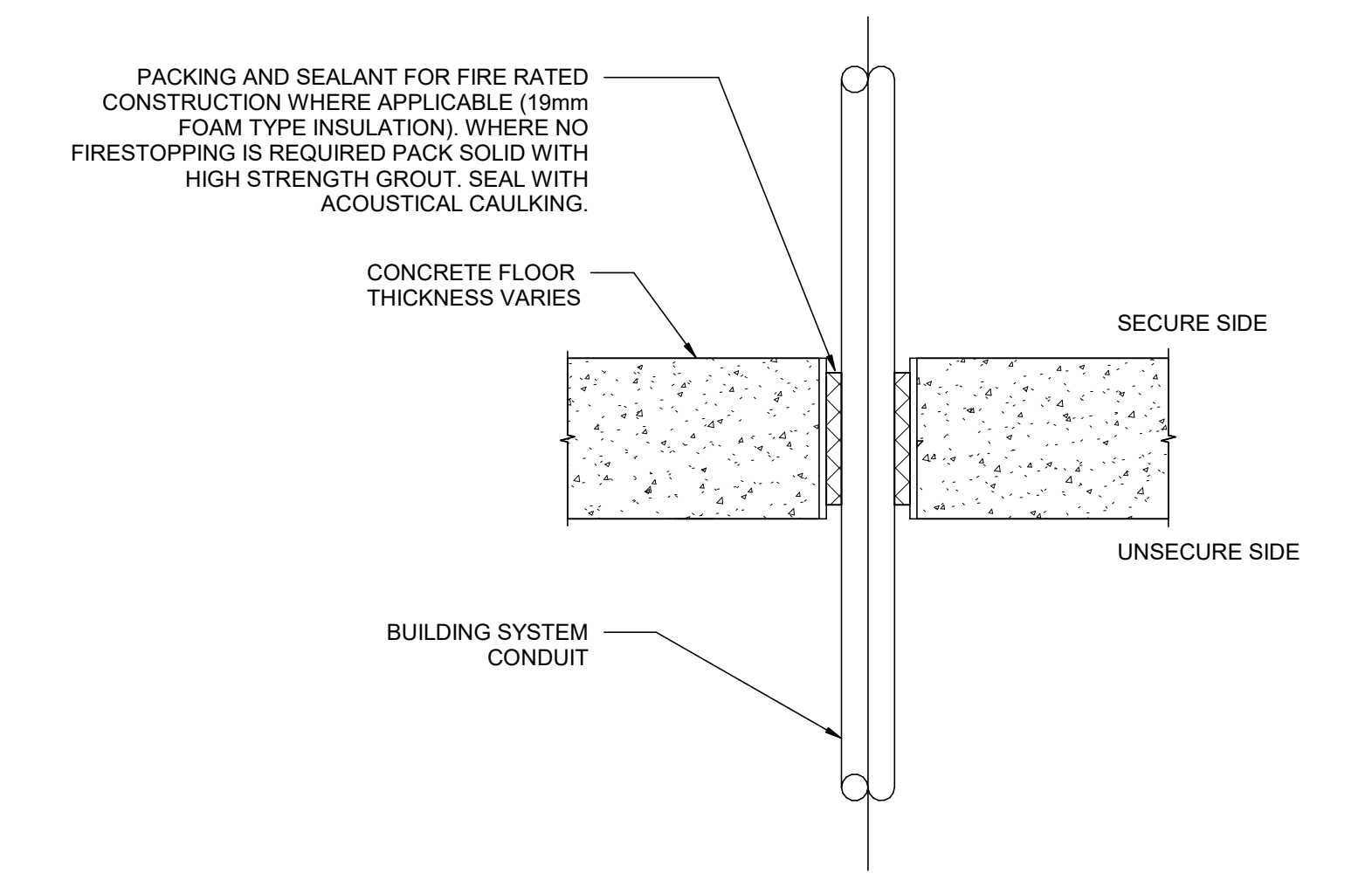
FULLY SPRINKLERED



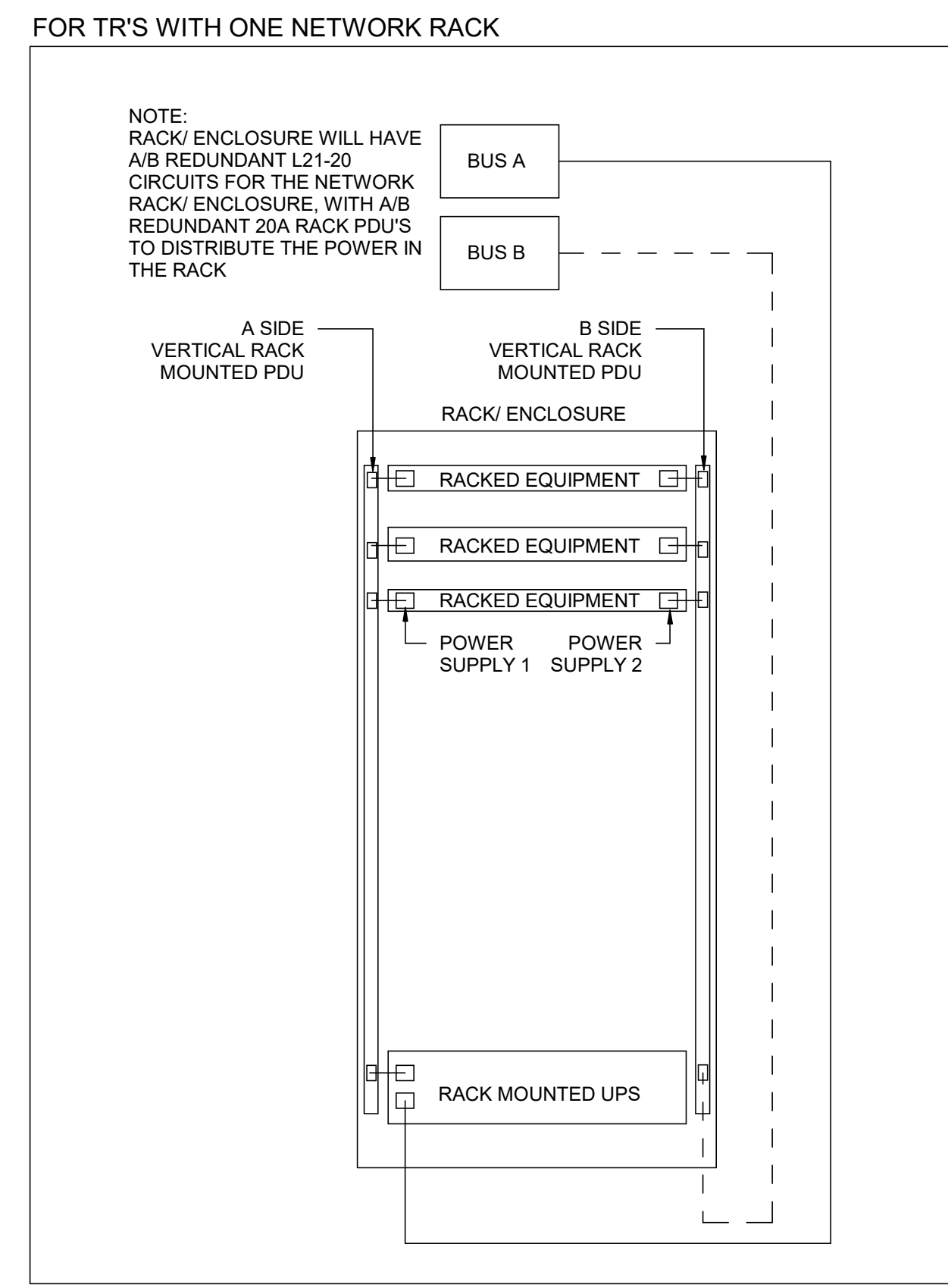
B3 TYPICAL CABLE TRAY NON-RATED WALL PENETRATION DETAIL
SCALE: NONE



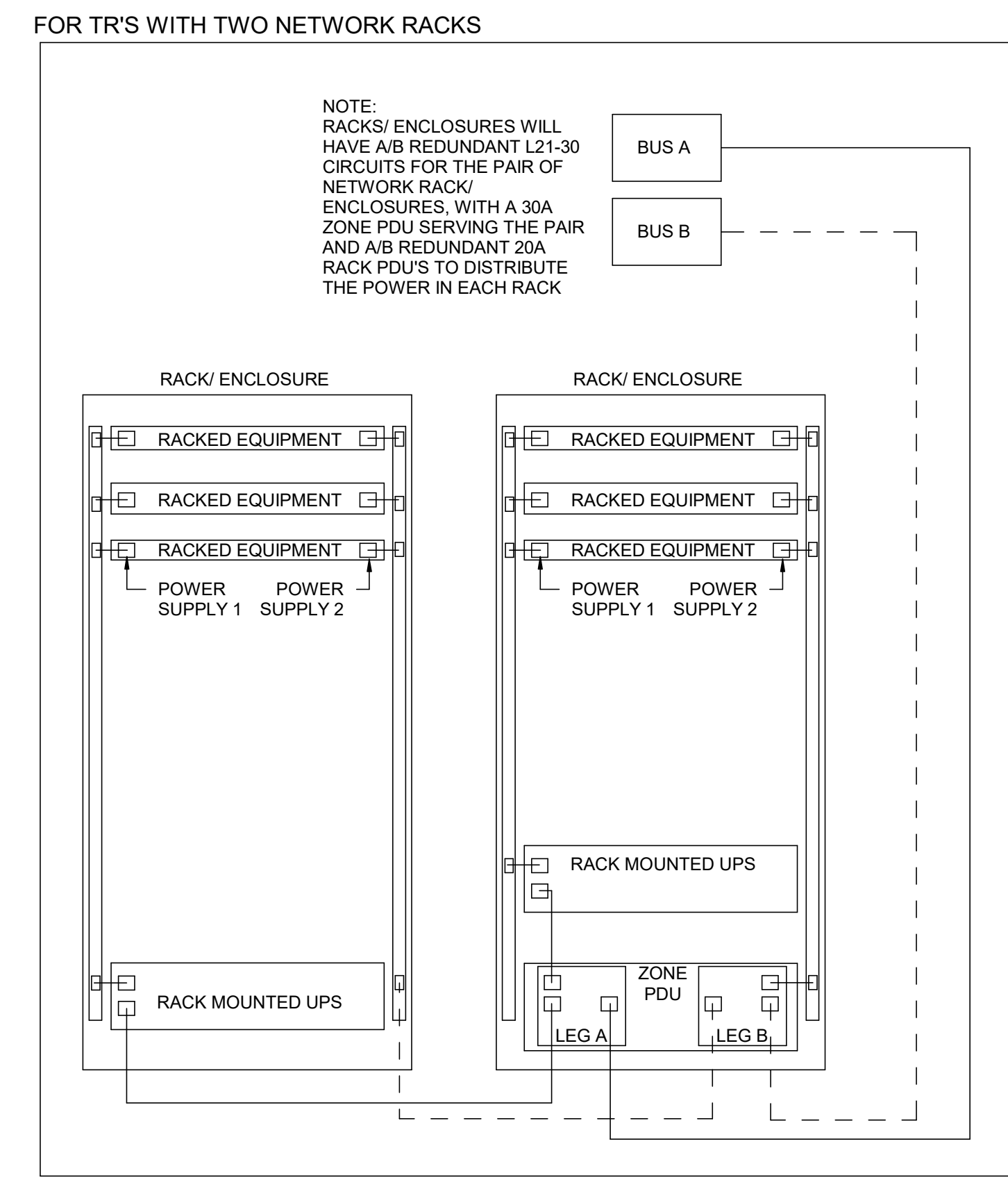
B6 TYPICAL ACOUSTICAL CONDUIT PENETRATION THROUGH GYPSUM BOARD WALL
SCALE: NONE



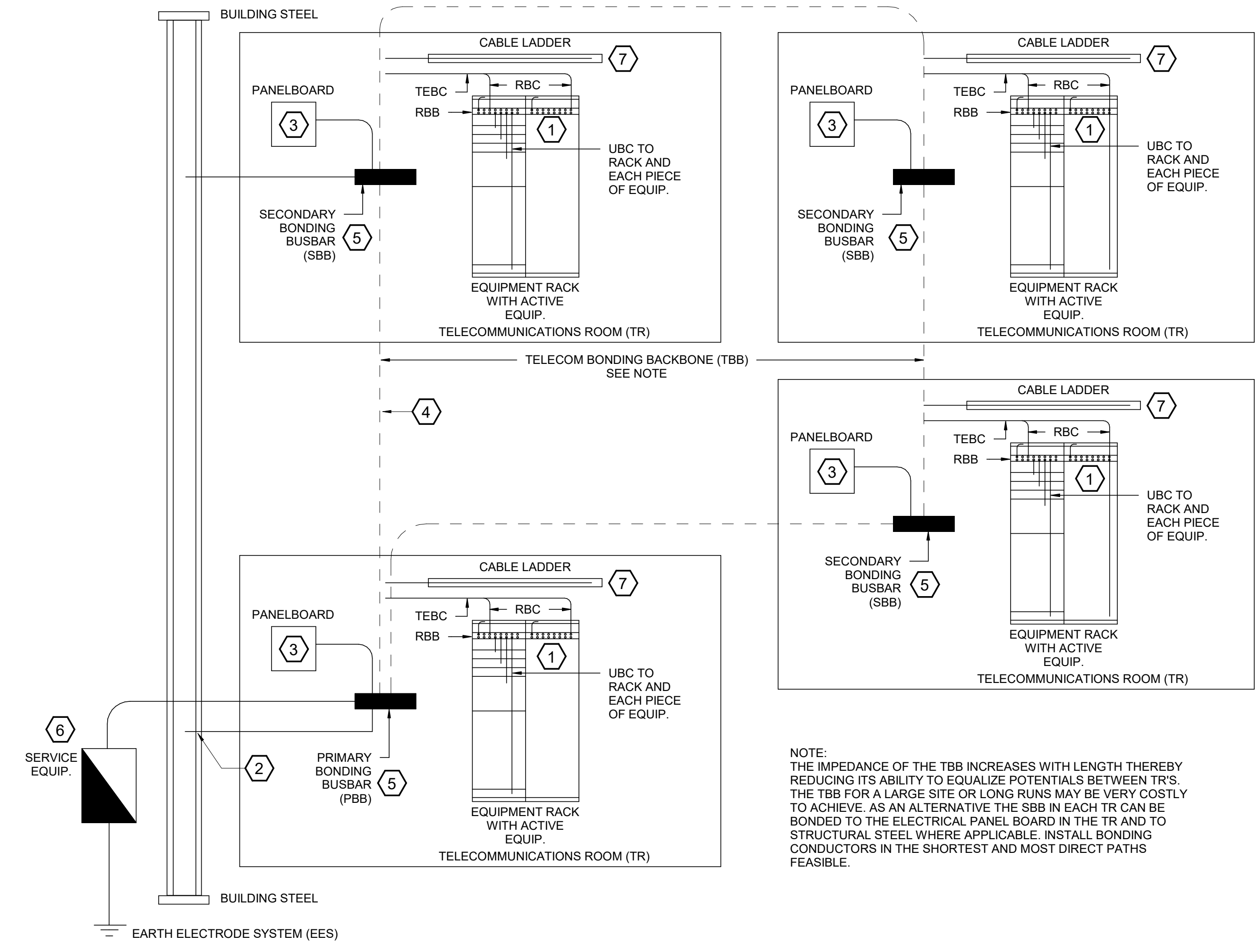
B8 TYPICAL ACOUSTICAL CONDUIT PENETRATION THROUGH FLOOR
SCALE: NONE



F1 ZONE PDU DISTRIBUTION DIAGRAM
SCALE: NONE



KEY
BUS A: GENERATOR POWER BRANCH CIRCUIT (WHERE AVAILABLE)
BUS B: COMMERCIAL POWER BRANCH CIRCUIT
LEG A/B: A AND B DISTRIBUTION LEGS OF THE ZONE PDU
POWER SUPPLY 1/2: REDUNDANT POWER SUPPLIES IN EACH PIECE OF IT EQUIPMENT



F6 TYPICAL TELECOM GROUNDING AND BONDING INFRASTRUCTURE DETAIL
SCALE: 1/2" = 1'-0"

KEYNOTES

- PROVIDE 6 AWG RACK BONDING CONDUCTOR (RBC) FROM EACH RACK BONDING BUSBAR (RBB), LOCATED AT THE BACK OF EQUIPMENT RACK, TO THE 6 AWG TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR (TEBC) USING IRREVERSIBLE CRIMP CONNECTORS. PROVIDE TEBC TO THE PBB/SBB. PROVIDE 6 AWG UNIT BONDING CONDUCTORS (UBC) FROM EACH PIECE OF INDIVIDUAL EQUIPMENT WITHIN RACK TO RBB OR RBC. USE TWO-HOLE COMPRESSION LUGS FOR ALL RACK CONNECTIONS WHERE POSSIBLE BUT NO MODIFICATION OF THE RACK OR EQUIPMENT IS ALLOWED.
- PROVIDE INSULATED GROUND CABLE FROM GROUND BAR TO BUILDING STRUCTURE. EXOTHERMICALLY WELD CABLE TO METAL STRUCTURE. SIZE CABLE IAW TABLE BELOW.
- PROVIDE INSULATED GROUND CABLE FROM SBB TO LOCAL PANELBOARD GROUND BAR. SIZE CABLE IAW TABLE BELOW.
- PROVIDE INSULATED GROUND CABLE TBB FROM PBB TO FURTHEST SBB. CABLE SHALL BE CONTIGUOUS. SIZE CABLE IAW TABLE BELOW.
- PROVIDE A CRIMP CONNECTOR WITH TWO BOLT HOLES FOR SECURING THE TBB CABLE TO THE PBB OR SBB.
- PROVIDE INSULATED GROUND CABLE FROM THE PBB TO THE MAIN GROUNDING ELECTRODE SYSTEM AT THE SWITCHBOARD. SIZE CABLE IAW TABLE BELOW.
- CABLE TRAY BONDING CONDUCTOR WITH IRREVERSIBLE CRIMP CONNECTOR TO PBB/SBB.

TBB CONDUCTOR SIZE VS LENGTH	
TBB/GE LINEAR LENGTH (FT)	TBB/GE SIZE (AWG)
13	6
14-20	4
21-26	3
27-33	2
34-41	1
42-52	1/0
53-66	2/0
67-84	3/0
85-105	4/0
106-125	250 KCMIL
126-150	300 KCMIL
151-175	350 KCMIL
176-250	500 KCMIL
251-300	600 KCMIL
301	750 KCMIL

NOTE: THE IMPEDANCE OF THE TBB INCREASES WITH LENGTH THEREBY REDUCING ITS ABILITY TO EQUALIZE POTENTIALS BETWEEN TR'S. THE TBB FOR A LARGE SITE OR LONG RUNS MAY BE VERY COSTLY TO ACHIEVE. AS AN ALTERNATIVE THE SBB IN EACH TR CAN BE BONDED TO THE ELECTRICAL PANEL BOARD IN THE TR AND TO STRUCTURAL STEEL WHERE APPLICABLE. INSTALL BONDING CONDUCTORS IN THE SHORTEST AND MOST DIRECT PATHS FEASIBLE.

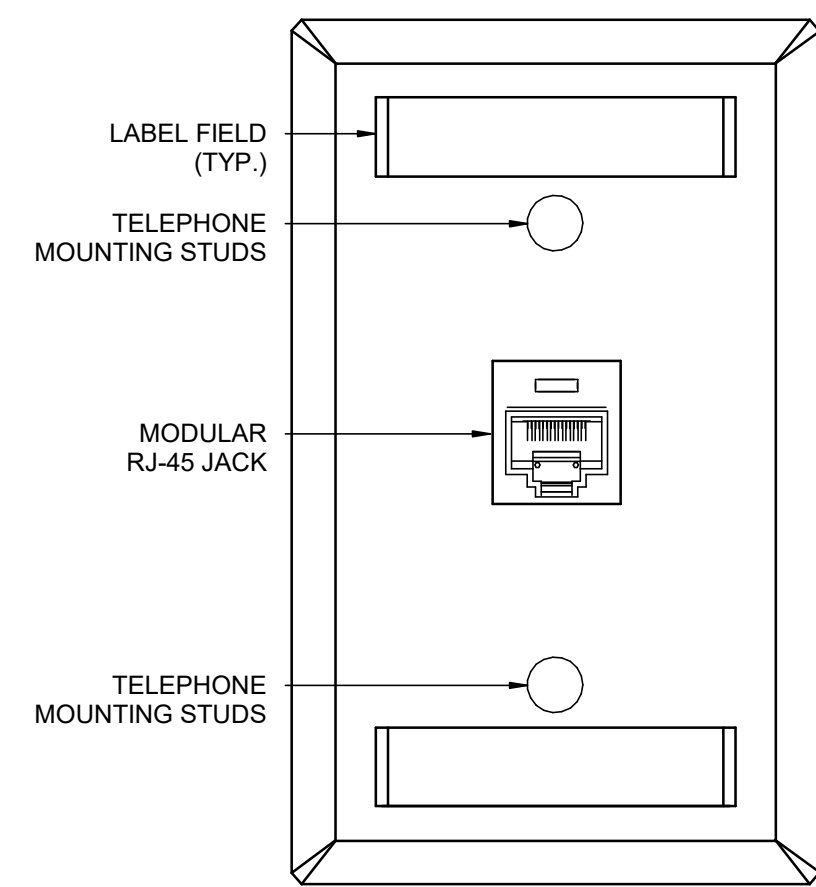
CONSULTANT <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>		ARCHITECT/ENGINEER OF RECORD <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>		STAMP <p>Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION ENGINEER 03/08/24</p>	Office of Construction and Facilities Management <p>U.S. Department of Veterans Affairs</p>	Drawing Title DETAILS Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED	Project Title EHRM INFRASTRUCTURE UPGRADES Location: TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date: 03/08/2024	Project Number 679-20-104 Building Number TG503 Checked: JMM Drawn: JEH
--	--	---	--	---	---	---	--	--	---

1 2 3 4 5 6 7 8 9 10

A

B

C

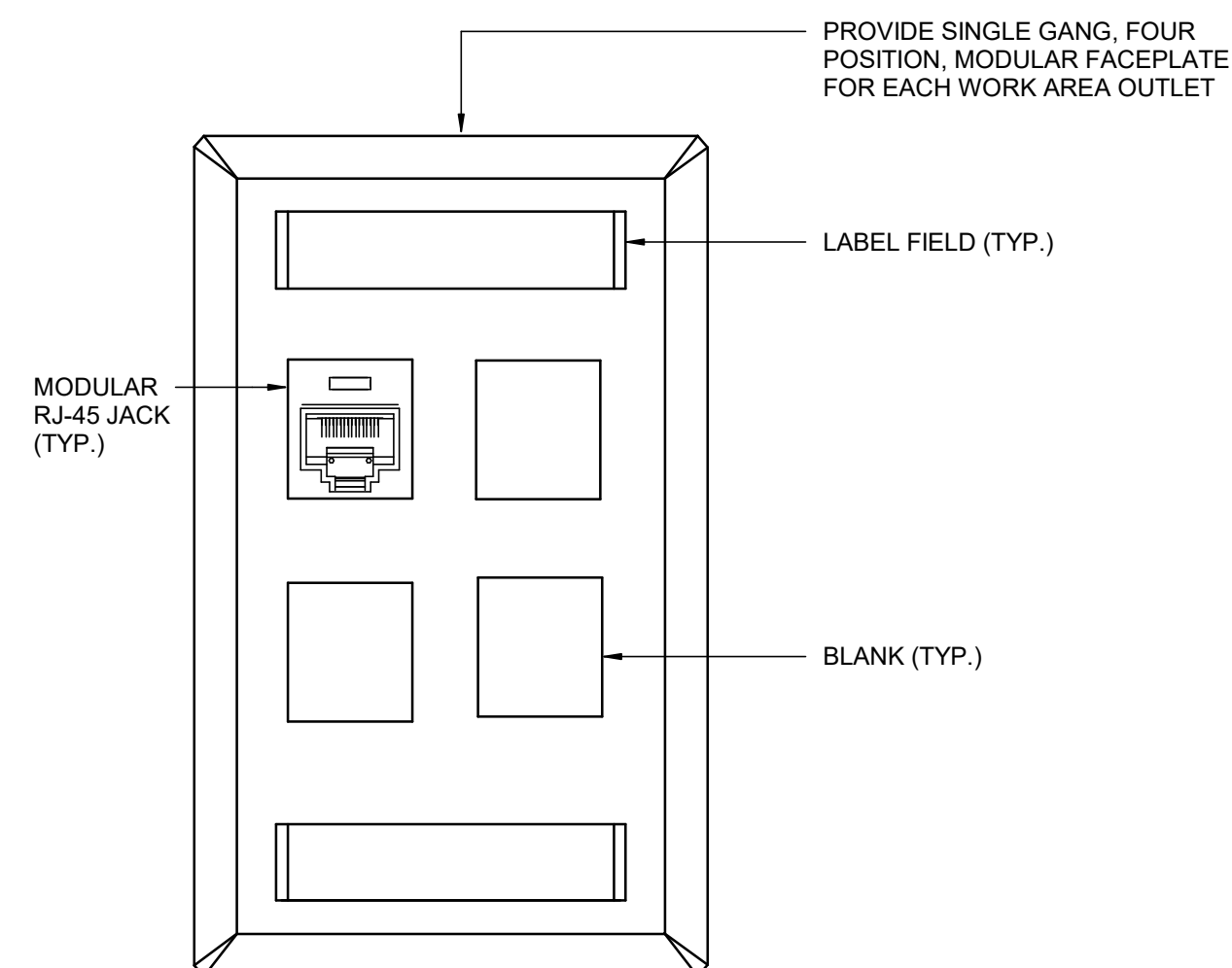


PROVIDE (1) RJ-45 CATEGORY 6A UTP CABLE FROM OUTLET TO TR. MOUNT AT 48" A.F.F. UNLESS OTHERWISE NOTED.

C1 WALL PHONE FACEPLATE DETAIL ^{WP}
SCALE: 12" = 1'-0"

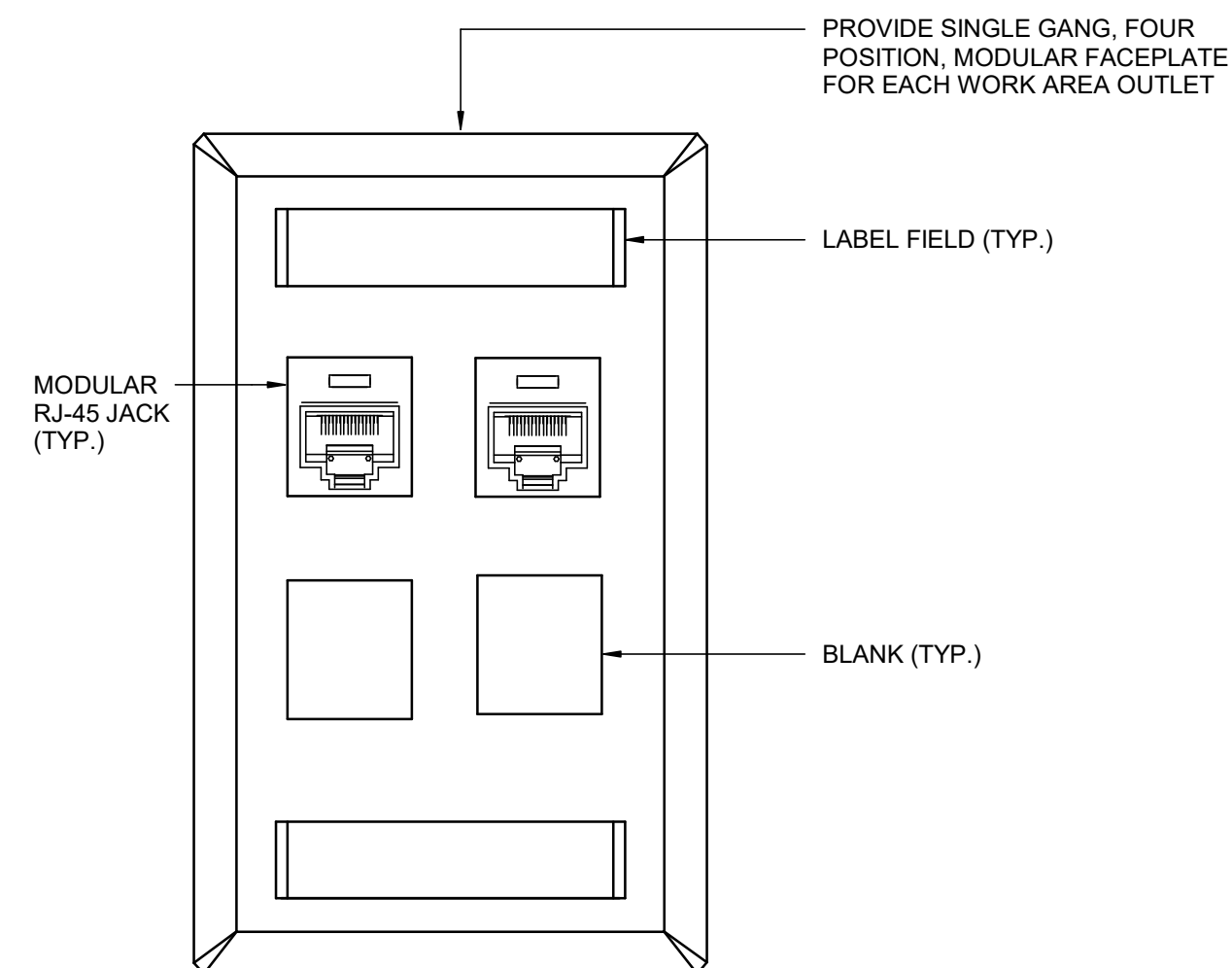
D

E



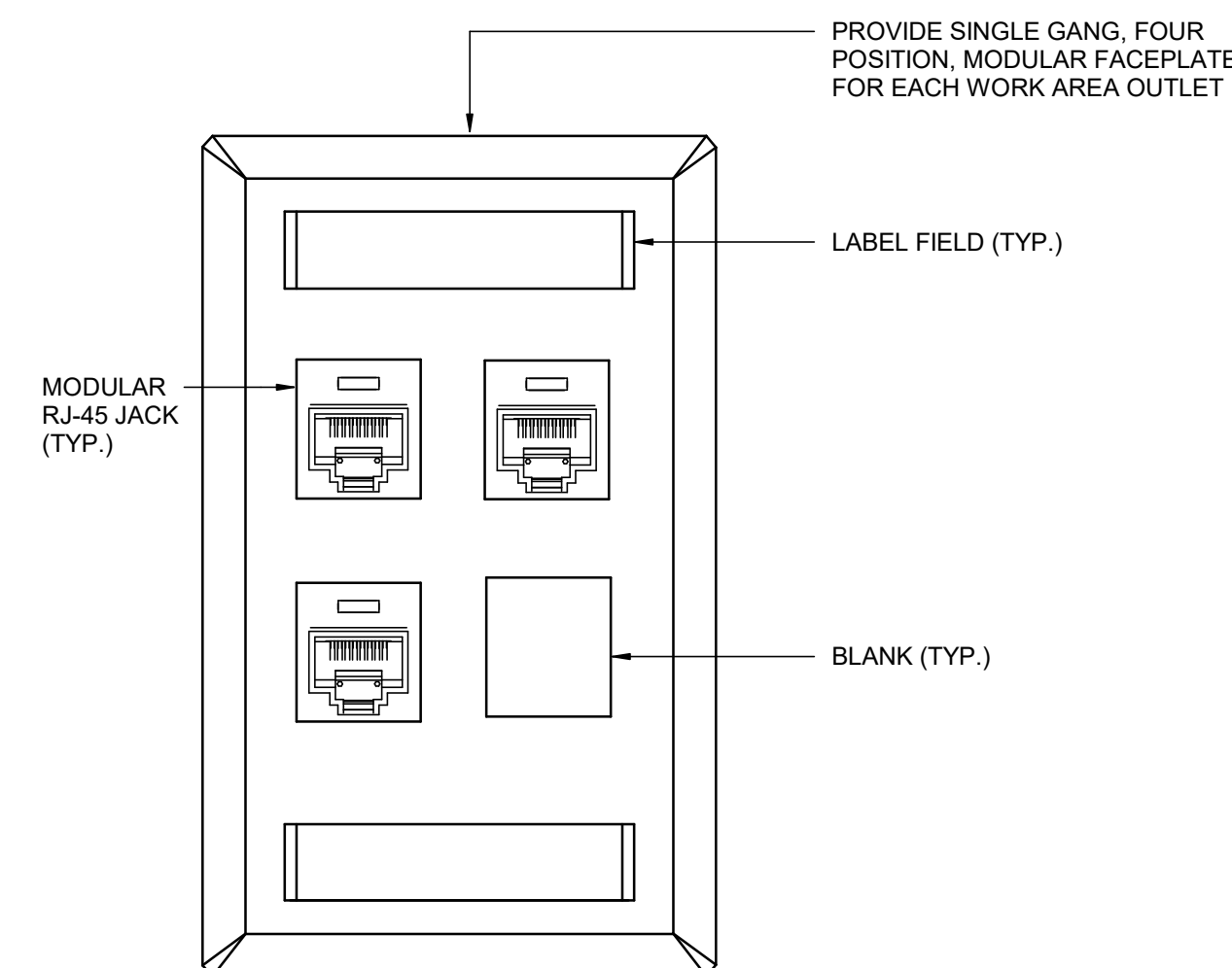
CONFIGURATION IS ONE RJ-45 MODULAR JACKS AND THREE BLANKS FOR FUTURE APPLICATIONS WIRE ALL TERMINATIONS TO TIA 568-C.D. T568A CONFIGURATION PROVIDE (1) CATEGORY 6A UTP CABLES FROM OUTLET TO SERVING TELECOM ROOM (TR)

F1 T1 OUTLET FACEPLATE DETAIL ^{T1}
SCALE: NONE



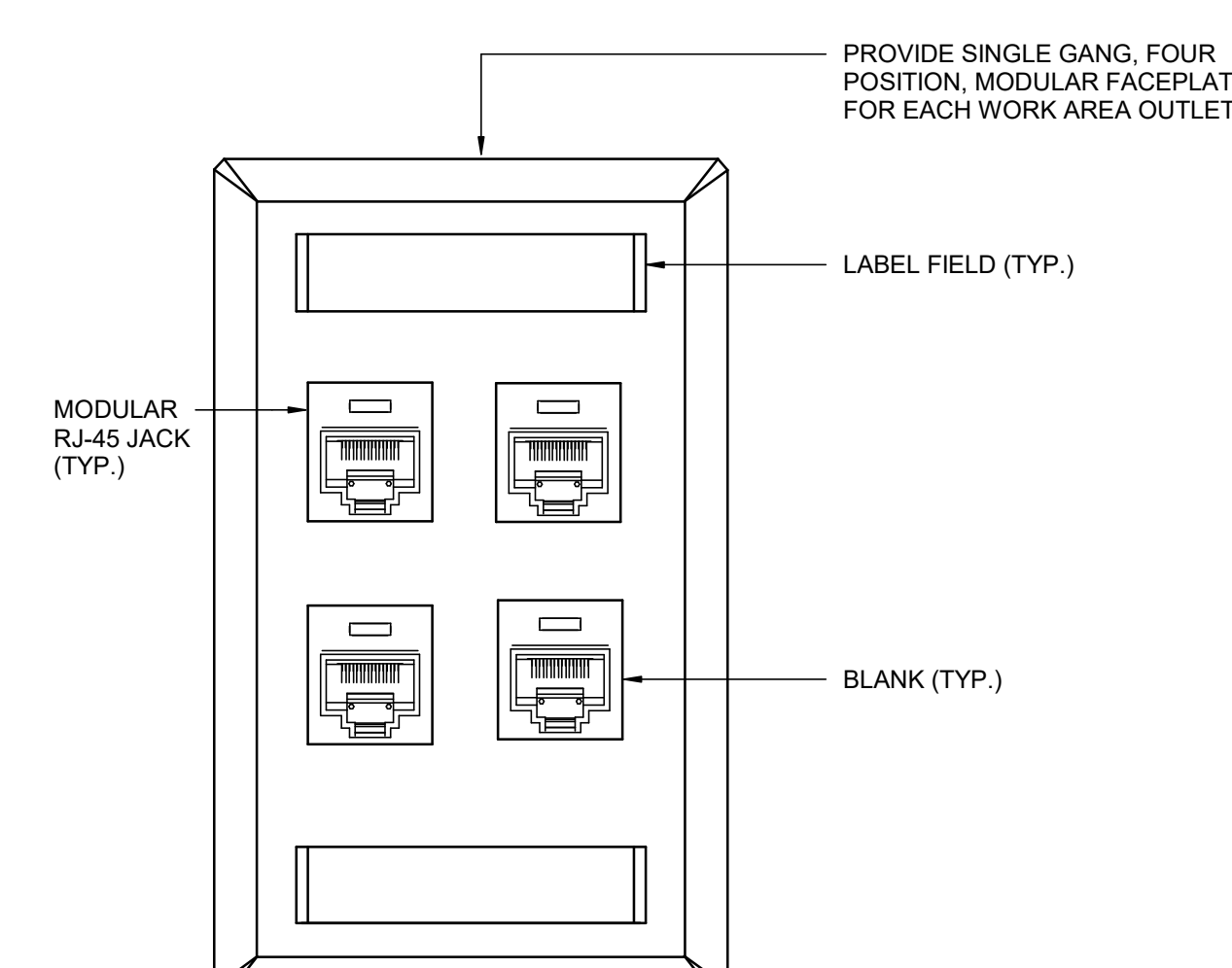
CONFIGURATION IS TWO RJ-45 MODULAR JACKS AND TWO BLANKS FOR FUTURE APPLICATIONS WIRE ALL TERMINATIONS TO TIA 568-C.D. T568A CONFIGURATION PROVIDE (2) CATEGORY 6A UTP CABLES FROM OUTLET TO SERVING TELECOM ROOM (TR)

F3 T2 OUTLET FACEPLATE DETAIL ^{T2}
SCALE: 12" = 1'-0"



CONFIGURATION IS THREE RJ-45 MODULAR JACKS AND ONE BLANK FOR FUTURE APPLICATIONS WIRE ALL TERMINATIONS TO TIA 568-C.D. T568A CONFIGURATION PROVIDE (3) CATEGORY 6A UTP CABLES FROM OUTLET TO SERVING TELECOM ROOM (TR)

F5 T3 OUTLET FACEPLATE DETAIL ^{T3}
SCALE: NONE



CONFIGURATION IS FOUR RJ-45 MODULAR JACKS WIRE ALL TERMINATIONS TO TIA 568-C.D. T568A CONFIGURATION PROVIDE (4) CATEGORY 6A UTP CABLES FROM OUTLET TO SERVING TELECOM ROOM (TR)

F8 T4 OUTLET FACEPLATE DETAIL ^{T4}
SCALE: NONE

F

Revisions:	Date:

CONSULTANT

Wiley|Wilson
127 Nationwide Drive
Lynchburg, VA 24502
Phone: 434.947.1901
www.wileywilson.com

SPECIALIZED ENGINEERING SOLUTIONS
Specialized Engineering Solutions
1300 Baxter Street, Suite 355
Charlotte, NC 28204

ARCHITECT/ENGINEER OF RECORD

Atriax
www.atriaxgroup.com

Atriax, pllc
703 Main Avenue SW
PO Box 1629, Hickory, NC 28603
Phone: 828.315.9962
Fax: 828.315.9964

NC Engineering License No.: P-0214
NC Architectural License No.: 51254

STAMP

Bicsi
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICS11078239554
Expires 03/31/25
RCDD
03/08/24

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
DETAILS

Phase
100% CONSTRUCTION DOCUMENTS

Project Title
EHRM INFRASTRUCTURE UPGRADES

Project Number
679-20-104

Location
TUSCALOOSA VAMC, TUSCALOOSA, AL.

Issue Date
03/08/2024

Checked
Checker

Drawn
Author

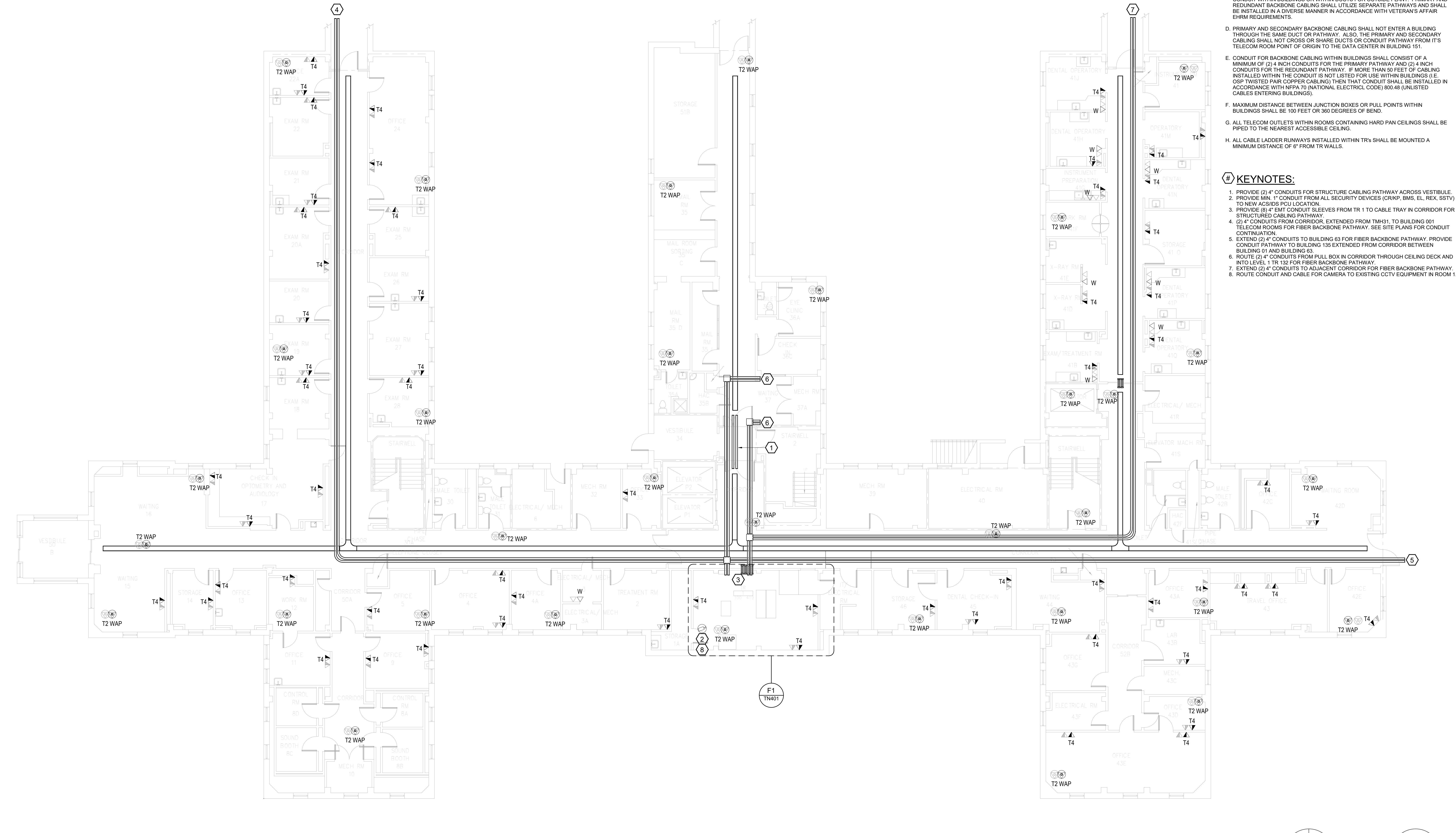
Approved: Chief Engineer
Approver

Drawing Number
TG504

FULLY SPRINKLERED

1 2 3 4 5 6 7 8 9 10

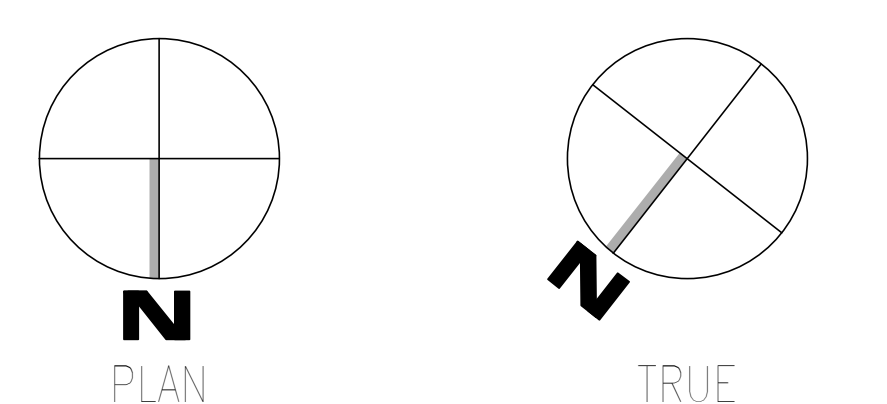
A
B
C
D
E
F



- GENERAL NOTES:**
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
 - B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
 - C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
 - D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
 - E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING IS INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
 - F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
 - G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
 - H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

- # KEYNOTES:**
1. PROVIDE (2) 4" CONDUITS FOR STRUCTURE CABLING PATHWAY ACROSS VESTIBULE. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CRKP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
 2. PROVIDE (8) 4" EMT CONDUIT SLEEVES FROM TR 1 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
 3. (2) 4" CONDUITS FROM CORRIDOR, EXTENDED FROM TMH31, TO BUILDING 001 TELECOM ROOMS FOR FIBER BACKBONE PATHWAY. SEE SITE PLANS FOR CONDUIT CONTINUATION.
 4. EXTEND (2) 4" CONDUITS TO BUILDING 63 FOR FIBER BACKBONE PATHWAY. PROVIDE CONDUIT PATHWAY TO BUILDING 135 EXTENDED FROM CORRIDOR BETWEEN BUILDING 01 AND BUILDING 63.
 5. ROUTE (2) 4" CONDUITS FROM PULL BOX IN CORRIDOR THROUGH CEILING DECK AND INTO LEVEL 1 TR 132 FOR FIBER BACKBONE PATHWAY.
 6. EXTEND (2) 4" CONDUITS TO ADJACENT CORRIDOR FOR FIBER BACKBONE PATHWAY.
 7. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT IN ROOM 1.

F1 OVERALL PLAN - GROUND LEVEL - TELECOM
SCALE: 1/8" = 1'-0"



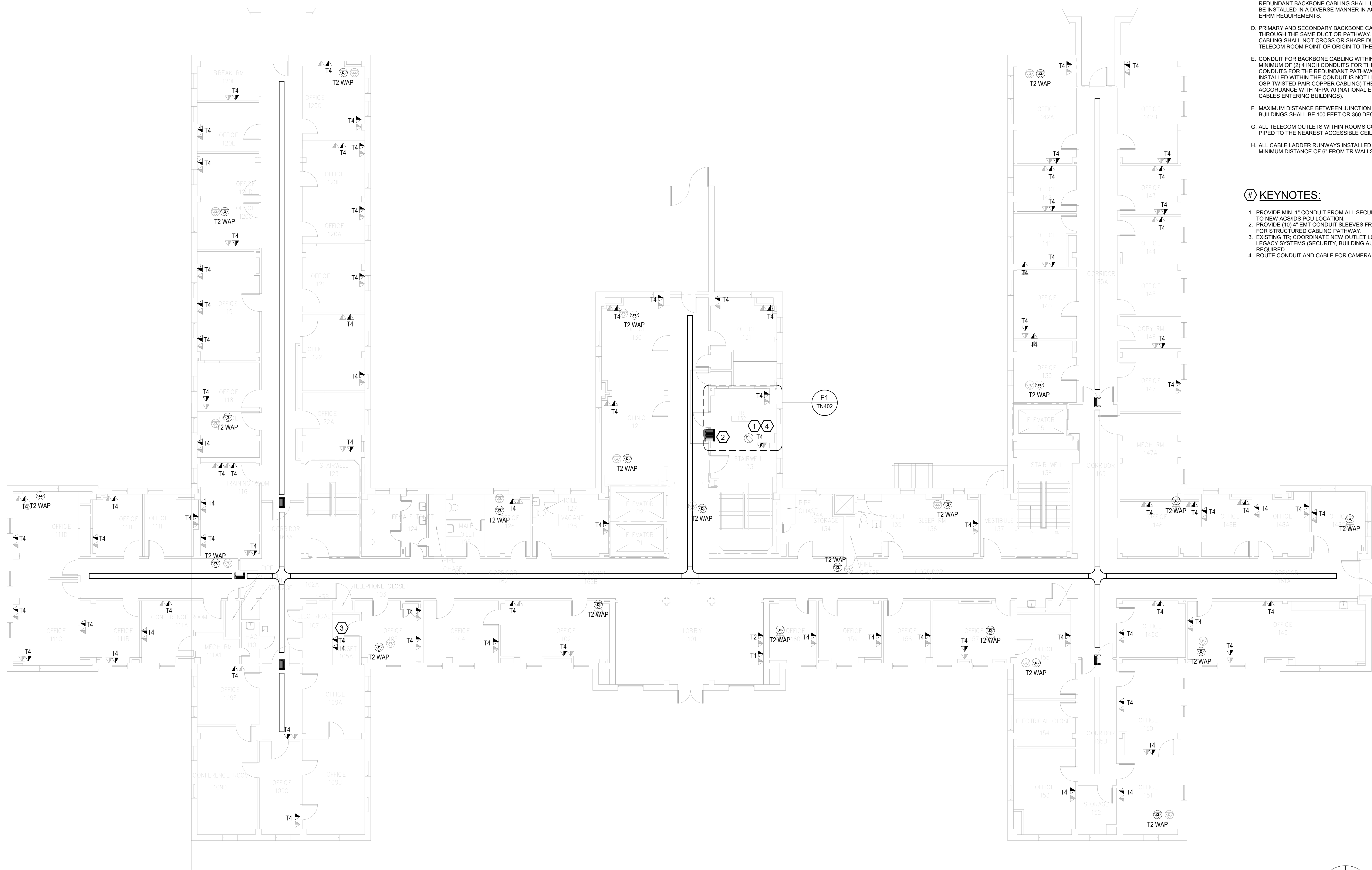
Revisions: Date:	CONSULTANT WileylWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 16229, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI ID # 239954 Expires 03/31/25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 001 - GROUND LEVEL - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
						Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 001
						Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN001.0

GENERAL NOTES:

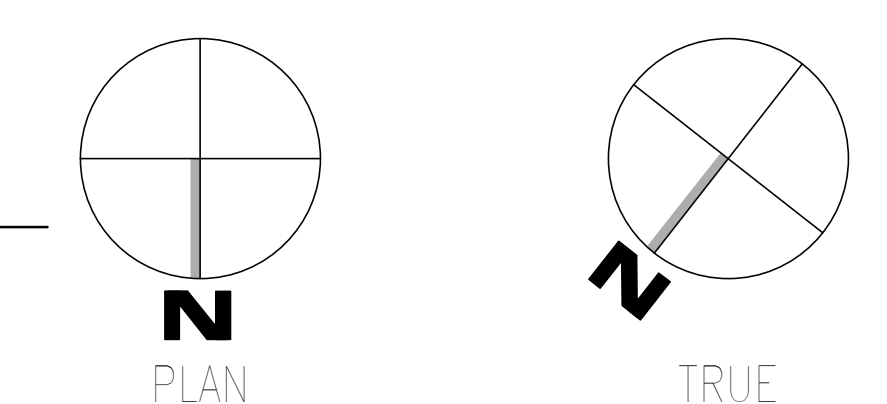
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

KEYNOTES:

1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
2. PROVIDE (10) 4" EMT CONDUIT SLEEVES FROM TR 132 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. EXISTING TR: COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
4. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT IN ROOM 1.



F1 OVERALL PLAN - LEVEL 01 - TELECOM
SCALE: 1/8" = 1'-0"



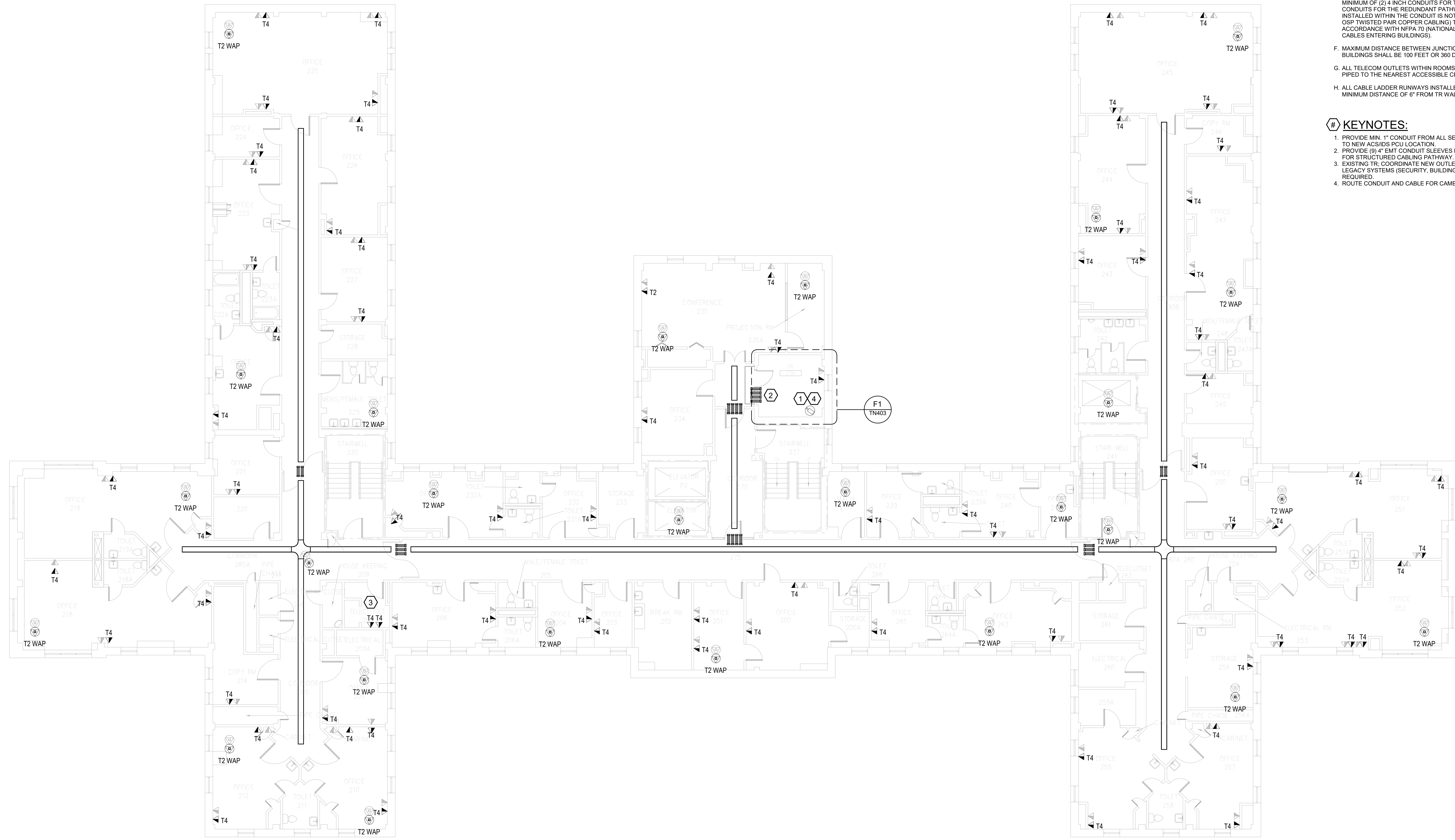
Revisions:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		ARCHITECT/ENGINEER OF RECORD Atriax Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254		STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI 107 # 219954 Expires 03/31/25 RCDD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 001 - LEVEL 01 - TELECOM Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED	Project Title EHRM INFRASTRUCTURE UPGRADES Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024	Project Number 679-20-104 Building Number 001 Drawing Number TN001.1 Checked JMM Drawn JEH
	Date:									

GENERAL NOTES:

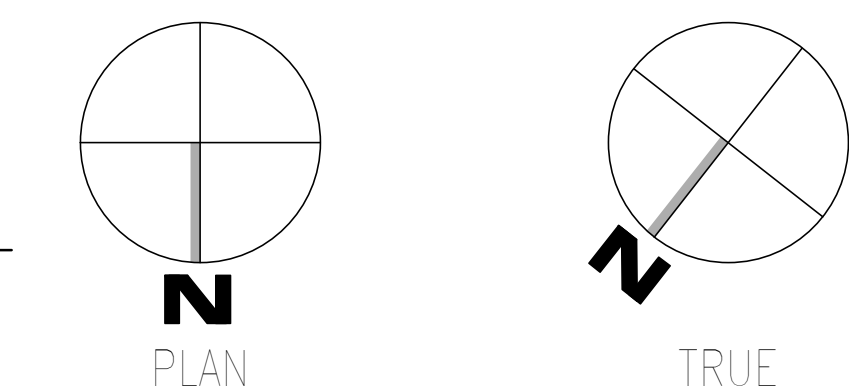
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING IS INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILING SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

KEYNOTES:

1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CRMP, BMS, EL, REX, SSTV) TO NEW ACS/IS RCL LOCATION
2. PROVIDE (9) 4" EMT CONDUIT SLEEVES FROM TR 236 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY
3. EXISTING TR. COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED
4. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT IN ROOM 1.



F1 OVERALL PLAN - LEVEL 02 - TELECOM
SCALE: 1/8" = 1'-0"



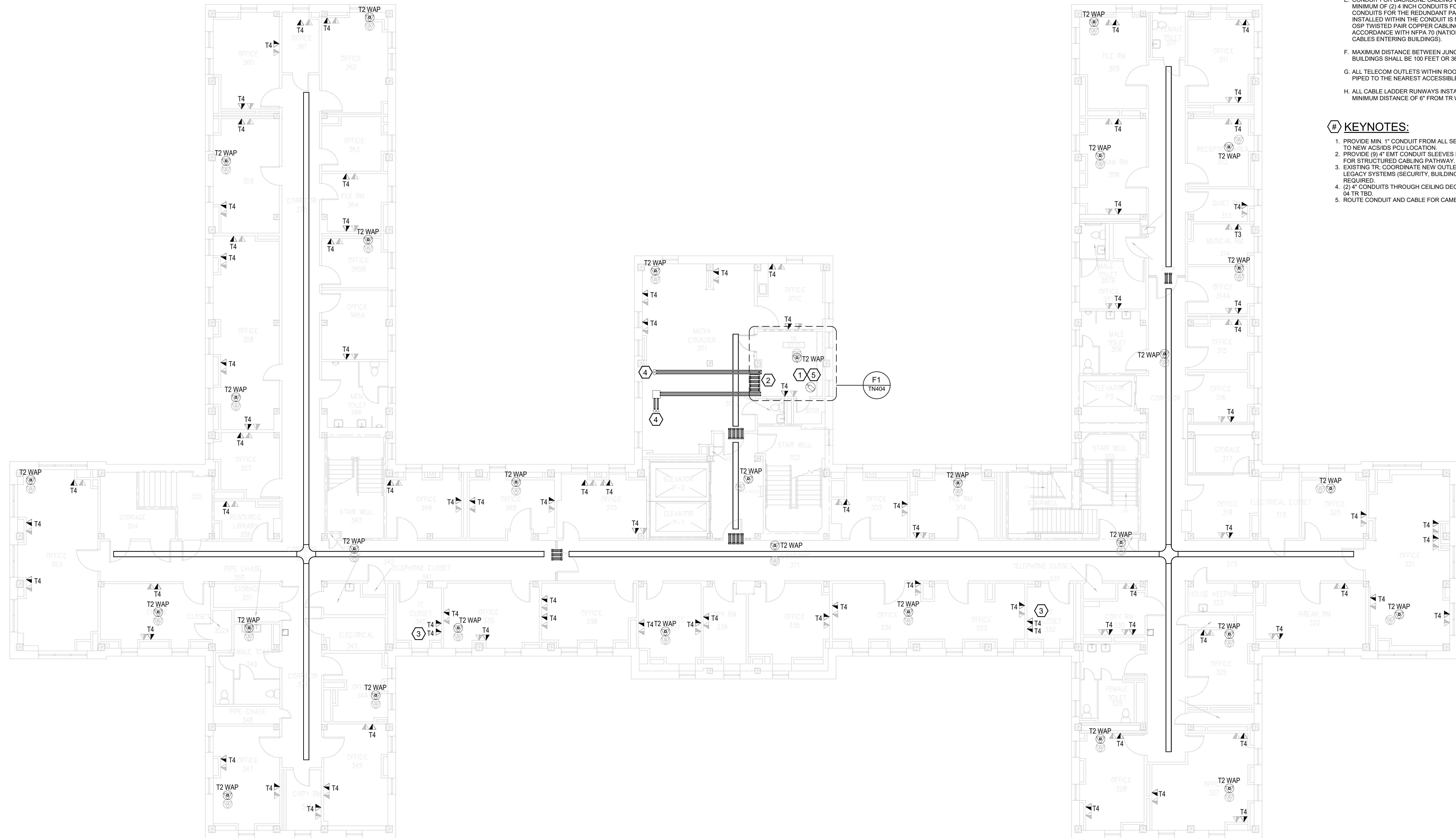
Revisions:	Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	 SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	 BICSI REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER 15254 McMillan BICSI ID # 239654 Expires 03/31/25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 001 - LEVEL 02 - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
							Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 001
						Issue Date 03/08/2024		Checked JMM	Drawn JEH	Drawing Number TN001.2

GENERAL NOTES:

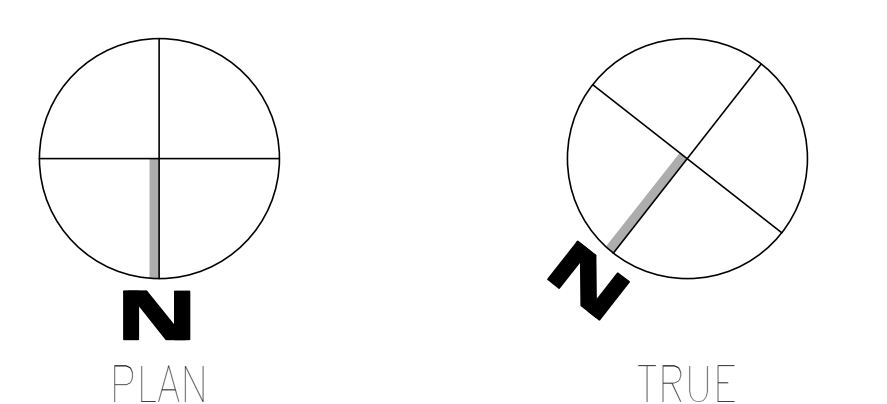
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING IS INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR's SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

KEYNOTES:

- 1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, EX, SSTV) TO NEW ACIDS PCI LOCATION.
- 2. PROVIDE (6) 4" EMT CONDUIT SLEEVES FROM TR LVL 03 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 3. EXISTING TR, COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
- 4. (2) 4" CONDUITS THROUGH CEILING DECK FOR BACKBONE FIBER PATHWAY TO LEVEL 04 TR TBD.
- 5. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT IN ROOM 1.



F1 OVERALL PLAN - LEVEL 03 - TELECOM
SCALE: 1/8" = 1'-0"



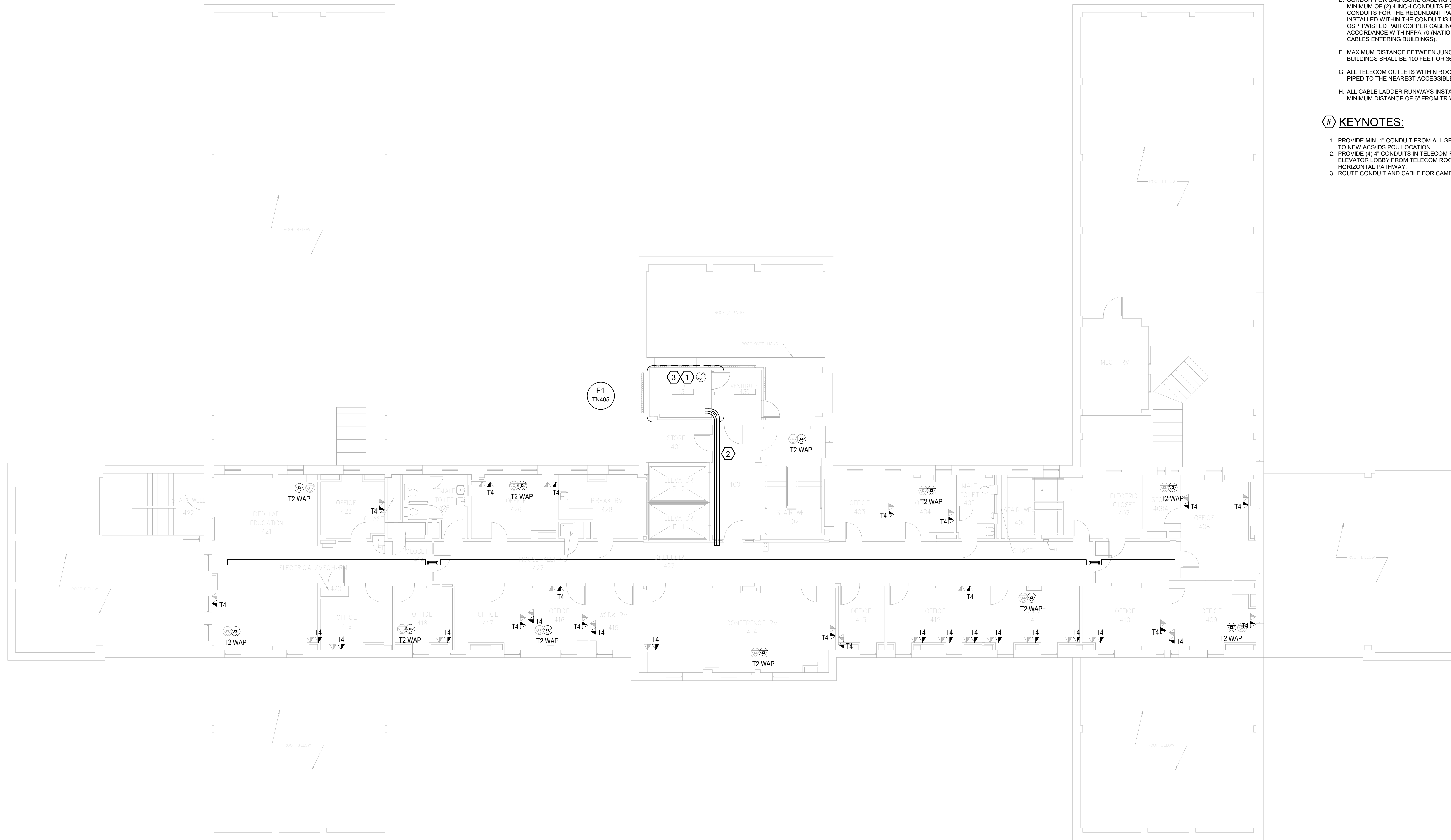
Revisions:	Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	 SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	 REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Bicsi 3200 W. McMillan BICSI 107 # 219954 Expires 03/31/25 RCD0 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 001 - LEVEL 03 - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
							Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 001
			Issue Date 03/08/2024	Checked JMM	Drawn JEH			Drawing Number TN001.3		

GENERAL NOTES:

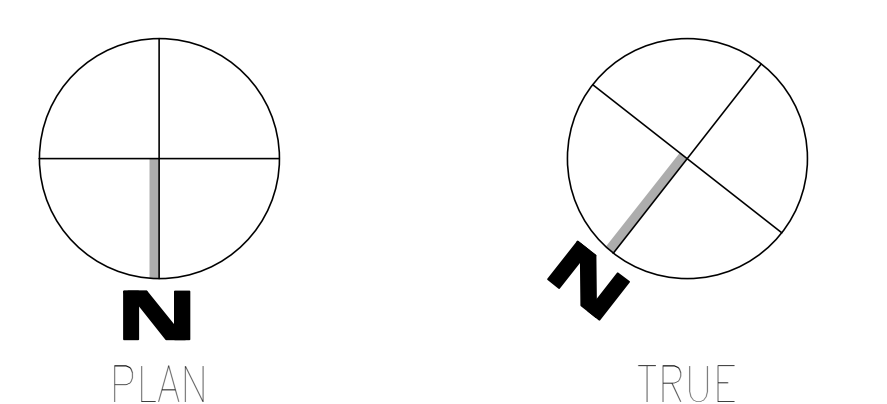
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN IN THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING IS INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

KEYNOTES:

- 1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CRWP, BMS, EL, EX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 2. PROVIDE (4) 4" CONDUITS IN TELECOM ROOM SOFFIT AND ABOVE CEILING THROUGH ELEVATOR LOBBY FROM TELECOM ROOM TO CABLE TRAY IN CORRIDOR FOR HORIZONTAL PATHWAY.
- 3. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT IN ROOM 1.



F1 OVERALL PLAN - LEVEL 04 - TELECOM
SCALE: 1/8" = 1'-0"



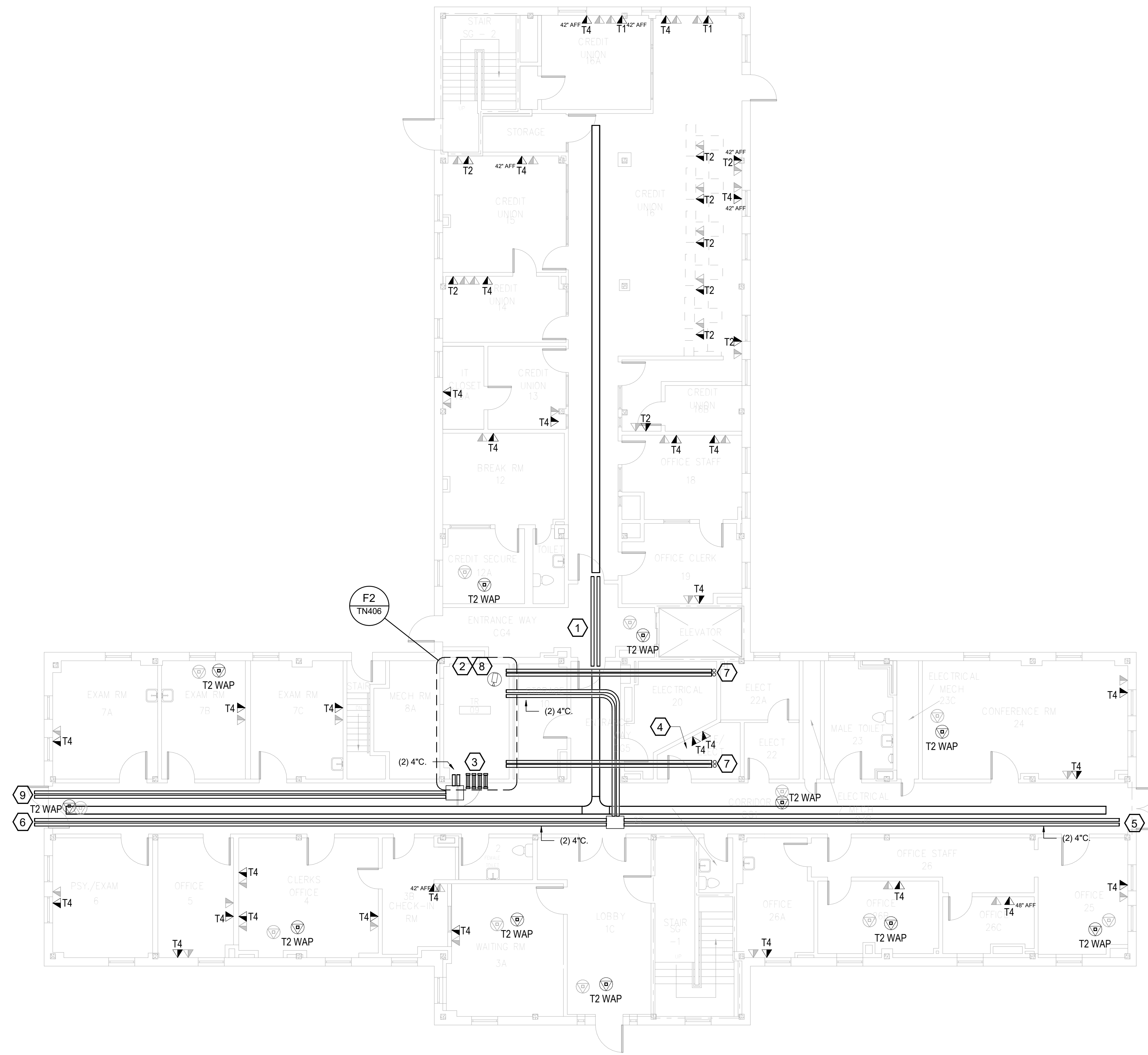
CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204		ARCHITECT/ENGINEER OF RECORD STAMP Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254		 REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI 107 # 239554 Expires 03/31/25 RCD 03/08/24		Office of Construction and Facilities Management U.S. Department of Veterans Affairs		Drawing Title BUILDING 001 - LEVEL 04 - TELECOM Approved: Chief Engineer		Phase 100% CONSTRUCTION DOCUMENTS		Project Title EHRM INFRASTRUCTURE UPGRADES		Project Number 679-20-104	
Revisions:		Date:		FULLY SPRINKLERED		Location TUSCALOOSA VAMC, TUSCALOOSA, AL.		Issue Date 03/08/2024		Checked JMM		Drawn JEH		Building Number 001		Drawing Number TN001.4	

KEYNOTES:

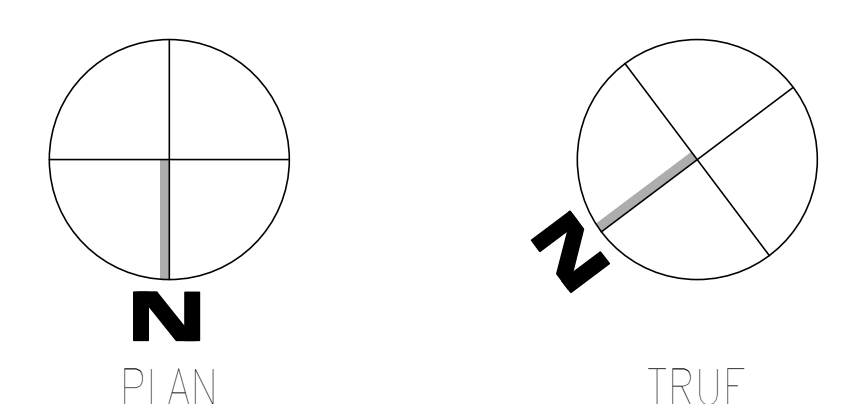
- 1. PROVIDE (2) 4" CONDUITS ABOVE CEILING FOR STRUCTURED CABLING PATHWAY ACROSS ENTRY.
- 2. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CRKP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PDU LOCATION.
- 3. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR 09 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 4. EXISTING TR, COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.), AS REQUIRED.
- 5. EXTEND (2) 4" CONDUITS TO BUILDING 038 FOR BACKBONE FIBER PATHWAYS.
- 6. EXTEND (2) 4" CONDUITS TO BUILDING 003 FOR BACKBONE FIBER PATHWAYS.
- 7. (2) 4" CONDUIT SLEEVES THROUGH CEILING DECK FOR BACKBONE FIBER PATHWAY TO LEVEL 01 TR 116.
- 8. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING TELECOM ROOM 21 FOR TERMINATION.
- 9. EXTEND (2) 4" CONDUITS TO BUILDING 003 FOR BACKBONE FIBER PATHWAYS.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - GROUND LEVEL - TELECOM
SCALE: 1/8" = 1'-0"



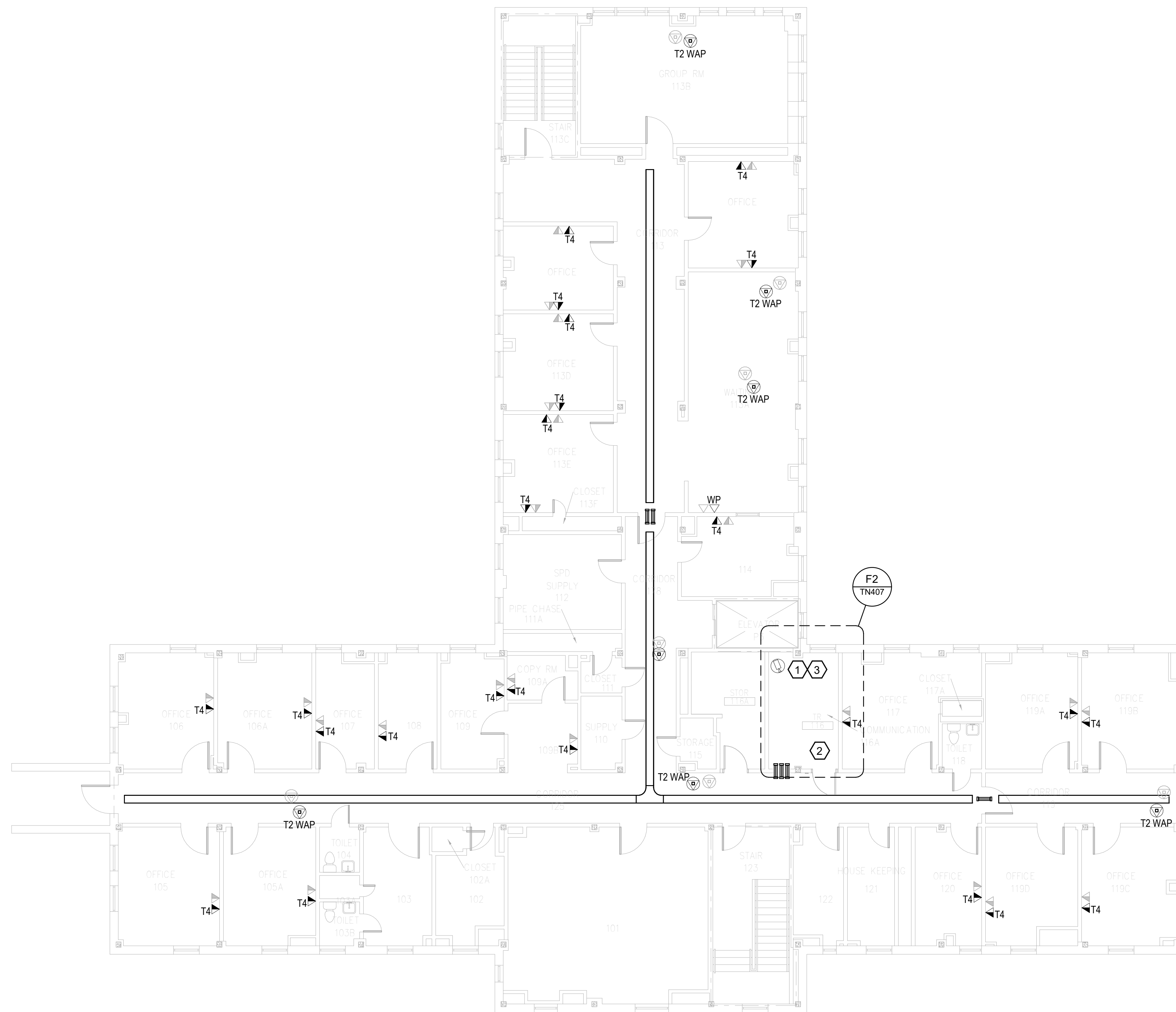
Revisions:	Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax www.atriaxgroup.com Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254	REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Bicsi 3824 W. Main St. BATESVILLE, TN 37020 615.751.2121 batesville@bicsi.com 03/08/24 RCD	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 002 - GROUND LEVEL - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
							Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 002

KEYNOTES:

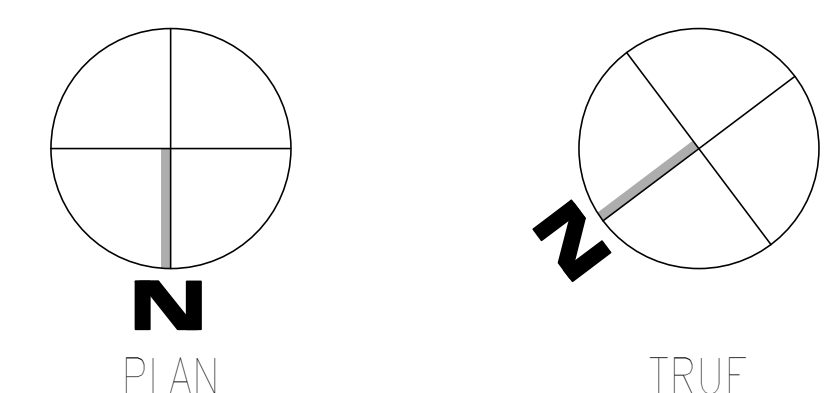
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION
2. PROVIDE (3) 4" EMT CONDUIT SLEEVES FROM TR 116 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY
3. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING EQUIPMENT LOCATION IN TELECOM ROOM 116 FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - LEVEL 01 - TELECOM
SCALE: 1/8" = 1'-0"



<p>CONSULTANT</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>		<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>		<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>		<p>STAMP</p> <p>Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION ENGINEER BICSI ID # 239554 Expires 03/31/25 RCD 03/08/24</p>		<p>Office of Construction and Facilities Management</p> <p>U.S. Department of Veterans Affairs</p>		<p>Drawing Title</p> <p>BUILDING 002 - LEVEL 01 - TELECOM</p> <p>Approved: Chief Engineer</p>		<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>		<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>		<p>Project Number</p> <p>679-20-104</p>	
<p>Revisions:</p>		<p>Date:</p>		<p>FULLY SPRINKLERED</p>		<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>		<p>Issue Date</p> <p>03/08/2024</p>		<p>Checked</p> <p>JMM</p>		<p>Drawn</p> <p>JEH</p>		<p>Building Number</p> <p>002</p>			
												<p>Drawing Number</p> <p>TN002.1</p>					

KEYNOTES:

1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CRKP, BMS, EL, REX, SSTV) TO NEW ACSIDS PCU LOCATION.
2. PROVIDE (3) 4" EMT CONDUIT SLEEVES FROM TR 216 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING EQUIPMENT LOCATION IN TELECOM ROOM 216 FOR TERMINATION.

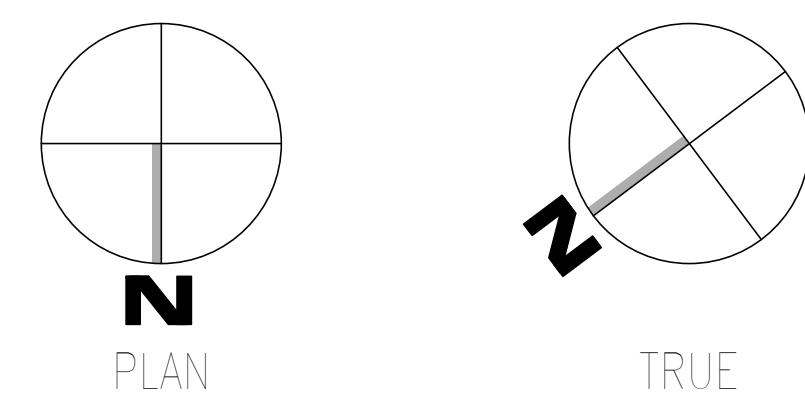
GENERAL NOTES:



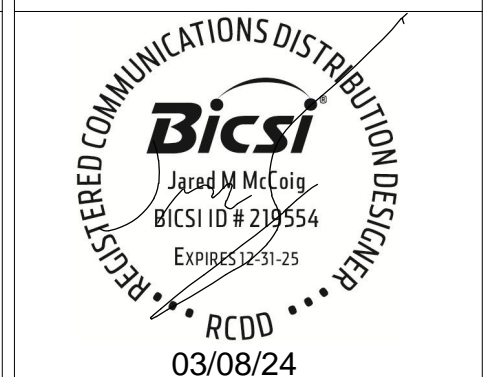

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 90 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

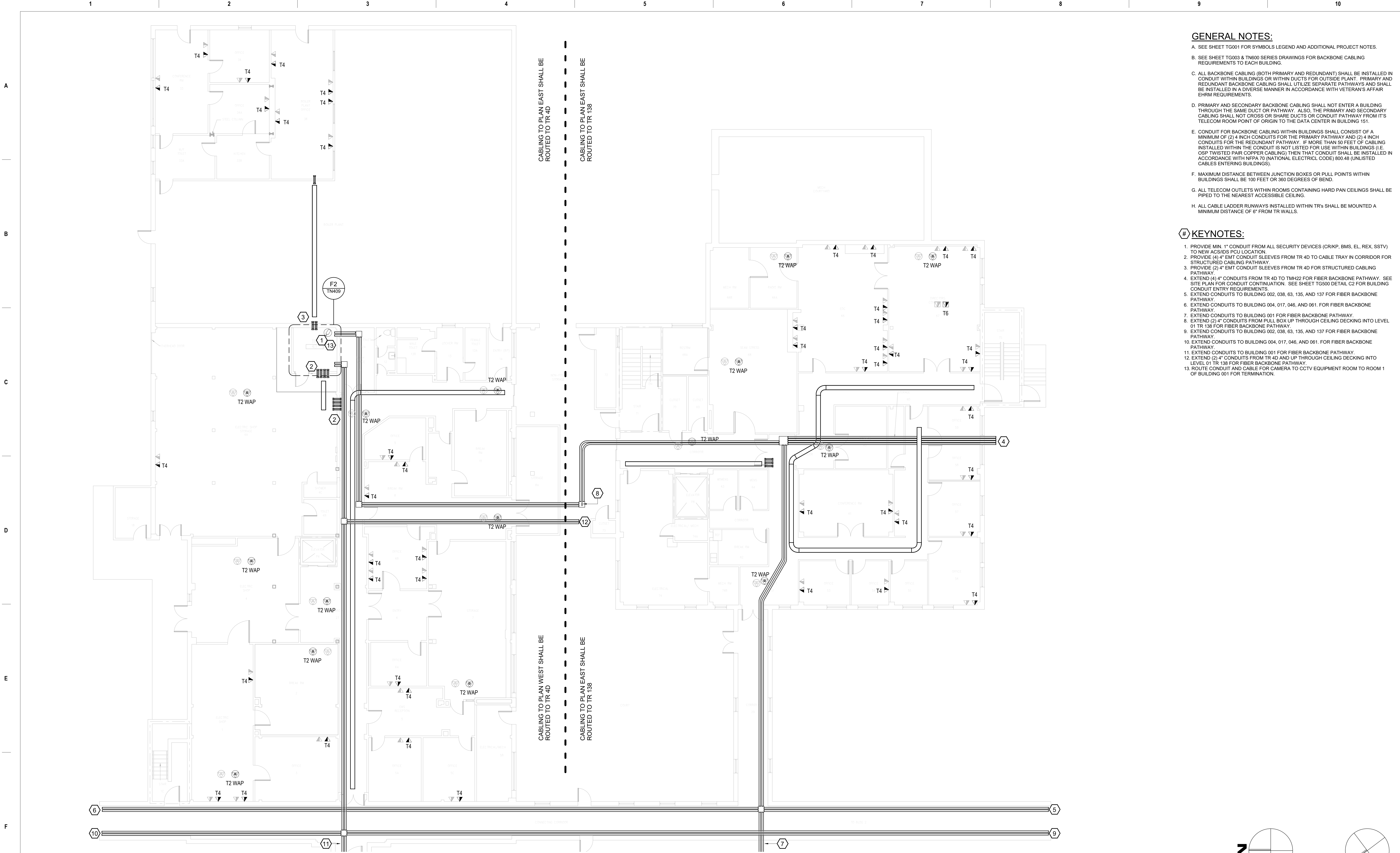


F1 OVERALL PLAN - LEVEL 02 - TELECOM

SCALE: 1/8" = 1'-0"



CONSULTANT  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		ARCHITECT/ENGINEER OF RECORD  Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254		STAMP  Bicsi Registered Communications Distributor 2024-2025 03/08/24		Office of Construction and Facilities Management  U.S. Department of Veterans Affairs		Drawing Title BUILDING 002 - LEVEL 02 - TELECOM Approved: Chief Engineer		Phase 100% CONSTRUCTION DOCUMENTS		Project Title EHRM INFRASTRUCTURE UPGRADES		Project Number 679-20-104			
Revisions:		Date:		Fully Sprinklered		Location TUSCALOOSA VAMC, TUSCALOOSA, AL.		Issue Date 03/08/2024		Checked JMM		Drawn JEH		Building Number 002		Drawing Number TN002.2	



- GENERAL NOTES:**
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
 - B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
 - C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
 - D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
 - E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING IS INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
 - F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
 - G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
 - H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

- KEYNOTES:**
1. PROVIDE MIN. 1' CONDUIT FROM ALL SECURITY DEVICES (CR/WP, BMS, EL, REX, SSTV) TO NEW AC/SIDS FCU LOCATION.
 2. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR 4D TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
 3. PROVIDE (2) 4" EMT CONDUIT SLEEVES FROM TR 4D FOR STRUCTURED CABLING PATHWAY.
 4. EXTEND (4) 4" CONDUITS FROM TR 4D TO TMM22 FOR FIBER BACKBONE PATHWAY. SEE SITE PLAN FOR CONDUIT CONTINUATION. SEE SHEET T5500 DETAIL C2 FOR BUILDING CONDUIT ENTRY REQUIREMENTS.
 5. EXTEND CONDUITS TO BUILDING 002, 038, 63, 135, AND 137 FOR FIBER BACKBONE PATHWAY.
 6. EXTEND CONDUITS TO BUILDING 004, 017, 046, AND 061. FOR FIBER BACKBONE PATHWAY.
 7. EXTEND CONDUITS TO BUILDING 001 FOR FIBER BACKBONE PATHWAY.
 8. EXTEND (2) 4" CONDUITS FROM PULL BOX UP THROUGH CEILING DECKING INTO LEVEL 01 TR 138 FOR FIBER BACKBONE PATHWAY.
 9. EXTEND CONDUITS TO BUILDING 002, 038, 63, 135, AND 137 FOR FIBER BACKBONE PATHWAY.
 10. EXTEND CONDUITS TO BUILDING 004, 017, 046, AND 061. FOR FIBER BACKBONE PATHWAY.
 11. EXTEND CONDUITS TO BUILDING 001 FOR FIBER BACKBONE PATHWAY.
 12. EXTEND (2) 4" CONDUITS FROM TR 4D AND UP THROUGH CEILING DECKING INTO LEVEL 01 TR 138 FOR FIBER BACKBONE PATHWAY.
 13. ROUTE CONDUIT AND CABLE FOR CAMERA TO CCTV EQUIPMENT ROOM TO ROOM 1 OF BUILDING 001 FOR TERMINATION.

F1 OVERALL PLAN - GROUND LEVEL - TELECOM
SCALE: 1/8" = 1'-0"

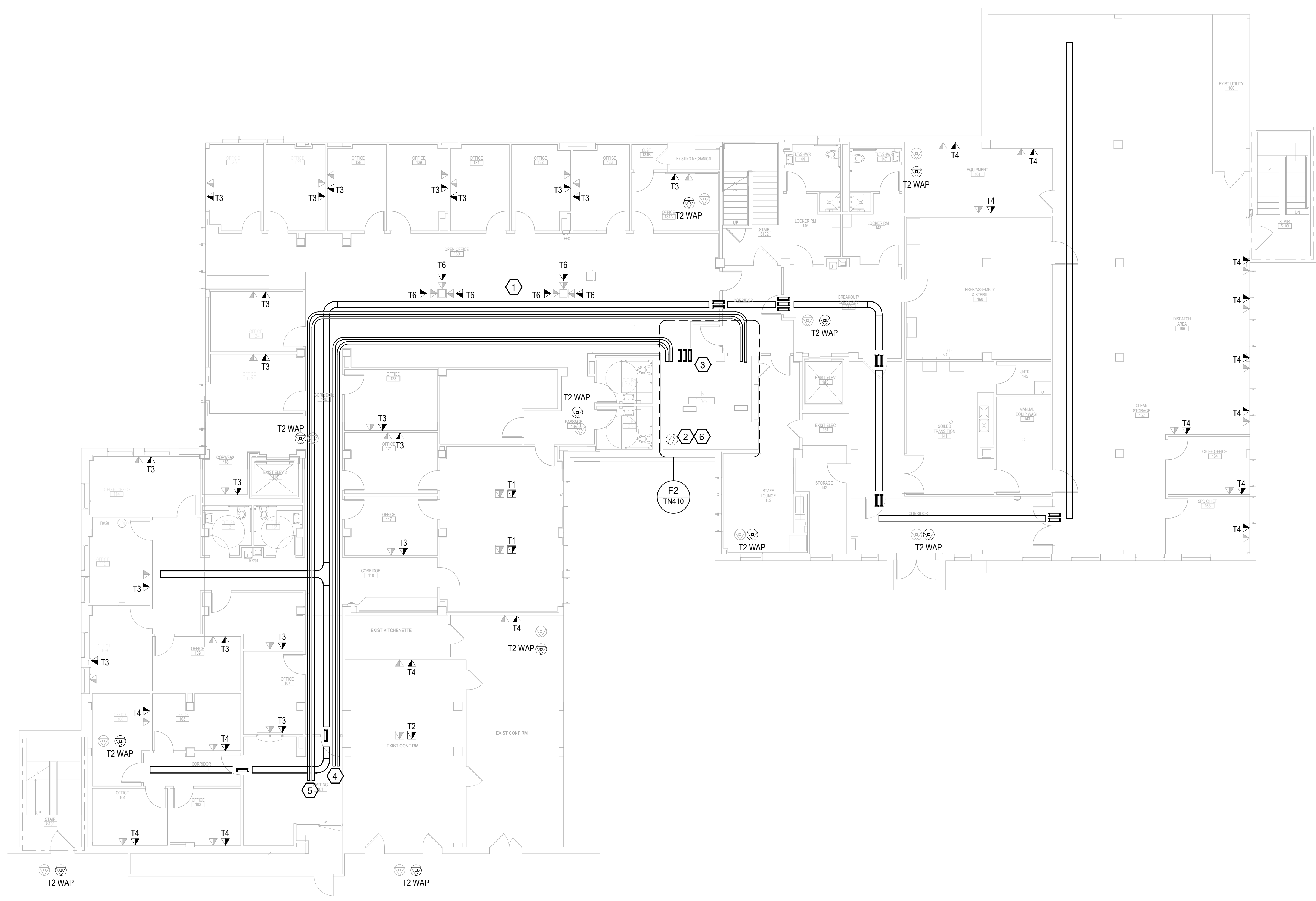
Revisions: Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP REGISTERED COMMUNICATIONS DISTRIBUTION TECHNICIAN Bicsi 2024/08/24 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 003 - GROUND LEVEL - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104	
						Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 003	
							Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN003.0

GENERAL NOTES:

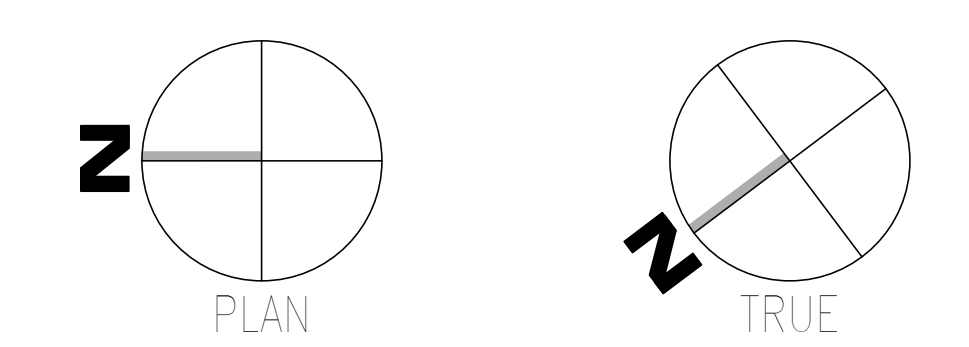
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 90 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

KEYNOTES:

- 1. AREA OF MODULAR FURNITURE. (12) CUBICALS WITH (3) CATEGORY 6A CABLES PER CUBICAL FED FROM CEILING TO FURNITURE TRACK THROUGH BUILDING COLUMNS.
- 2. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW AGS/IDS PCU LOCATION.
- 3. PROVIDE (5) 4" EMT CONDUIT SLEEVES FROM TR 138 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 4. EXTEND (2) 4" CONDUITS FROM TR 138 AND UP THROUGH CEILING TRAY INTO LEVEL 02 TR 216 FOR FIBER BACKBONE PATHWAY.
- 5. EXTEND (2) 4" CONDUITS FROM TR 138 AND UP THROUGH CEILING DECK INTO LEVEL 02 TR 216 FOR FIBER BACKBONE PATHWAY.
- 6. ROUTE CONDUIT AND CABLE FOR CAMERA TO CCTV EQUIPMENT ROOM TO ROOM 1 OF BUILDING 001 FOR TERMINATION.



F1 OVERALL PLAN - LEVEL 01 - TELECOM
SCALE: 1/8" = 1'-0"



Revisions:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		ARCHITECT/ENGINEER OF RECORD		STAMP Bicsi Registered Communications Distributor BICSI 107 # 219954 Expires 03/31/25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 003 - LEVEL 01 - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
	Date:	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204		Atriax GROUP www.atriaxgroup.com Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254			Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 003

1 2 3 4 5 6 7 8 9 10

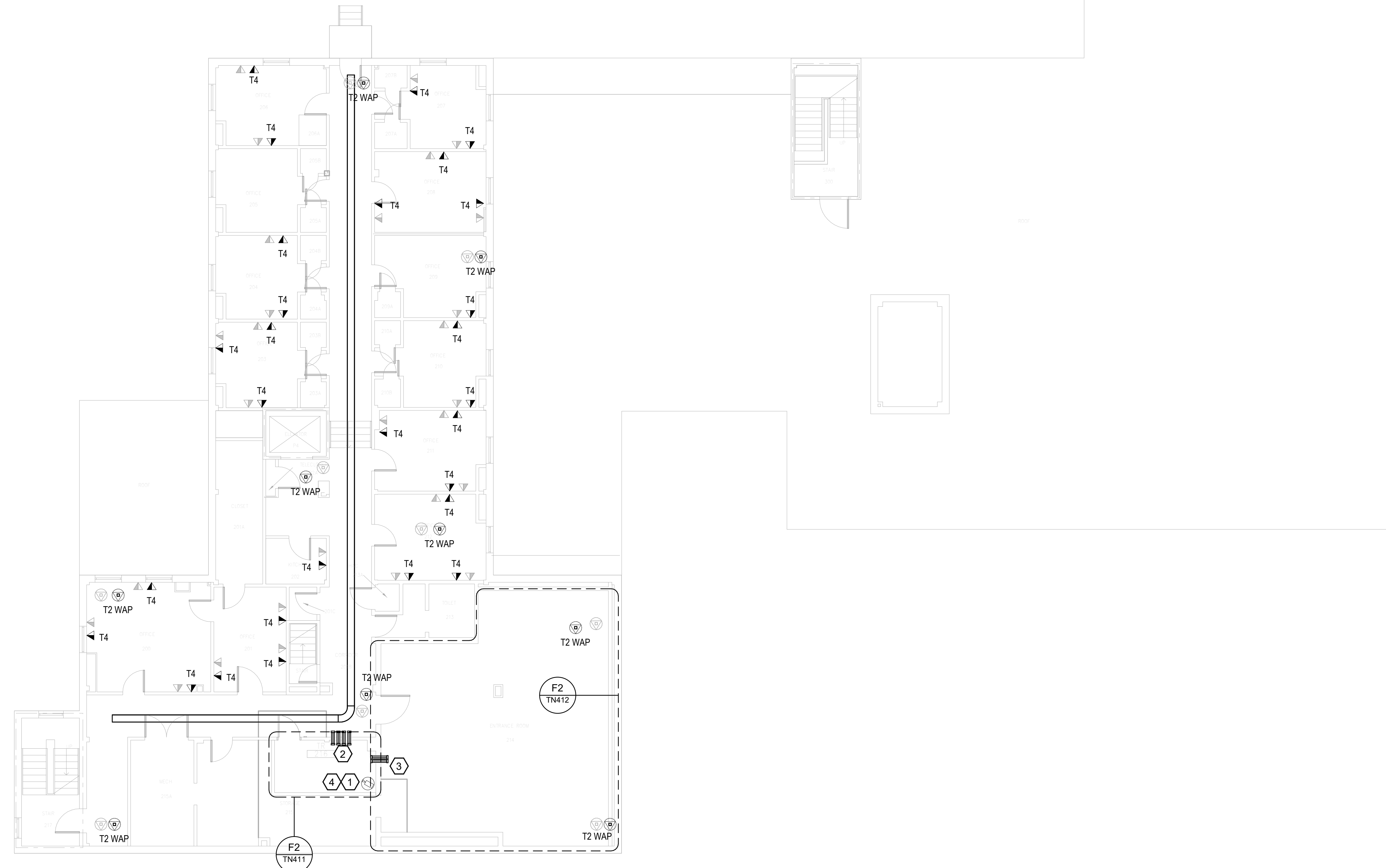
A
B
C
D
E
F

GENERAL NOTES:

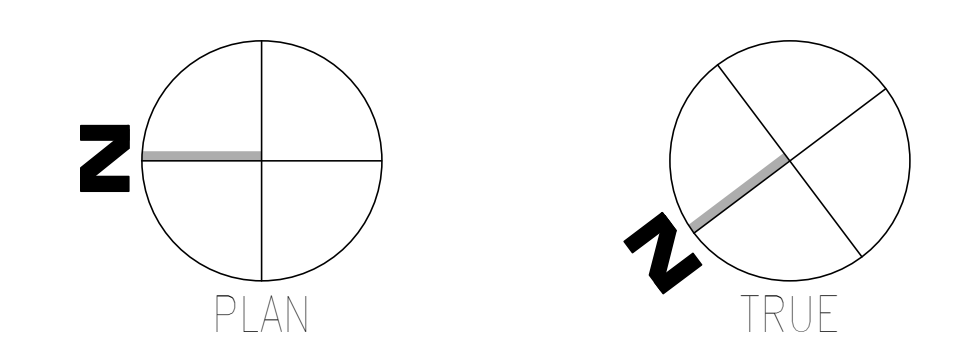
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 90 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

KEYNOTES:

- 1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 2. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR 216 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 3. PROVIDE (2) 4" SLEEVES THROUGH WALL FROM TR 216 YO DC 215 FOR BACKBONE AND SERVICE PROVIDER FIBER PATHWAYS.
- 4. ROUTE CONDUIT AND CABLE FOR CAMERA TO CCTV EQUIPMENT ROOM TO ROOM 1 OF BUILDING 001 FOR TERMINATION.



F1 OVERALL PLAN - LEVEL 02 - TELECOM
SCALE: 1/8" = 1'-0"



Revisions:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254		STAMP Bicsi Registered Communications Distributor RES-167-239554 Expires 03/31/25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 003 - LEVEL 02 - TELECOM Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED	Project Title EHRM INFRASTRUCTURE UPGRADES Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024	Project Number 679-20-104 Building Number 003 Drawing Number TN003.2	Checked JMM Drawn JEH
	Date:										

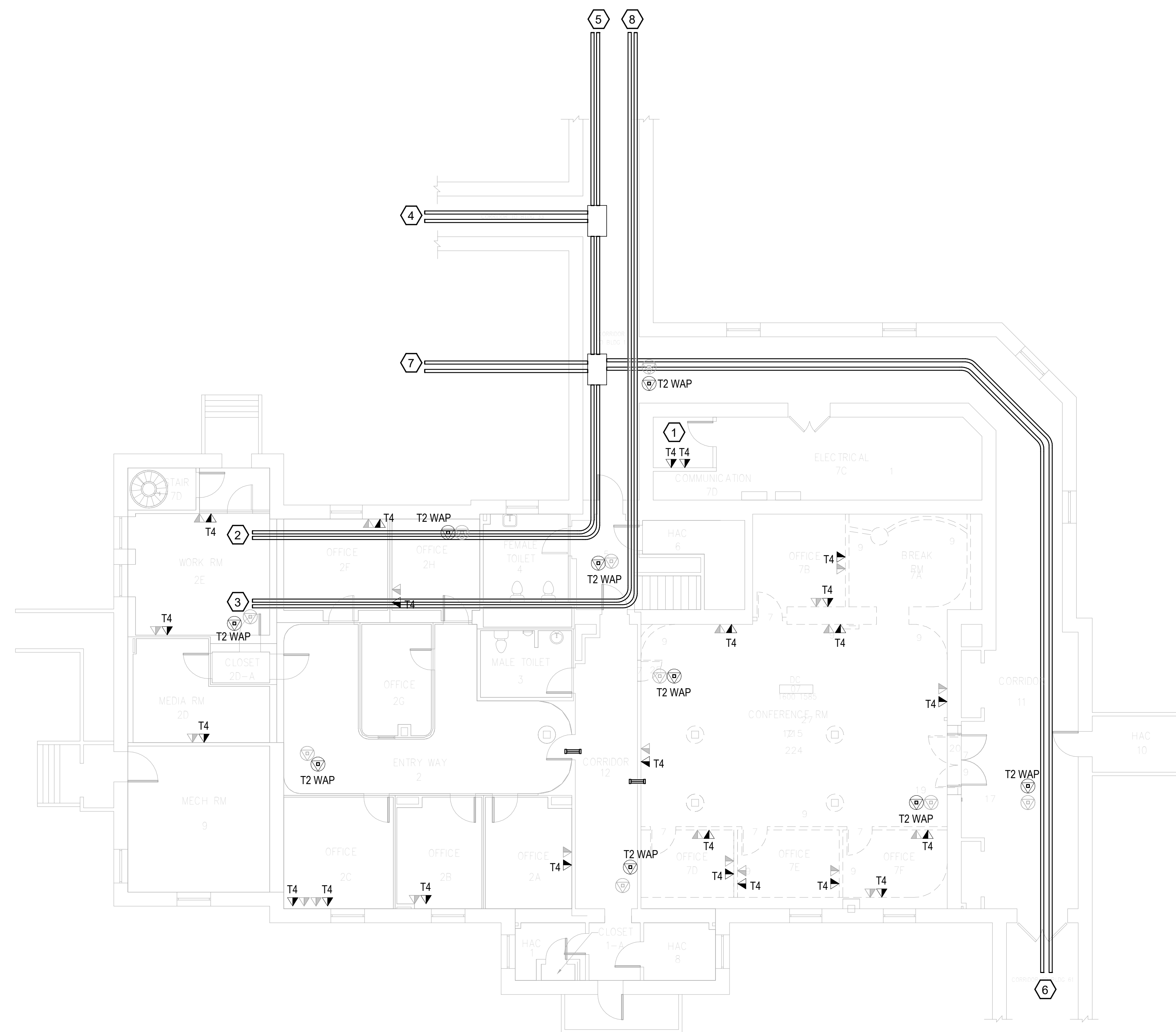
1 2 3 4 5 6 7 8 9 10

KEYNOTES:

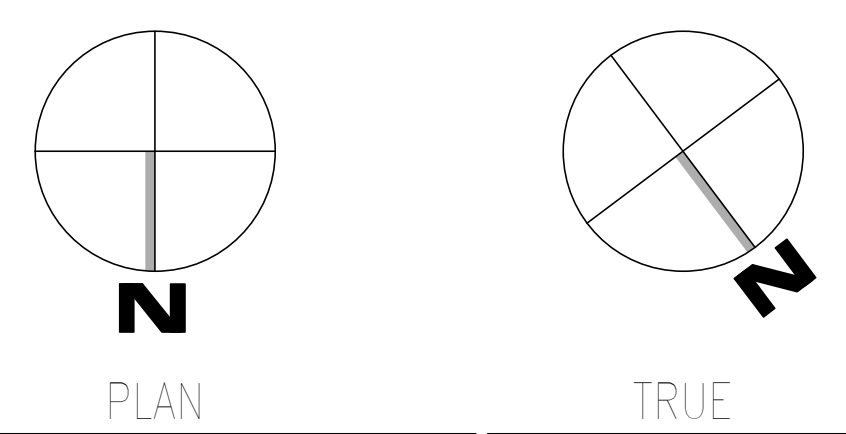
1. EXISTING TR. COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
2. EXTEND (2) 4" CONDUITS THROUGH CEILING DECK INTO LEVEL 01 TR 104 FOR FIBER BACKBONE PATHWAY.
3. EXTEND (2) 4" CONDUITS THROUGH CEILING DECK INTO LEVEL 01 TR 104 FOR FIBER BACKBONE PATHWAY.
4. EXTEND CONDUITS TO BUILDINGS 017 AND 046 FOR FIBER BACKBONE PATHWAY.
5. EXTEND CONDUITS TO BUILDING 001, 002, 003, 063, 135, 38, AND 137 FOR FIBER BACKBONE PATHWAY.
6. EXTEND (2) 4" CONDUITS TO BUILDING 061 FOR FIBER BACKBONE PATHWAY.
7. PROVIDE (4) 4" CONDUITS FROM MANHOLE TMH31 FOR BACKBONE FIBER PATHWAY. SEE SITE PLANS FOR CONDUIT ROUTES CONTINUATION.
8. EXTEND (2) 4" CONDUITS THROUGH CORRIDOR TO BUILDING 003 FOR FIBER BACKBONE PATHWAY.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. PROVIDE J-HOOKS ABOVE CEILING AS REQUIRED FOR NEW HORIZONTAL CABLING PATHWAYS THROUGHOUT BUILDING.
- I. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - GROUND LEVEL - TELECOM
SCALE: 1/8" = 1'-0"



Revisions: _____ Date: _____	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Bicsi 3004 16th St NE Bldg 101 # 219554 Everett, WA 98203 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 004 - GROUND LEVEL - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
	Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 004	Drawing Number TN004.0			

1 2 3 4 5 6 7 8 9 10

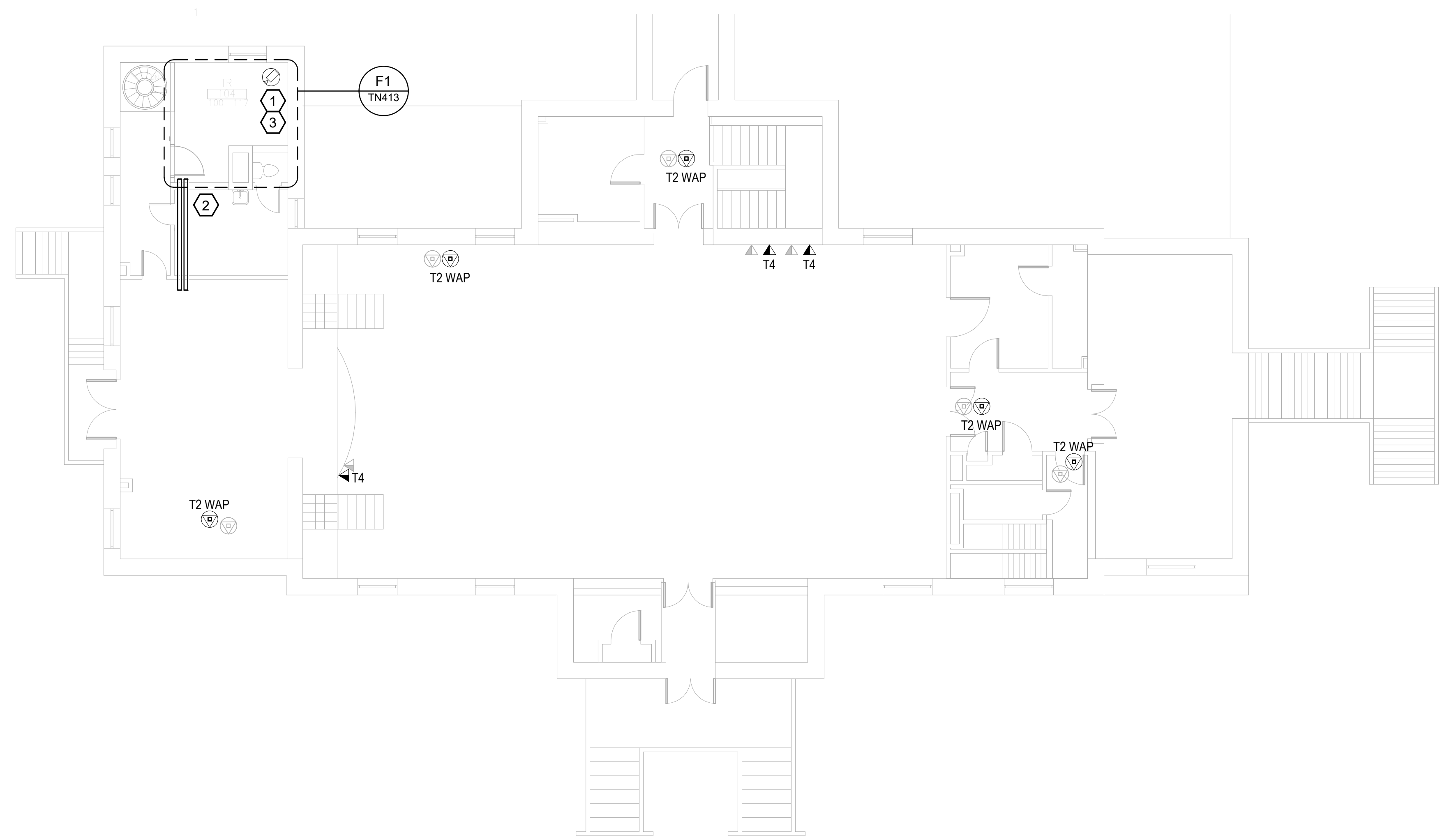
A
B
C
D
E
F

KEYNOTES:

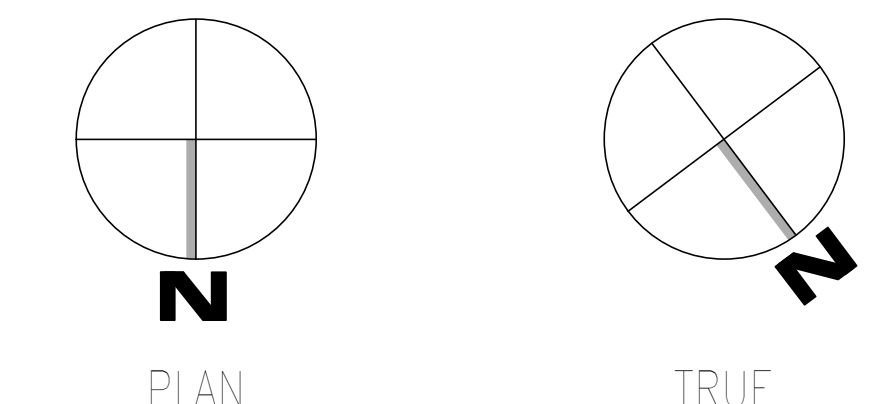
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ASSIDS PDU LOCATION.
2. PROVIDE (2) 4" EMT CONDUIT FROM TR 104 TO CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT IN EXISTING TELECOM ROOM 7D FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 150.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. PROVIDE J-HOOKS ABOVE CEILING AS REQUIRED FOR NEW HORIZONTAL CABLING PATHWAYS THROUGHOUT BUILDING.



F1 OVERALL PLAN - LEVEL 01 - TELECOM
SCALE: 1/8" = 1'-0"



Revisions:	Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax www.atriaxgroup.com Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254	Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER 3024 J.M. McMillan Blvd. BATESVILLE, TN 37625 Expires 03/31/25 RCDD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 004 - LEVEL 01 - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104	
							Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 004	
								Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN004.1

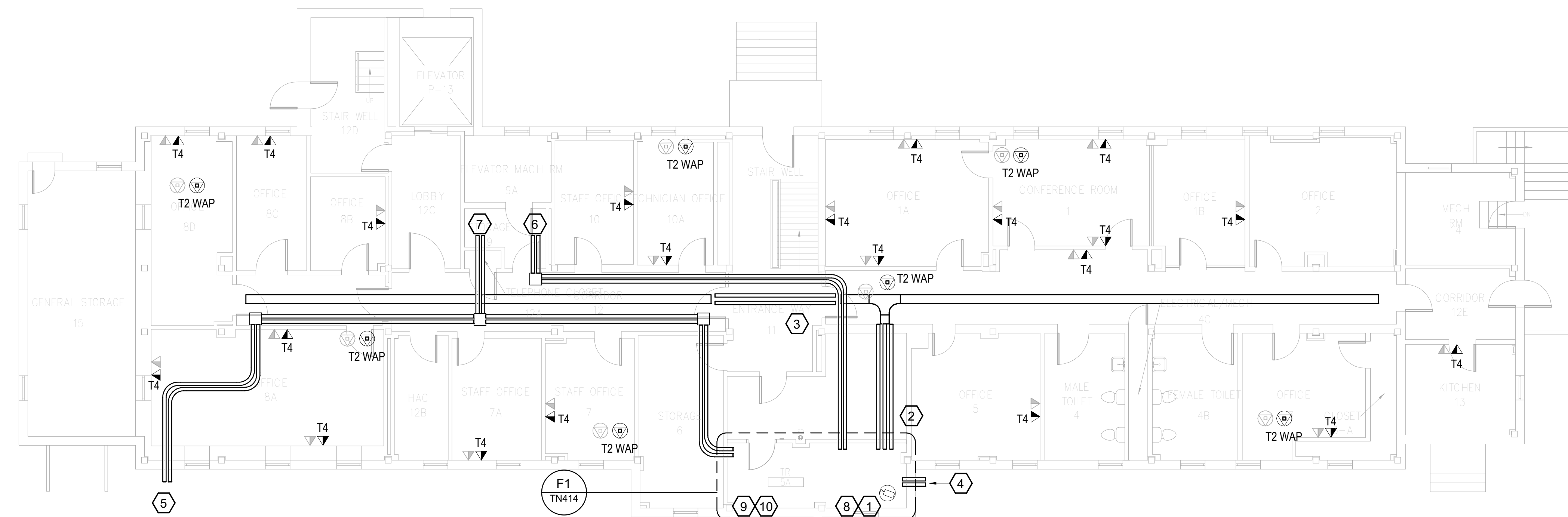
1 2 3 4 5 6 7 8 9 10

KEYNOTES:

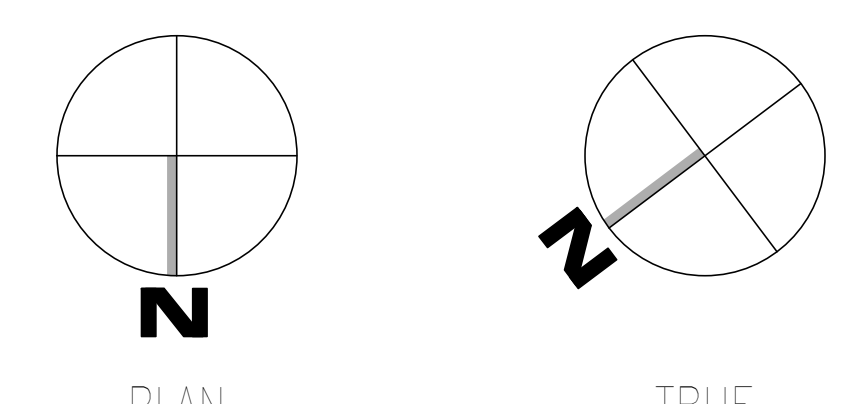
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
2. PROVIDE (3) 4" EMT CONDUITS FROM TR 5A TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. PROVIDE (2) 4" EMT CONDUITS ACROSS ENTRY WAY FOR HORIZONTAL CABLING PATHWAY.
4. EXTEND (2) 4" CONDUITS TO TMH32 FOR BACKBONE FIBER PATHWAYS. SEE SITE PLAN FOR CONDUIT CONTINUATION.
5. EXTEND (2) 4" CONDUITS TO THH33 FOR BACKBONE FIBER PATHWAYS. SEE SITE PLAN FOR CONDUIT CONTINUATION.
6. CONTINUE (2) 4" CONDUITS ROUTING THROUGH CEILING DECK FOR BACKBONE FIBER PATHWAY TO LEVEL 01 TR 111A.
7. CONTINUE (2) 4" CONDUITS ROUTING THROUGH CEILING DECK FOR BACKBONE FIBER PATHWAY TO LEVEL 01 TR 111A.
8. ROUTE CONDUIT AND CABLE FOR CAMERA TO NEW CCTV EQUIPMENT LOCATION IN TR 5A FOR TERMINATION.
9. PROVIDE 8 STRAND MULTIMODE INDOOR/OUTDOOR RATED FIBER TO ROOM C21 OF BUILDING 61 FOR CONNECTION TO CCTV NETWORK.
10. PROVIDE (1) 8RU OPEN FRAME WALL MOUNT RACK WITH RACK MOUNTED FIBER ENCLOSURE AND COPPER PATCH PANEL FOR THE TERMINATION OF FIBER AND CAT 6A CABLES FOR CAMERAS.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - BASEMENT LEVEL
SCALE: 1/8" = 1'-0"



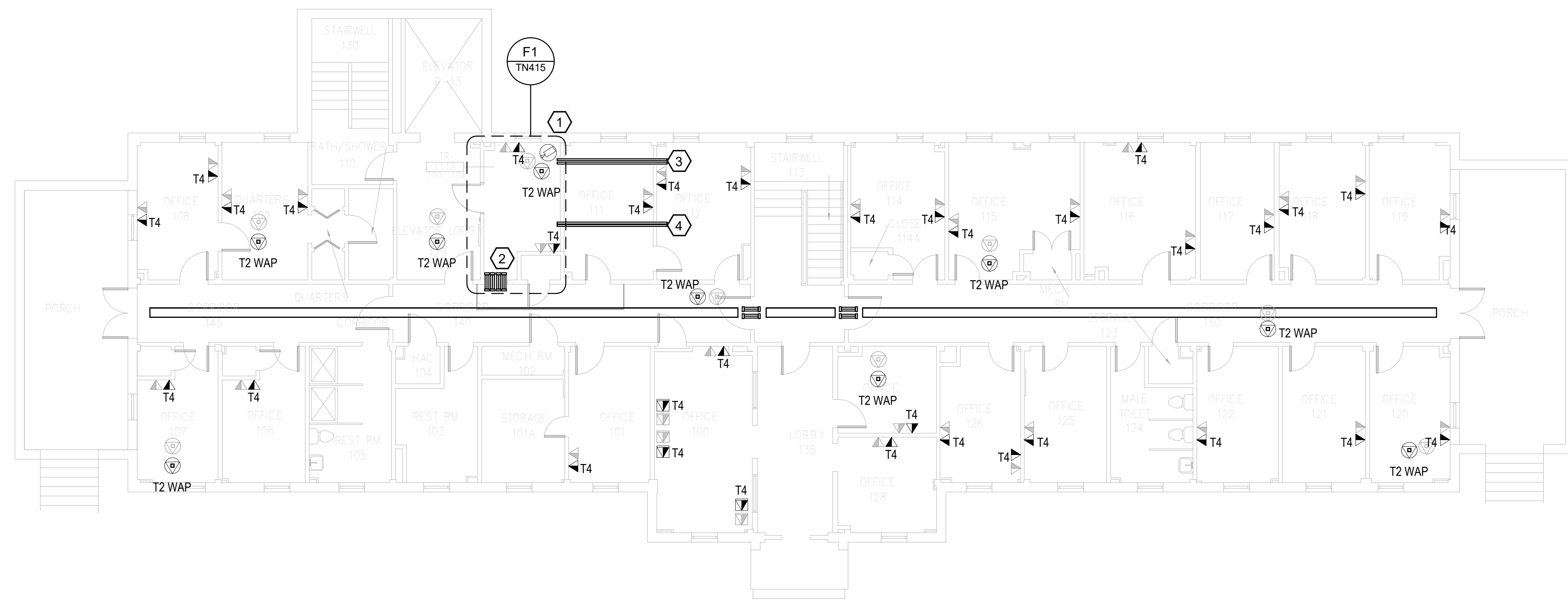
CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204		ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 16229, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254		STAMP BICSI Registered Communications Distributor BICSI ID # 239554 Expires 03/31/25 RCDD 03/08/24		Office of Construction and Facilities Management U.S. Department of Veterans Affairs		Drawing Title BUILDING 005 - BASEMENT LEVEL - TELECOM		Phase 100% CONSTRUCTION DOCUMENTS		Project Title EHRM INFRASTRUCTURE UPGRADES		Project Number 679-20-104	
Approved: Chief Engineer		FULLY SPRINKLERED		Location TUSCALOOSA VAMC, TUSCALOOSA, AL.		Drawing Number TN005.B		Issue Date 03/08/2024		Checked JMM		Drawn JEH		Building Number 005			

KEYNOTES:

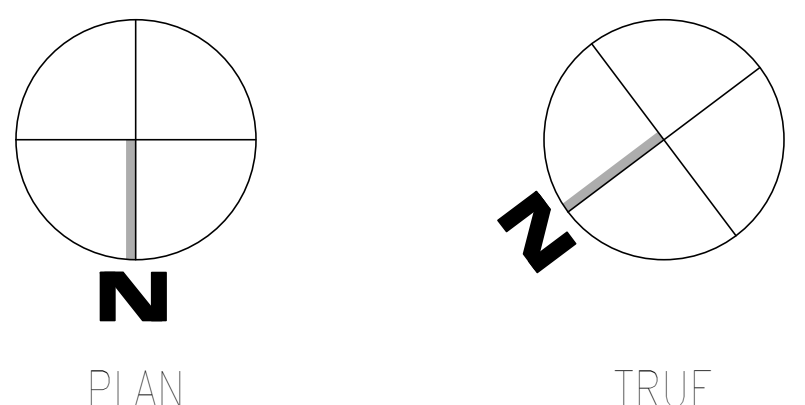
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACCESS PCL LOCATION.
2. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR 111A TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. CONTINUE (2) 4" CONDUIT ROUTE THROUGH CEILING DECK FOR BACKBONE FIBER PATHWAY TO LEVEL 02 TR 211.
4. CONTINUE (2) 4" CONDUIT ROUTE THROUGH CEILING DECK FOR BACKBONE FIBER PATHWAY TO LEVEL 02 TR 211.
5. ROUTE CONDUIT AND CABLE FOR CAMERA TO NEW CCTV EQUIPMENT LOCATION IN TR 5A FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - LEVEL 01
SCALE: 1/8" = 1'-0"



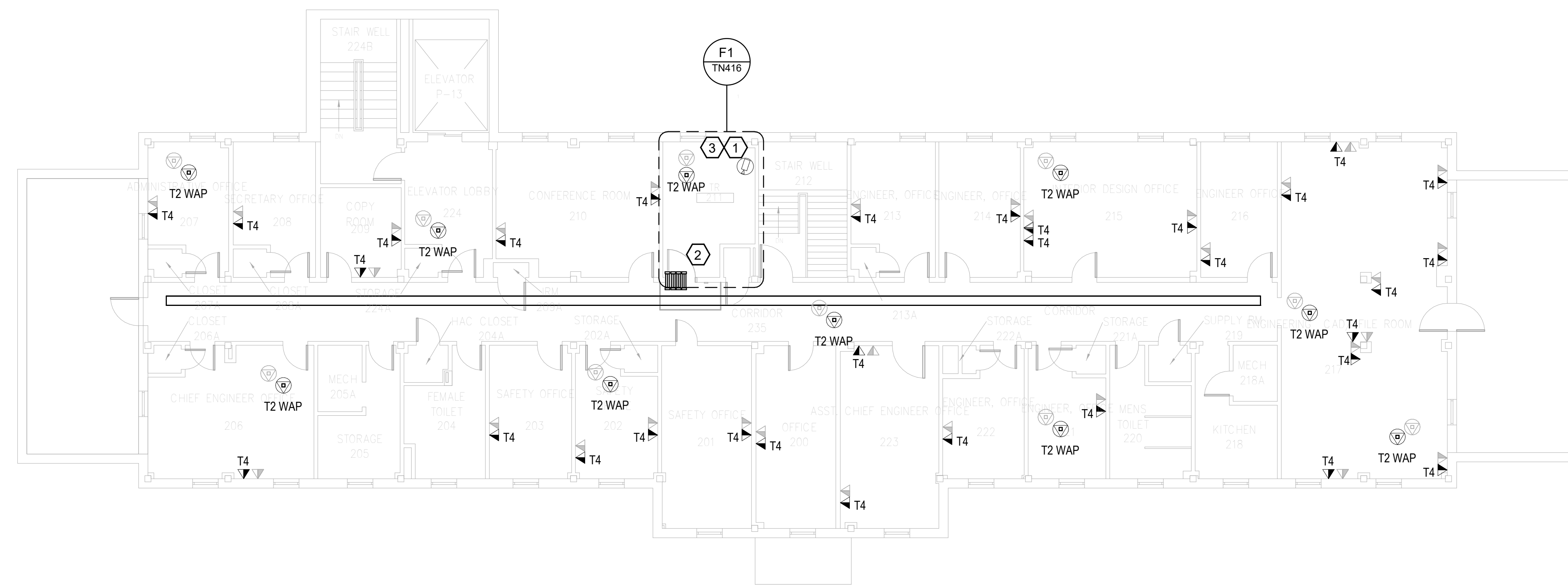
Revisions:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		ARCHITECT/ENGINEER OF RECORD		Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 005 - LEVEL 01 - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
	Date:	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204		Atriax GROUP www.atriaxgroup.com Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254		Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Drawing Number TN005.1

KEYNOTES:

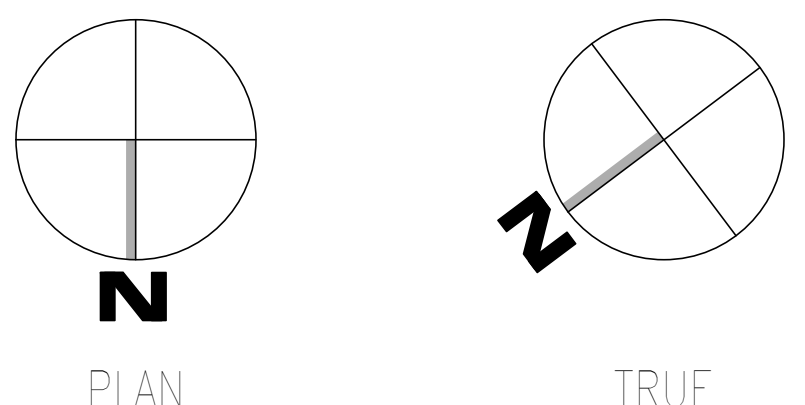
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACSIDS PCU LOCATION.
2. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR 211 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. ROUTE CONDUIT AND CABLE FOR CAMERA TO NEW CCTV EQUIPMENT LOCATION IN TR 5A FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR's SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - LEVEL 02
SCALE: 1/8" = 1'-0"



CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254		STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI 107 239554 Expires 03/31/25 RCD 03/08/24		Office of Construction and Facilities Management U.S. Department of Veterans Affairs		Drawing Title BUILDING 005 - LEVEL 02 - TELECOM Approved: Chief Engineer		Phase 100% CONSTRUCTION DOCUMENTS		Project Title EHRM INFRASTRUCTURE UPGRADES		Project Number 679-20-104	
Revisions:		Date:		FULLY SPRINKLERED		Location TUSCALOOSA VAMC, TUSCALOOSA, AL.		Issue Date 03/08/2024		Checked JMM		Drawn JEH			
												Drawing Number TN005.2			

1 2 3 4 5 6 7 8 9 10

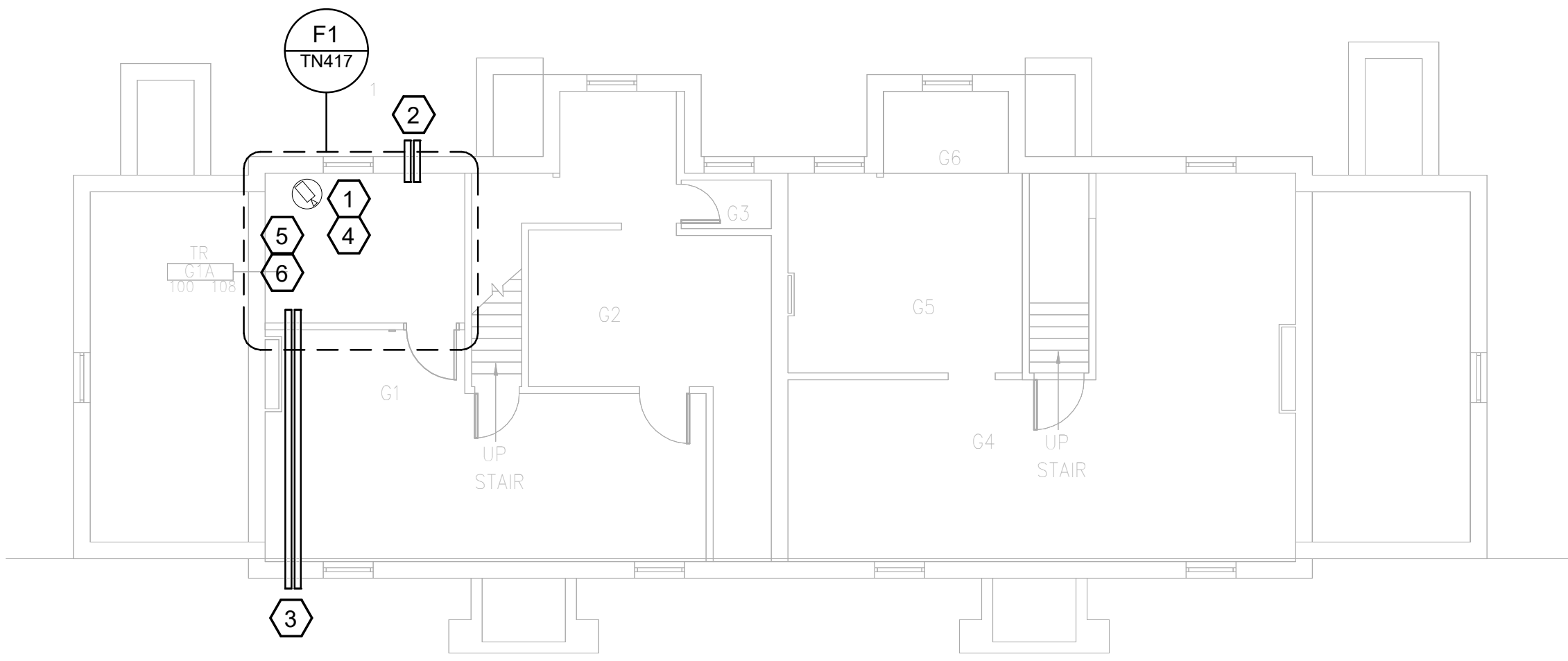
A
B
C
D
E
F

#) KEYNOTES:

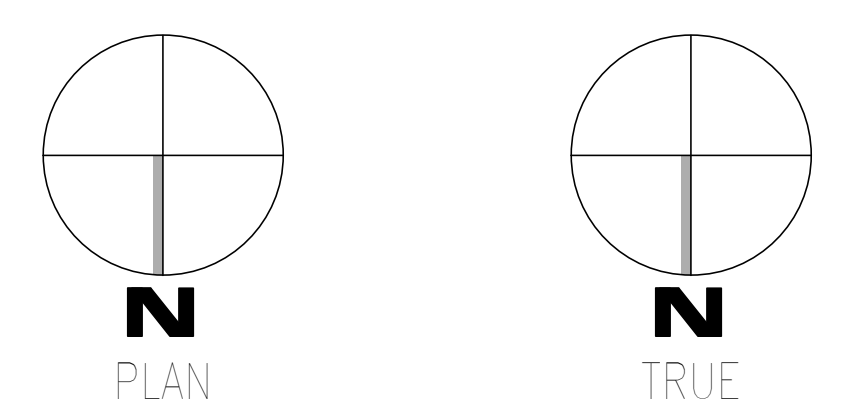
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
2. PROVIDE (2) 4" CONDUITS FROM MANHOLE TMH06 TO TR G1A FOR BACKBONE FIBER PATHWAY. SEE SITE PLAN FOR CONDUIT ROUTE CONTINUATION.
3. PROVIDE (2) 4" CONDUITS FROM MANHOLE TMH05 TO TR G1A FOR BACKBONE FIBER PATHWAY. SEE SITE PLAN FOR CONDUIT ROUTE CONTINUATION.
4. ROUTE CONDUIT AND CABLE FOR CAMERA TO NEW CCTV EQUIPMENT LOCATION IN TR G1A FOR TERMINATION.
5. PROVIDE 8 STRAND MULTIMODE INDOOR/OUTDOOR RATED FIBER TO ROOM C21 OF BUILDING 61 FOR CONNECTION TO CCTV NETWORK.
6. PROVIDE (1) 8RU OPEN FRAME WALL MOUNT RACK WITH RACK MOUNTED FIBER ENCLOSURE AND COPPER PATCH PANEL FOR THE TERMINATION OF FIBER AND CAT 6A CABLES FOR CAMERAS.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - BASEMENT LEVEL - TELECOM
SCALE: 1/8" = 1'-0"



Revisions:	Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	 SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254		Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 006 - BASEMENT LEVEL	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
							Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 006
							Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN006.B

1 2 3 4 5 6 7 8 9 10

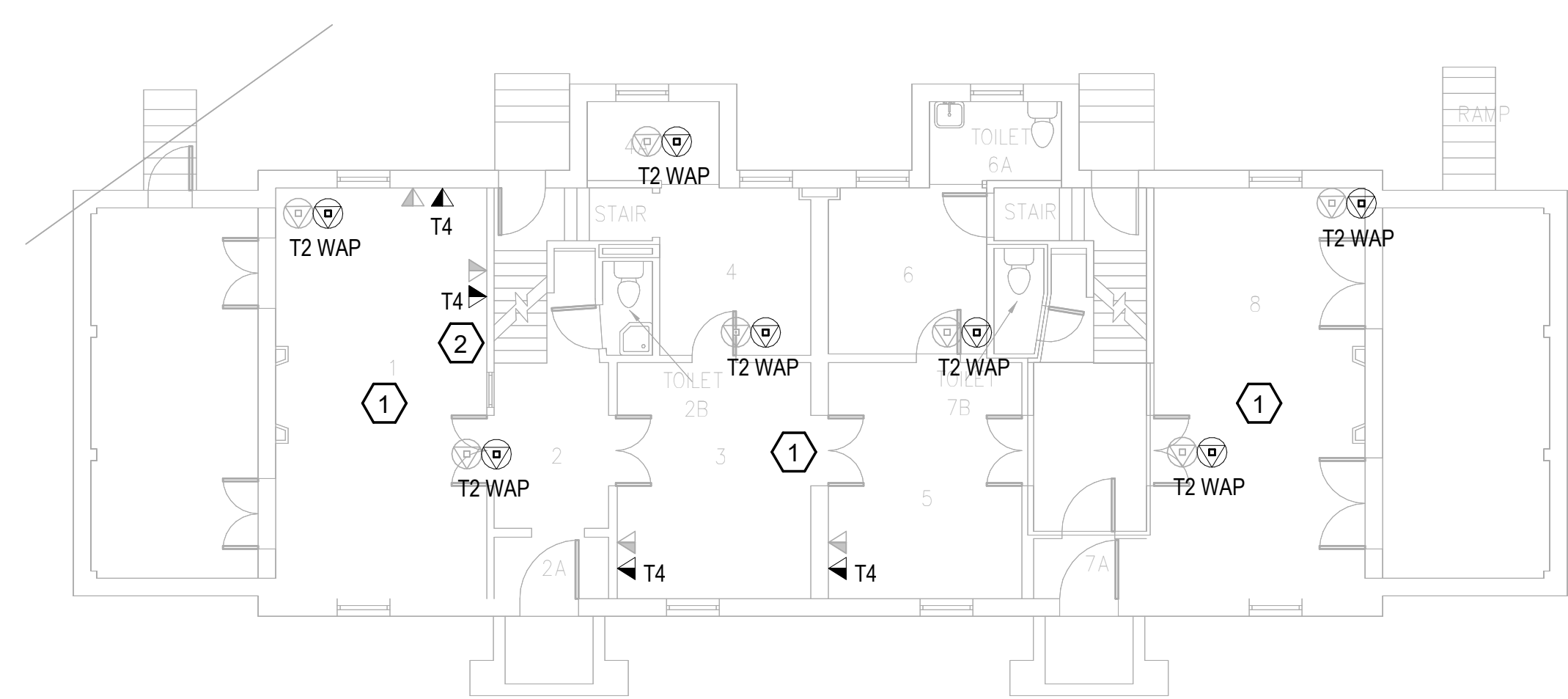
A
B
C
D
E
F

#KEYNOTES:

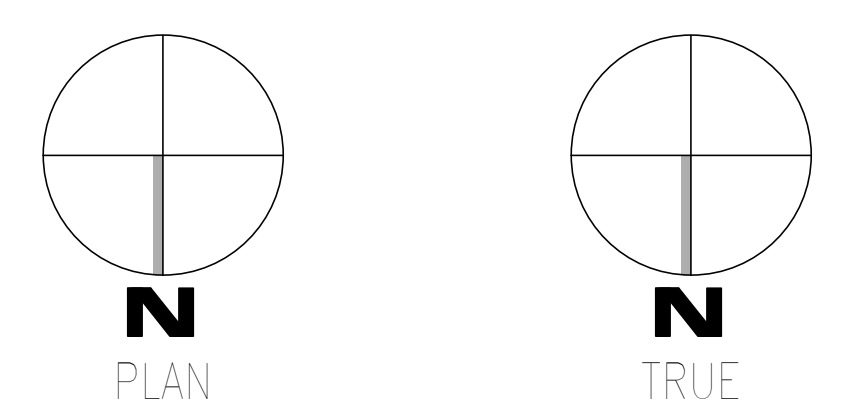
1. PROVIDE (2) 2" CONDUITS WITHIN WALL FROM THE BASEMENT TO ATTIC. ALL CABLING FOR TELECOMMUNICATION OUTLETS ON LEVEL 01 SHALL BE ROUTED THROUGH BASEMENT AND STUBBED UP INSIDE WALLS AT LEVEL 01 OUTLET LOCATION.
2. PROVIDE ACCESS PANEL AT STAIRWELL WALL FOR VERTICAL STRUCTURED CABLE PATHWAY TO ATTIC.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - LEVEL 01 - TELECOM
SCALE: 1/8" = 1'-0"



Revisions:	CONSULTANT 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204		ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254		STAMP BICSI Registered Communications Distributor RES-10 # 239554 Expires 03/31/25 RCD 03/08/24		Office of Construction and Facilities Management U.S. Department of Veterans Affairs		Drawing Title BUILDING 006 - LEVEL 01		Phase 100% CONSTRUCTION DOCUMENTS		Project Title EHRM INFRASTRUCTURE UPGRADES		Project Number 679-20-104	
	Date:								Approved: Chief Engineer		FULLY SPRINKLERED		Location TUSCALOOSA VAMC, TUSCALOOSA, AL.		Building Number 006			
												Issue Date 03/08/2024		Drawing Number TN006.1				
												Checked JMM		Drawn JEH				

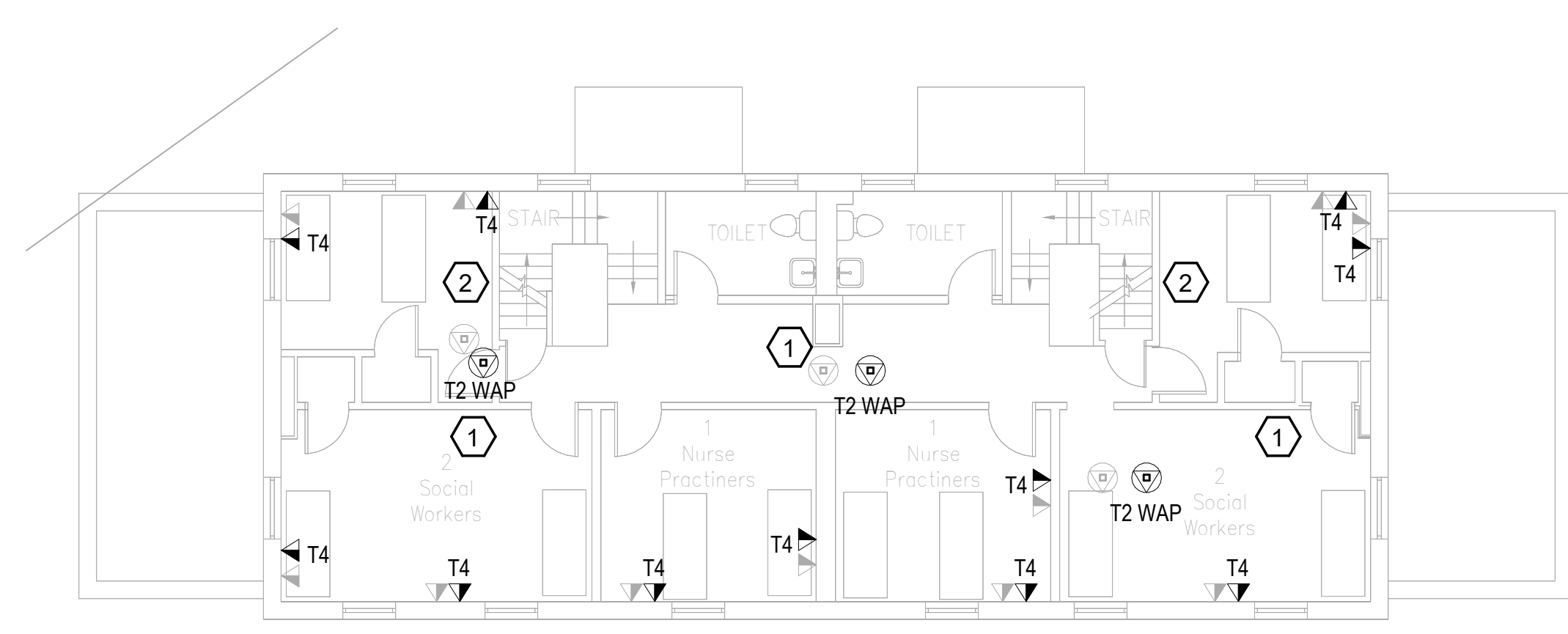
A
B
C
D
E
F

#KEYNOTES:

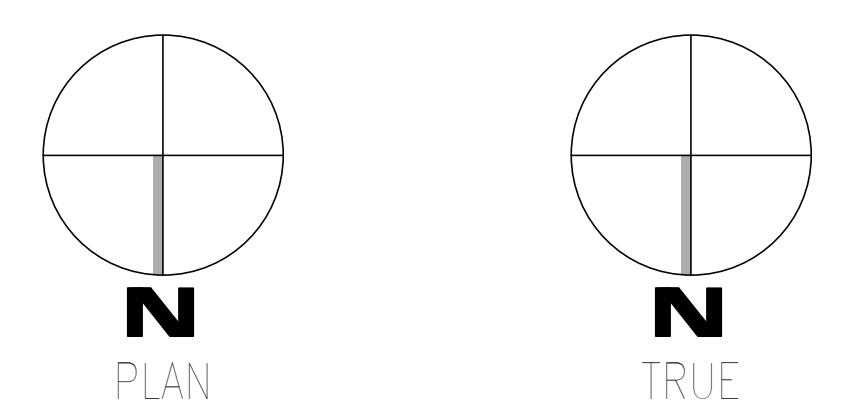
1. PROVIDE (2) 2" CONDUITS WITHIN WALL FROM THE BASEMENT TO ATTIC. ALL CABLING FOR TELECOMMUNICATION OUTLETS ON LEVEL 02 SHALL BE ROUTED FROM BASEMENT TO ATTIC INSIDE STAIRWELL WALL AND STUBBED DOWN INSIDE WALLS AT LEVEL 02 OUTLET LOCATION.
2. PROVIDE ACCESS PANEL AT STAIRWELL WALL FOR VERTICAL STRUCTURED CABLE PATHWAY TO ATTIC.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR's SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - LEVEL 02 - TELECOM
SCALE: 1/8" = 1'-0"



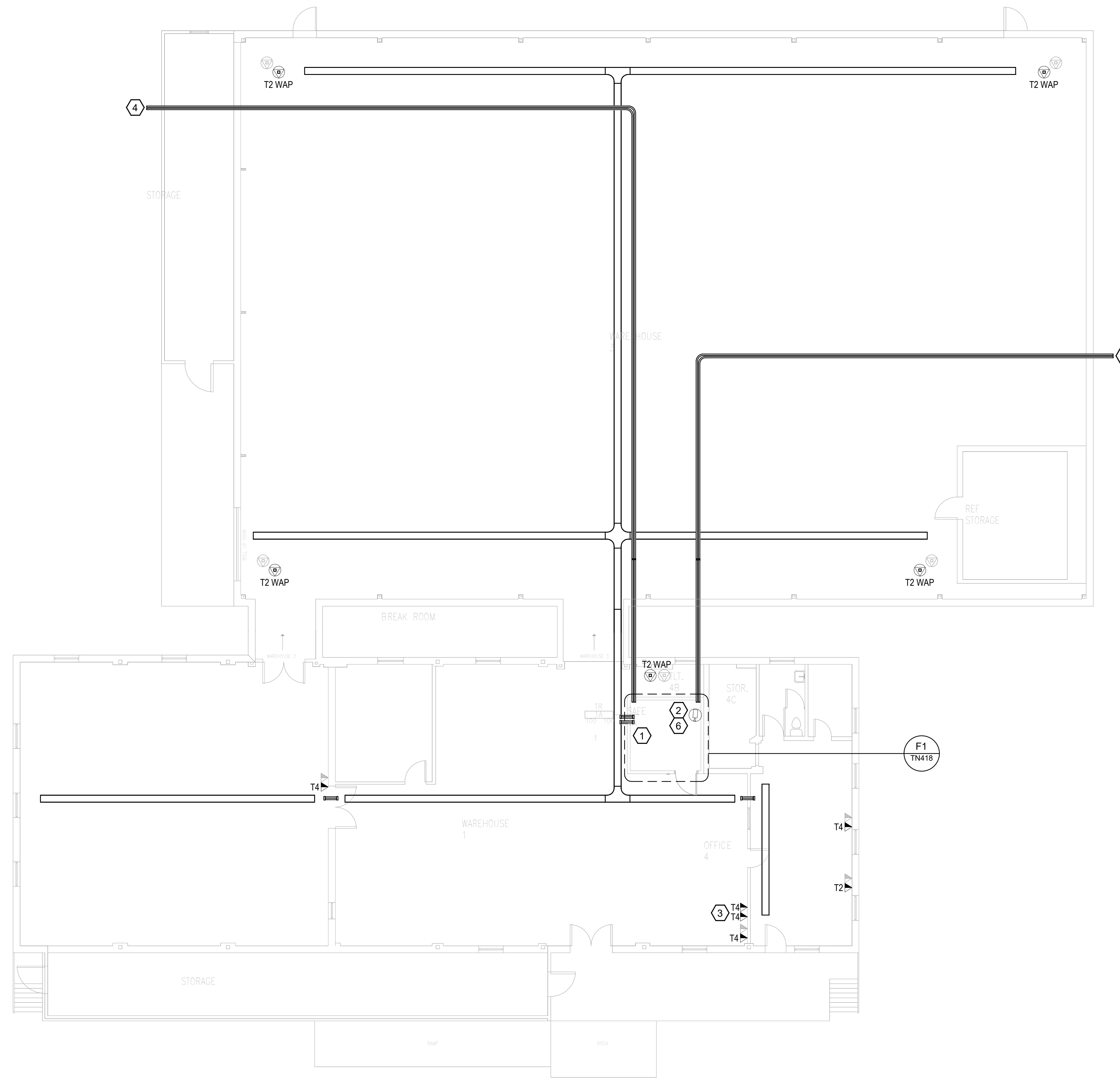
CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		ARCHITECT/ENGINEER OF RECORD		Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs		Drawing Title BUILDING 006 - LEVEL 02		Phase 100% CONSTRUCTION DOCUMENTS		Project Title EHRM INFRASTRUCTURE UPGRADES		Project Number 679-20-104	
SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204		Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254		REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Bicsi 10000 W. 10th St. Suite 100 Overland Park, KS 66204 RCD0 03/08/24		Approved: Chief Engineer		FULLY SPRINKLERED		Location TUSCALOOSA VAMC, TUSCALOOSA, AL.		Building Number 006	
Revisions:		Date:		Issue Date 03/08/2024		Checked JMM		Drawn JEH		Drawing Number TN006.2			

KEYNOTES:

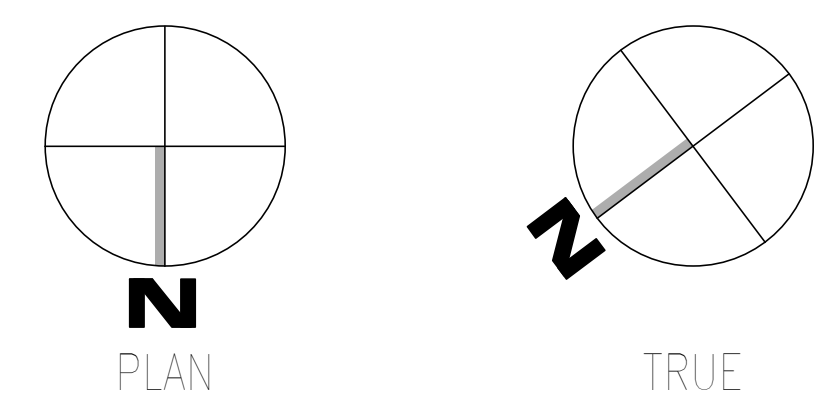
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CRIMP, BMS, EL, REK, SSTV) TO NEW ACS/IDS FCU LOCATION.
2. PROVIDE (2) 4" EMT CONDUIT SLEEVES FROM TR 1A TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. EXISTING TR, COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
4. EXTEND (2) 4" CONDUITS TO THH25 FOR BACKBONE FIBER PATHWAYS.
5. EXTEND (2) 4" CONDUITS TO THH25 FOR BACKBONE FIBER PATHWAYS.
6. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT LOCATION IN WAREHOUSE FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - BASEMENT LEVEL - TELECOM
SCALE: 1/8" = 1'-0"



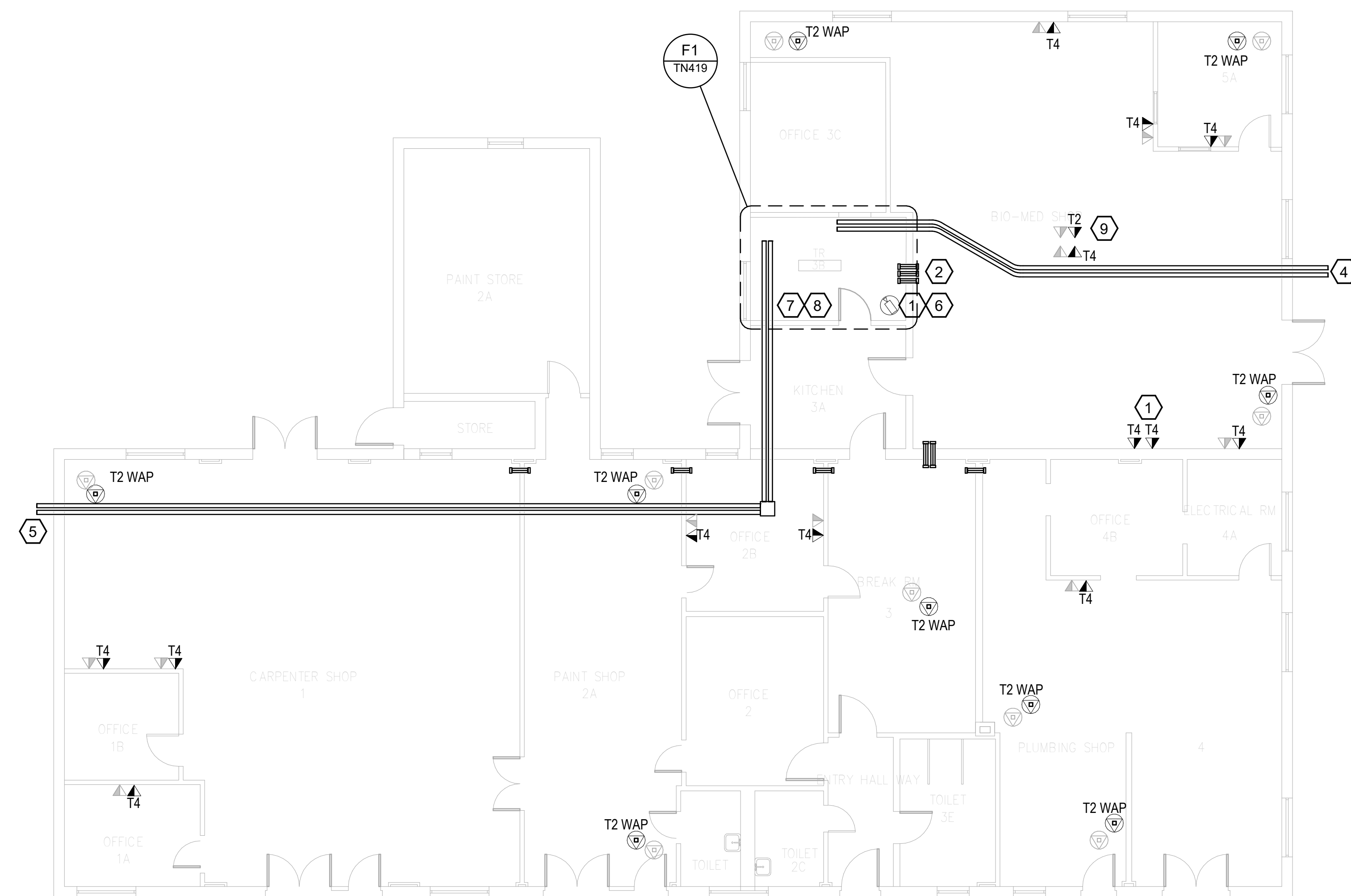
CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204		ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254		STAMP Bicsi Registered Communications Distributor BICSI 107 # 239554 Expires 03/31/25 RCD 03/08/24		Office of Construction and Facilities Management U.S. Department of Veterans Affairs		Drawing Title BUILDING 012 - BASEMENT LEVEL - TELECOM Approved: Chief Engineer		Phase 100% CONSTRUCTION DOCUMENTS		Project Title EHRM INFRASTRUCTURE UPGRADES Project Number 679-20-104 Building Number 012		Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024 Checked JMM Drawn JEH		Drawing Number TN012.B	
---	--	---	--	---	--	---	--	--	--	---	--	---	--	--	--	--	--	----------------------------------	--

KEYNOTES:

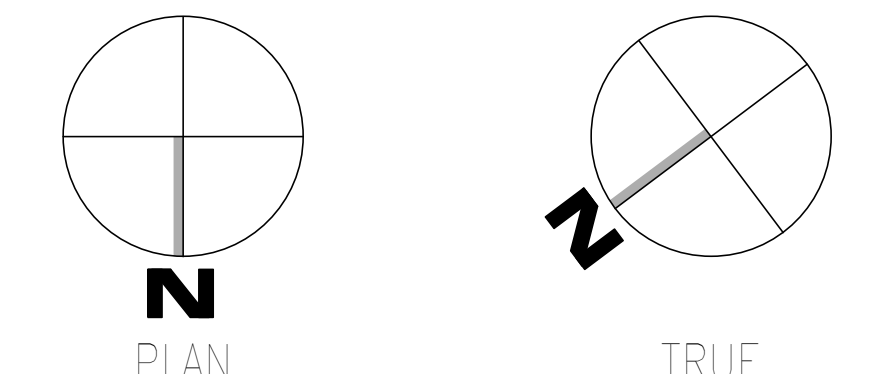
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW AC/SIDS PSU LOCATION.
2. PROVIDE (3) 4" EMT CONDUIT SLEEVES FROM TR 4B TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. EXISTING TRs COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
4. PROVIDE (2) 4" CONDUITS FROM MANHOLE TMH26 TO TE 3B FOR BACKBONE FIBER PATHWAY. SEE SITE PLAN FOR CONDUIT ROUTE CONTINUATION.
5. PROVIDE (2) 4" CONDUITS FROM TE 3B THROUGH CONNECTING CORRIDOR AND OUT TO MANHOLE TMH31 FOR FIBER BACKBONE PATHWAY. SEE SITE PLAN FOR CONDUIT ROUTE CONTINUATION.
6. ROUTE CONDUIT AND CABLE FOR CAMERA TO NEW CCTV EQUIPMENT LOCATION IN ROOM 3B FOR TERMINATION.
7. PROVIDE 6 STRAND MULTIMODE INDOOR/OUTDOOR RATED FIBER TO ROOM 1 OF BUILDING 001 FOR CONNECTION TO EXISTING CCTV NETWORK.
8. PROVIDE (1) 8RU OPEN FRAME WALL MOUNT RACK WITH RACK MOUNTED FIBER ENCLOSURE AND COPPER PATCH PANEL FOR THE TERMINATION OF FIBER AND CAT 6A CABLES FOR CAMERAS.
9. FURNITURE MOUNTED OUTLETS.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 300 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. PROVIDE J-HOOKS ABOVE CEILING AS REQUIRED FOR NEW HORIZONTAL CABLING PATHWAYS THROUGHOUT BUILDING.
- I. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - GROUND LEVEL - TELECOM
SCALE: 1/8" = 1'-0"



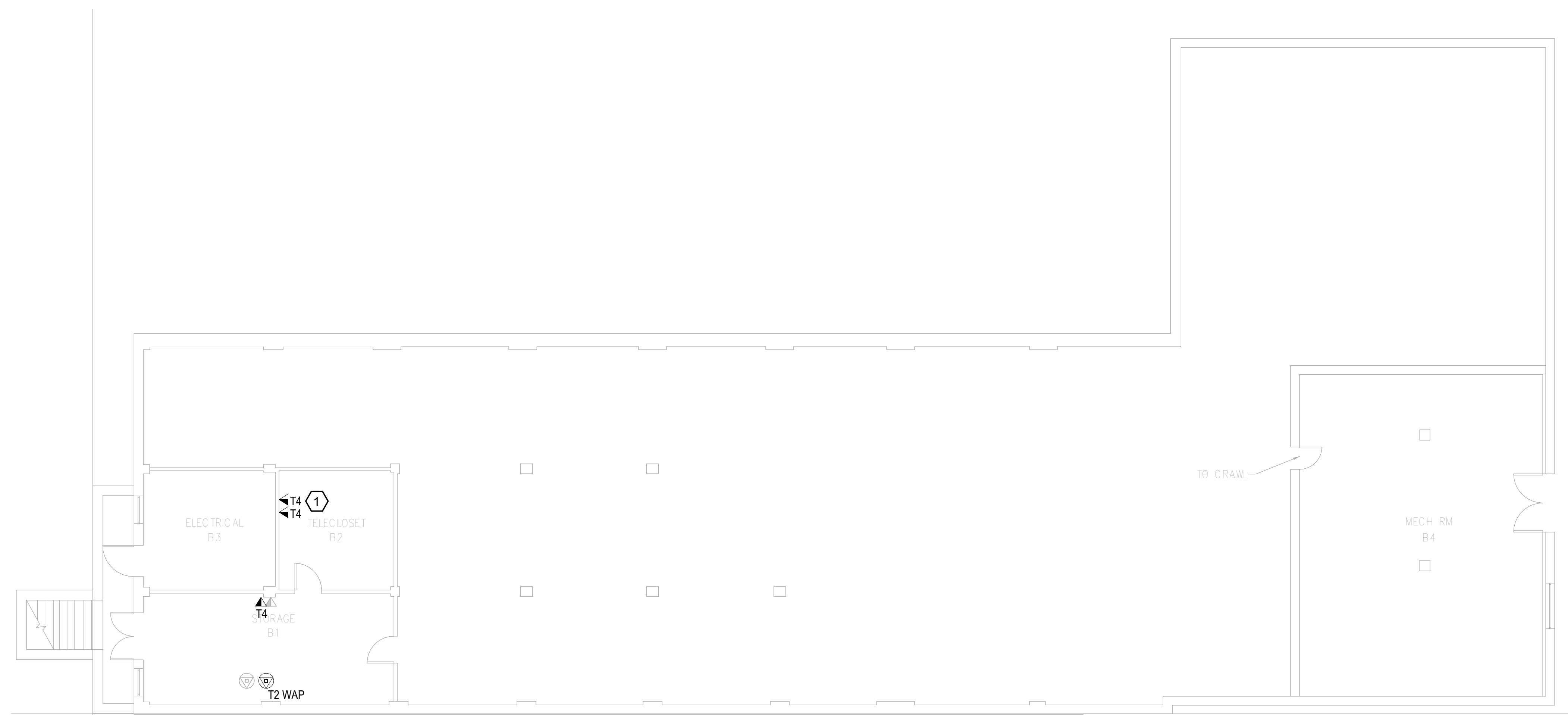
Revisions: _____ Date: _____	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi Registered Communications Distributor BICSI ID # 239954 Expires 03/31/25 RCDD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 017 - GROUND LEVEL - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104		
						Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 017		
								Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN017.0

KEYNOTES:

- 1. EXISTING TR, COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.

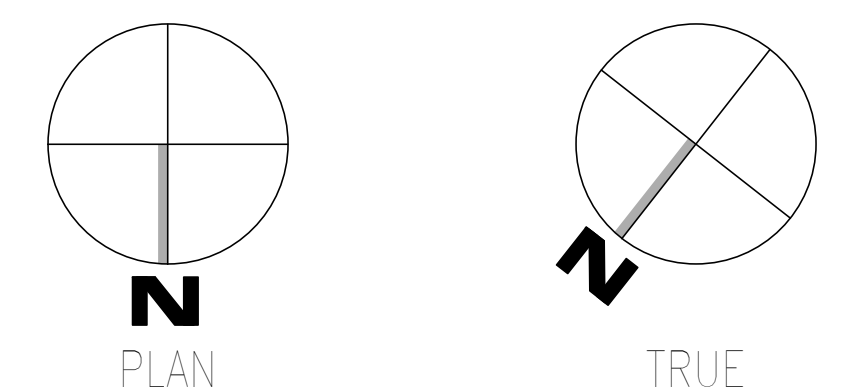
GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - BASEMENT LEVEL - TELECOM

SCALE: 1/8" = 1'-0"



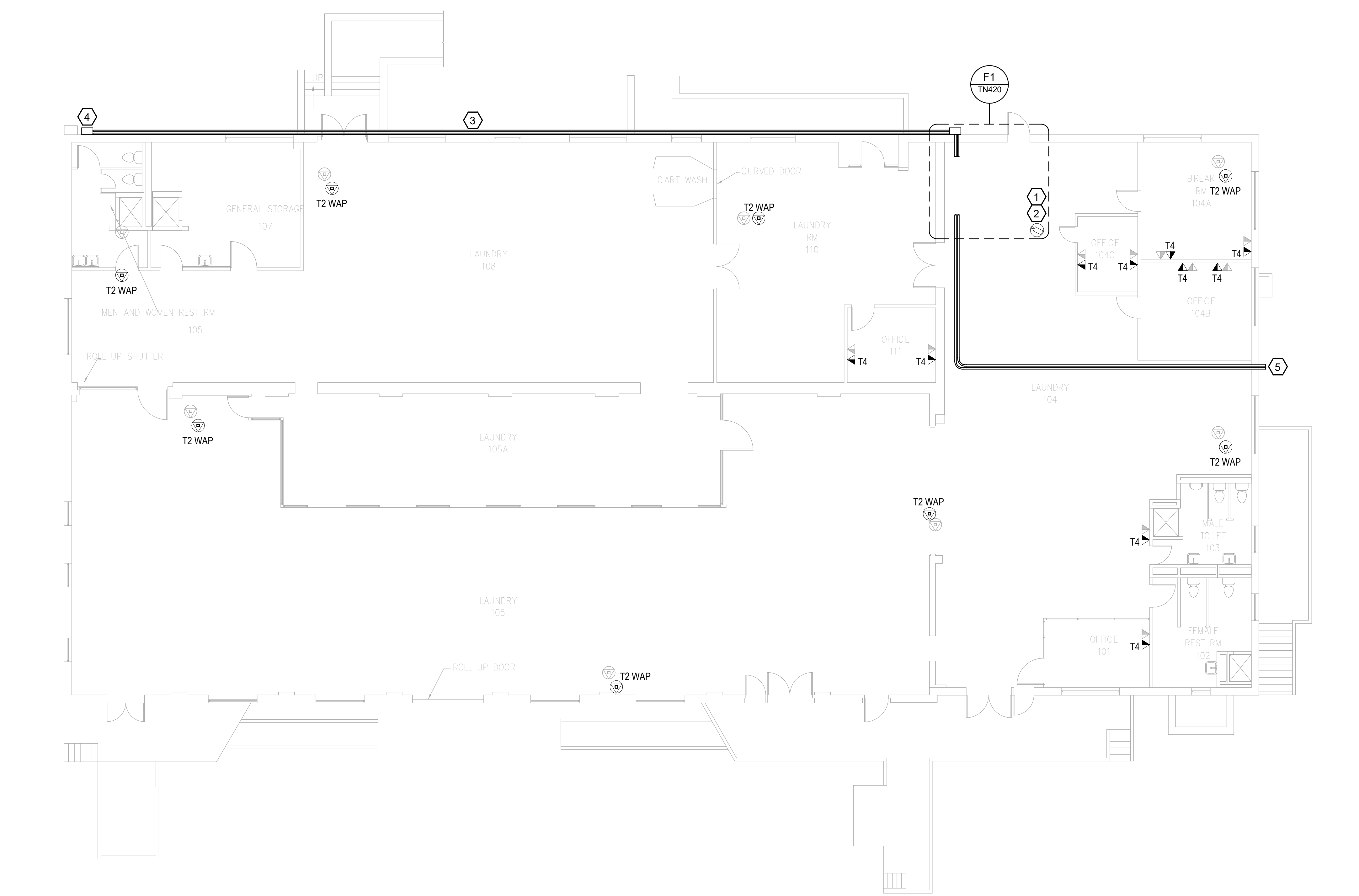
Revisions:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204		ARCHITECT/ENGINEER OF RECORD		STAMP BICSI Registered Communications Distributor BICSI ID # 239954 Expires 03/31/25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 018 - BASEMENT LEVEL - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104	
	Date:								Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 018	
										Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN018.B

KEYNOTES:

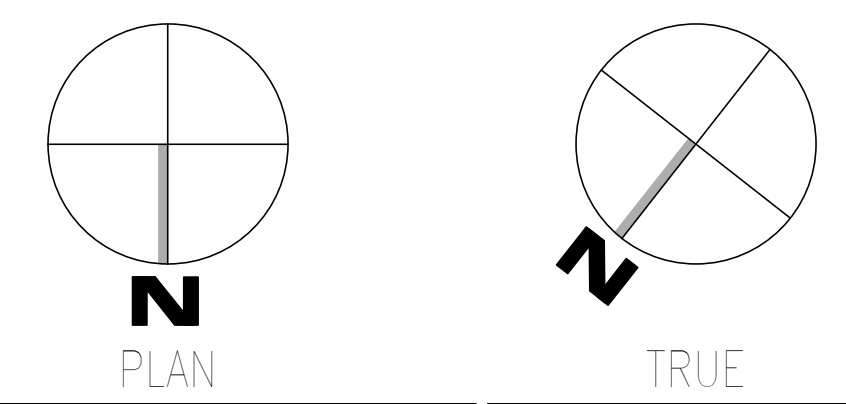
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL. REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
2. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT LOCATION FOR TERMINATION.
3. ROUTE (2) 4" CONDUITS ON EXTERIOR OF BUILDING ALONG ROOF LINE FOR SECONDARY BACKBONE FIBER PATHWAY.
4. EXTEND (2) 4" CONDUITS TO THH25 FOR BACKBONE FIBER PATHWAYS.
5. EXTEND (2) 4" CONDUITS TO THH24 FOR BACKBONE FIBER PATHWAYS.

GENERAL NOTES:

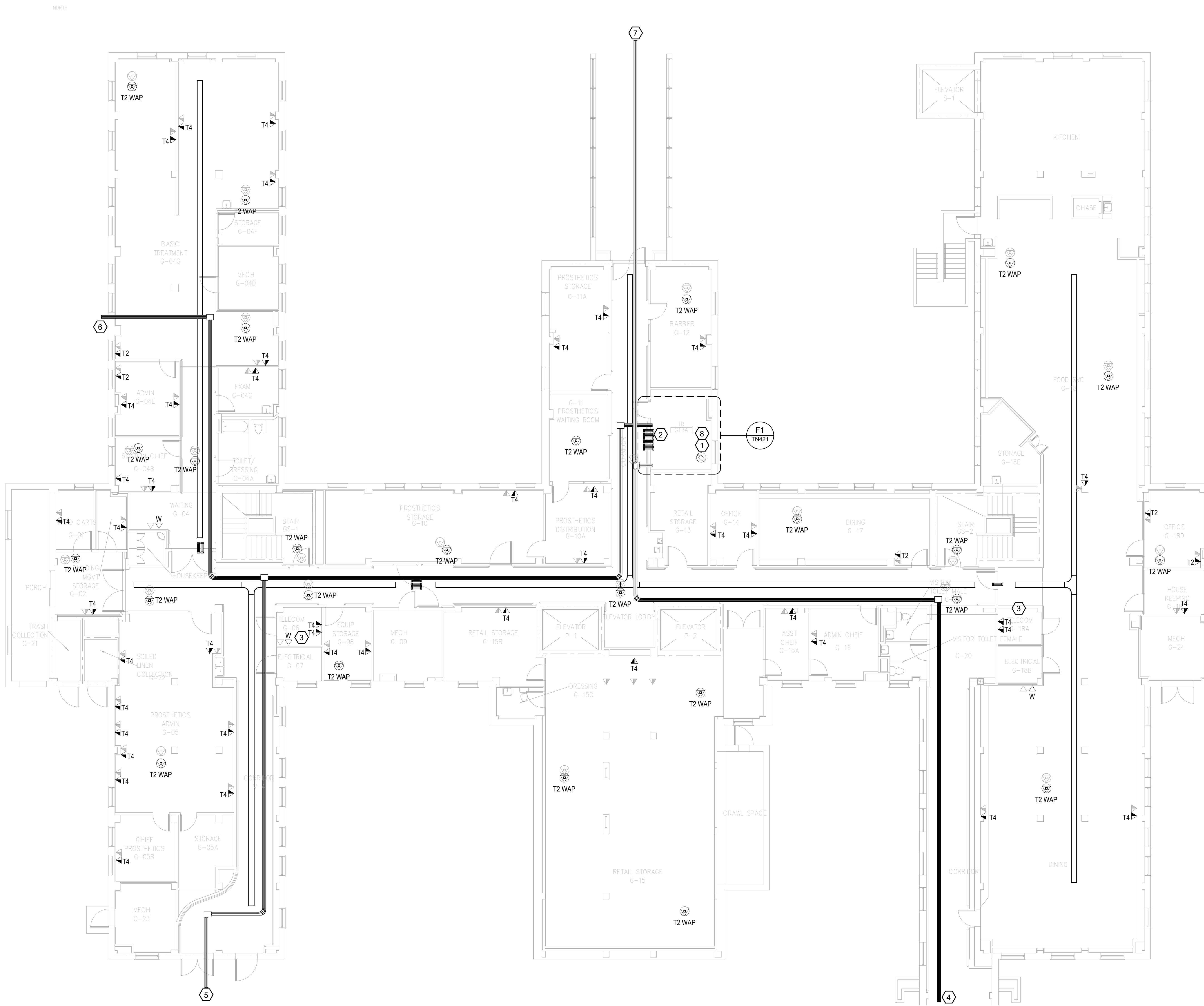
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - LEVEL 01 - TELECOM
SCALE: 1/8" = 1'-0"



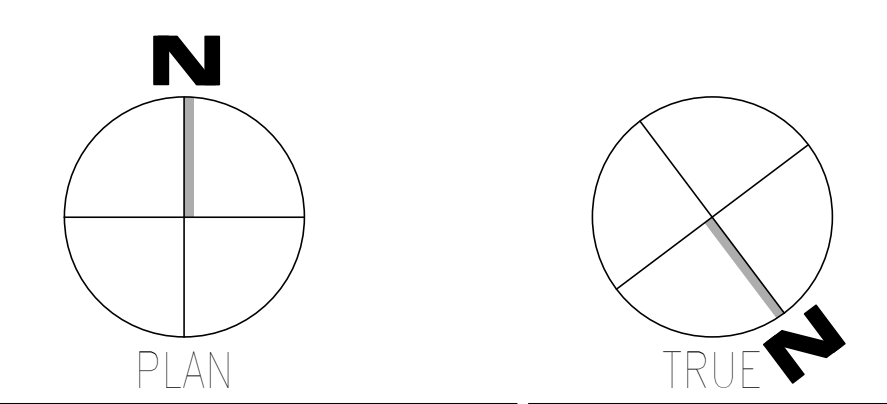
Revisions: _____ Date: _____	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi Registered Communications Distributor BICSI 107 # 2199534 Expires 03/31/25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 018 - LEVEL 01 - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104	
						Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 018	
							Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN018.1



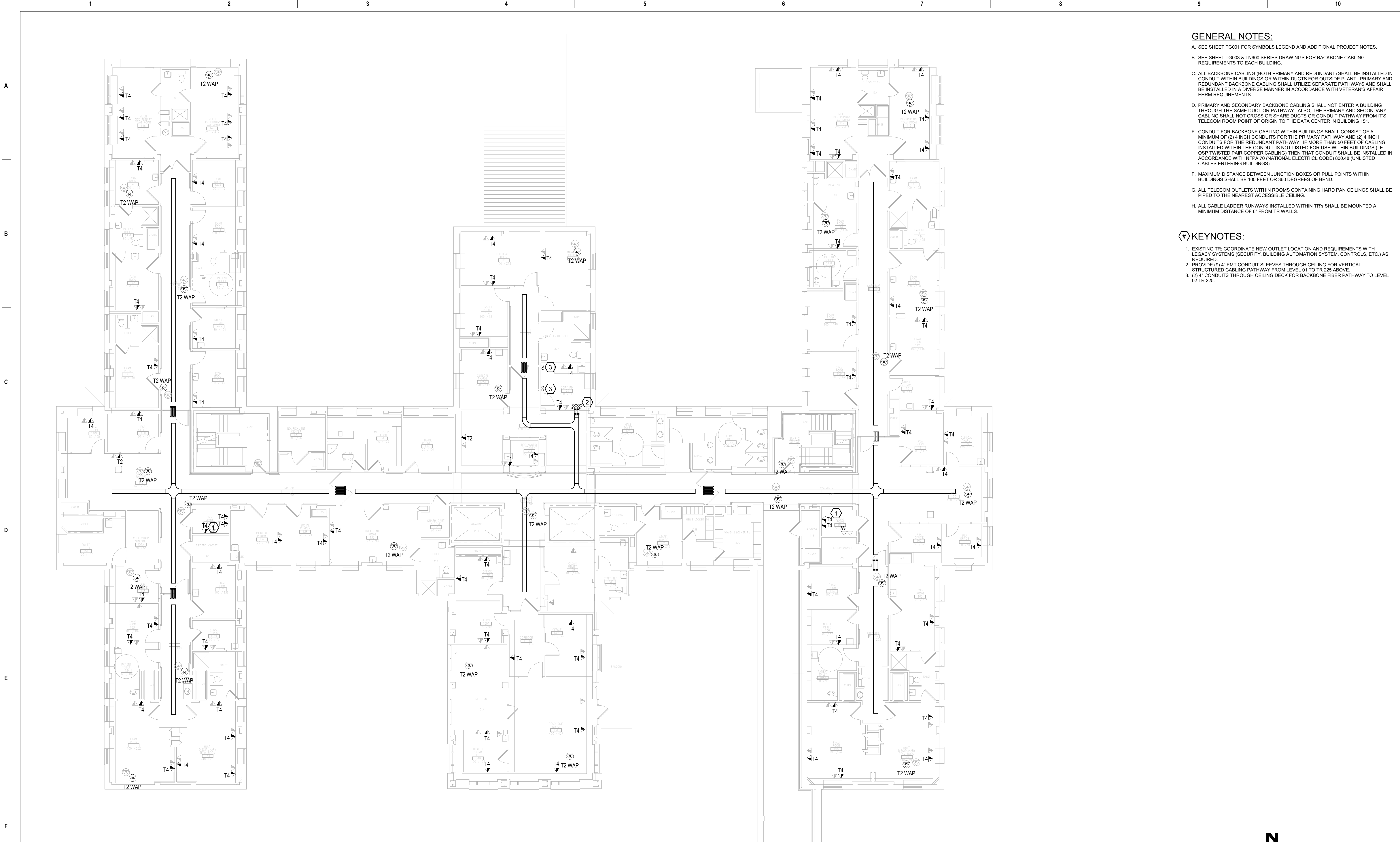
- GENERAL NOTES:**
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
 - B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
 - C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
 - D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
 - E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING IS INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
 - F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
 - G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
 - H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

- KEYNOTES:**
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CRKP, BMS, EL, REK, SSTV) TO NEW ACIDS PCU LOCATION.
 2. PROVIDE (5) 4" EMT CONDUIT SLEEVES FROM TR G13A TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
 3. EXISTING TR: COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
 4. EXTEND (2) 4" CONDUITS TO BUILDING 135 FOR AND BACKBONE FIBER PATHWAYS.
 5. EXTEND (2) 4" CONDUITS TO BUILDING 2 FOR BACKBONE FIBER PATHWAYS.
 6. EXTEND (2) 4" CONDUITS TO THH21 FOR BACKBONE FIBER PATHWAYS.
 7. EXTEND (2) 4" CONDUITS TO BUILDING 137 FOR BACKBONE FIBER PATHWAYS.
 8. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING TELECOM ROOM G-18A FOR TERMINATION AND CONNECTION TO EXISTING CCTV NETWORK.

F1 OVERALL PLAN - GROUND LEVEL
SCALE: 1/8" = 1'-0"



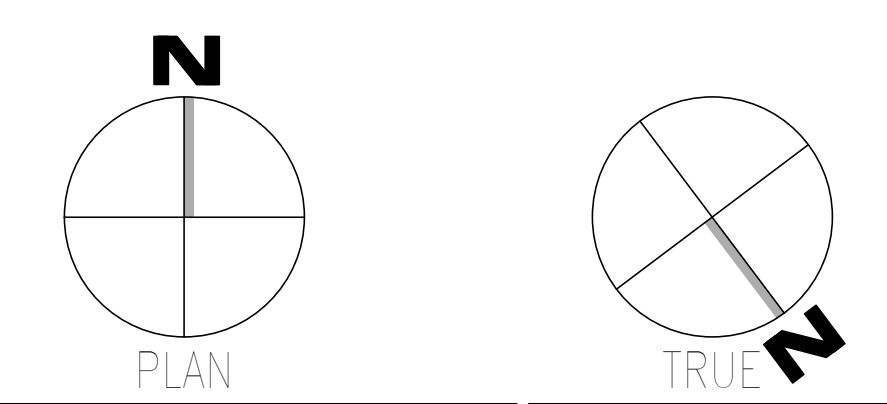
Revisions:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204		ARCHITECT/ENGINEER OF RECORD Atriax www.atriaxgroup.com Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254		STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BRES11678239954 Expires 03/31/25 RCDD 03/08/24		Office of Construction and Facilities Management U.S. Department of Veterans Affairs		Drawing Title BUILDING 038 - GROUND LEVEL - TELECOM Approved: Chief Engineer		Phase 100% CONSTRUCTION DOCUMENTS		Project Title EHRM INFRASTRUCTURE UPGRADES		Project Number 679-20-104						
	Date:										Fully Sprinklered FULLY SPRINKLERED		Location TUSCALOOSA VAMC, TUSCALOOSA, AL.		Issue Date 03/08/2024		Checked JMM		Drawn JEH		Building Number 038		Drawing Number TN038.0



- GENERAL NOTES:**
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
 - B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
 - C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
 - D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
 - E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
 - F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
 - G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
 - H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR's SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

- KEYNOTES:**
1. EXISTING TR: COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
 2. PROVIDE (Ø) 4" EMT CONDUIT SLEEVES THROUGH CEILING FOR VERTICAL STRUCTURED CABLING PATHWAY FROM LEVEL 01 TO TR 225 ABOVE.
 3. (Ø) 4" CONDUITS THROUGH CEILING DECK FOR BACKBONE FIBER PATHWAY TO LEVEL 02 TR 225.

F1 OVERALL PLAN - LEVEL 01
SCALE: 1/8" = 1'-0"



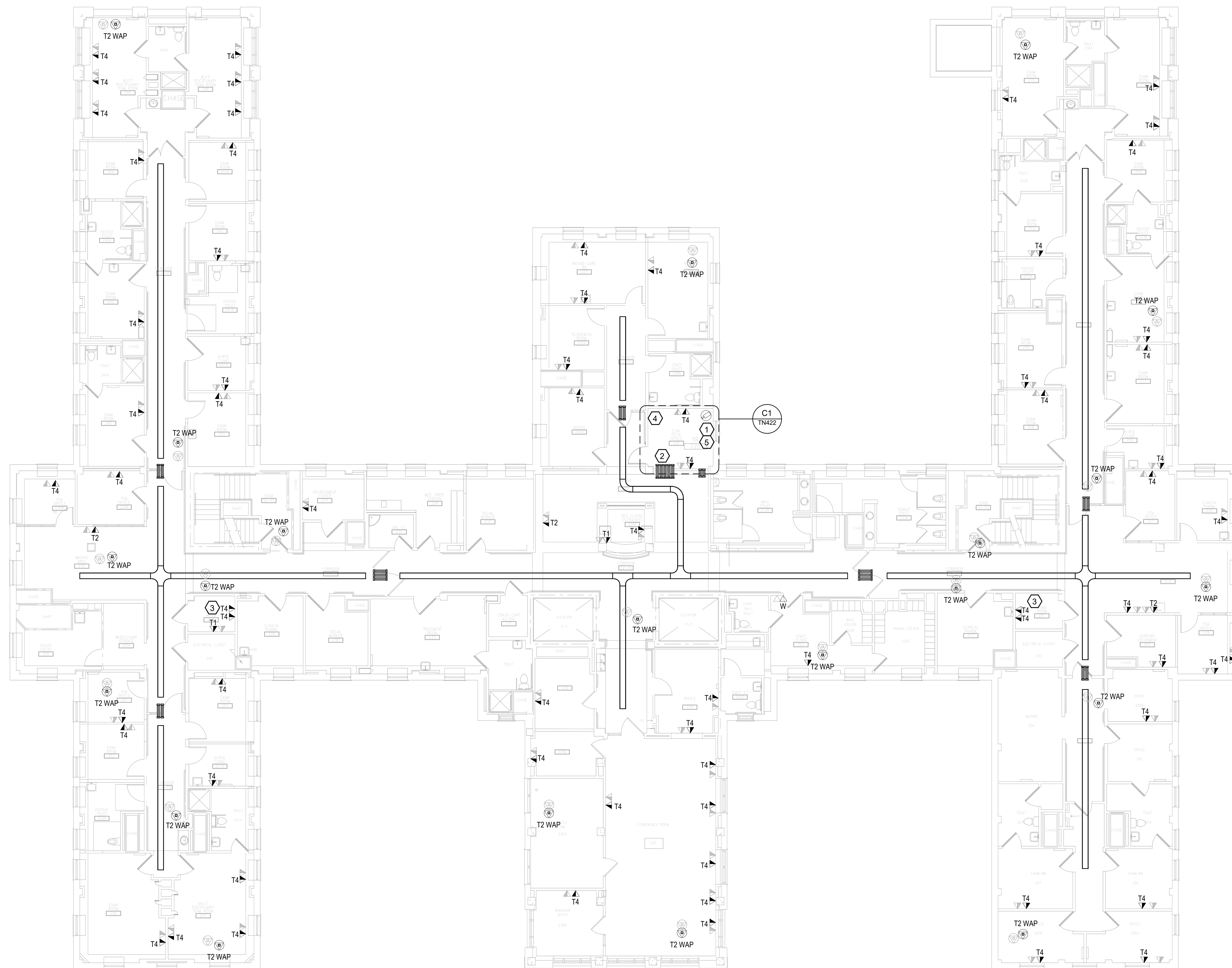
Revisions: 1 2 3 4 5 6 7 8 9 10	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax www.atriaxgroup.com Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER 03/08/24	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title BUILDING 038 - LEVEL 01 - TELECOM Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104 Building Number 038	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Drawing Number TN038.1
	Issue Date 03/08/2024	Checked JMM	Drawn JEH								

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

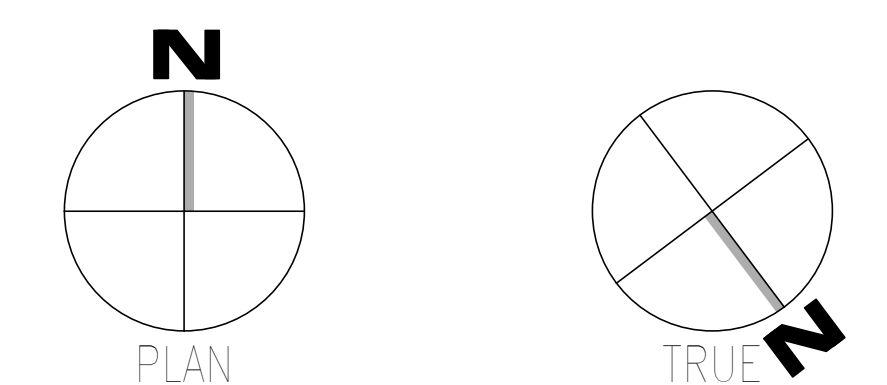
KEYNOTES:

- 1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CRKP, BMS, EL, RES, SSTV) TO NEW ACSIDS PDU LOCATION.
- 2. PROVIDE (9) 4" EMT CONDUIT SLEEVES FROM TR 225 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 3. EXISTING TR, COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
- 4. PROVIDE (2) 4" EMT CONDUIT SLEEVES FROM TR 225 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 5. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING TELECOM ROOM 201 FOR TERMINATION AND CONNECTION TO EXISTING CCTV NETWORK.



F1 OVERALL PLAN - LEVEL 02

SCALE: 1/8" = 1'-0"



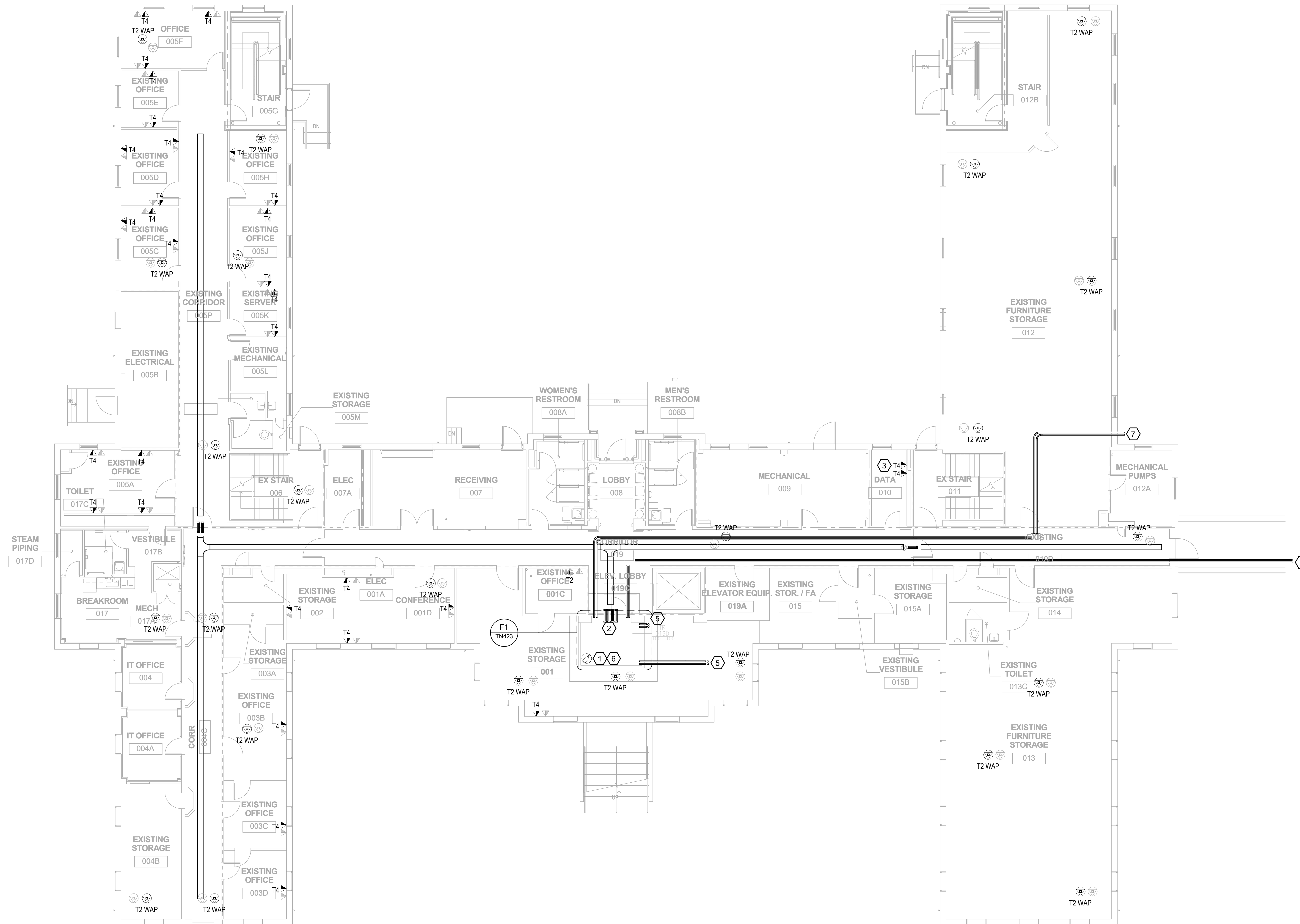
Revisions: Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI ID # 239554 Expires 03/25-25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 038 - LEVEL 02 - TELECOM Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Issue Date 03/08/2024	Checked JMM	Drawn JEH	Building Number 038	Drawing Number TN038.2		

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING IS INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

KEYNOTES:

- 1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CRKP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 2. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR 19D TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 3. EXISTING TR: COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
- 4. EXTEND (2) 4" CONDUITS TO BUILDING 40 FOR BACKBONE FIBER PATHWAYS.
- 5. (2) 4" CONDUIT SLEEVES THROUGH CEILING DECK FOR BACKBONE FIBER PATHWAY TO LEVEL 01 TR 104.
- 6. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING TELECOM ROOM 010 FOR TERMINATION AND CONNECTION TO EXISTING CCTV NETWORK.
- 7. EXTEND (2) 4" CONDUITS TO TM09 FOR BACKBONE FIBER PATHWAYS.



F1 OVERALL PLAN - GROUND LEVEL - TELECOM
SCALE: 1/8" = 1'-0"

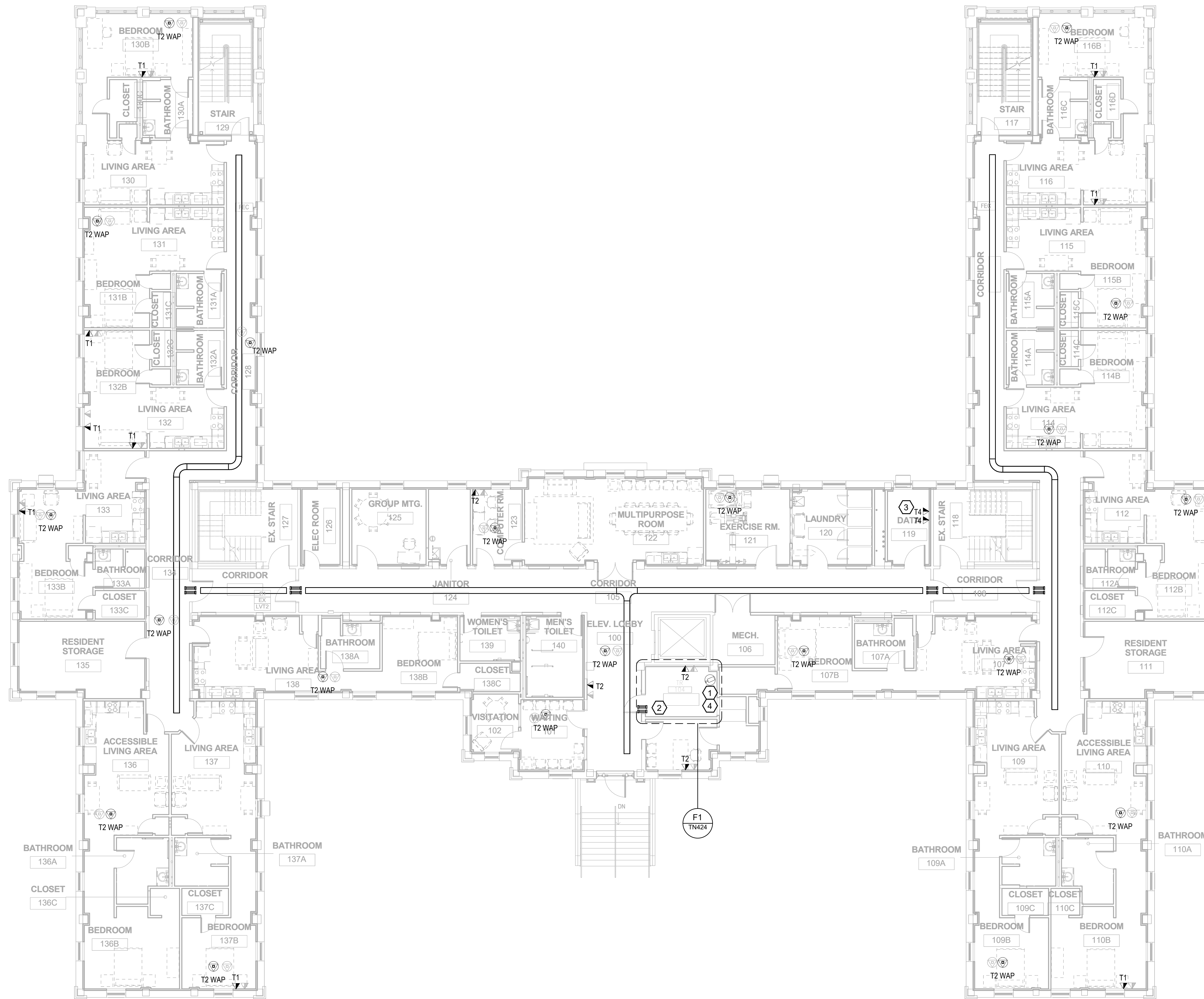
Revisions:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		ARCHITECT/ENGINEER OF RECORD Atriax, plc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254		Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title BUILDING 039 - GROUND LEVEL - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104	
	Date:	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI 107 # 219954 Expires 03/31/25 RCDD 03/08/24	Approved: Chief Engineer		FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Issue Date 03/08/2024	Checked JMM	Drawn JEH

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

KEYNOTES:

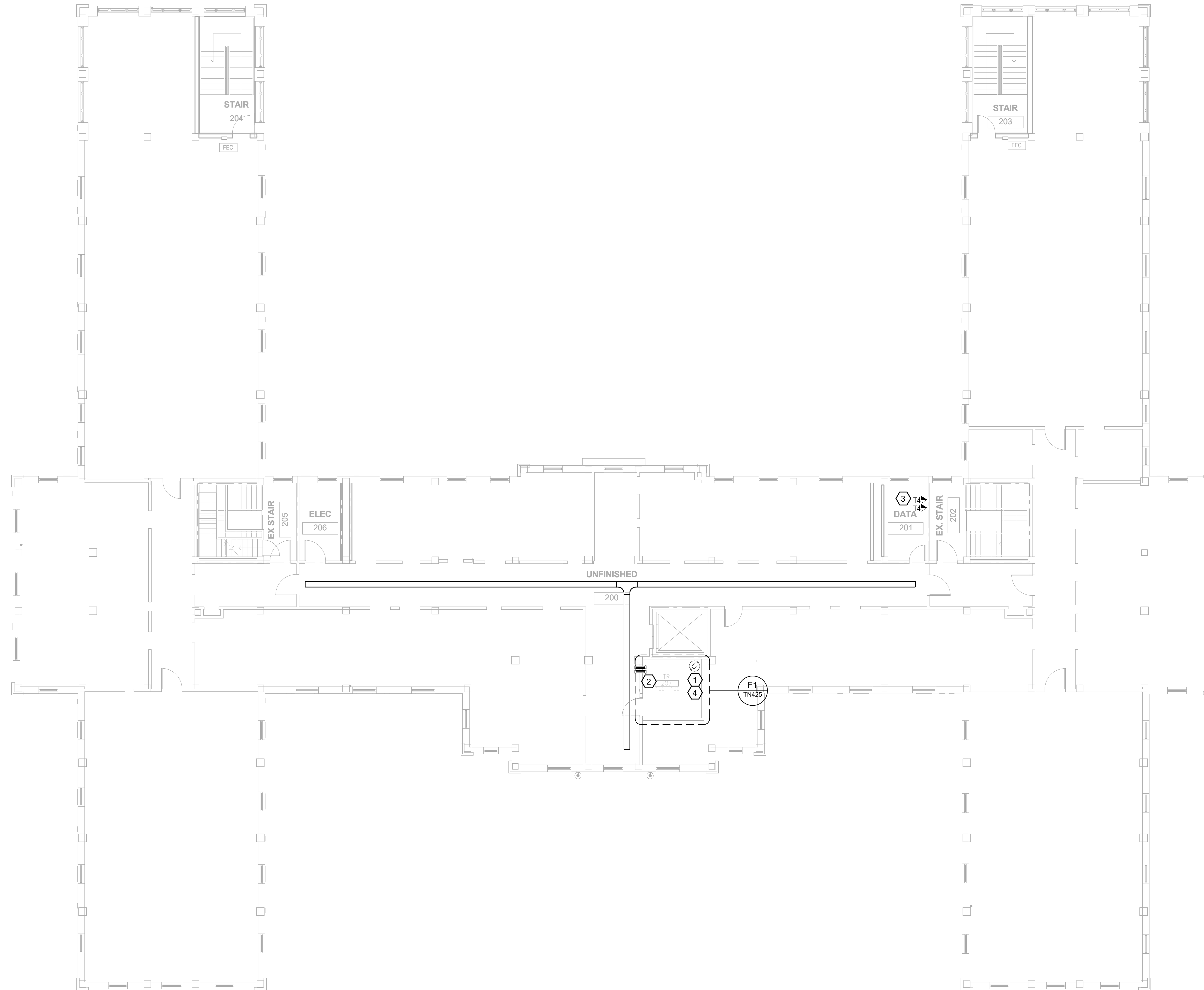
- 1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CRKP, BMS, EL, EX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 2. PROVIDE (2) 4" EMT CONDUIT SLEEVES FROM TR 104 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 3. EXISTING TR: COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
- 4. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING TELECOM ROOM 119 FOR TERMINATION AND CONNECTION TO EXISTING CCTV NETWORK.



F1 OVERALL PLAN - LEVEL 01 - TELECOM
SCALE: 1/8" = 1'-0"

Revisions:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		ARCHITECT/ENGINEER OF RECORD		Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 039 - LEVEL 01 - TELECOM Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104 Building Number 039
	Date:	 SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	 Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	 Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER 03/08/24					

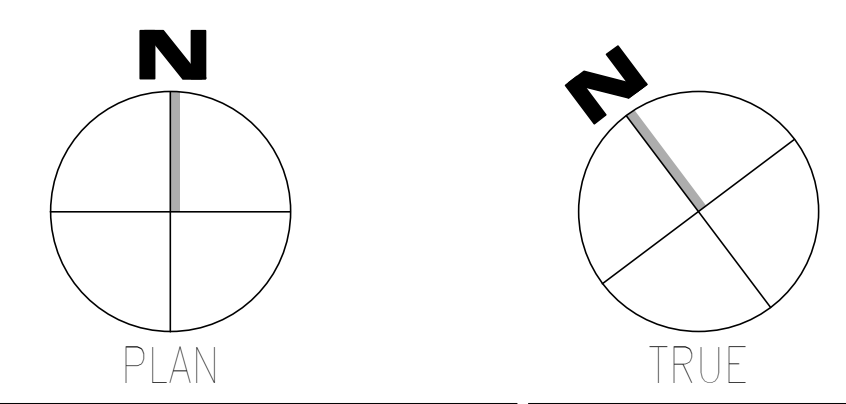
A
B
C
D
E
F



- GENERAL NOTES:**
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
 - B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
 - C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
 - D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
 - E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
 - F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
 - G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
 - H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR's SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

- KEYNOTES:**
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CRKP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
 2. PROVIDE (2) 4" EXIT CONDUIT SLEEVES FROM TR LVL2 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
 3. EXISTING TR: COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
 4. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING TELECOM ROOM 201 FOR TERMINATION AND CONNECTION TO EXISTING CCTV NETWORK.

F1 OVERALL PLAN - LEVEL 02 - TELECOM
SCALE: 1/8" = 1'-0"



Revisions:	CONSULTANT		ARCHITECT/ENGINEER OF RECORD		Office of Construction and Facilities Management		Drawing Title		Phase		Project Title		Project Number		
	 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		 SPECIALIZED ENGINEERING SOLUTIONS 1300 Baxter Street, Suite 355 Charlotte, NC 28204		 Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com		 REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI 107 # 239554 Expires 03/31/25 RCD 03/08/24		Approved: Chief Engineer		100% CONSTRUCTION DOCUMENTS		EHRM INFRASTRUCTURE UPGRADES		679-20-104
Date:						U.S. Department of Veterans Affairs		BUILDING 039 - LEVEL 02 - TELECOM		FULLY SPRINKLERED		Location		Drawing Number	
												TUSCALOOSA VAMC, TUSCALOOSA, AL.		TN039.2	
												Issue Date		Checked	
												03/08/2024		JMM	
												Drawn		JEH	

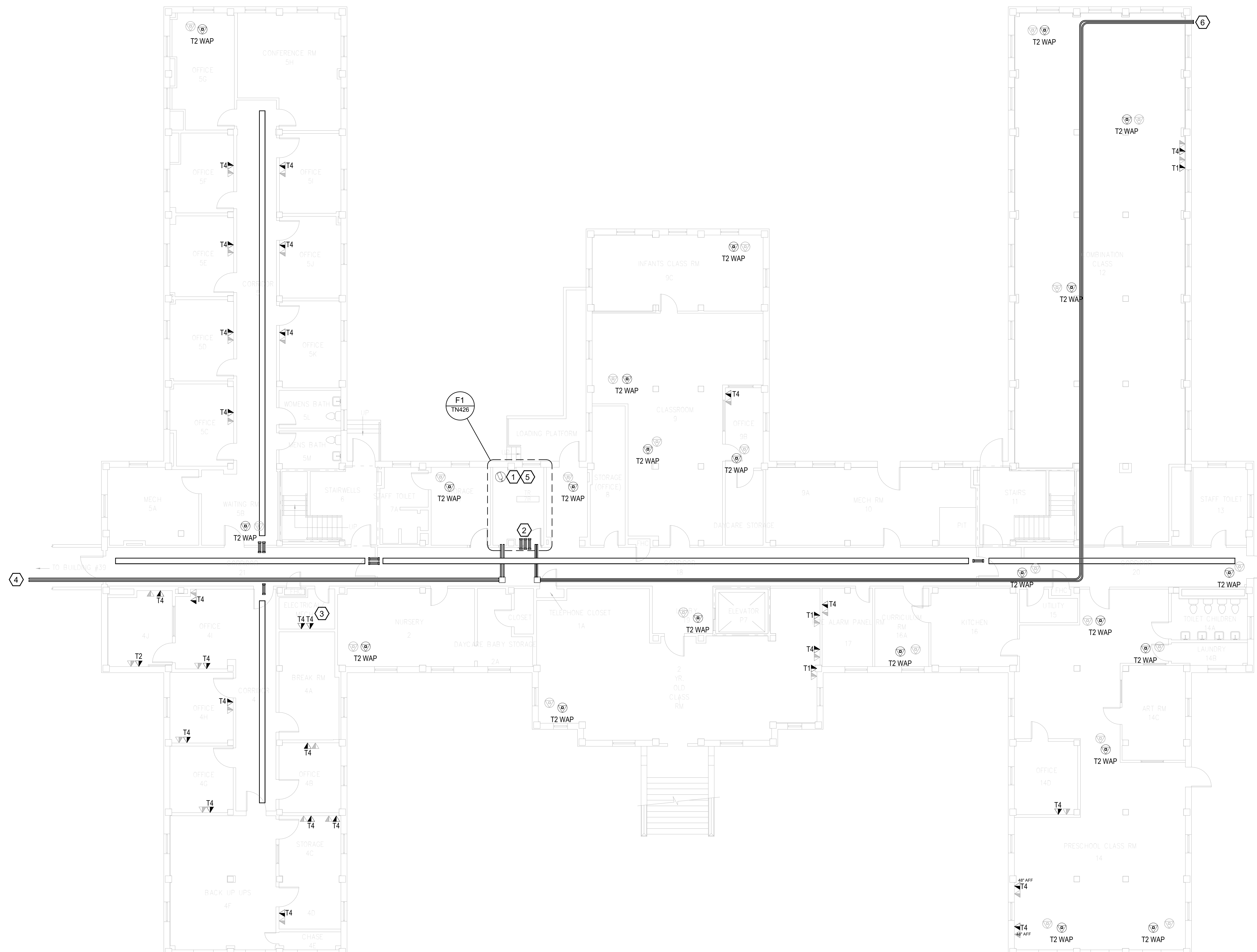
A
B
C
D
E
F

GENERAL NOTES:

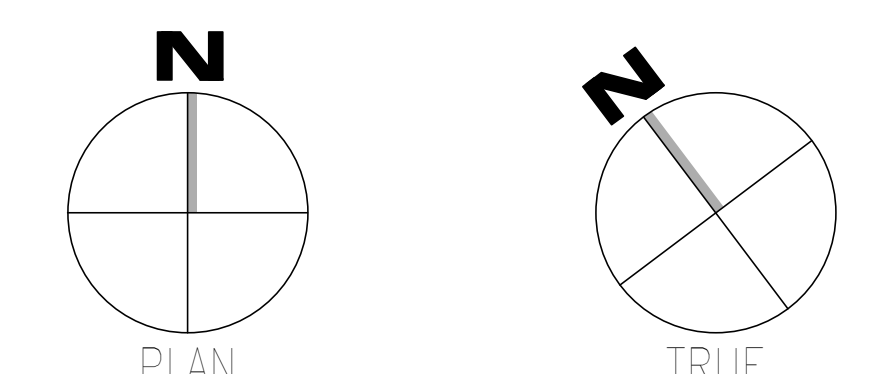
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR's SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

KEYNOTES:

- 1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CRXP, BMS, EL, RES, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 2. PROVIDE (3) 4" EMT CONDUIT SLEEVES FROM TR 7A TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 3. EXISTING TR; COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
- 4. EXTEND (2) 4" CONDUITS TO BUILDING 139 FOR BACKBONE FIBER PATHWAYS.
- 5. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING TELECOM ROOM B05 FOR TERMINATION AND CONNECTION TO EXISTING CCTV NETWORK.
- 6. EXTEND (2) 4" CONDUITS TO THH11 FOR BACKBONE FIBER PATHWAYS.



F1 OVERALL PLAN - BASEMENT LEVEL - TELECOM
SCALE: 1/8" = 1'-0"



Revisions:	CONSULTANT Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204		ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254		STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI 107 # 239554 Expires 03/31/25 RCD 03/08/24		Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs		Drawing Title BUILDING 040 - BASEMENT LEVEL - TELECOM Approved: Chief Engineer		Phase 100% CONSTRUCTION DOCUMENTS		Project Title EHRM INFRASTRUCTURE UPGRADES Project Number 679-20-104 Building Number 040	
	Date:										FULLY SPRINKLERED		Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024 Checked JMM Drawn JEH		Drawing Number TN040.B	

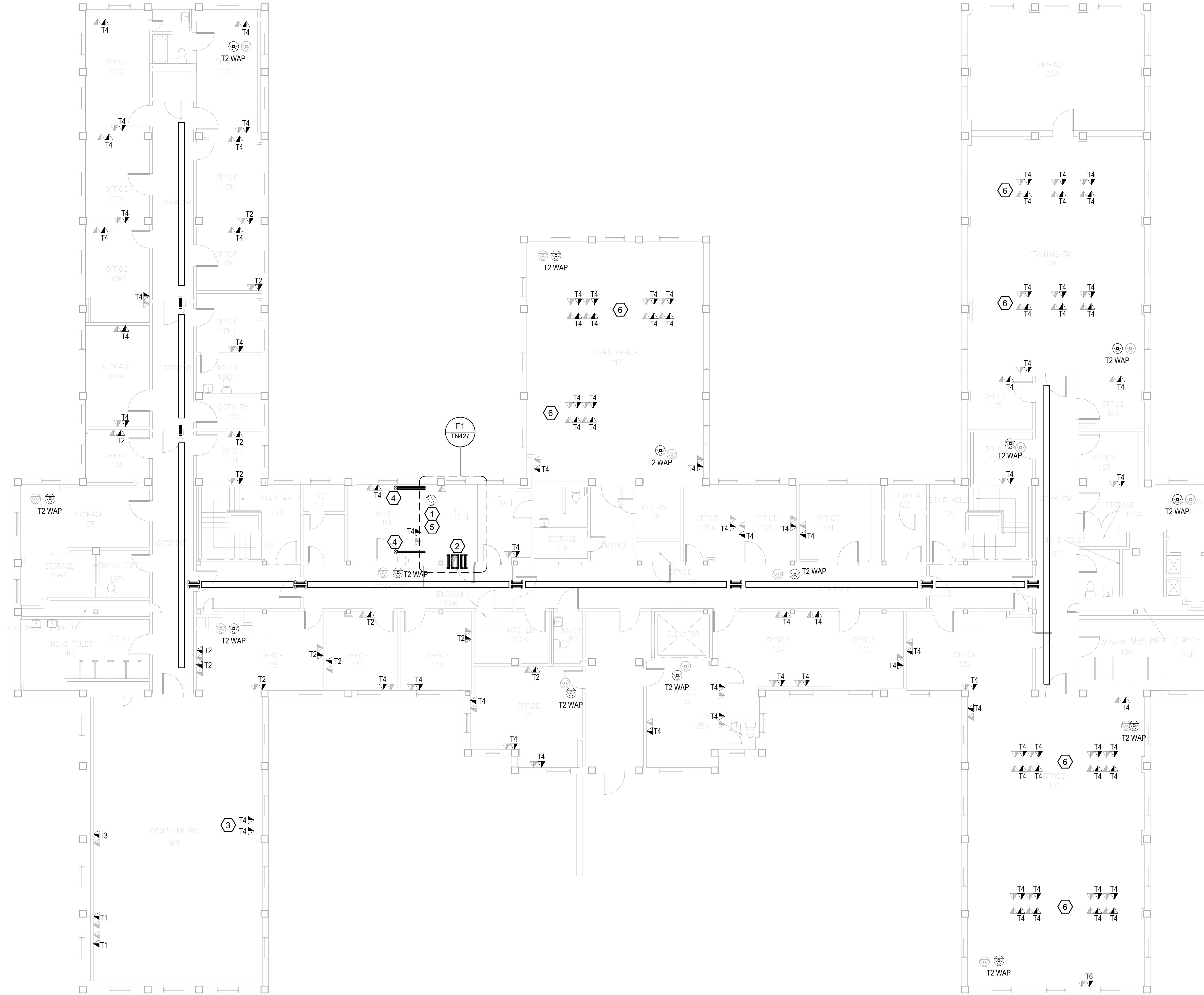
1 2 3 4 5 6 7 8 9 10

GENERAL NOTES:

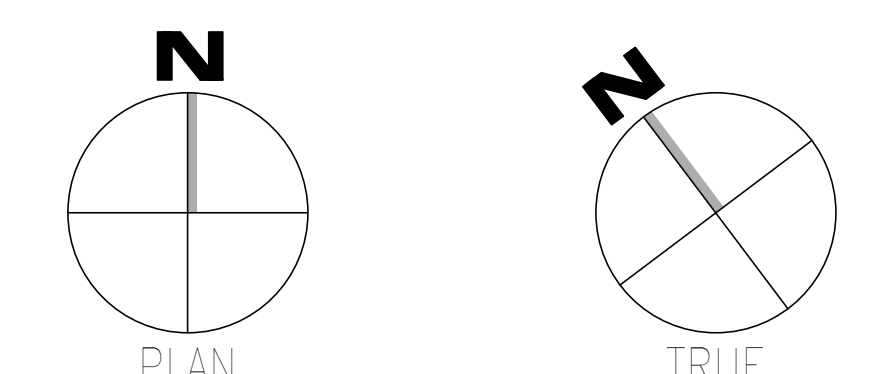
- A. SEE SHEET T6001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET T6003 & T6005 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING IS INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

KEYNOTES:

- 1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CRKP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 2. PROVIDE (10) 4" EMT CONDUIT SLEEVES FROM TR 115 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 3. EXISTING TR; COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
- 4. (2) 4" CONDUIT SLEEVES THROUGH CEILING DECK FOR BACKBONE FIBER PATHWAY TO LEVEL 02 TR 215.
- 5. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING TELECOM ROOM B05 FOR TERMINATION AND CONNECTION TO EXISTING CCTV NETWORK.
- 6. FURNITURE MOUNTED OUTLETS.



F1 OVERALL PLAN - LEVEL 01 - TELECOM
SCALE: 1/8" = 1'-0"



<p>Revisions:</p>		<p>Date:</p>		<p>CONSULTANT</p> <p>Wiley Wilson</p> <p>Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>		<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>		<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax GROUP</p> <p>www.atriaxgroup.com</p>		<p>STAMP</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964</p> <p>NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>		<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>		<p>Drawing Title</p> <p>BUILDING 040 - LEVEL 01 - TELECOM</p> <p>Approved: Chief Engineer</p>		<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>		<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>		<p>Project Number</p> <p>679-20-104</p>	
														<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>		<p>Drawing Number</p> <p>TN040.1</p>					
												<p>FULLY SPRINKLERED</p>		<p>Issue Date</p> <p>03/08/2024</p>		<p>Checked</p> <p>JMM</p>		<p>Drawn</p> <p>JEH</p>			

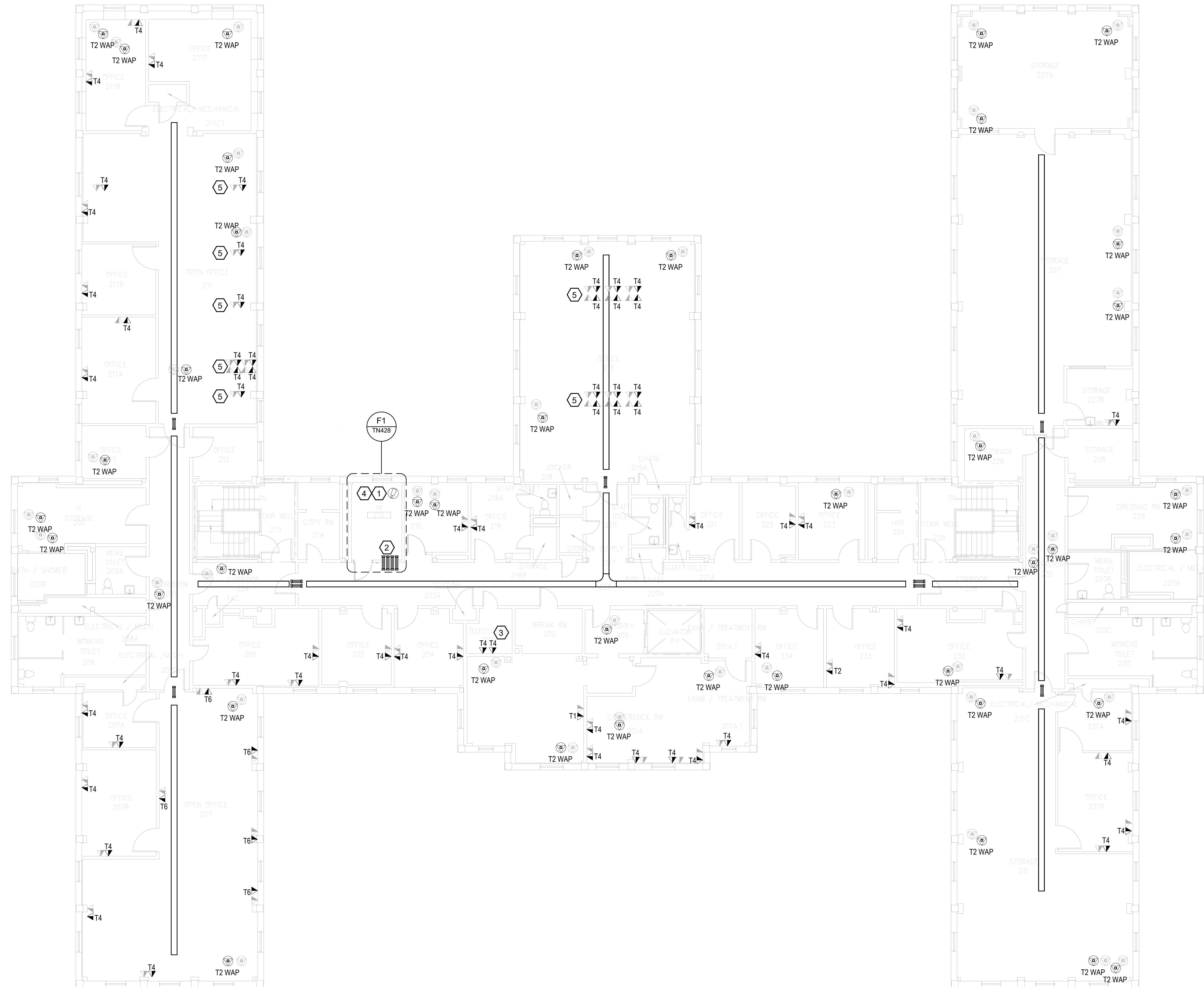
1 2 3 4 5 6 7 8 9 10

GENERAL NOTES:

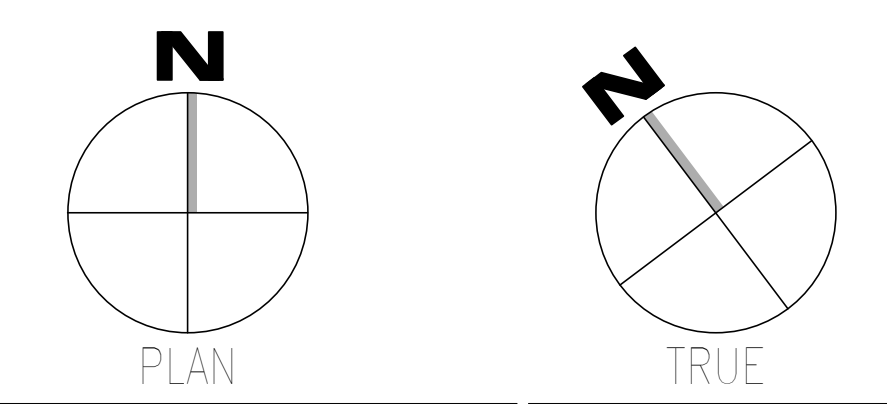
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING IS INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

KEYNOTES:

- 1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CRKP, BMS, EL, REL, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 2. PROVIDE (8) 4" EMT CONDUIT SLEEVES FROM TR 215 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 3. EXISTING TR: COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
- 4. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING TELECOM ROOM B05 FOR TERMINATION AND CONNECTION TO EXISTING CCTV NETWORK.
- 5. FURNITURE MOUNTED OUTLETS.



F1 OVERALL PLAN - LEVEL 02 - TELECOM
SCALE: 1/8" = 1'-0"



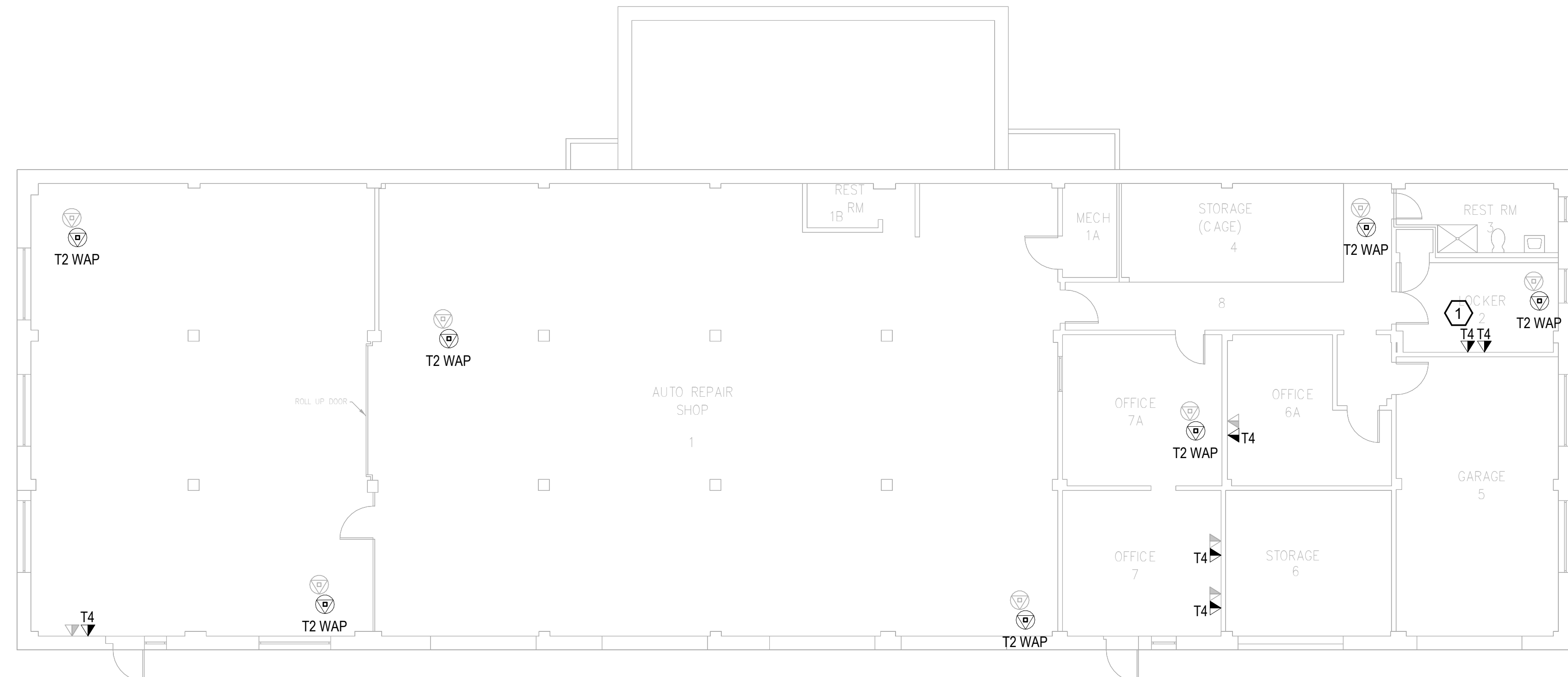
Revisions: _____ Date: _____	CONSULTANT WILEY WILSON 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 040 - LEVEL 02 - TELECOM Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN040.2		

KEYNOTES:

- 1. EXISTING TR. COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - GROUND LEVEL - TELECOM
SCALE: 1/8" = 1'-0"

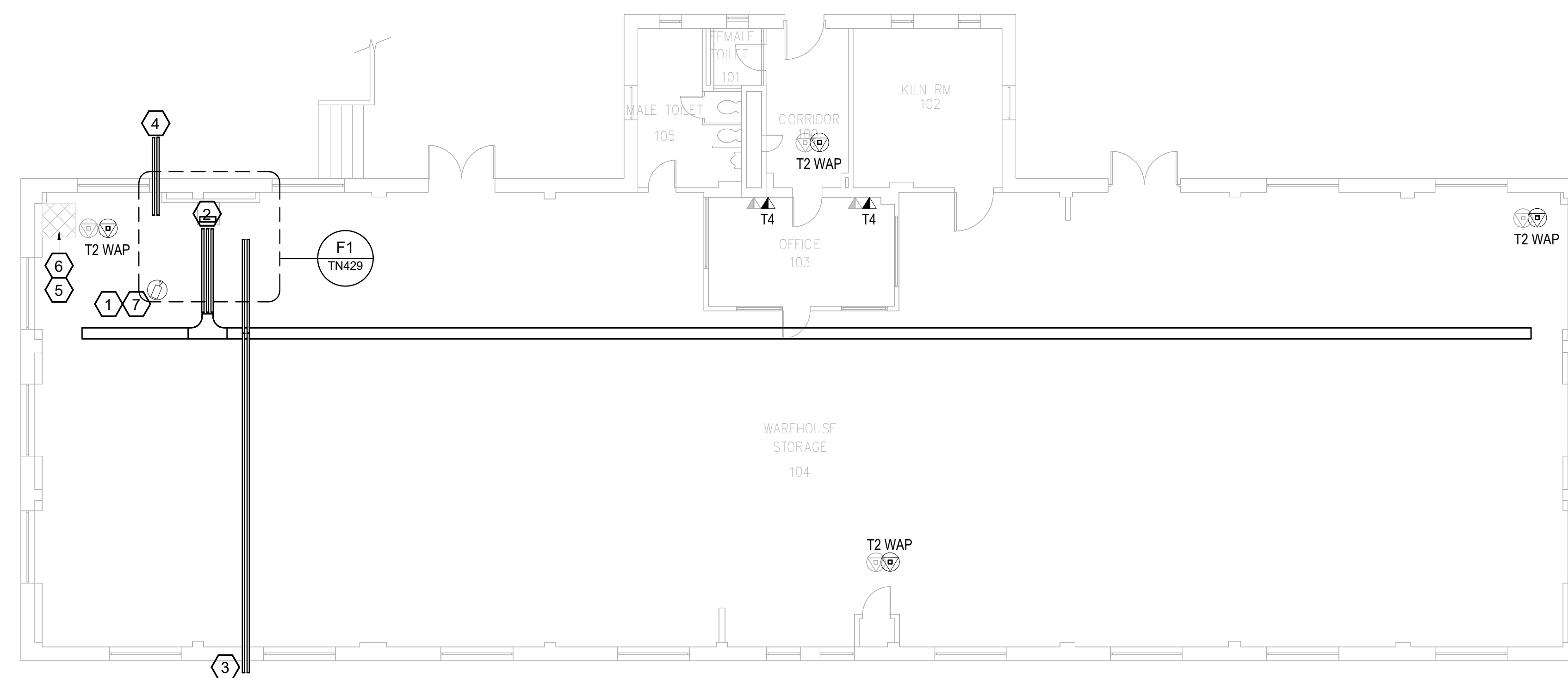
Revisions:	Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax GROUP www.atriaxgroup.com Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254	REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Bicsi 3004 W. Main St., Suite 101 Raleigh, NC 27604 Registered Professional Engineer License No. 21954 Expires 03/31/25 RCDD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 041 - GROUND LEVEL - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
							Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Issue Date 03/08/2024

KEYNOTES:

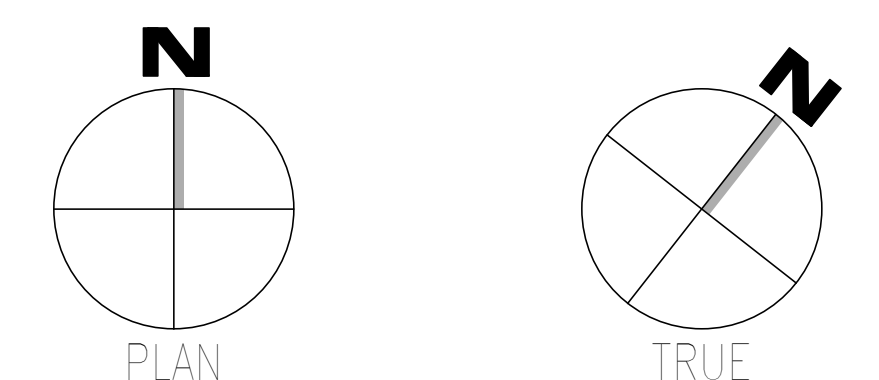
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCI LOCATION.
2. TERMINATE (3) 4" CONDUITS AT WALL MOUNTED TELECOM RACK. EXTEND TO CABLE TRAY AS SHOWN.
3. EXTEND (2) 4" CONDUITS TO TMH15 FOR BACKBONE FIBER PATHWAYS.
4. EXTEND (2) 4" CONDUITS TO THH17 FOR BACKBONE FIBER PATHWAYS.
5. PROVIDE 6 STRAND MULTI-MODE INDOOR/OUTDOOR RATED FIBER TO EXISTING CCTV EQUIPMENT LOCATION IN BUILDING 12 FOR CONNECTION TO CCTV NETWORK.
6. PROVIDE (1) BRU OPEN FRAME WALL MOUNT RACK WITH RACK MOUNTED FIBER ENCLOSURE AND COPPER PATCH PANEL FOR THE TERMINATION OF FIBER AND CAT 6A CABLES FOR CAMERAS.
7. ROUTE CONDUIT AND CABLE FOR CAMERA TO NEW CCTV EQUIPMENT LOCATION IN FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR's SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - LEVEL 01 - TELECOM
SCALE: 1/8" = 1'-0"



Revisions:	Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax www.atriaxgroup.com Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254	REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Bicsi 3000 N. Main Street Raleigh, NC 27605 Registered Professional Engineer License No. 239954 Expires 03/31/25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 041 - LEVEL 01 - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
							Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Issue Date 03/08/2024

1 2 3 4 5 6 7 8 9 10

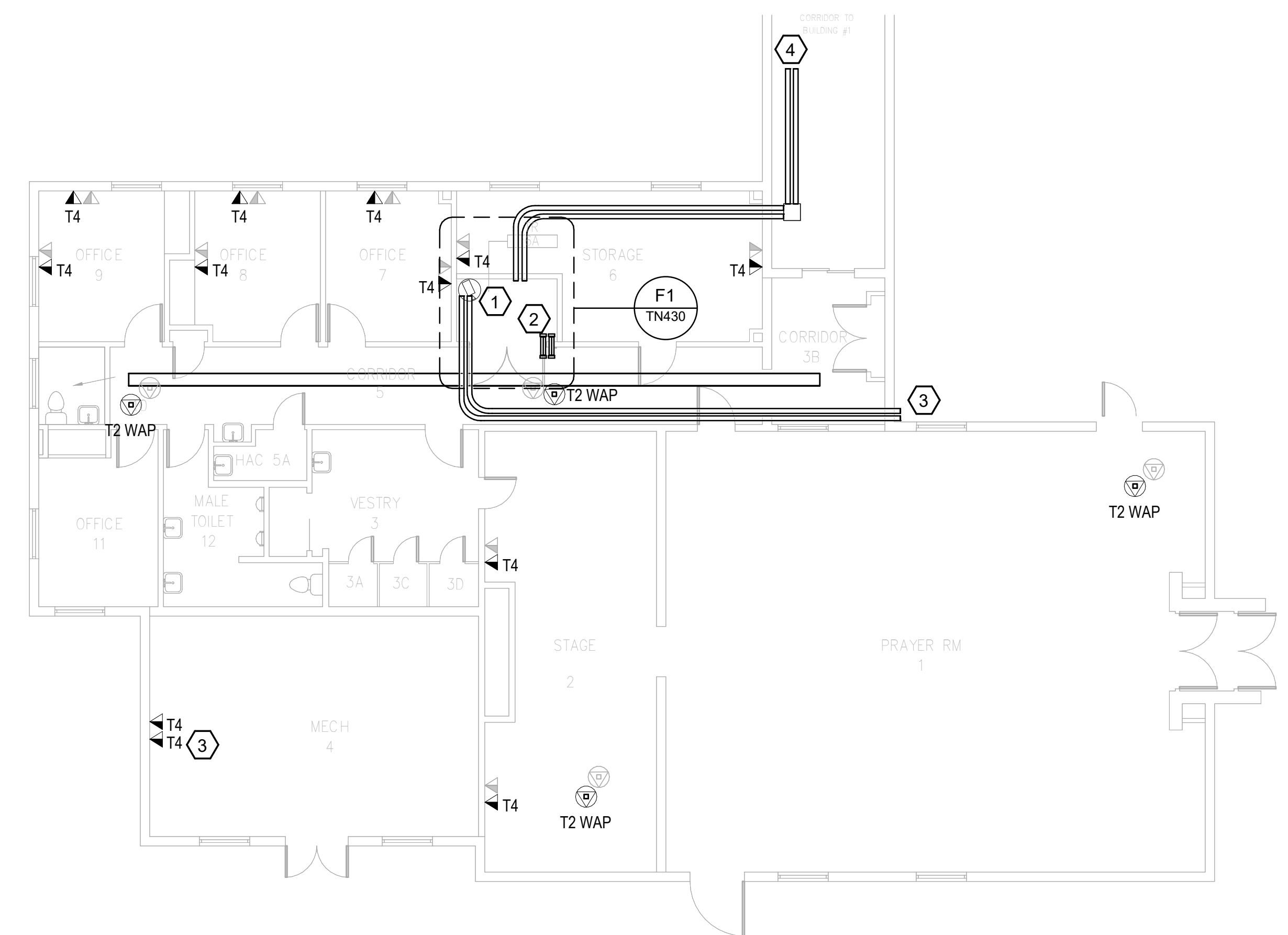
A
B
C
D
E
F

KEYNOTES:

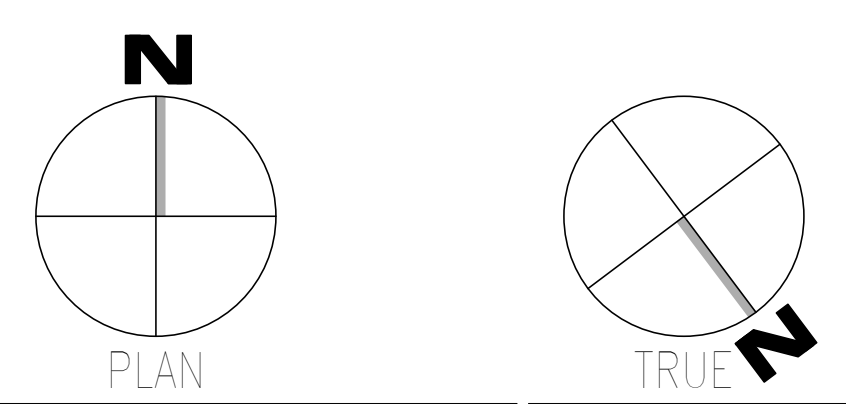
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
2. PROVIDE (2) 4" EMT CONDUIT SLEEVES FROM TR LV/LG TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. EXISTING TR. COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
4. PROVIDE (2) 4" CONDUITS FROM MANHOLE TMH29 TO TCGA FOR BACKBONE FIBER PATHWAY. SEE SITE PLAN FOR CONDUIT ROUTE CONTINUATION.
5. PROVIDE (2) 4" CONDUITS FROM TCGA THROUGH CONNECTING CORRIDOR AND OUT TO MANHOLE TMH31 FOR FIBER BACKBONE PATHWAY. SEE SITE PLAN FOR CONDUIT ROUTE CONTINUATION.
6. ROUTE CONDUIT AND CABLE FOR CAMERA TO NEW CCTV EQUIPMENT LOCATION IN BUILDING 17 ROOM 3B FOR TERMINATION AND CONNECTION TO CCTV NETWORK.

GENERAL NOTES:

- A. SEE SHEET TQ001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TQ003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 900.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILING SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - GROUND LEVEL - TELECOM
SCALE: 1/8" = 1'-0"



Revisions: _____ Date: _____	CONSULTANT 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD STAMP Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI 107 # 219954 Expires 03/31/25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 046 - GROUND LEVEL - TELECOM Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104 Building Number 046 Drawing Number TN046.0
	Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024 Checked JMM Drawn JEH								

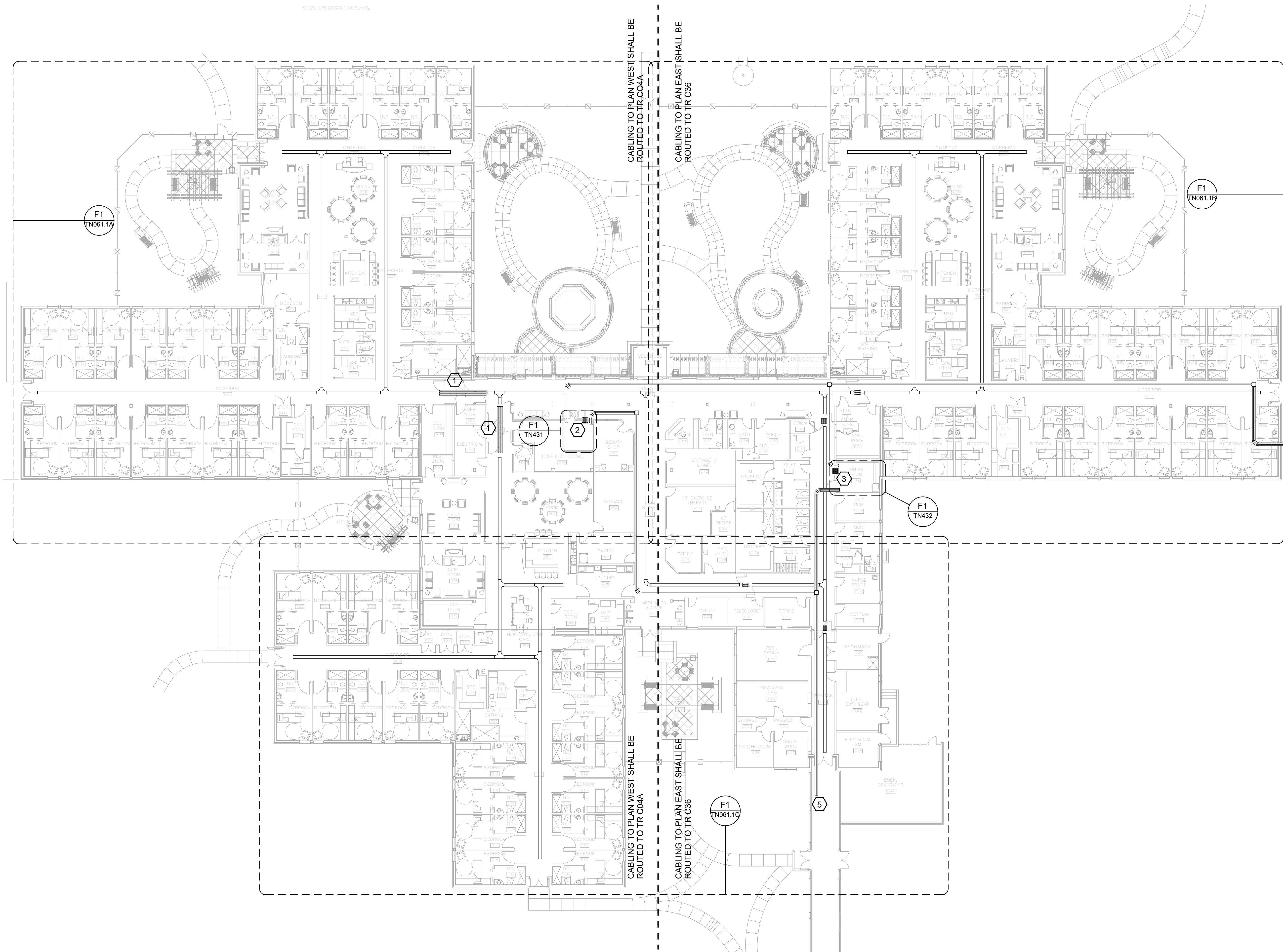
1 2 3 4 5 6 7 8 9 10

GENERAL NOTES:

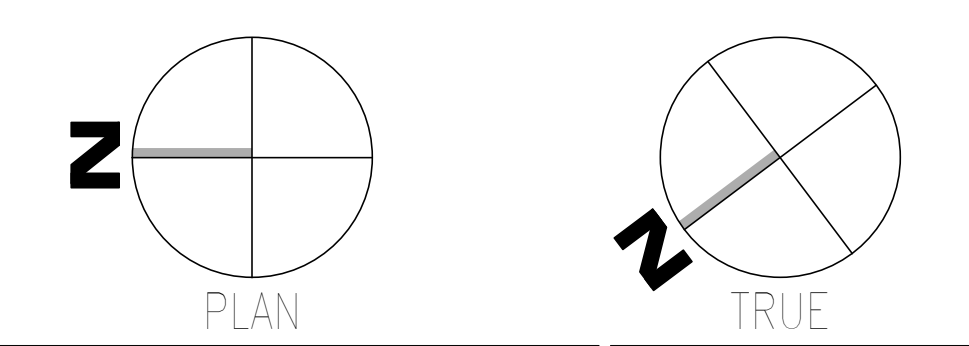
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING IS INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

KEYNOTES:

- 1. PROVIDE (3) 4" EMT CONDUITS FOR HORIZONTAL CABLING PATHWAY ACROSS VESTIBULE
- 2. PROVIDE (5) EMT CONDUIT SLEEVES FROM TR C04A TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 3. PROVIDE (6) EMT CONDUIT SLEEVES FROM TR C36 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 4. (2) 4" CONDUITS FROM MANHOLE TMH32 TO BUILDING 61 TELECOM ROOMS FOR BACKBONE FIBER PATHWAY. SEE SITE PLANS FOR CONDUIT ROUTE CONTINUATION.
- 5. (2) 4" CONDUITS THROUGH CONNECTING CORRIDOR FROM BUILDING 4 TO BUILDING 61 TELECOM ROOMS FOR BACKBONE FIBER PATHWAY. SEE SITE PLANS FOR CONDUIT ROUTE CONTINUATION.



F1 OVERALL PLAN - LEVEL 01 - TELECOM
SCALE: 1/16" = 1'-0"



Revisions:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		ARCHITECT/ENGINEER OF RECORD		 Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 061 - LEVEL 01 - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
	 SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204		 Atriax, plc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254				Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Drawing Number TN061.1

1 2 3 4 5 6 7 8 9 10

A

B

C

D

E

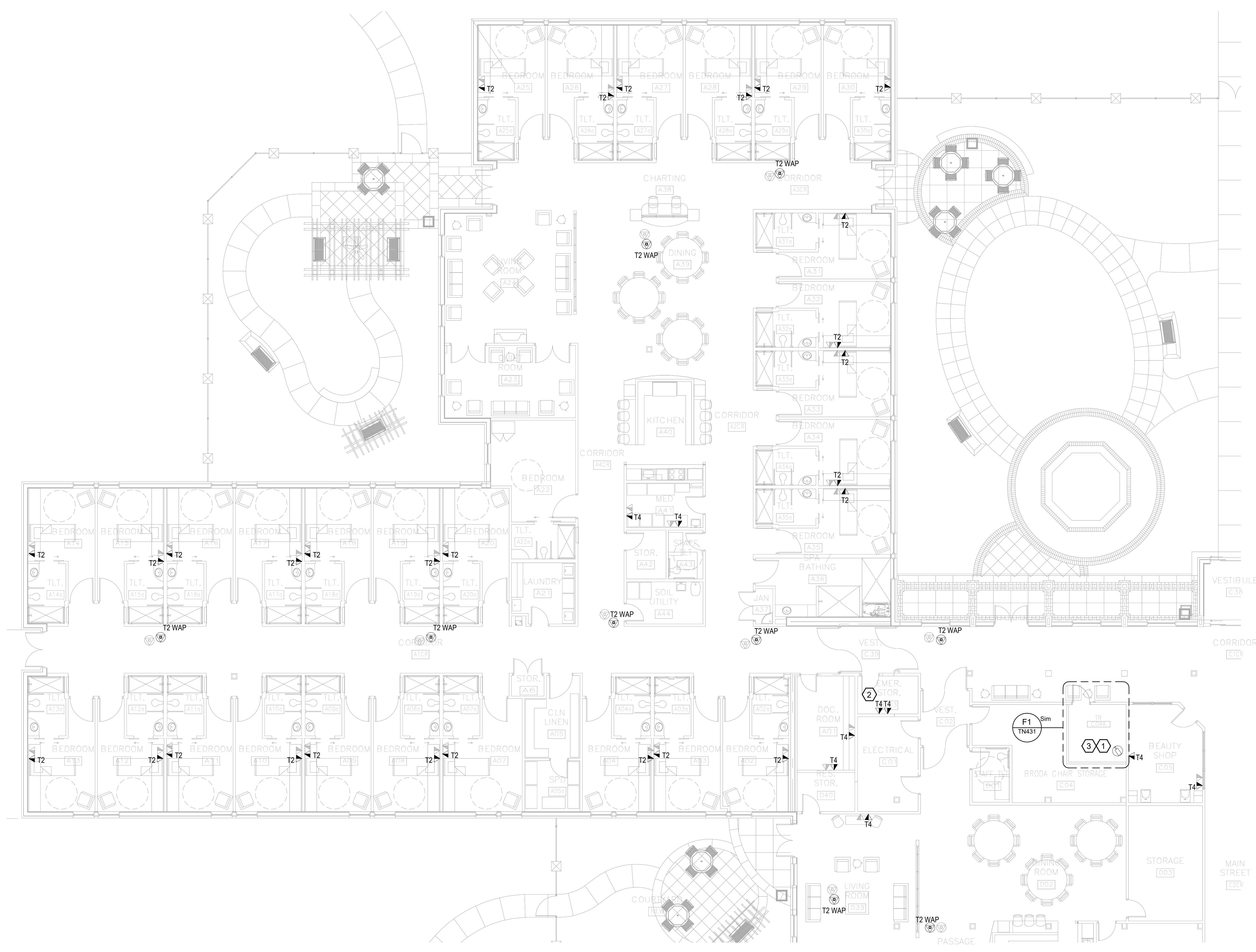
F

KEYNOTES:

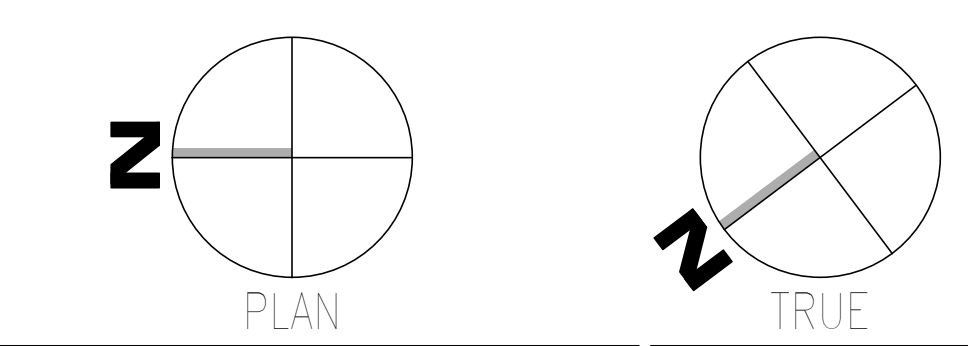
1. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
2. EXISTING TR, COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
3. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT LOCATION IN ROOM C21 FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.46 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR's SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 PLAN - LEVEL 01 - TELECOM - AREA A
SCALE: 1/8" = 1'-0"



Revisions:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204		ARCHITECT/ENGINEER OF RECORD Atriax www.atriaxgroup.com Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254		STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION TECHNOLOGIST Bicsi 10000 W. Highway 101, Suite 200 Dallas, TX 75243 03/08/24		Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs		Drawing Title BUILDING 061 - LEVEL 01 - AREA A - TELECOM Approved: Chief Engineer		Phase 100% CONSTRUCTION DOCUMENTS		Project Title EHRM INFRASTRUCTURE UPGRADES		Project Number 679-20-104	
	Date:												FULLY SPRINKLERED		Location TUSCALOOSA VAMC, TUSCALOOSA, AL.		Drawing Number TN061.1A	

1 2 3 4 5 6 7 8 9 10

A

B

C

D

E

F

A

B

C

D

E

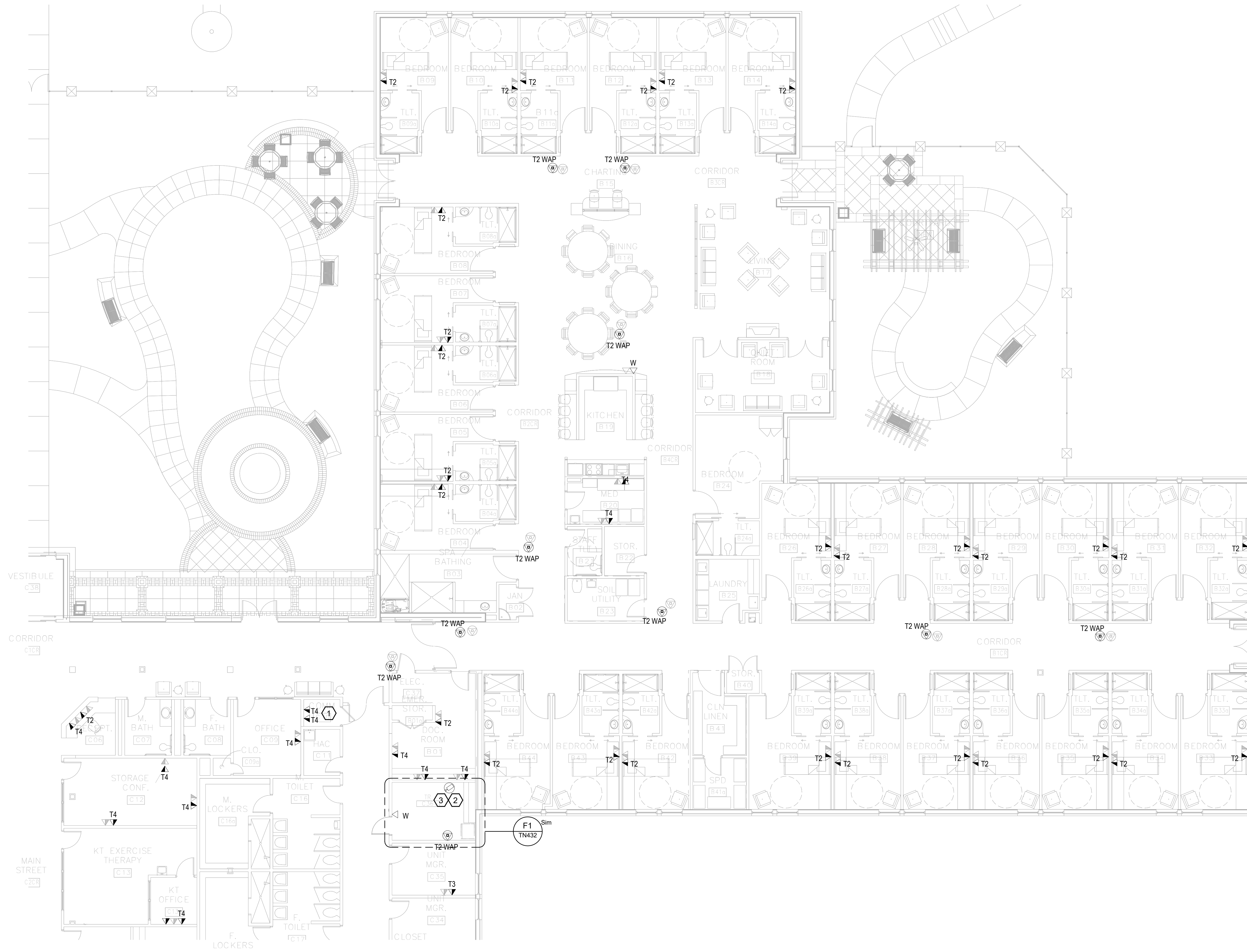
F

KEYNOTES:

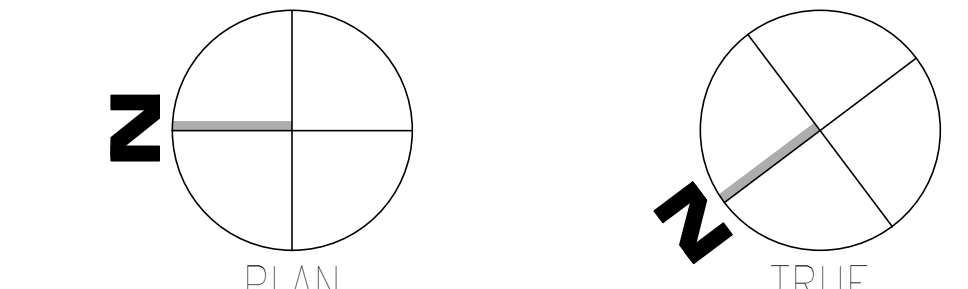
1. EXISTING TR; COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
2. EXISTING TR; COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
3. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT LOCATION IN ROOM C21 FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.46 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 PLAN - LEVEL 01 - TELECOM - AREA B
SCALE: 1/8" = 1'-0"



Revisions:	CONSULTANT		ARCHITECT/ENGINEER OF RECORD		Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title BUILDING 061 - LEVEL 01 - AREA B - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES		Project Number 679-20-104							
	 WILEY WILSON 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		 Atriax, plc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com					 Bicsi 1425 W. Main Street Bldg 107 # 219554 Evansville, IN 47710-2195 RCDD 03/08/24		Building Number 061		Drawing Number TN061.1B					
	Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204		NC Engineering License No.: P-0214 NC Architectural License No.: 51254					Approved: Chief Engineer		Location TUSCALOOSA VAMC, TUSCALOOSA, AL.		Issue Date 03/08/2024		Checked JMM		Drawn JEH	
	Fully Sprinklered																

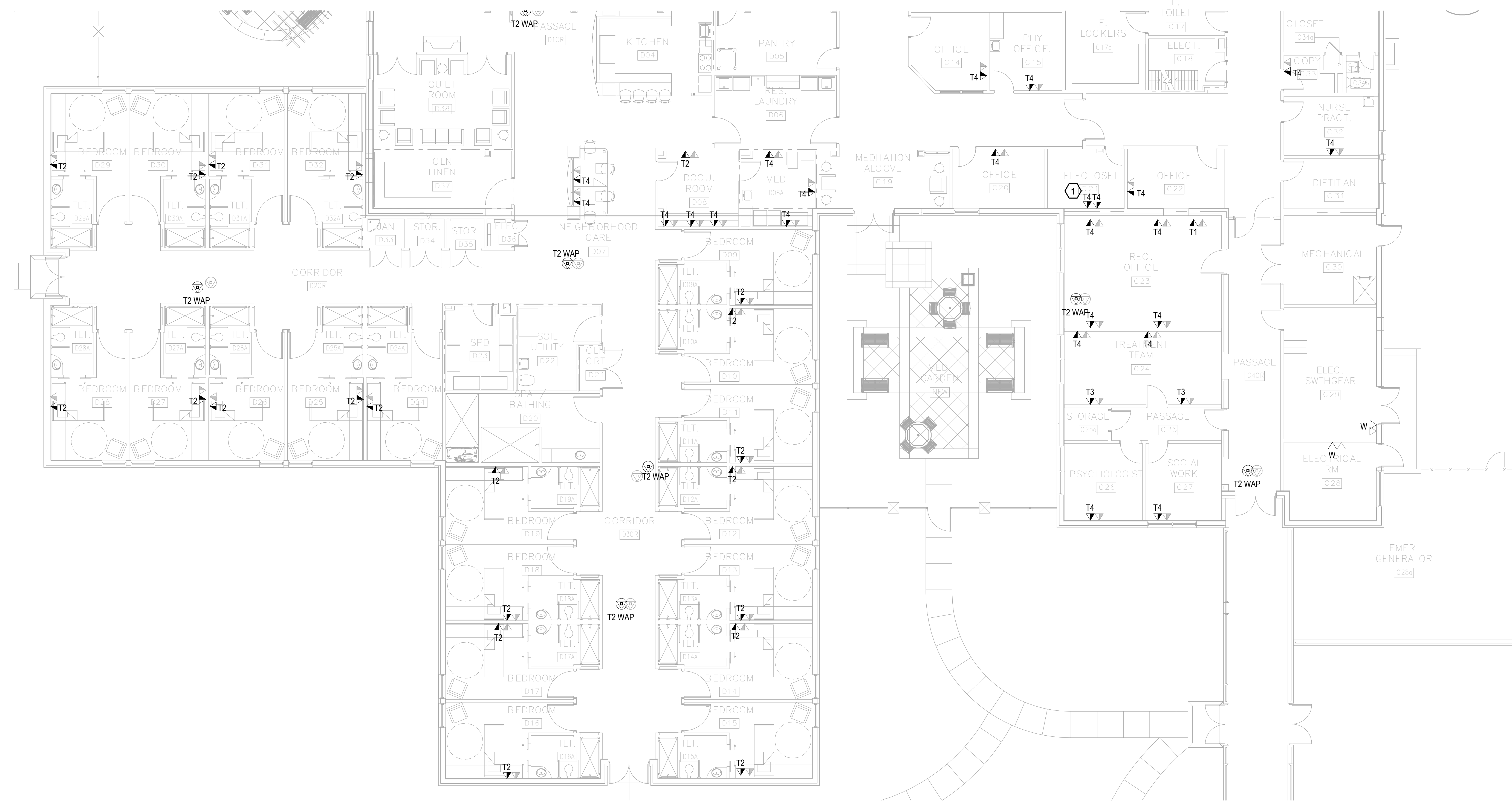
A B C D E F

KEYNOTES:

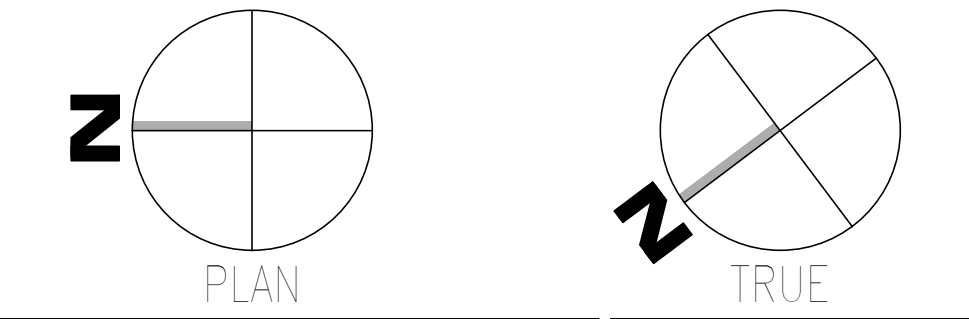
- 1. EXISTING TR. COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 PLAN - LEVEL 01 - TELECOM - AREA C
SCALE: 1/8" = 1'-0"



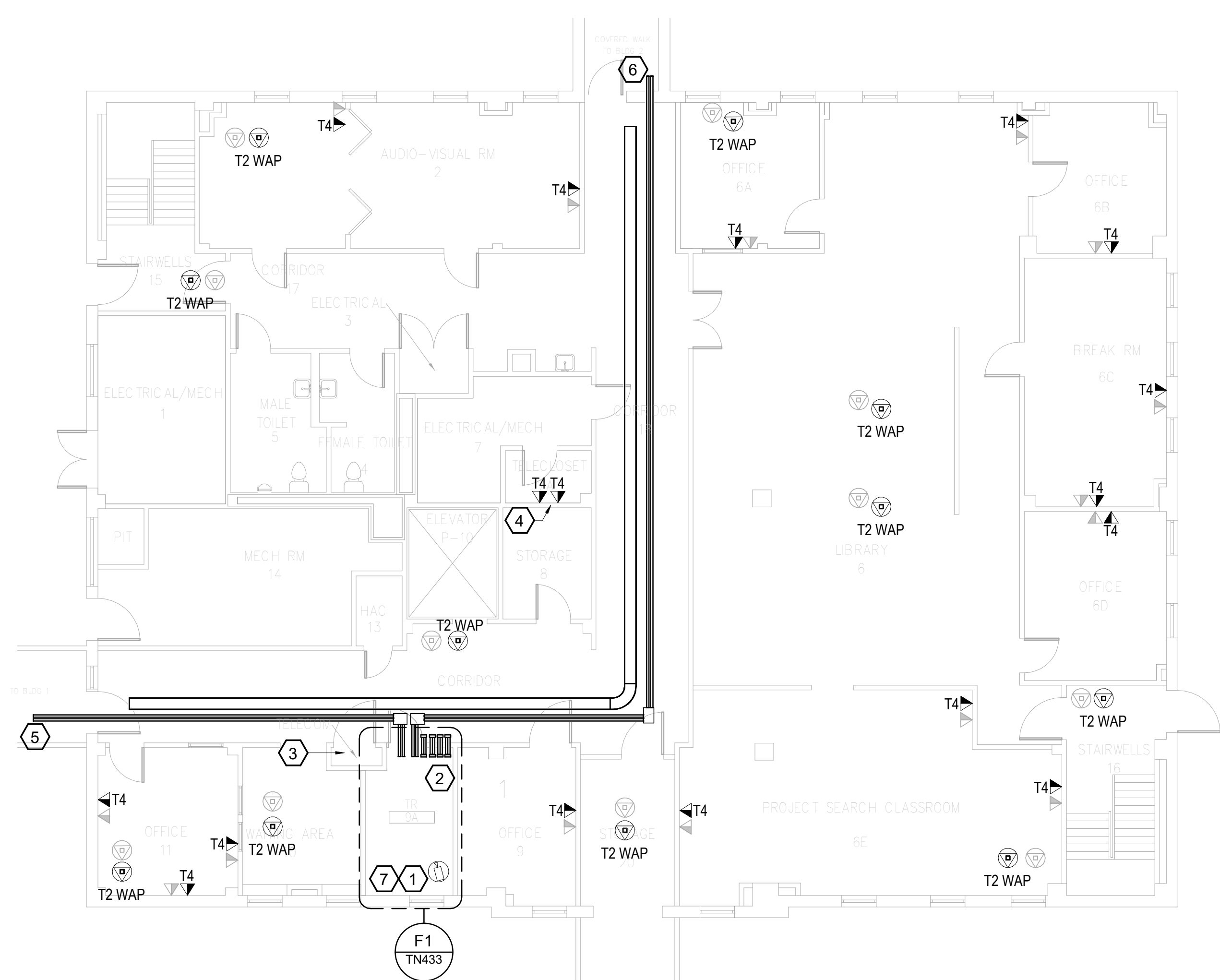
Revisions:	Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD STAMP Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	 REGISTERED COMMUNICATIONS DISTRIBUTION TECHNOLOGIST Bicsi Joseph M. McNeil BICSI ID # 239954 Expires 03/31/25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 061 - LEVEL 01 - AREA C - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104	
							Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 061	
								Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN061.1C

KEYNOTES:

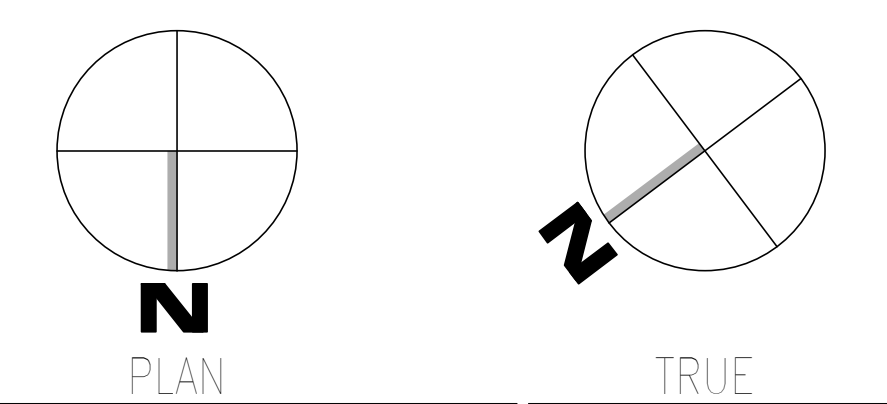
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CRKP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
2. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR LVLG TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. UTILIZE EXISTING TELECOM RISER CLOSET FOR VERTICAL STRUCTURED CABLING PATHWAY BETWEEN FLOORS.
4. EXISTING TR, COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
5. EXTEND (2) 4" CONDUITS TO BUILDING 1 FOR BACKBONE FIBER PATHWAYS. PROVIDE CONDUIT PATHWAY TO BUILDING 135 EXTENDED FROM CORRIDOR BETWEEN BUILDING 01 AND BUILDING 63.
6. EXTEND (2) 4" CONDUITS TO BUILDING 2 FOR BACKBONE FIBER PATHWAYS.
7. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT LOCATION IN ROOM 67A FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - GROUND LEVEL - TELECOM
SCALE: 1/8" = 1'-0"



CONSULTANT <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>		SPECIALIZED ENGINEERING SOLUTIONS <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>		ARCHITECT/ENGINEER OF RECORD <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p>		STAMP <p>REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Bicsi Joseph M. McElroy BICSI ID # 239554 Expires 03/31/25 RCD # 03/08/24</p>		Office of Construction and Facilities Management <p>U.S. Department of Veterans Affairs</p>		Drawing Title BUILDING 063 - GROUND LEVEL - TELECOM		Phase 100% CONSTRUCTION DOCUMENTS		Project Title EHRM INFRASTRUCTURE UPGRADES		Project Number 679-20-104			
Revisions:		Date:		Approved: Chief Engineer		FULLY SPRINKLERED		Location TUSCALOOSA VAMC, TUSCALOOSA, AL.		Building Number 063		Issue Date 03/08/2024		Checked JMM		Drawn JEH		Drawing Number TN063.0	

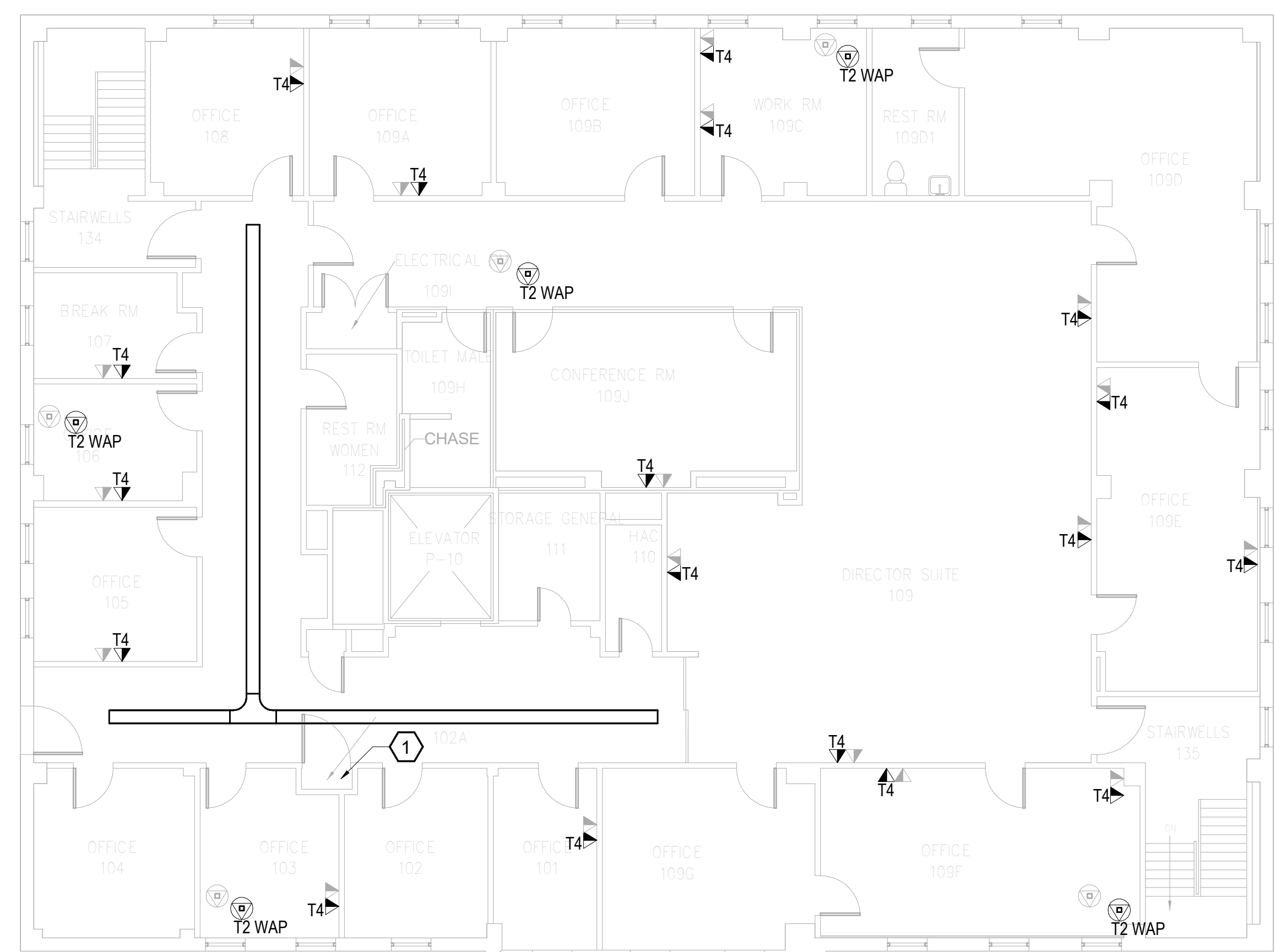
A
B
C
D
E
F

KEYNOTES:

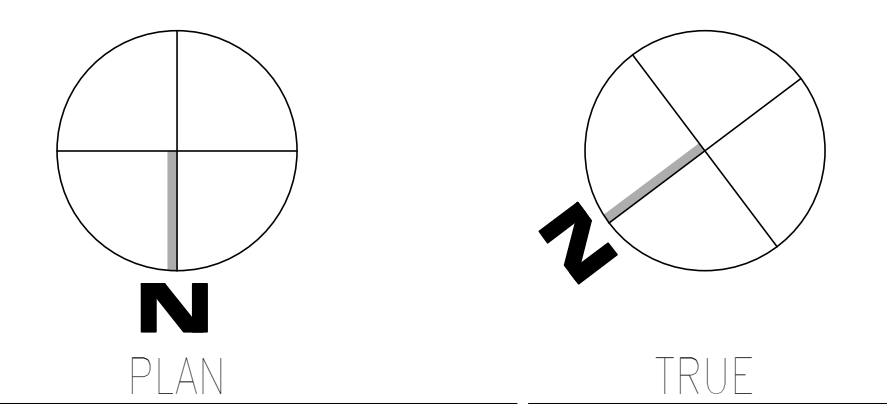
- UTILIZE EXISTING TELECOM RISER CLOSET FOR VERTICAL STRUCTURED CABLING PATHWAY BETWEEN FLOORS.

GENERAL NOTES:

- SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- SEE SHEET TG003 & TN003 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.46 (UNLISTED CABLES ENTERING BUILDINGS).
- MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - LEVEL 01 - TELECOM
SCALE: 1/8" = 1'-0"



CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254		STAMP Bicsi Registered Communications Distributor BICSI 107 # 239554 Expires 03/31/25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 063 - LEVEL 01 - TELECOM Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED	Project Title EHRM INFRASTRUCTURE UPGRADES Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024	Project Number 679-20-104 Building Number 063 Drawing Number TN063.1 Checked JMM Drawn JEH
---	--	---	--	--	---	---	---	---	--

1 2 3 4 5 6 7 8 9 10

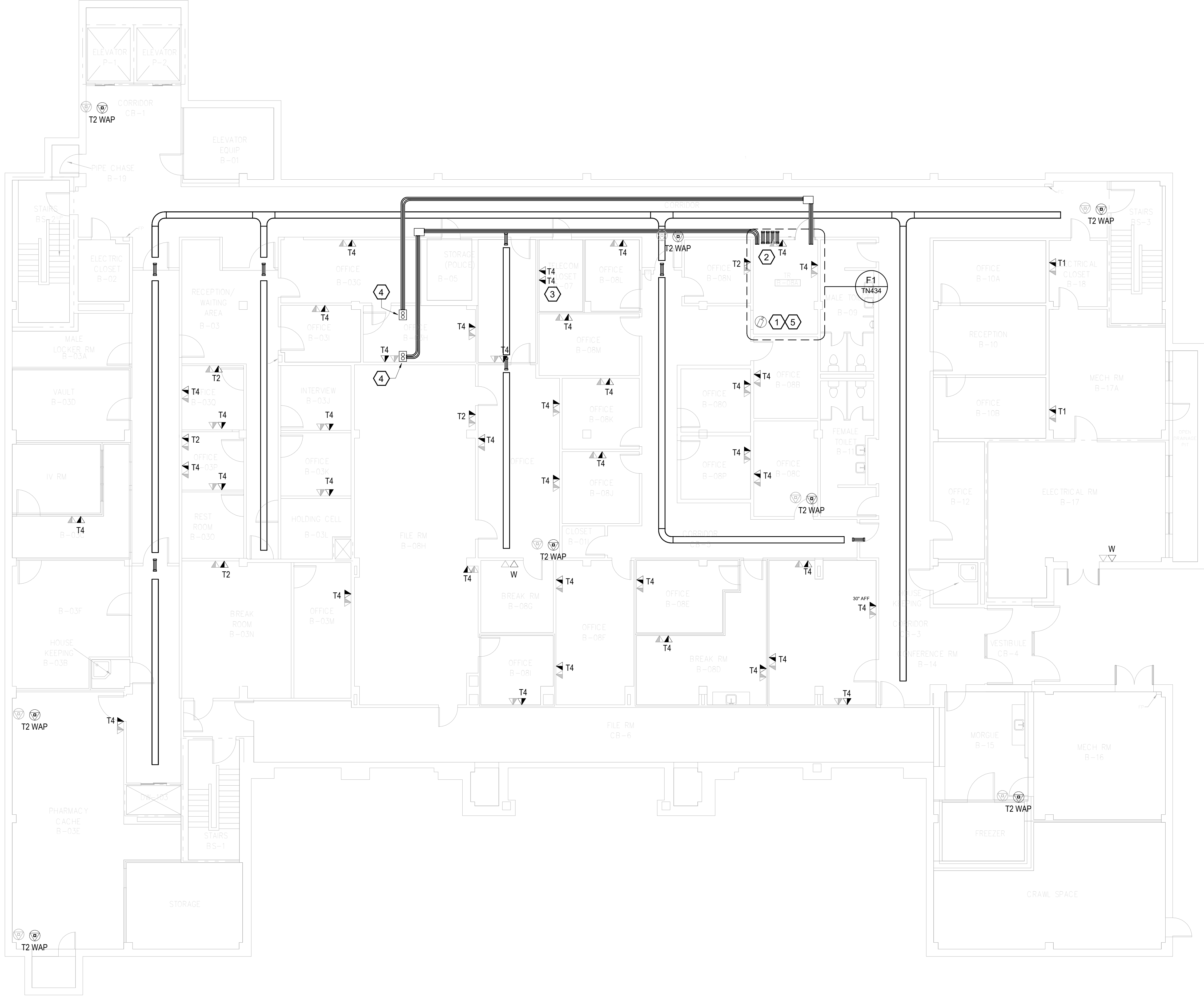
A
B
C
D
E
F

KEYNOTES:

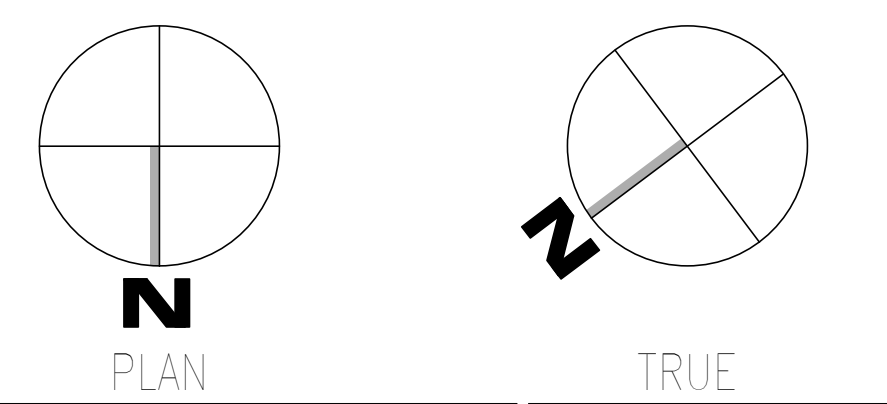
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
2. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR B-08A TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. EXISTING TR. COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
4. (2) 4" CONDUITS THROUGH CEILING DECK FOR BACKBONE FIBER PATHWAY TO GROUND LEVEL TR G-66.
5. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT LOCATION IN ROOM B-05 FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - BASEMENT LEVEL - TELECOM
SCALE: 1/8" = 1'-0"



Revisions: Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 135 - BASEMENT LEVEL - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104	
						Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 135	
							Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN135.B

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

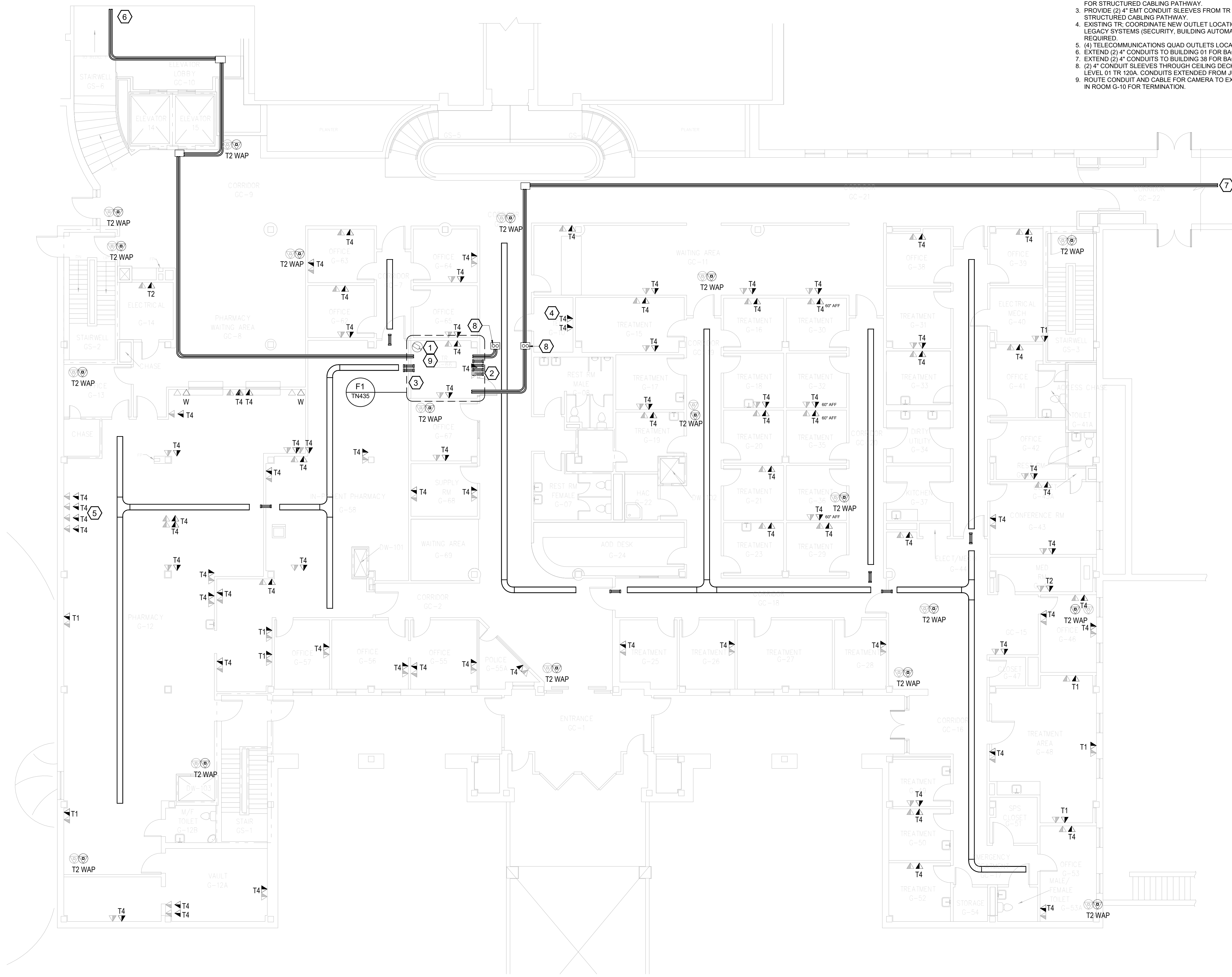
A
B
C
D
E
F

KEYNOTES:

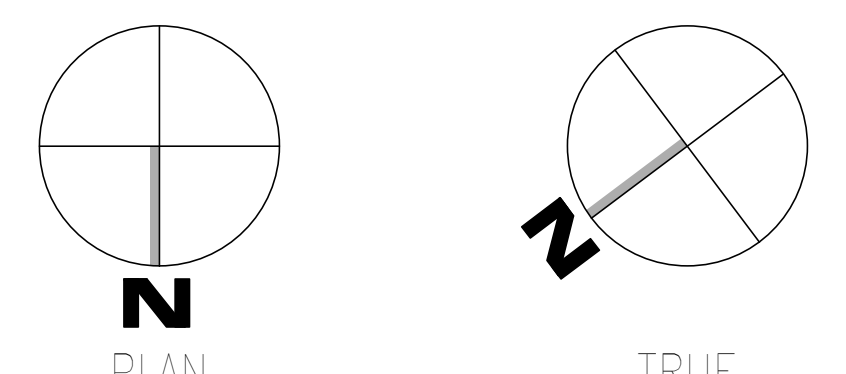
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CRKP, BMS, EL, REX, SSTV) TO NEW ACSIDS POU LOCATION
2. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR G-66 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY
3. PROVIDE (2) 4" EMT CONDUIT SLEEVES FROM TR G-66 TO CABLE TRAY FOR STRUCTURED CABLING PATHWAY
4. EXISTING TR. COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
5. (4) TELECOMMUNICATIONS QUAD OUTLETS LOCATED IN CASEWORK.
6. EXTEND (2) 4" CONDUITS TO BUILDING 01 FOR BACKBONE FIBER PATHWAYS.
7. EXTEND (2) 4" CONDUITS TO BUILDING 38 FOR BACKBONE FIBER PATHWAYS.
8. (2) 4" CONDUIT SLEEVES THROUGH CEILING DECK FOR BACKBONE FIBER PATHWAY TO LEVEL 01 TR 120A. CONDUITS EXTENDED FROM JUNCTION BOXES.
9. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT LOCATION IN ROOM G-10 FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.46 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - GROUND LEVEL - TELECOM
SCALE: 1/8" = 1'-0"



Revisions:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204		ARCHITECT/ENGINEER OF RECORD Atriax, plc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254		STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI 107 # 239554 Expires 03/31/25 03/08/24		Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs		Drawing Title BUILDING 135 - GROUND LEVEL - TELECOM		Phase 100% CONSTRUCTION DOCUMENTS		Project Title EHRM INFRASTRUCTURE UPGRADES		Project Number 679-20-104	
	Date:										Approved: Chief Engineer		FULLY SPRINKLERED		Location TUSCALOOSA VAMC, TUSCALOOSA, AL.		Drawing Number TN135.0	

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

A

B

C

D

E

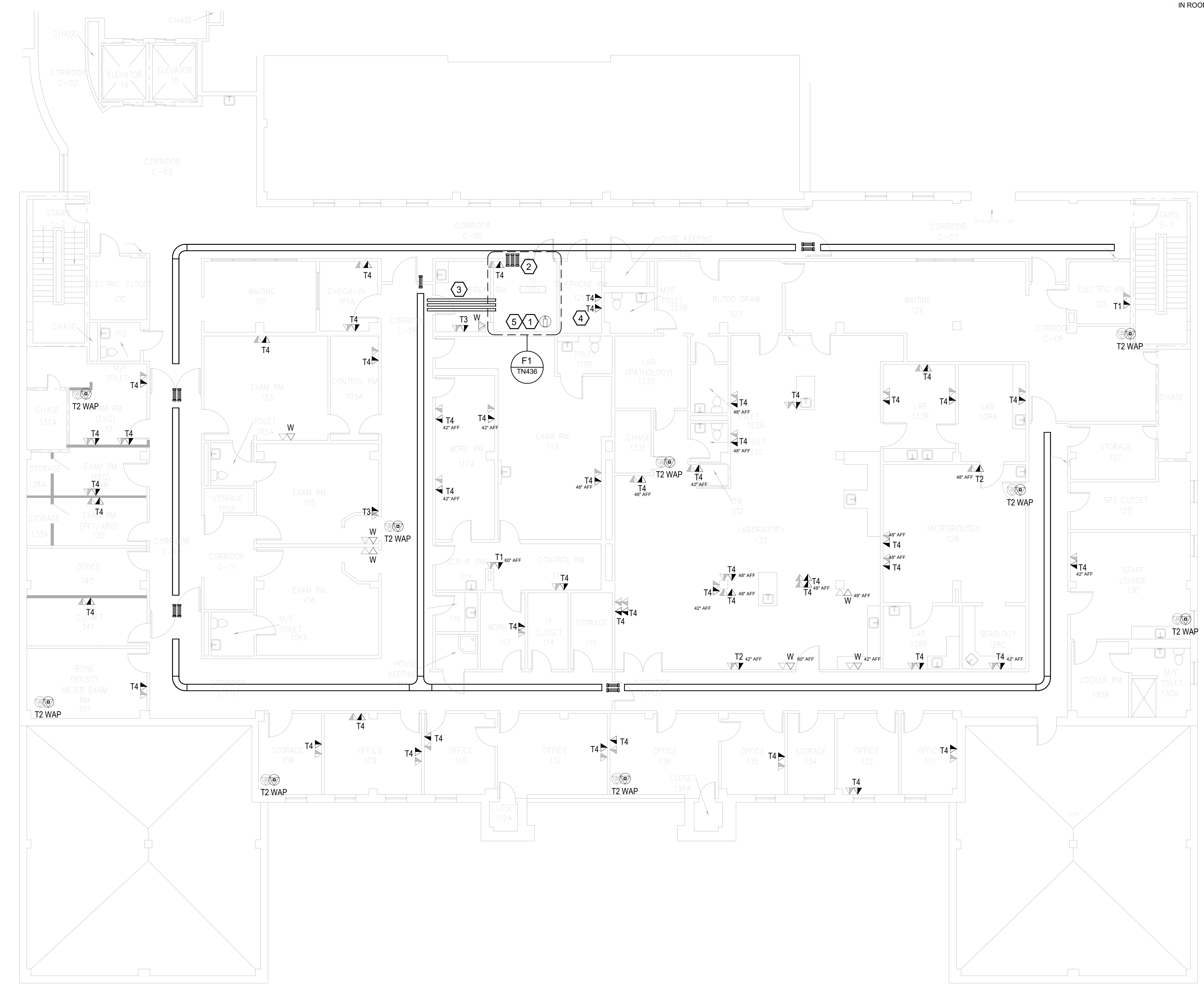
F

KEYNOTES:

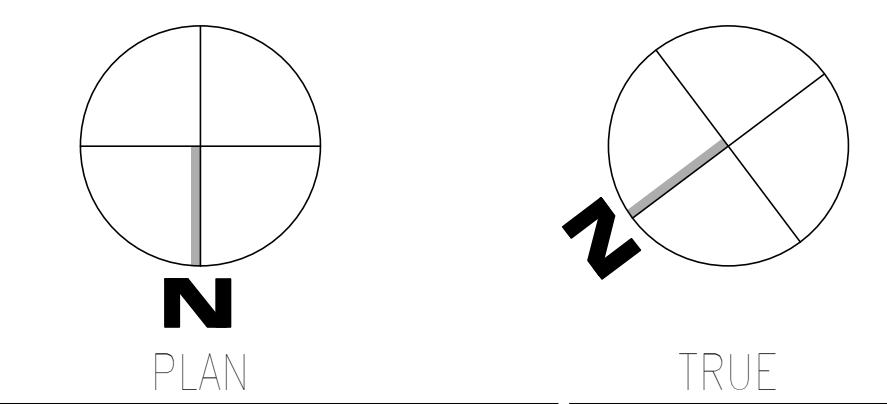
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACSIDS PCU LOCATION.
2. PROVIDE (3) 4" EMT CONDUIT SLEEVES FROM TR 120A TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. PROVIDE (3) 4" EMT CONDUITS ABOVE BREAK ROOM CEILING FROM TR 120A TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
4. EXISTING TR. COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
5. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT LOCATION IN ROOM G-10 FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING IS INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - LEVEL 01 - TELECOM
SCALE: 1/8" = 1'-0"



Revisions: 1 Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi 3804 J.M. McNeil BRES 107 # 239554 Expires 03/31/25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 135 - LEVEL 01 - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
						Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 135
							Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Issue Date 03/08/2024	Drawing Number TN135.1
								Checked JMM	Drawn JEH

1 2 3 4 5 6 7 8 9 10

A
B
C
D
E
F

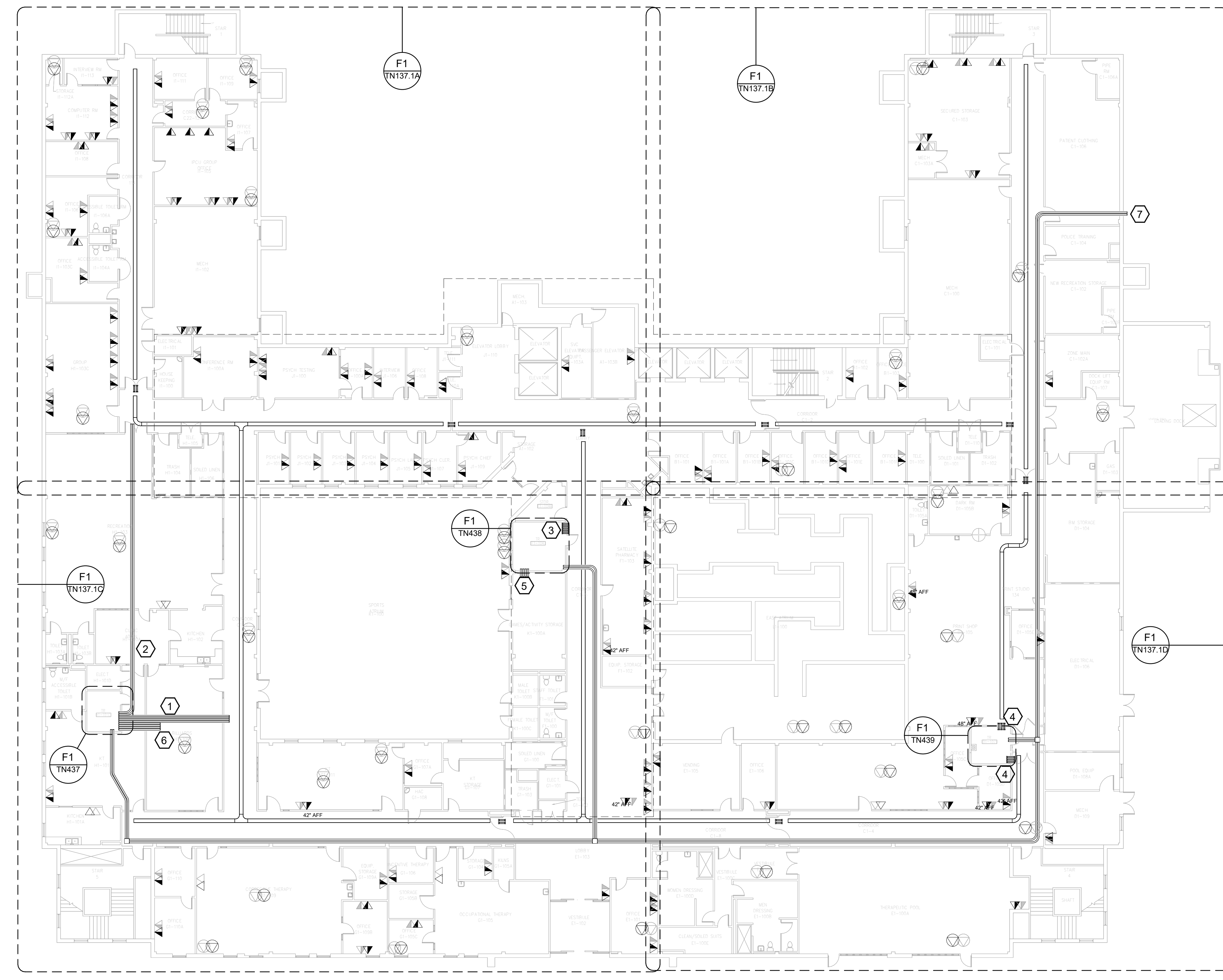
A
B
C
D
E
F

KEYNOTES:

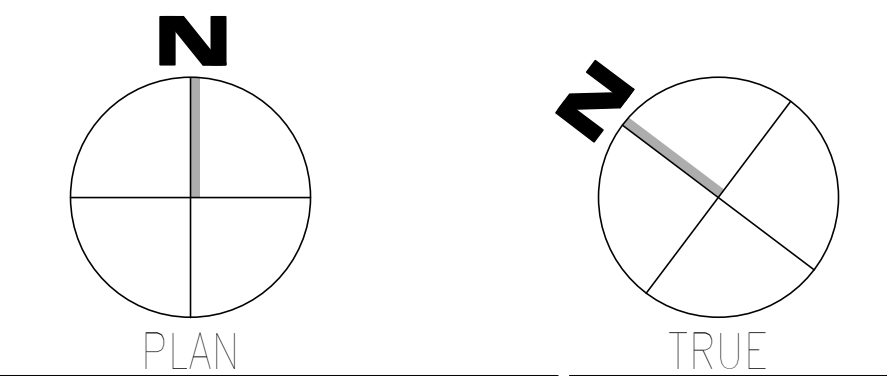
1. PROVIDE (4) 4" EMT CONDUITS ABOVE CEILING OF ROOM H1-100 FROM TR H1-101C TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
2. PROVIDE (2) 4" EMT CONDUITS ABOVE CEILING OF ROOMS H1-101, H1-101A, AND H1-103 FROM TR H1-101C TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. PROVIDE (5) 4" EMT CONDUIT SLEEVES FROM TR F1-104 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
4. PROVIDE (3) 4" EMT CONDUIT SLEEVES FROM TR D1-107 TO CABLE TRAY FOR STRUCTURED CABLING PATHWAY.
5. (4) 4" CONDUITS FROM TR F1-104 EXTENDED UP THROUGH CEILING DECK INTO SECOND FLOOR TR F2-106.
6. (4) 4" CONDUITS FROM TR H1-101C EXTENDED UP THROUGH CEILING DECK INTO SECOND FLOOR TR H2-103 FOR BACKBONE FIBER PATHWAY.
7. (2) 4" CONDUITS FROM HANDHOLE THH20 TO BUILDING 137 TELECOM ROOMS FOR FIBER BACKBONE. SEE SITE PLAN FOR CONDUIT CONTINUATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - LEVEL 01
SCALE: 1/16" = 1'-0"



Revisions:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		ARCHITECT/ENGINEER OF RECORD		Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 137 - LEVEL 01 - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
	Date:	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204		Atriax GROUP www.atriaxgroup.com Atriax, plc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254		Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 137
				Bicsi Registered Professional Engineer License No. 219954 Expires 03/31/25 03/08/24				Issue Date 03/08/2024	Drawing Number TN137.1
								Checked JMM	Drawn JEH

1 2 3 4 5 6 7 8 9 10

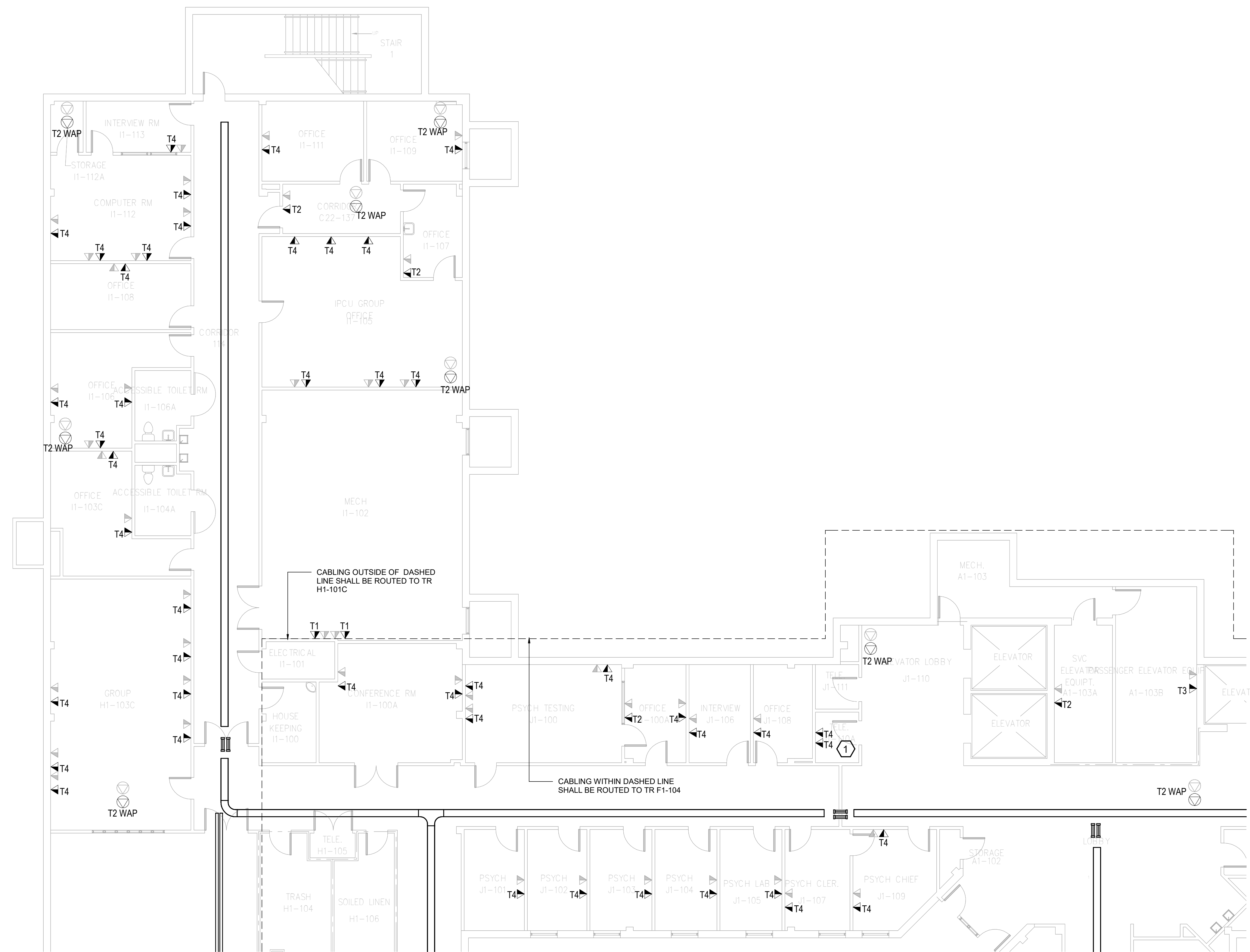
A
B
C
D
E
F

KEYNOTES:

- EXISTING TR: COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.

GENERAL NOTES:

- SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 PLAN - LEVEL 01 - TELECOM - AREA A
SCALE: 1/8" = 1'-0"

Revisions: Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Bicsi 2024/08/03 03/08/24 RCD	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 137 - LEVEL 01 - AREA A - TELECOM Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104 Building Number 137 Drawing Number TN137.1A
	Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024 Checked JMM Drawn JEH								

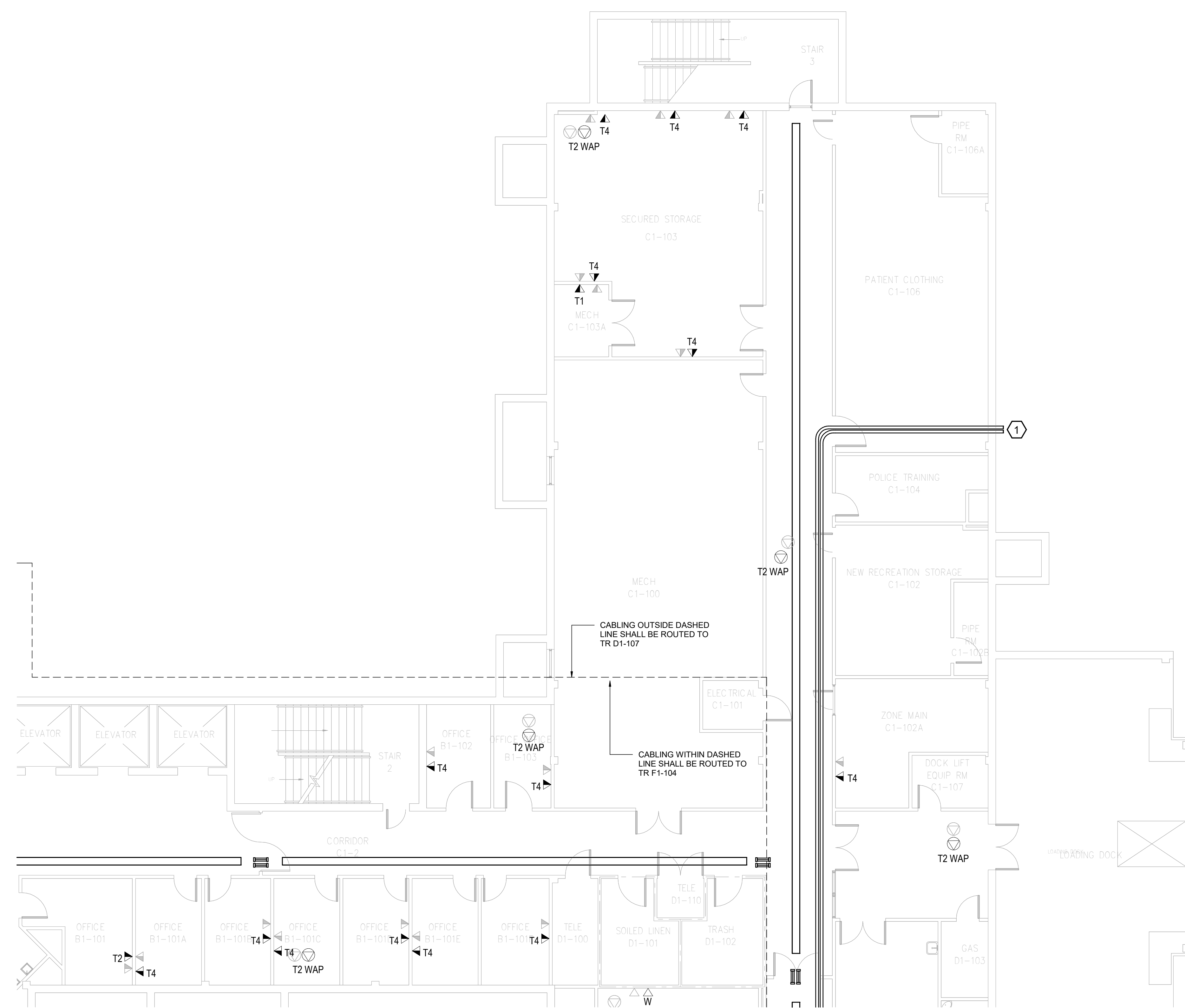
1 2 3 4 5 6 7 8 9 10

KEYNOTES:

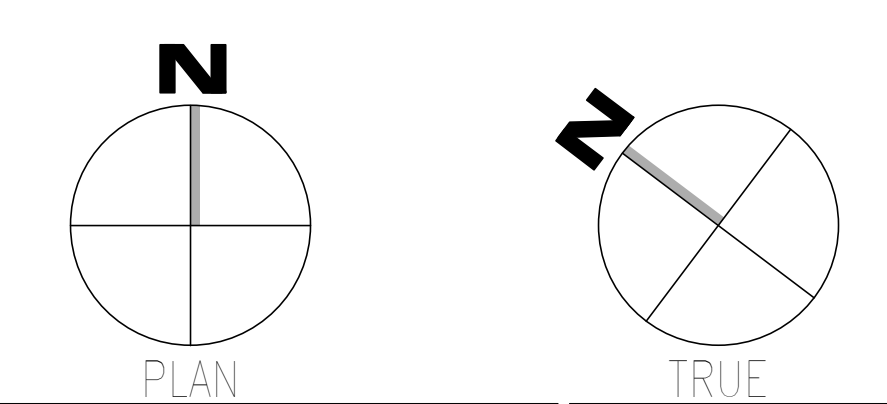
- (2) 4" CONDUITS FROM HANDHOLE THH20 TO BUILDING 137 TELECOM ROOMS FOR FIBER BACKBONE. SEE SITE PLAN FOR CONDUIT CONTINUATION.

GENERAL NOTES:

- SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 PLAN - LEVEL 01 - TELECOM - AREA B
SCALE: 1/8" = 1'-0"



Revisions: _____ Date: _____	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI ID # 239554 Expires 03/31/25 RCDD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 137 - LEVEL 01 - AREA B - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104	
						Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 137	
							Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN137.1B

1 2 3 4 5 6 7 8 9 10

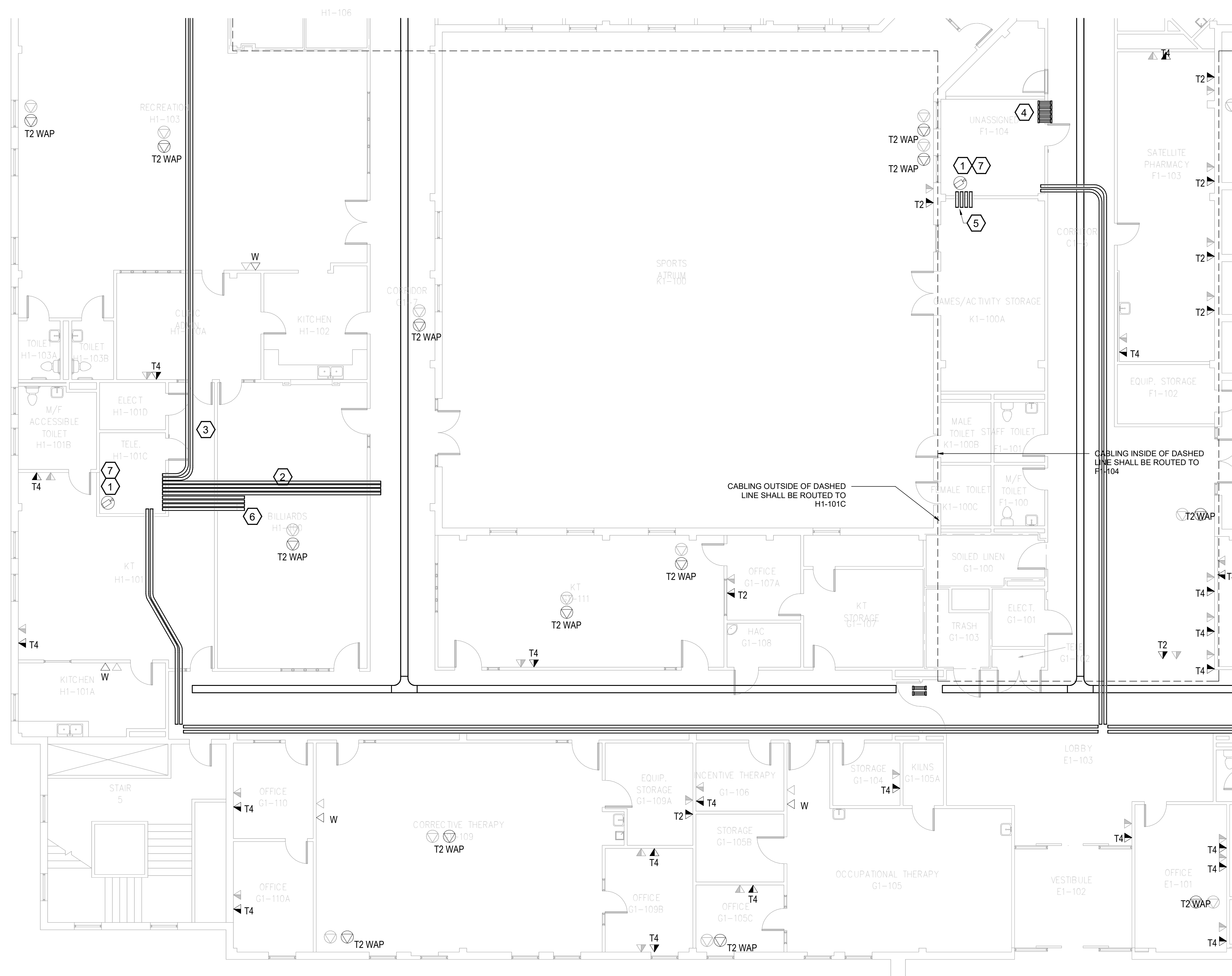
A
B
C
D
E
F

KEYNOTES:

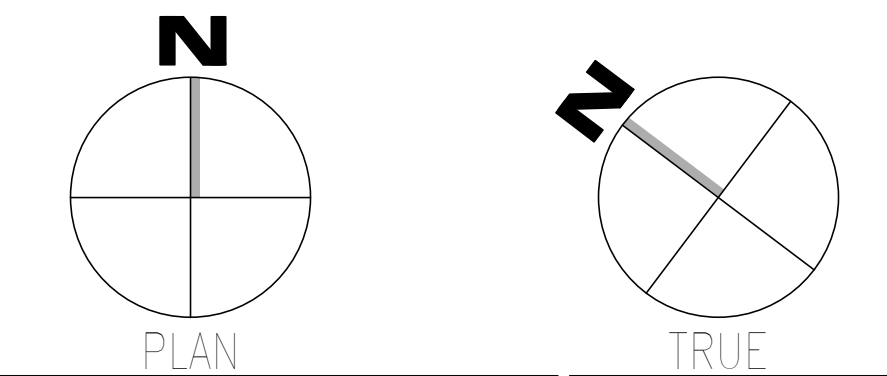
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
2. PROVIDE (4) 4" EMT CONDUITS ABOVE CEILING OF ROOM H1-100 FROM TR H1-101C TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. PROVIDE (2) 4" EMT CONDUITS ABOVE CEILING OF ROOMS H1-101, H1-101A, AND H1-103 FROM TR H1-101C TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
4. PROVIDE (5) 4" EMT CONDUIT SLEEVES FROM TR F1-104 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
5. (4) 4" CONDUITS FROM TR F1-104 EXTENDED UP THROUGH CEILING DECK INTO SECOND FLOOR TR F2-106.
6. (4) 4" CONDUITS FROM TR H1-101C EXTENDED UP THROUGH CEILING DECK INTO SECOND FLOOR TR F2-103 FOR BACKBONE FIBER PATHWAY.
7. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT LOCATION IN ROOM J2-112 FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 PLAN - LEVEL 01 - TELECOM - AREA C
SCALE: 1/8" = 1'-0"



Revisions:	CONSULTANT Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204		ARCHITECT/ENGINEER OF RECORD Atriax www.atriaxgroup.com		Atriax, plc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254		 Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER 03/08/24		Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs		Drawing Title BUILDING 137 - LEVEL 01 - AREA C - TELECOM		Phase 100% CONSTRUCTION DOCUMENTS		Project Title EHRM INFRASTRUCTURE UPGRADES		Project Number 679-20-104						
	Date:										Approved: Chief Engineer		FULLY SPRINKLERED		Location TUSCALOOSA VAMC, TUSCALOOSA, AL.		Issue Date 03/08/2024		Checked JMM		Drawn JEH		Building Number 137		Drawing Number TN137.1C

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

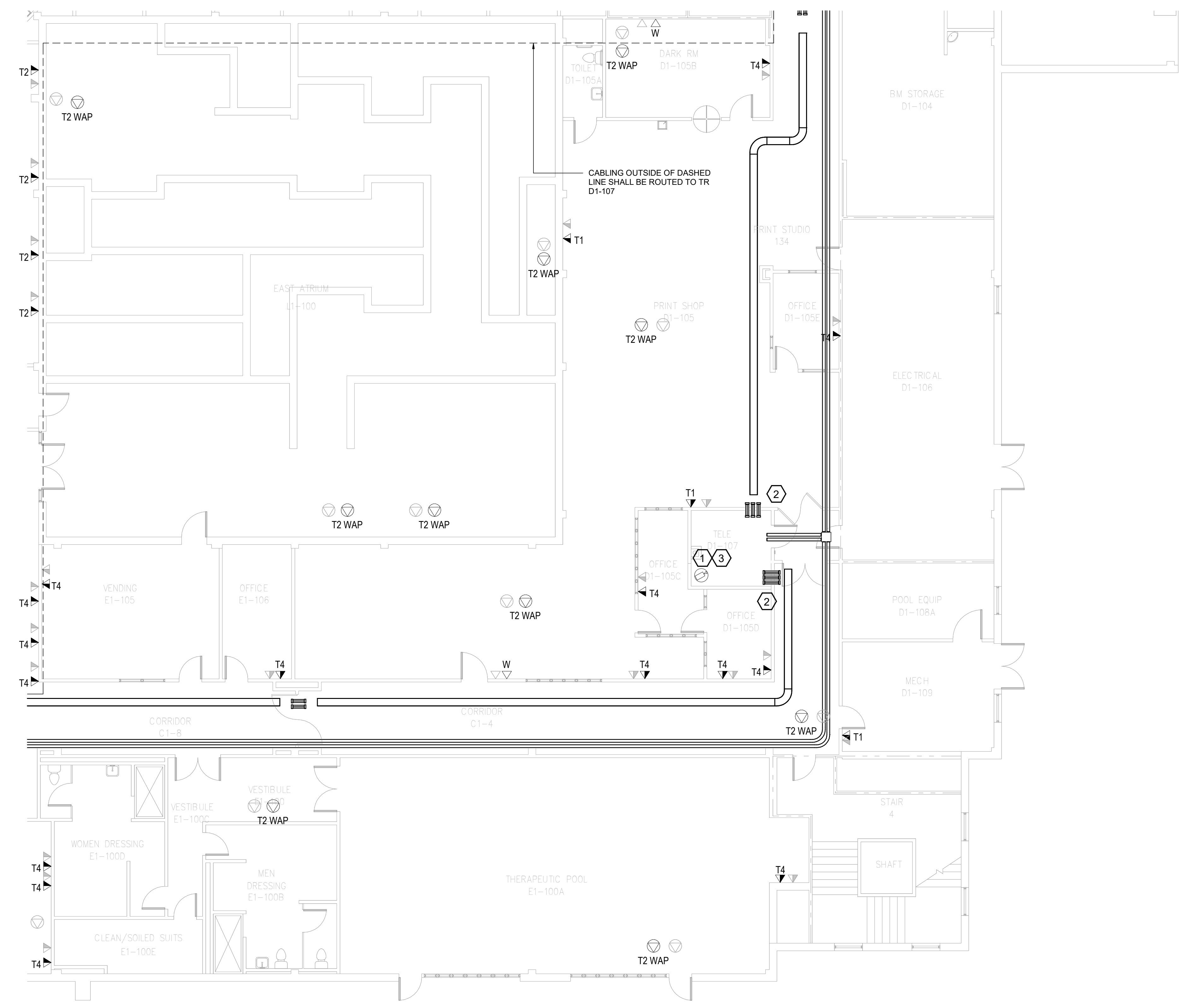
A
B
C
D
E
F

KEYNOTES:

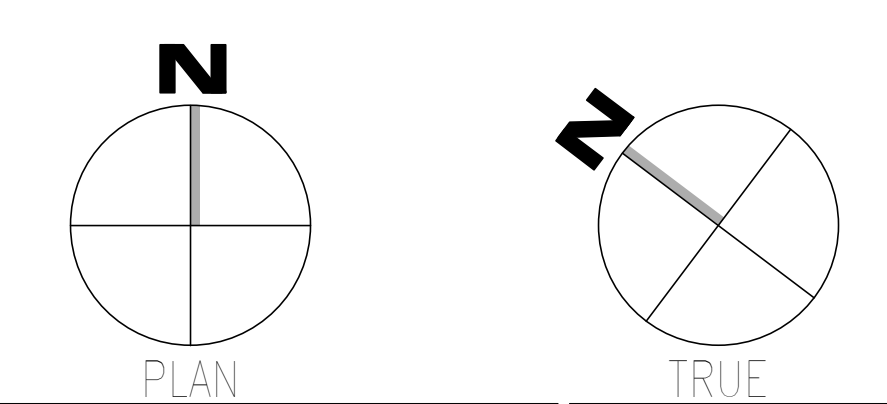
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
2. PROVIDE (3) 4" EMT CONDUIT SLEEVES FROM TR D1-107 TO CABLE TRAY FOR STRUCTURED CABLING PATHWAY.
3. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT LOCATION IN ROOM J2-112 FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 PLAN - LEVEL 01 - TELECOM - AREA D
SCALE: 1/8" = 1'-0"



Revisions:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204		ARCHITECT/ENGINEER OF RECORD Atriax www.atriaxgroup.com Atriax, plc 703 Main Avenue SW PO Box 16229, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254		STAMP REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Bicsi BICSI 107 # 239554 Expires 03/31/25 RCDD 03/08/24		Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs		Drawing Title BUILDING 137 - LEVEL 01 - AREA D - TELECOM		Phase 100% CONSTRUCTION DOCUMENTS		Project Title EHRM INFRASTRUCTURE UPGRADES		Project Number 679-20-104				
	Date:										Approved: Chief Engineer		FULLY SPRINKLERED		Location TUSCALOOSA VAMC, TUSCALOOSA, AL.		Building Number 137				
														Issue Date 03/08/2024		Checked JMM		Drawn JEH		Drawing Number TN137.1D	

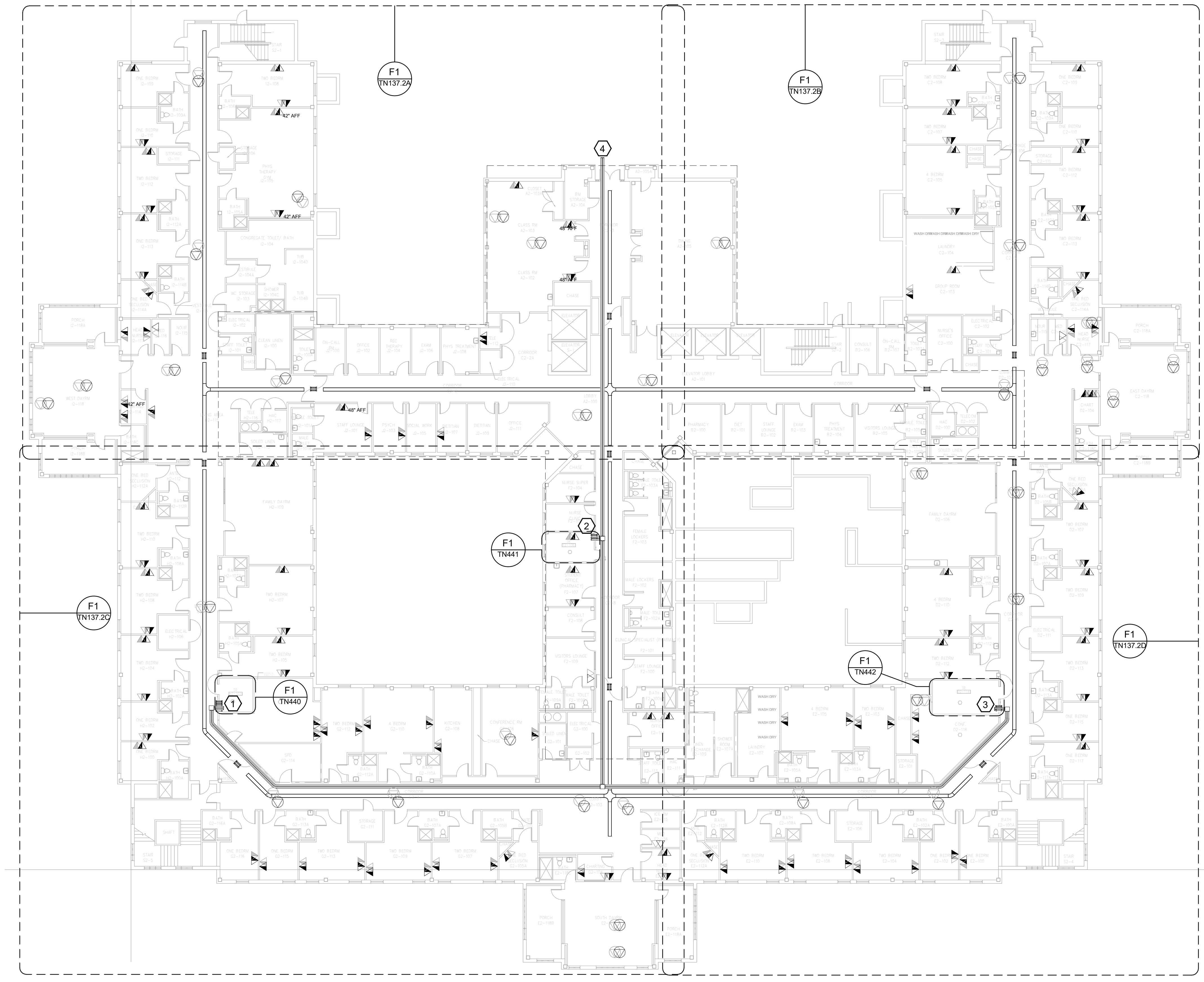
1 2 3 4 5 6 7 8 9 10

KEYNOTES:

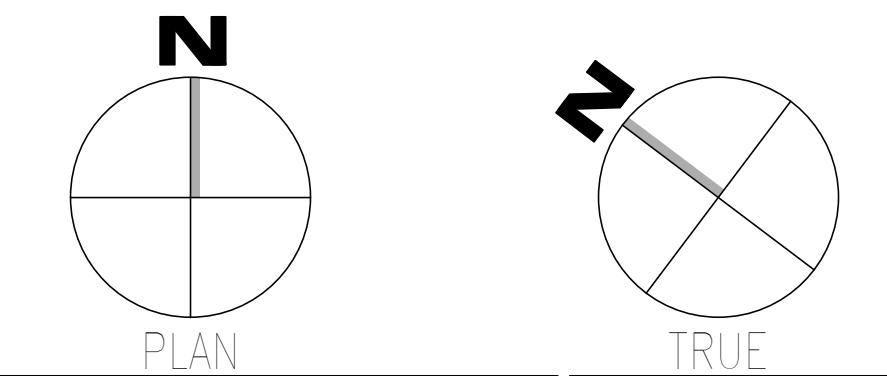
1. PROVIDE (5) 4" EMT CONDUIT SLEEVES FROM TR H2-103 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
2. PROVIDE (3) 4" EMT CONDUIT SLEEVES FROM TR F2-106 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. PROVIDE (6) 4" EMT CONDUIT SLEEVES FROM TR D2-114 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
4. PROVIDE (2) 4" CONDUITS ROUTED THROUGH CORRIDORS FROM BUILDING 38 TO BUILDING 137 TELECOM ROOMS FOR BACKBONE FIBER PATHWAY. SEE SITE PLAN FOR CONDUIT ROUTE CONTINUATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - LEVEL 02
SCALE: 1/16" = 1'-0"



Revisions: 1 2 3 4 5 6 7 8 9 10	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Bicsi 2024/08/24 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 137 - LEVEL 02 - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
	Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 137	Drawing Number TN137.2				

1 2 3 4 5 6 7 8 9 10

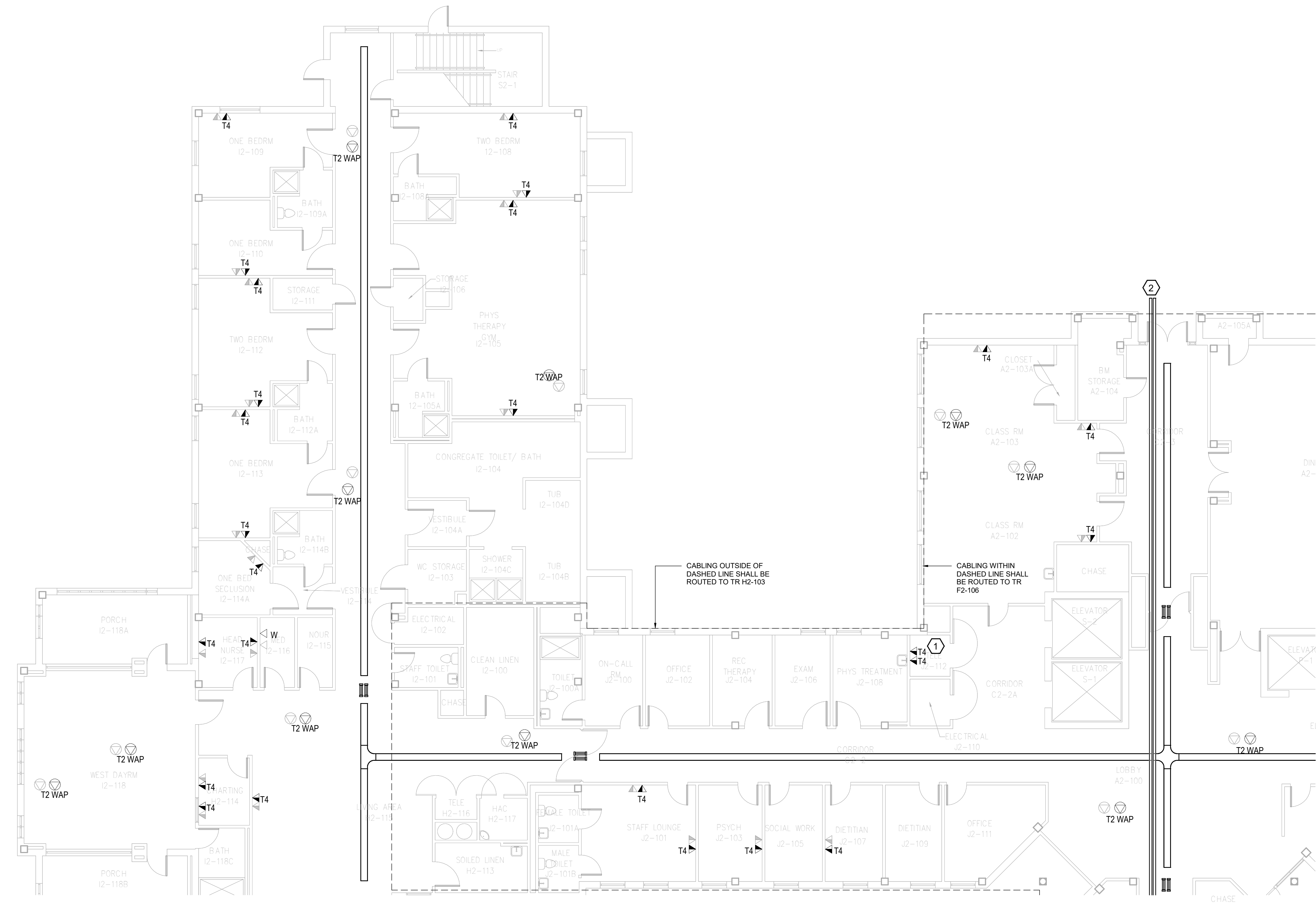
A
B
C
D
E
F

KEYNOTES:

- EXISTING TR: COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
- PROVIDE (2) 4" CONDUITS ROUTED THROUGH CORRIDORS FROM MANHOLE TMH31 TO BUILDING 137 TELECOM ROOMS FOR BACKBONE FIBER PATHWAY. SEE SITE PLAN FOR CONDUIT ROUTE CONTINUATION.

GENERAL NOTES:

- SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- SEE SHEET TG003 & TM000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



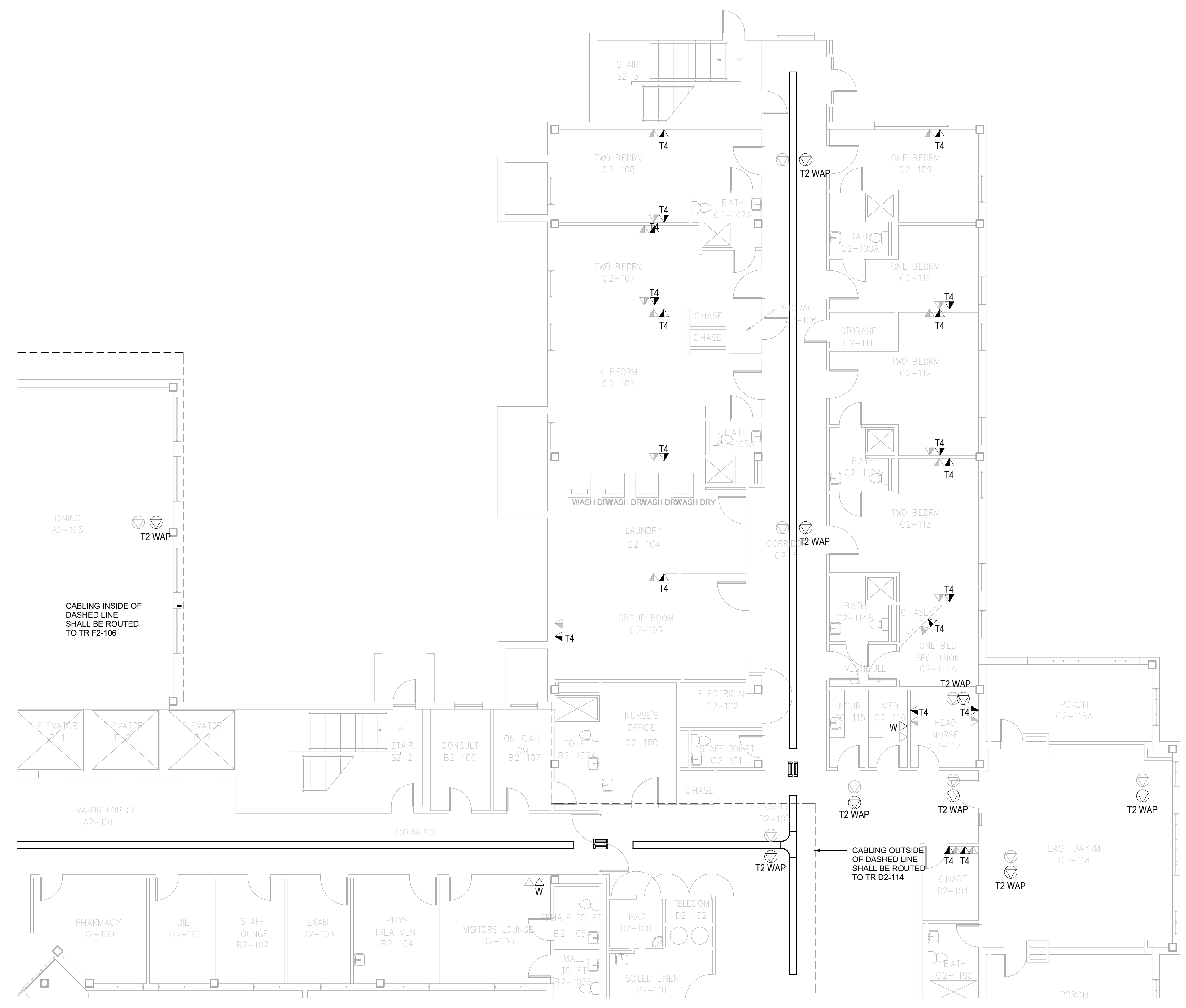
F1 PLAN - LEVEL 02 - TELECOM - AREA A
SCALE: 1/8" = 1'-0"

Revisions:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		ARCHITECT/ENGINEER OF RECORD Atriax www.atriaxgroup.com		Office of Construction and Facilities Management U.S. Department of Veterans Affairs		Drawing Title BUILDING 137 - LEVEL 02 - AREA A - TELECOM		Phase 100% CONSTRUCTION DOCUMENTS		Project Title EHRM INFRASTRUCTURE UPGRADES		Project Number 679-20-104				
	Date:	Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204		Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254		Approved: Chief Engineer		FULLY SPRINKLERED		Location TUSCALOOSA VAMC, TUSCALOOSA, AL.		Building Number 137					
										Issue Date 03/08/2024		Checked JMM		Drawn JEH		Drawing Number TN137.2A	

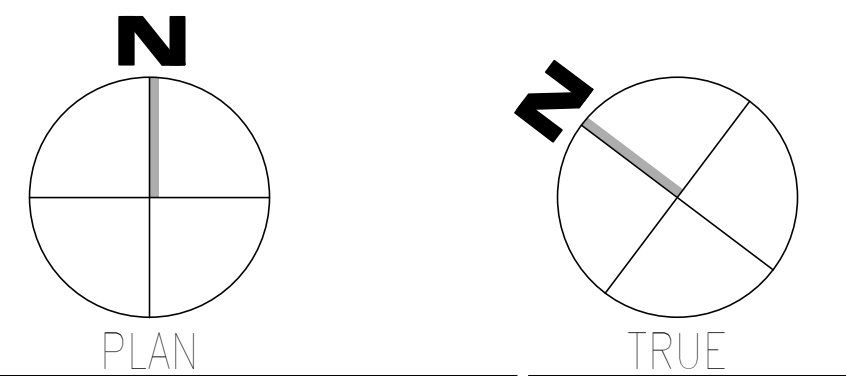
1 2 3 4 5 6 7 8 9 10

A
B
C
D
E
F

- GENERAL NOTES:**
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
 - B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
 - C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
 - D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
 - E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
 - F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
 - G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
 - H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 PLAN - LEVEL 02 - TELECOM - AREA B
SCALE: 1/8" = 1'-0"



Revisions:	Date:

CONSULTANT

WileyWilson
127 Nationwide Drive
Lynchburg, VA 24502
Phone: 434.947.1901
www.wileywilson.com

SPECIALIZED ENGINEERING SOLUTIONS
Specialized Engineering Solutions
1300 Baxter Street, Suite 355
Charlotte, NC 28204

ARCHITECT/ENGINEER OF RECORD

Atriax
www.atriaxgroup.com

Atriax, pllc
703 Main Avenue SW
PO Box 1629, Hickory, NC 28603
Phone: 828.315.9962
Fax: 828.315.9964

NC Engineering License No.: P-0214
NC Architectural License No.: 51254

Bicsi
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICS11018239554
Expires 03/31/25
RCDD
03/08/24

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
BUILDING 137 - LEVEL 02 - AREA B - TELECOM

Approved: Chief Engineer

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE UPGRADES

Location
TUSCALOOSA VAMC, TUSCALOOSA, AL.

Issue Date
03/08/2024

Checked
JMM

Drawn
JEH

Project Number
679-20-104

Building Number
137

Drawing Number
TN137.2B

1 2 3 4 5 6 7 8 9 10

A

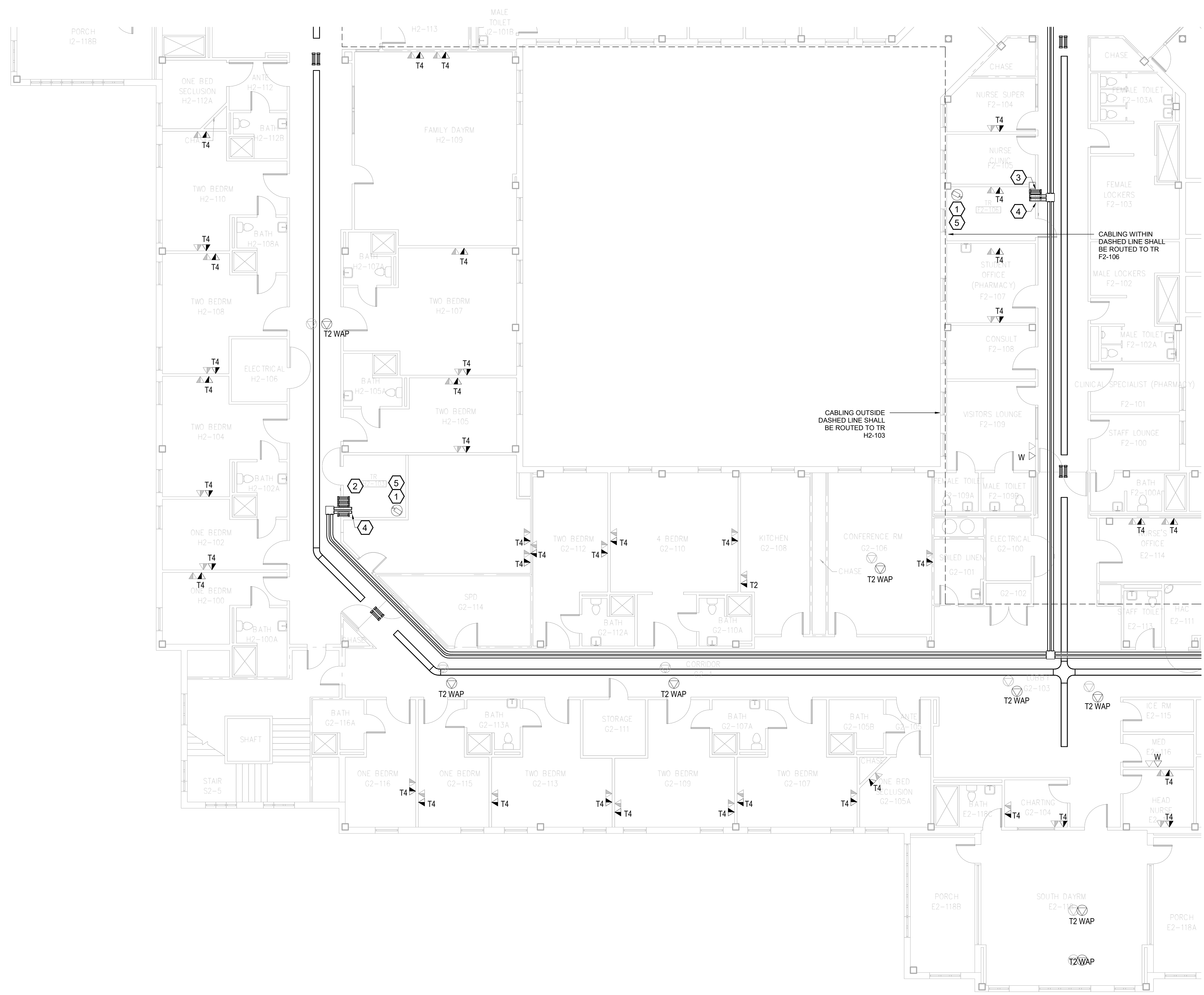
B

C

D

E

F



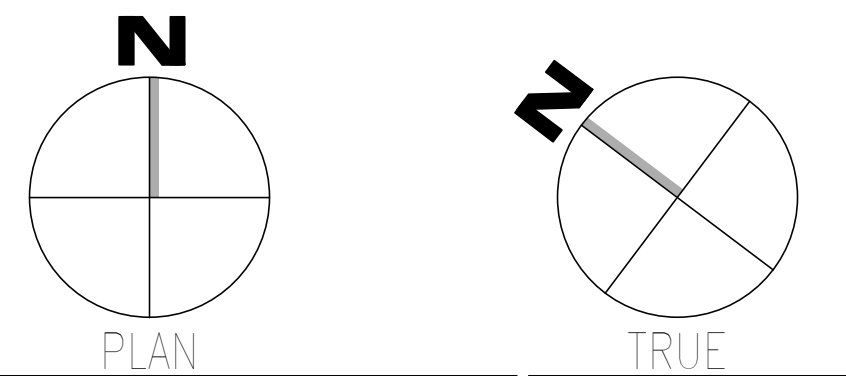
KEYNOTES:

1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CRKP, BMS, EL, REK, SSTV) TO NEW ACS/IDS PCU LOCATION.
2. PROVIDE (5) 4" EMT CONDUIT SLEEVES FROM TR F2-103 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. PROVIDE (3) 4" EMT CONDUIT SLEEVES FROM TR F2-106 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
4. PROVIDE (2) 4" CONDUITS ROUTED THROUGH CORRIDORS FROM MANHOLE TMH31 TO BUILDING 137 TELECOM ROOMS FOR BACKBONE FIBER PATHWAYS. SEE SITE PLAN FOR CONDUIT ROUTE CONTINUATION.
5. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT LOCATION IN ROOM J2-112 FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

F1 PLAN - LEVEL 02 - TELECOM - AREA C
SCALE: 1/8" = 1'-0"



Revisions: Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 137 - LEVEL 02 - AREA C - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104	
						Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 137	
							Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN137.2C

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

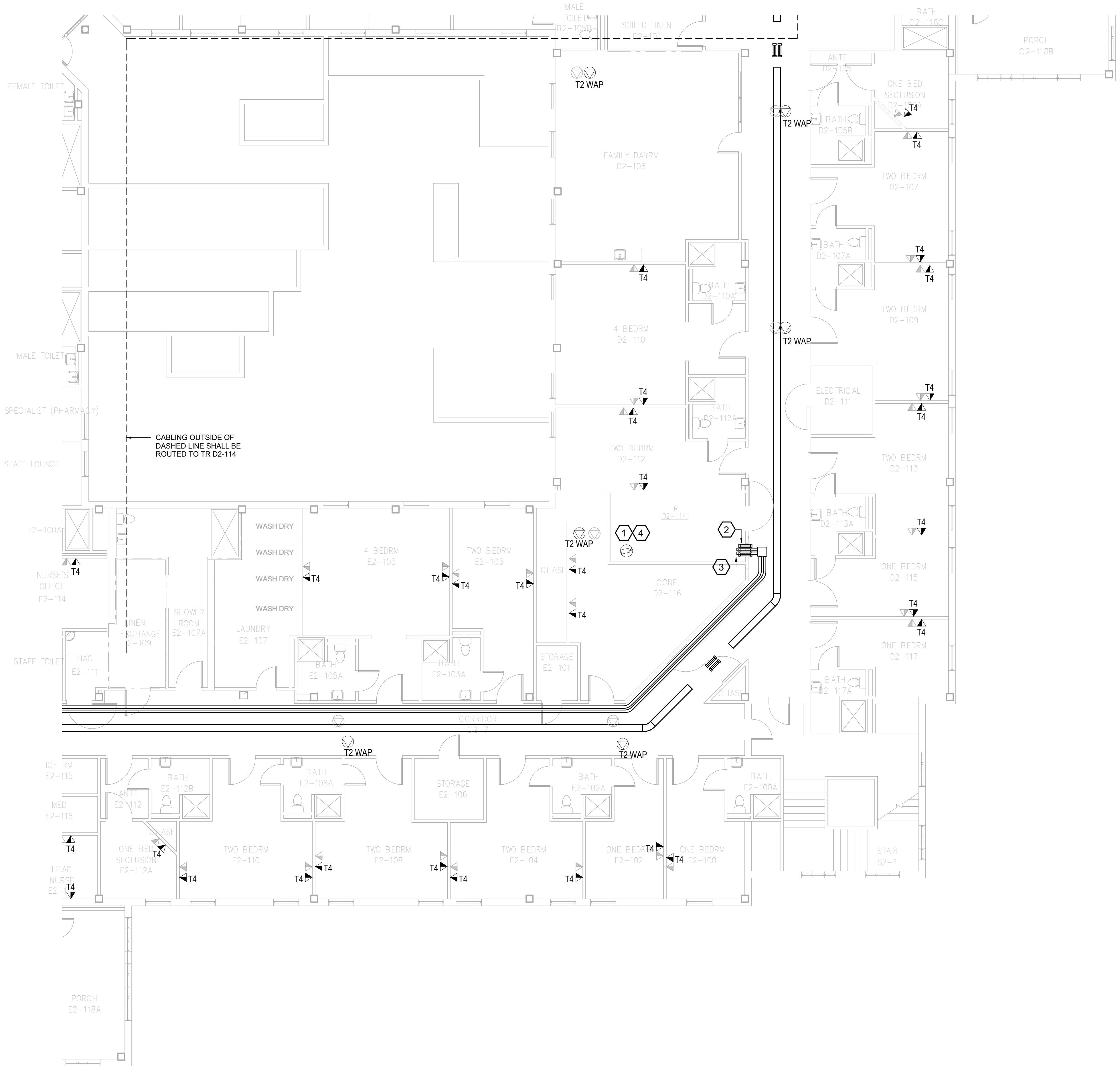
A
B
C
D
E
F

KEYNOTES:

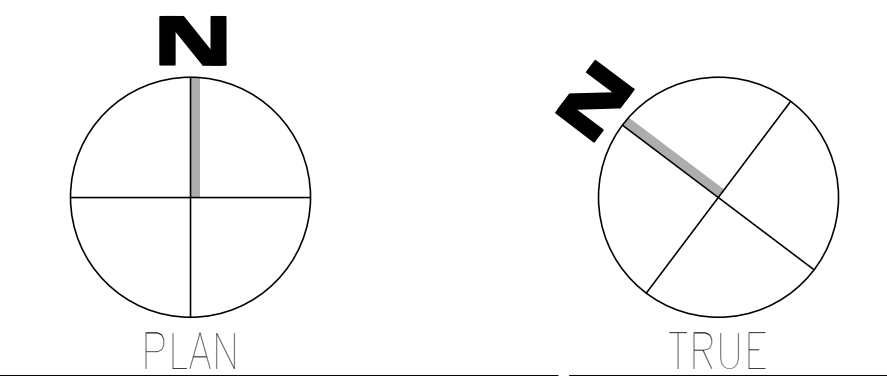
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
2. PROVIDE (6) 4" EMT CONDUIT SLEEVES FROM TR D2-114 TO CABLE TRAY FOR STRUCTURED CABLING PATHWAY.
3. PROVIDE (2) 4" CONDUITS ROUTED THROUGH CORRIDORS FROM MANHOLE TMH31 TO BUILDING 137 TELECOM ROOMS FOR BACKBONE FIBER PATHWAY. SEE SITE PLAN FOR CONDUIT ROUTE CONTINUATION.
4. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT LOCATION IN ROOM J2-112 FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 PLAN - LEVEL 02 - TELECOM - AREA D
SCALE: 1/8" = 1'-0"



Revisions:	Date:

CONSULTANT

WileyWilson
127 Nationwide Drive
Lynchburg, VA 24502
Phone: 434.947.1901
www.wileywilson.com

SPECIALIZED ENGINEERING SOLUTIONS
Specialized Engineering Solutions
1300 Baxter Street, Suite 355
Charlotte, NC 28204

ARCHITECT/ENGINEER OF RECORD

Atriax GROUP
www.atriaxgroup.com

Atriax, pllc
703 Main Avenue SW
PO Box 1629, Hickory, NC 28603
Phone: 828.315.9962
Fax: 828.315.9964

NC Engineering License No.: P-0214
NC Architectural License No.: 51254

Bicsi
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI 107 # 219954
Expires 03/31/25
RCDD
03/08/24

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
BUILDING 137 - LEVEL 02 - AREA D - TELECOM

Approved: Chief Engineer

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE UPGRADES

Location
TUSCALOOSA VAMC, TUSCALOOSA, AL.

Issue Date
03/08/2024

Checked
JMM

Drawn
JEH

Project Number
679-20-104

Building Number
137

Drawing Number
TN137.2D

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

A

B

C

D

E

F

A

B

C

D

E

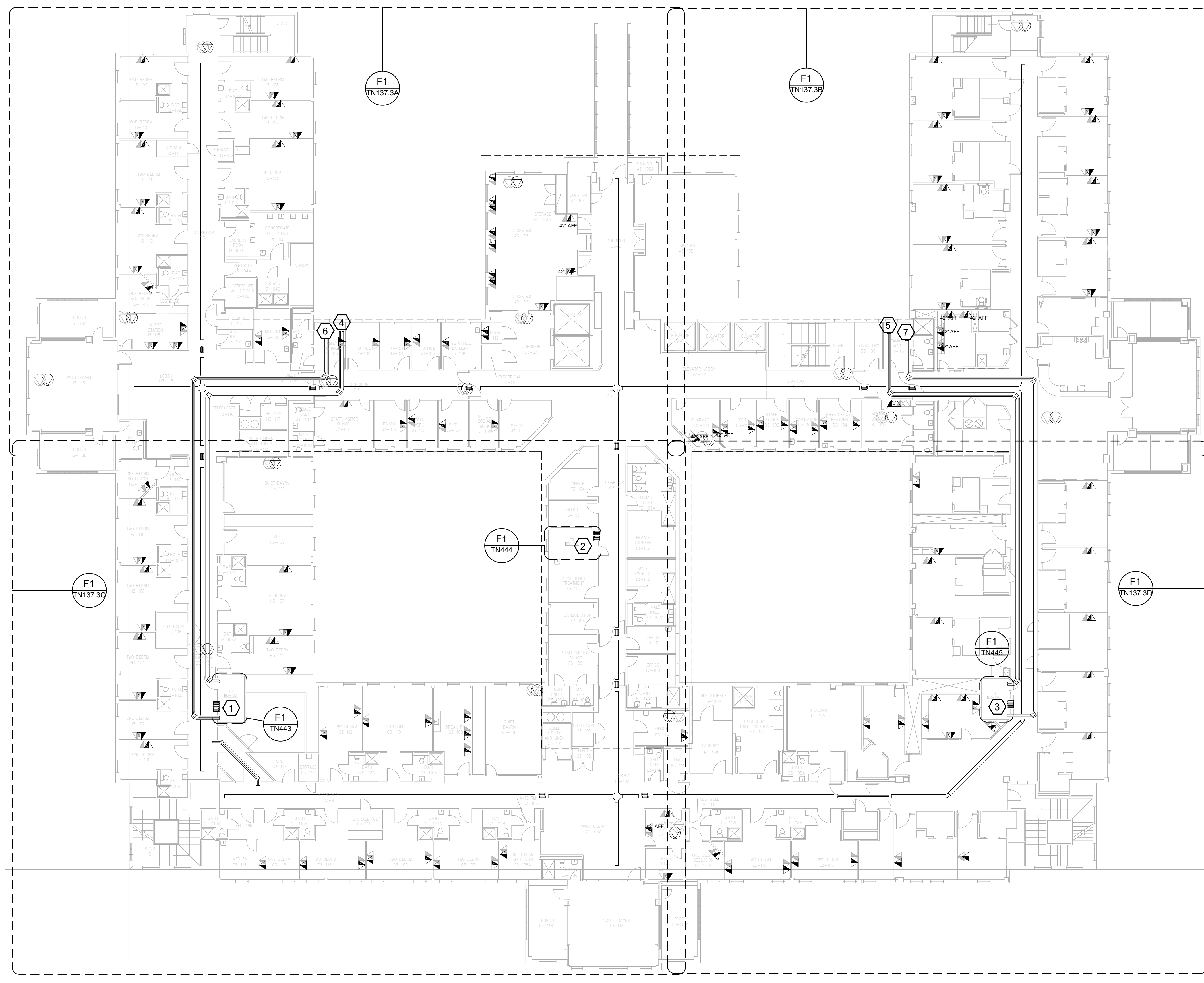
F

KEYNOTES:

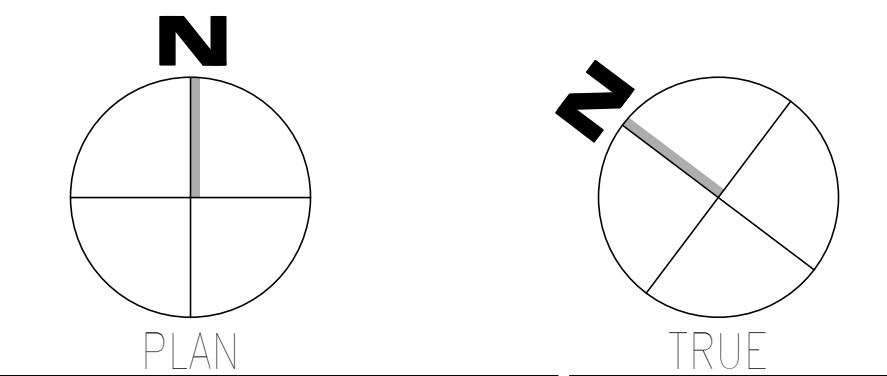
1. PROVIDE (5) 4" EMT CONDUIT SLEEVES FROM TR H3-103 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
2. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR F3-106 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR D3-116 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
4. EXTEND (2) 4" CONDUITS FROM TR H3-103 UP THROUGH CEILING DECK INTO LEVEL 04 TR J4-100 FOR BACKBONE FIBER PATHWAY.
5. EXTEND (2) 4" CONDUITS FROM TR D3-116 UP THROUGH CEILING DECK INTO LEVEL 04 TR B4-107 FOR BACKBONE FIBER PATHWAY.
6. EXTEND (2) 4" CONDUITS FROM TR H3-103 UP THROUGH CEILING DECK INTO LEVEL 04 TR J4-100 FOR BACKBONE FIBER PATHWAY.
7. EXTEND (2) 4" CONDUITS FROM TR D3-116 UP THROUGH CEILING DECK INTO LEVEL 04 TR B4-107 FOR BACKBONE FIBER PATHWAY.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - LEVEL 03
SCALE: 1/16" = 1'-0"



Revisions:	Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD STAMP Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	 REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI 107 # 219954 Expires 03/31/25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 137 - LEVEL 03 - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
							Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 137
							Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN137.3

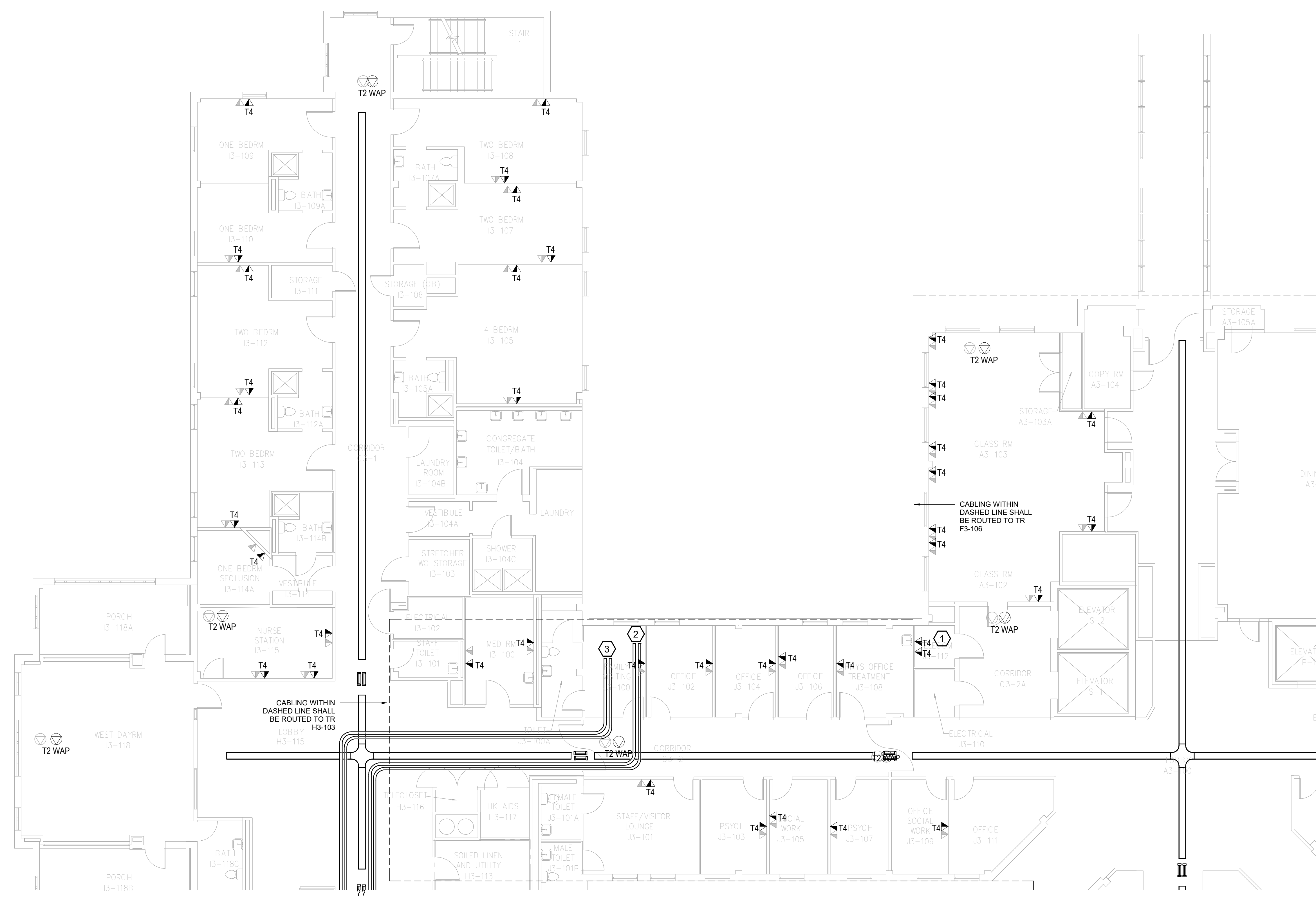
1 2 3 4 5 6 7 8 9 10

KEYNOTES:

- EXISTING TR: COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
- EXTEND (2) 4" CONDUITS FROM TR H3-103 AND UP THROUGH CEILING DECK INTO LEVEL 04 TR J4-100 FOR BACKBONE FIBER PATHWAY.
- EXTEND (2) 4" CONDUITS FROM TR H3-103 AND UP THROUGH CEILING DECK INTO LEVEL 04 TR J4-100 FOR BACKBONE FIBER PATHWAY.

GENERAL NOTES:

- SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 PLAN - LEVEL 03 - TELECOM - AREA A
SCALE: 1/8" = 1'-0"

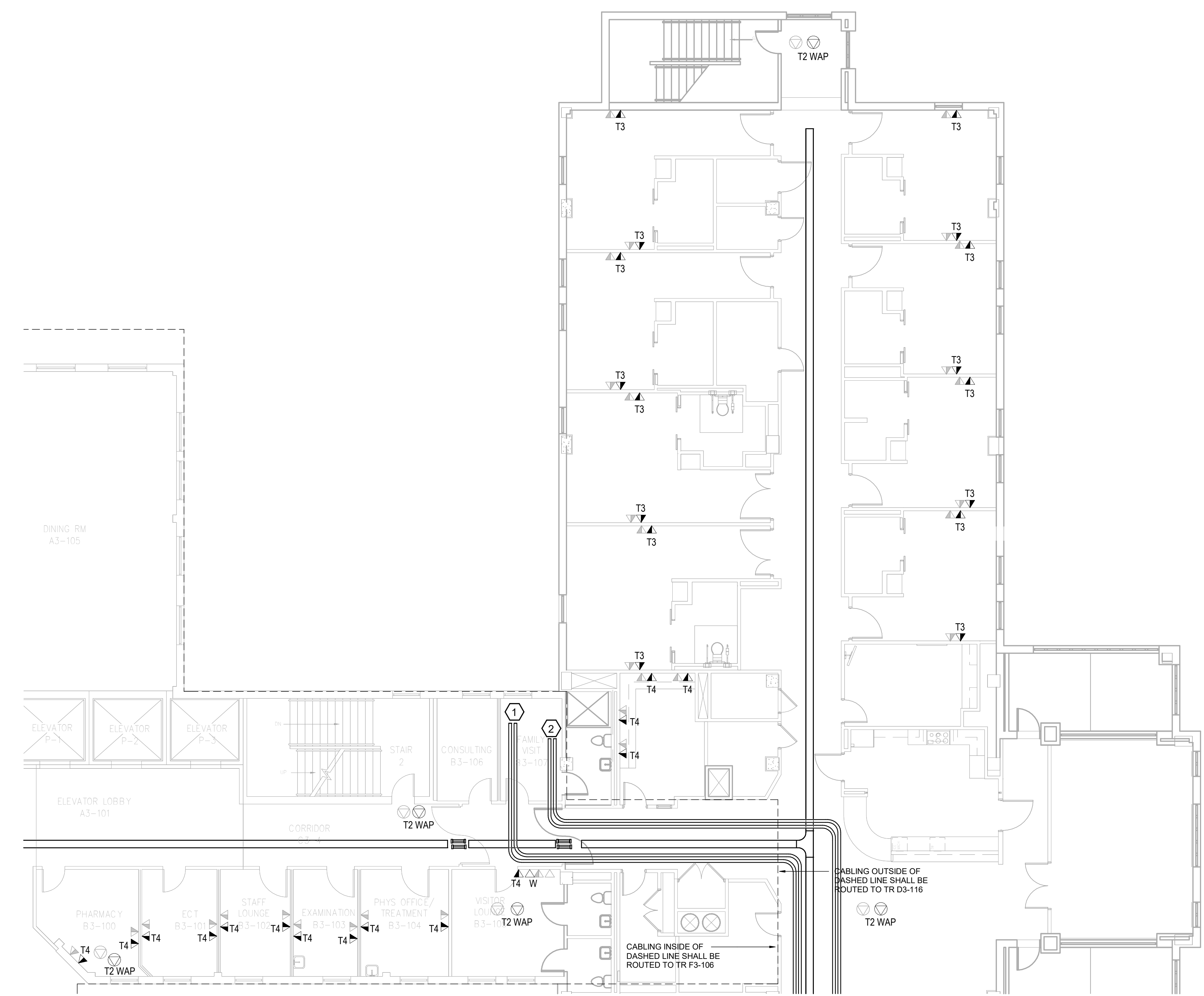
Revisions: 1 Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION TECHNOLOGIST BICSI ID # 239554 Expires 03/31/25 RCDD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 137 - LEVEL 03 - AREA A - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104	
						Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 137	
							Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN137.3A

1 2 3 4 5 6 7 8 9 10

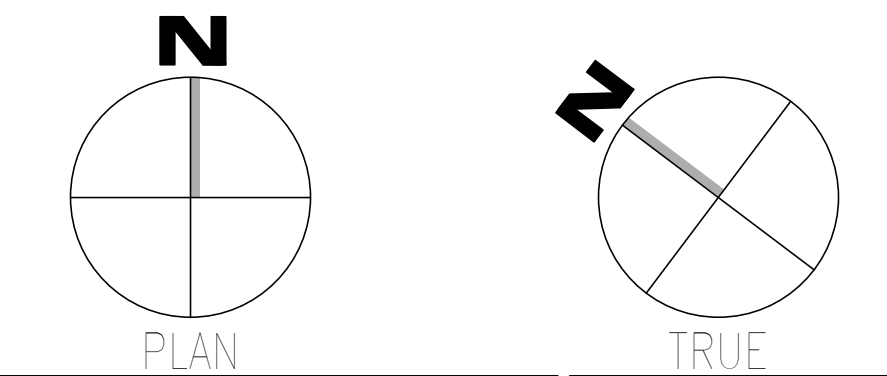
A B C D E F

- KEYNOTES:**
- EXTEND (2) 4" CONDUITS FROM TR D3-116 AND UP THROUGH CEILING DECK INTO LEVEL 04 TR B4-107 FOR BACKBONE FIBER PATHWAY.
 - EXTEND (2) 4" CONDUITS FROM TR D3-116 AND UP THROUGH CEILING DECK INTO LEVEL 04 TR B4-107 FOR BACKBONE FIBER PATHWAY.

- GENERAL NOTES:**
- SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
 - SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
 - ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
 - PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
 - CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
 - MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
 - ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
 - ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 PLAN - LEVEL 03 - TELECOM - AREA B
SCALE: 1/8" = 1'-0"



Revisions: 1 2 3 4 5 6 7 8 9 10	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi Registered Communications Distributor BICSI 107 # 219554 Expires 03/31/25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 137 - LEVEL 03 - AREA B - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104	
						Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 137	
							Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN137.3B

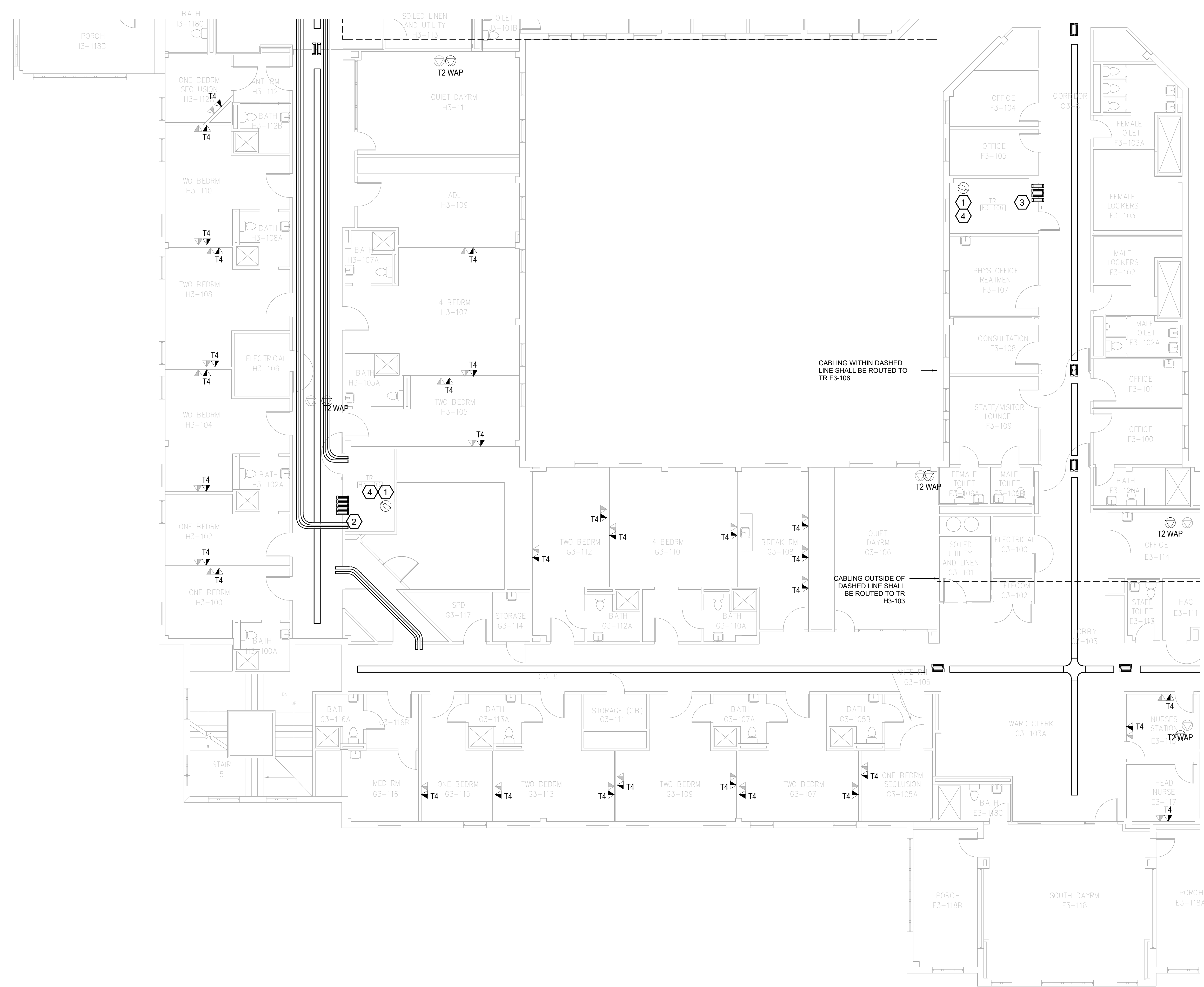
1 2 3 4 5 6 7 8 9 10

KEYNOTES:

1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CRKP, BMS, EL. REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
2. PROVIDE (5) 4" EMT CONDUIT SLEEVES FROM TR H3-103 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR F3-106 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
4. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT LOCATION IN ROOM J2-112 FOR TERMINATION.

GENERAL NOTES:

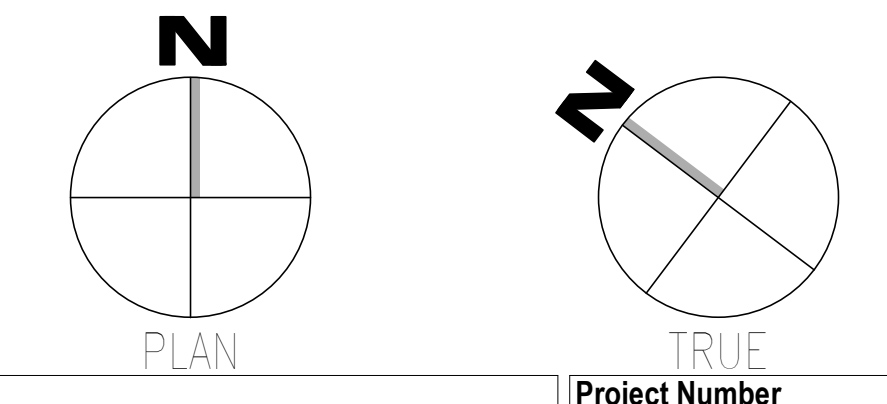
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



CABLING WITHIN DASHED LINE SHALL BE ROUTED TO TR F3-106

CABLING OUTSIDE OF DASHED LINE SHALL BE ROUTED TO TR H3-103

F1 PLAN - LEVEL 03 - TELECOM - AREA C
SCALE: 1/8" = 1'-0"



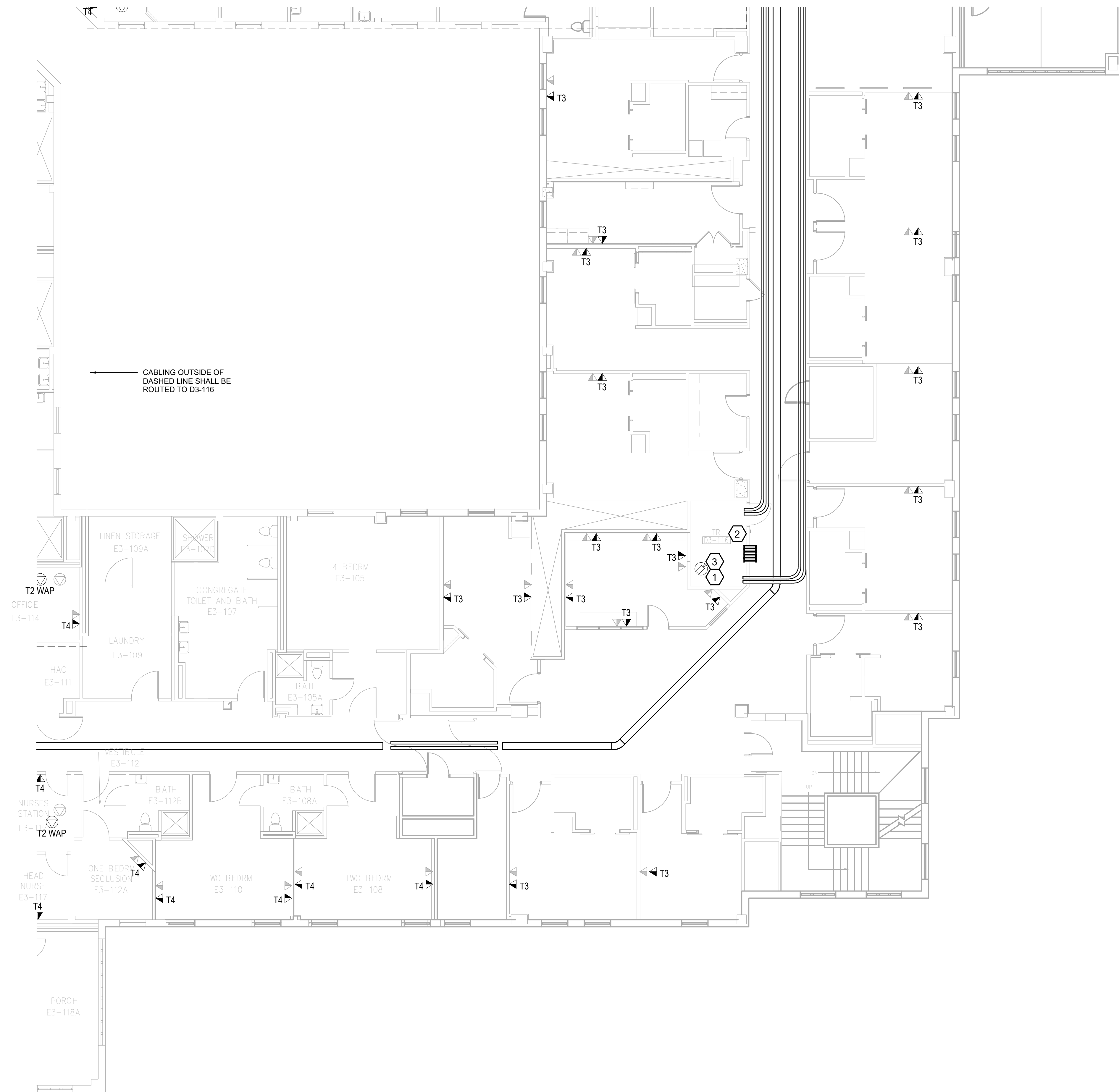
Revisions: 1 2 3 4 5 6 7 8 9 10	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP REGISTERED COMMUNICATIONS DISTRIBUTION TECHNOLOGIST Bicsi Joseph McNeil BICSI ID # 239954 Expires 03/31/25 RCDD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 137 - LEVEL 03 - AREA C - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
						Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 137
						Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN137.3C

KEYNOTES:

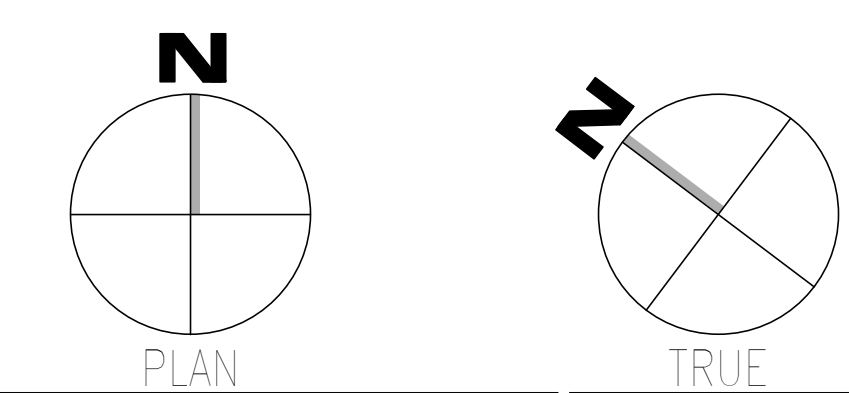
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CRKP, BMS, EL, REK, SSTV) TO NEW ACS/IDS PCU LOCATION.
2. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR D3-116 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT LOCATION IN ROOM J2-112 FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 PLAN - LEVEL 03 - TELECOM - AREA D
SCALE: 1/8" = 1'-0"



CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi Registered Communications Distributor BICSI 107 # 219954 Expires 03/31/25 RCDD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 137 - LEVEL 03 - AREA D - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
				Approved: Chief Engineer	Fully Sprinklered FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 137
Revisions:	Date:	Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN137.3D		

1 2 3 4 5 6 7 8 9 10

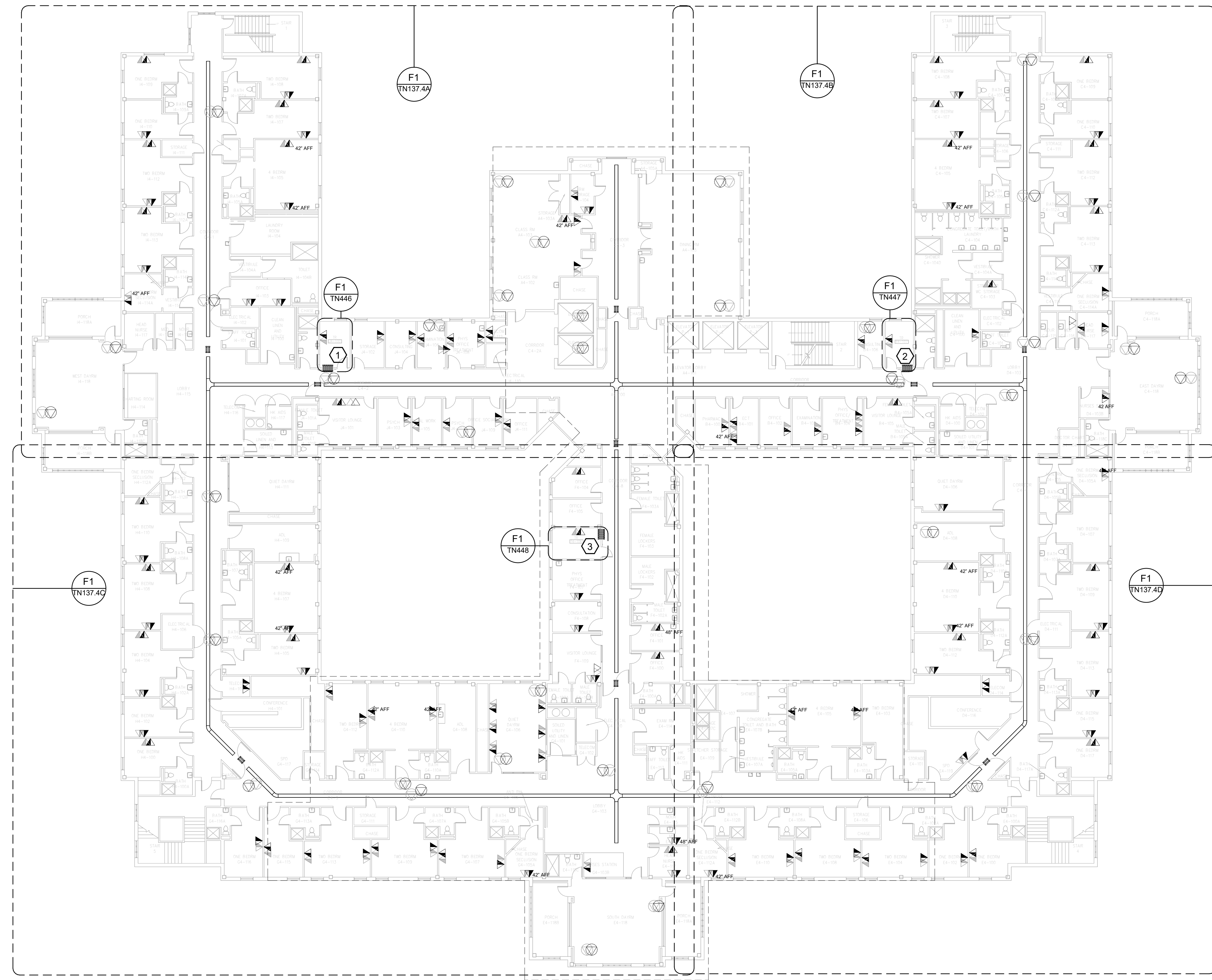
A B C D E F

KEYNOTES:

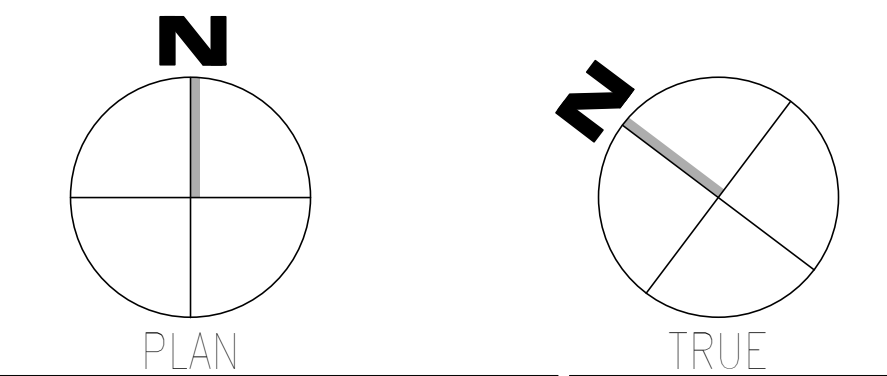
1. PROVIDE (5) 4" EMT CONDUIT SLEEVES FROM TR J4-100 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
2. PROVIDE (5) 4" EMT CONDUIT SLEEVES FROM TR B4-107 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. PROVIDE (5) 4" EMT CONDUIT SLEEVES FROM TR F3-106.2 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - LEVEL 04
SCALE: 1/16" = 1'-0"

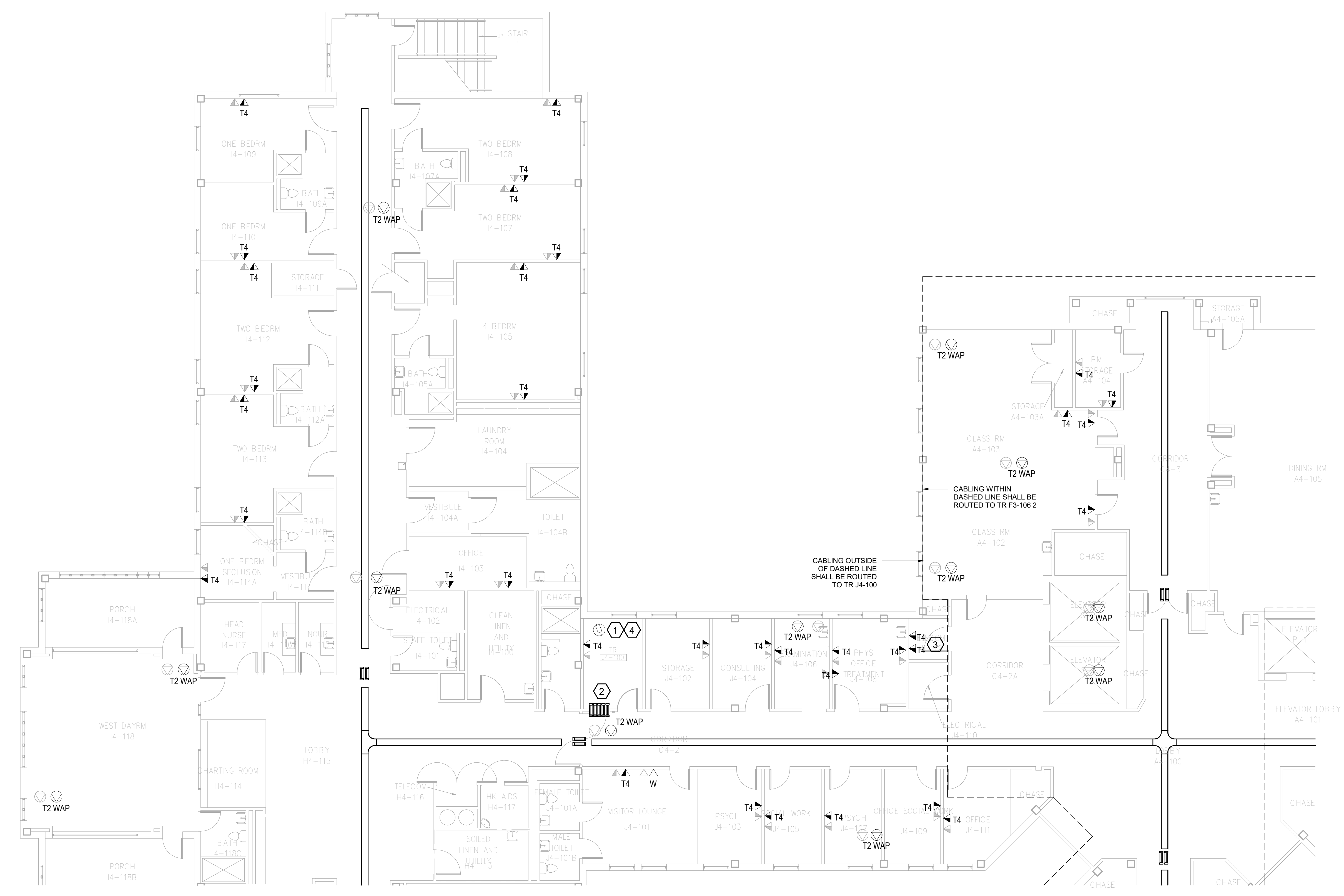


CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 137 - LEVEL 04 - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
					Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 137
Revisions:		Date:		Issue Date 03/08/2024		Checked JMM	Drawn JEH	Drawing Number TN137.4

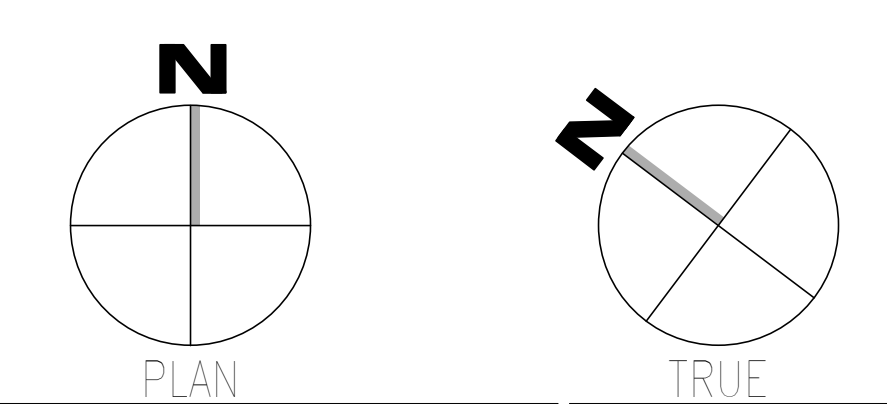
1 2 3 4 5 6 7 8 9 10

- KEYNOTES:**
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
 2. PROVIDE (5) 4" EMT CONDUIT SLEEVES FROM TR J4-100 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
 3. EXISTING TR: COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
 4. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT LOCATION IN ROOM J2-112 FOR TERMINATION.

- GENERAL NOTES:**
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
 - B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
 - C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
 - D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
 - E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
 - F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
 - G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
 - H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 PLAN - LEVEL 04 - TELECOM - AREA A
SCALE: 1/8" = 1'-0"



Revisions: Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI ID # 239554 Expires 03/31/25 RCDD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 137 - LEVEL 04 - AREA A - TELECOM Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES Project Number 679-20-104 Building Number 137	Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024 Checked JMM Drawn JEH	Drawing Number TN137.4A
	FULLY SPRINKLERED								

1 2 3 4 5 6 7 8 9 10

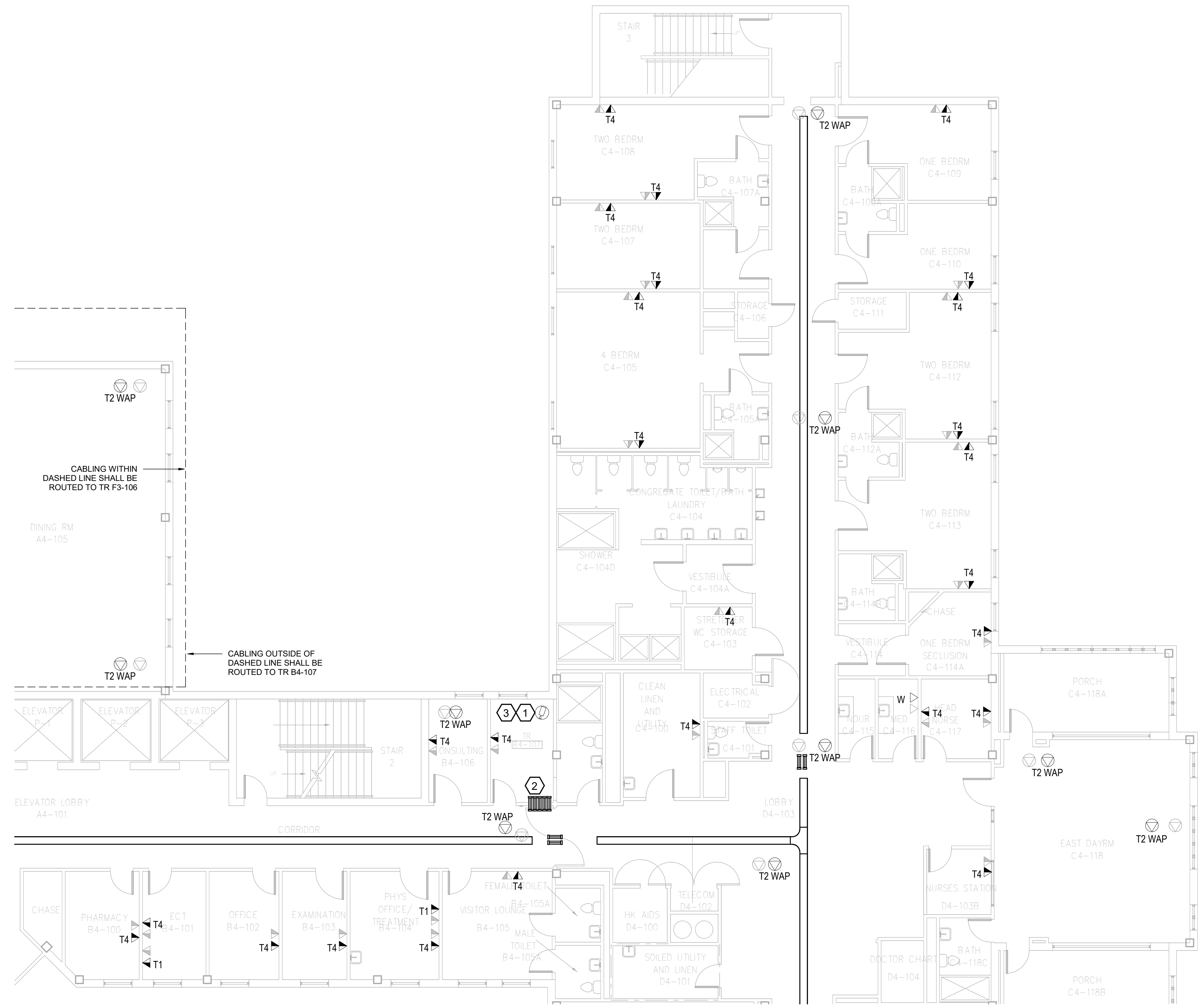
A
B
C
D
E
F

KEYNOTES:

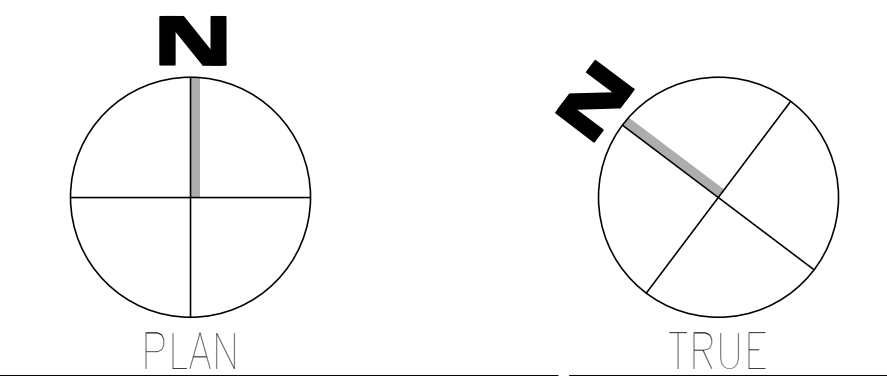
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CRKP, BMS, EL, REK, SSTV) TO NEW ACS/IDS PCU LOCATION.
2. PROVIDE (5) 4" EMT CONDUIT SLEEVES FROM TR B4-107 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT LOCATION IN ROOM J2-112 FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 PLAN - LEVEL 04 - TELECOM - AREA B
SCALE: 1/8" = 1'-0"



Revisions: 1 2 3 4 5 6 7 8 9 10	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi Registered Communications Distributor License No. 239954 Expires 03/31/25 RCDD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 137 - LEVEL 04 - AREA B - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
						Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Drawing Number TN137.4B

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

A

B

C

D

E

F

KEYNOTES:

1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACSIDS PCU LOCATION.
2. PROVIDE (5) 4" EMT CONDUIT SLEEVES FROM TR F3-106 2 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. EXISTING TR: COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
4. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT LOCATION IN ROOM J2-112 FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRS SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 PLAN - LEVEL 04 - TELECOM - AREA C
SCALE: 1/8" = 1'-0"

Revisions:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		ARCHITECT/ENGINEER OF RECORD Atriax www.atriaxgroup.com Atriax, plc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254		Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title BUILDING 137 - LEVEL 04 - AREA C - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
	Date:	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION TECHNOLOGIST BICSI 107 239954 E-00000000-25 RCDD 03/08/24	Approved: Chief Engineer		FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Drawing Number TN137.4C	

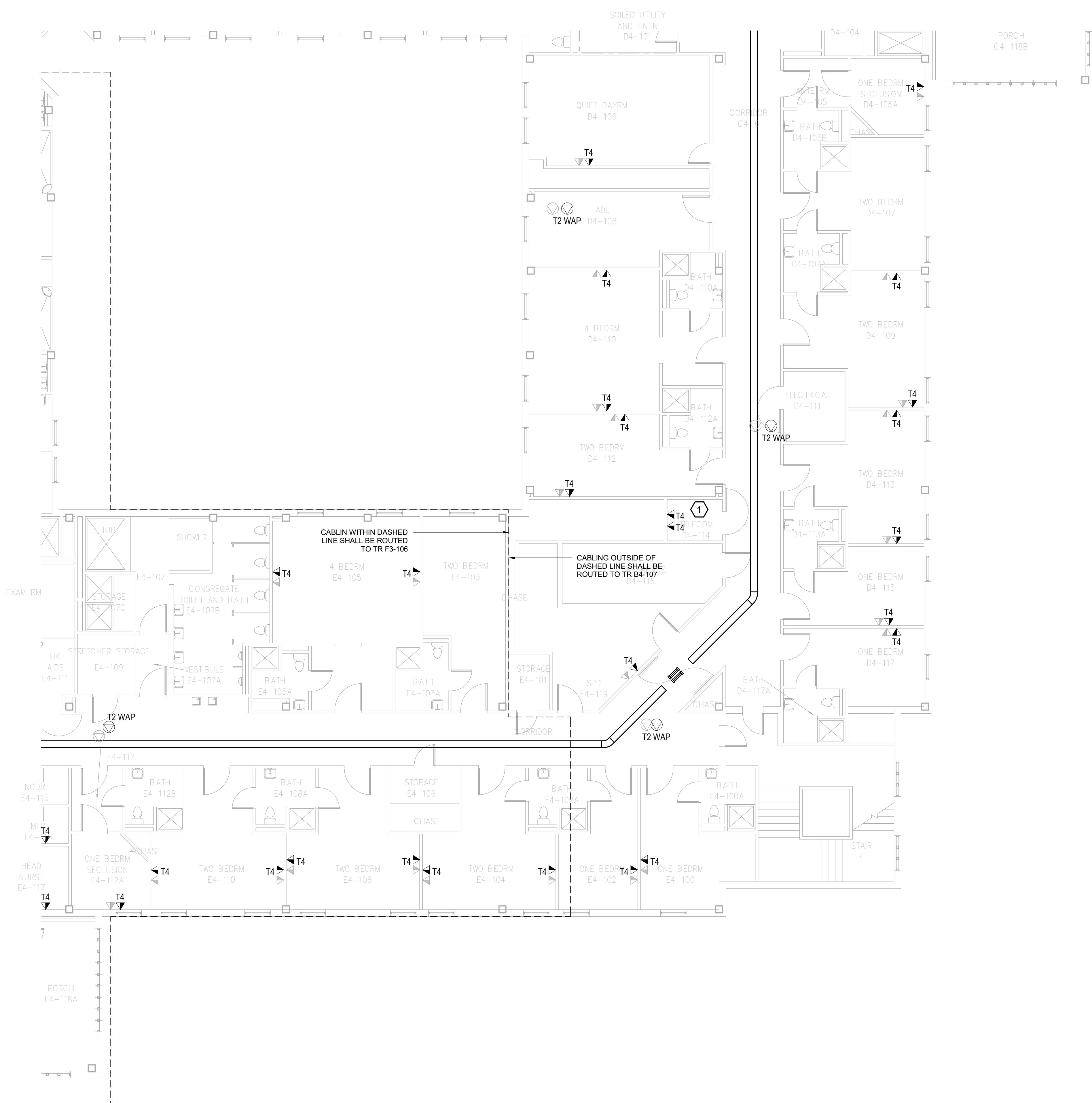
1 2 3 4 5 6 7 8 9 10

KEYNOTES:

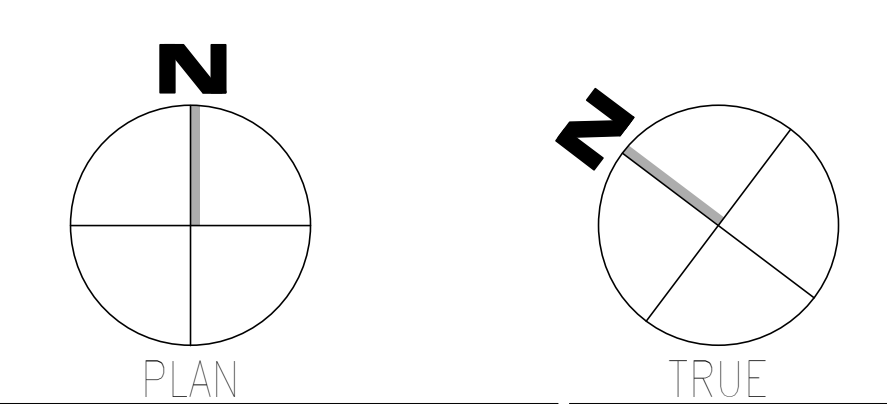
- EXISTING TR; COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.

GENERAL NOTES:

- SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 PLAN - LEVEL 04 - TELECOM - AREA D
SCALE: 1/8" = 1'-0"

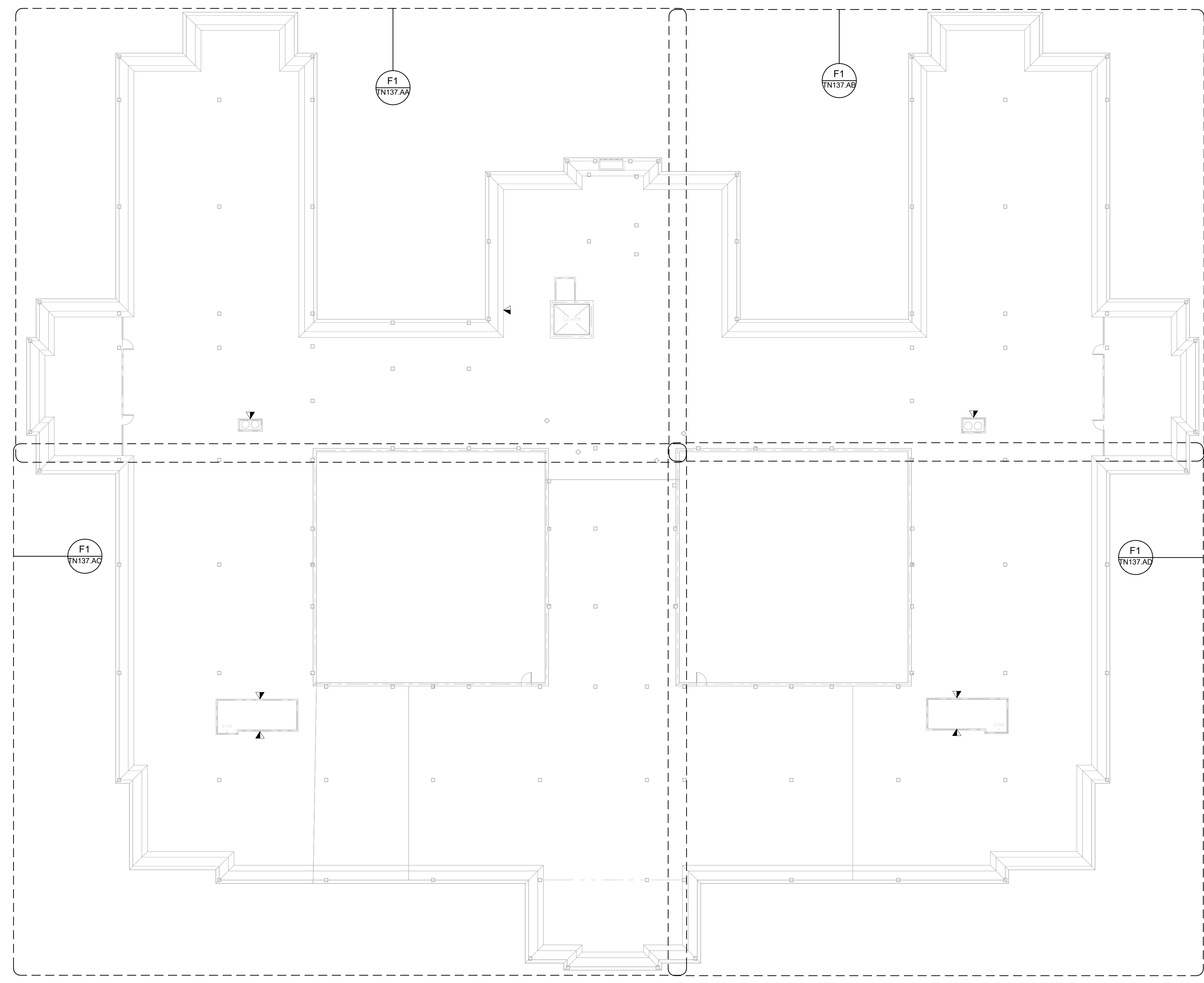


CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi Registered Communications Distributor BICSI 1078239954 Expires 03/31/25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 137 - LEVEL 04 - AREA D - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
				Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 137
Revisions:	Date:	Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN137.4D		

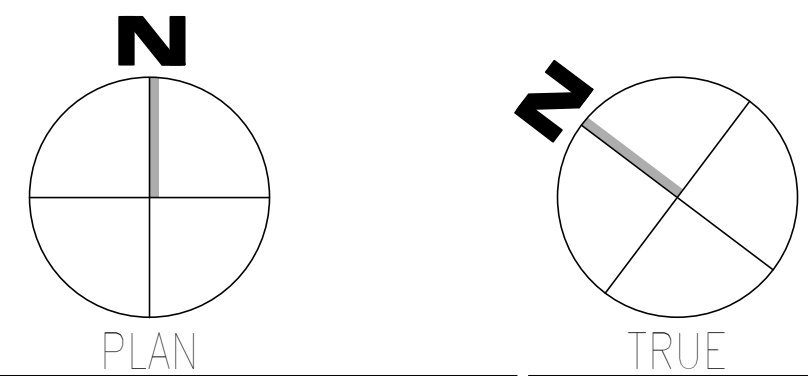
1 2 3 4 5 6 7 8 9 10

A
B
C
D
E
F

- GENERAL NOTES:**
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
 - B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
 - C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
 - D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
 - E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
 - F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
 - G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
 - H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - ATTIC LEVEL
SCALE: 1/16" = 1'-0"



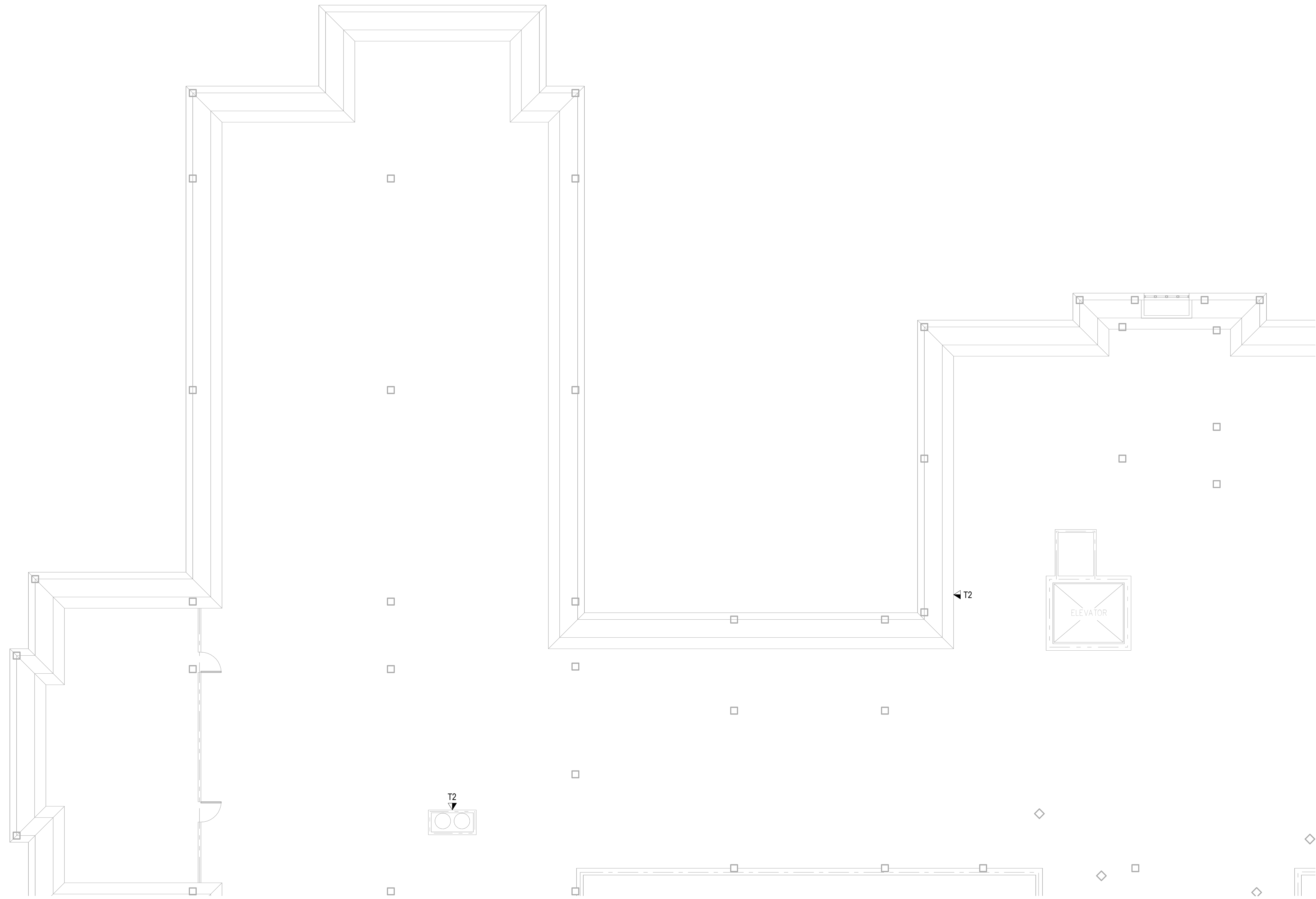
Revisions: Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi Registered Communications Distributor BICSI ID # 219954 Expires 03/31/25 RCDD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 137 - ATTIC LEVEL - TELECOM Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Issue Date 03/08/2024	Checked JMM	Drawn JEH	Building Number 137	Drawing Number TN137.A		

1 2 3 4 5 6 7 8 9 10

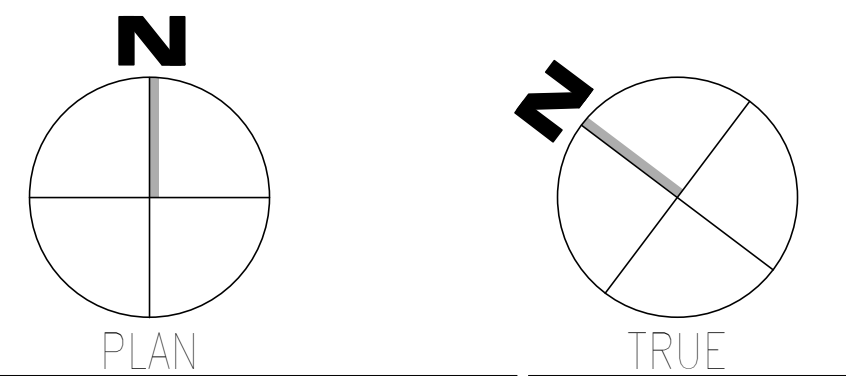
1 2 3 4 5 6 7 8 9 10

A
B
C
D
E
F

- GENERAL NOTES:**
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
 - B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
 - C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
 - D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
 - E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
 - F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
 - G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
 - H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 PLAN - ATTIC LEVEL - TELECOM - AREA A
SCALE: 1/8" = 1'-0"



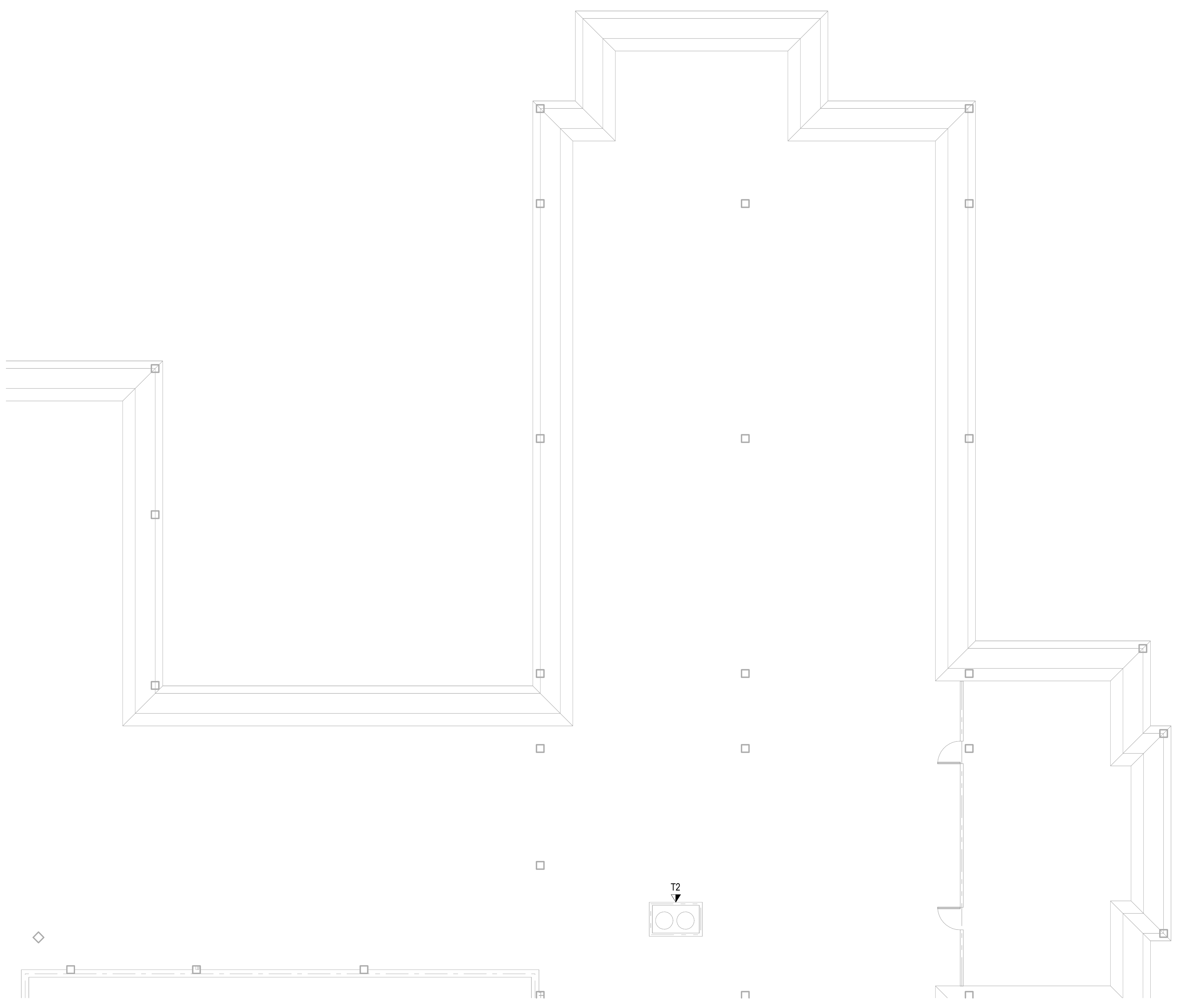
Revisions: Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi Registered Communications Distributor BICSI ID # 239554 Expires 03/31/25 RCDD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 137 - ATTIC LEVEL - AREA A - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
	Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Issue Date 03/08/2024	Checked JMM	Drawn JEH	Building Number 137	Drawing Number TN137.AA	

1 2 3 4 5 6 7 8 9 10

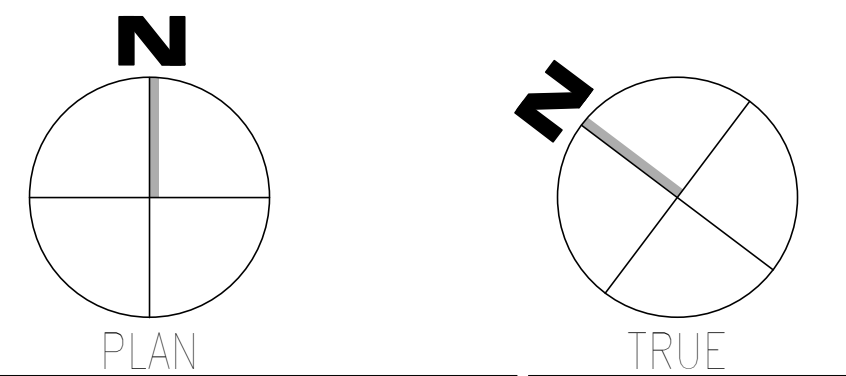
1 2 3 4 5 6 7 8 9 10

A
B
C
D
E
F

- GENERAL NOTES:**
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
 - B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
 - C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
 - D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
 - E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
 - F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
 - G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
 - H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 PLAN - ATTIC LEVEL - TELECOM - AREA B
SCALE: 1/8" = 1'-0"



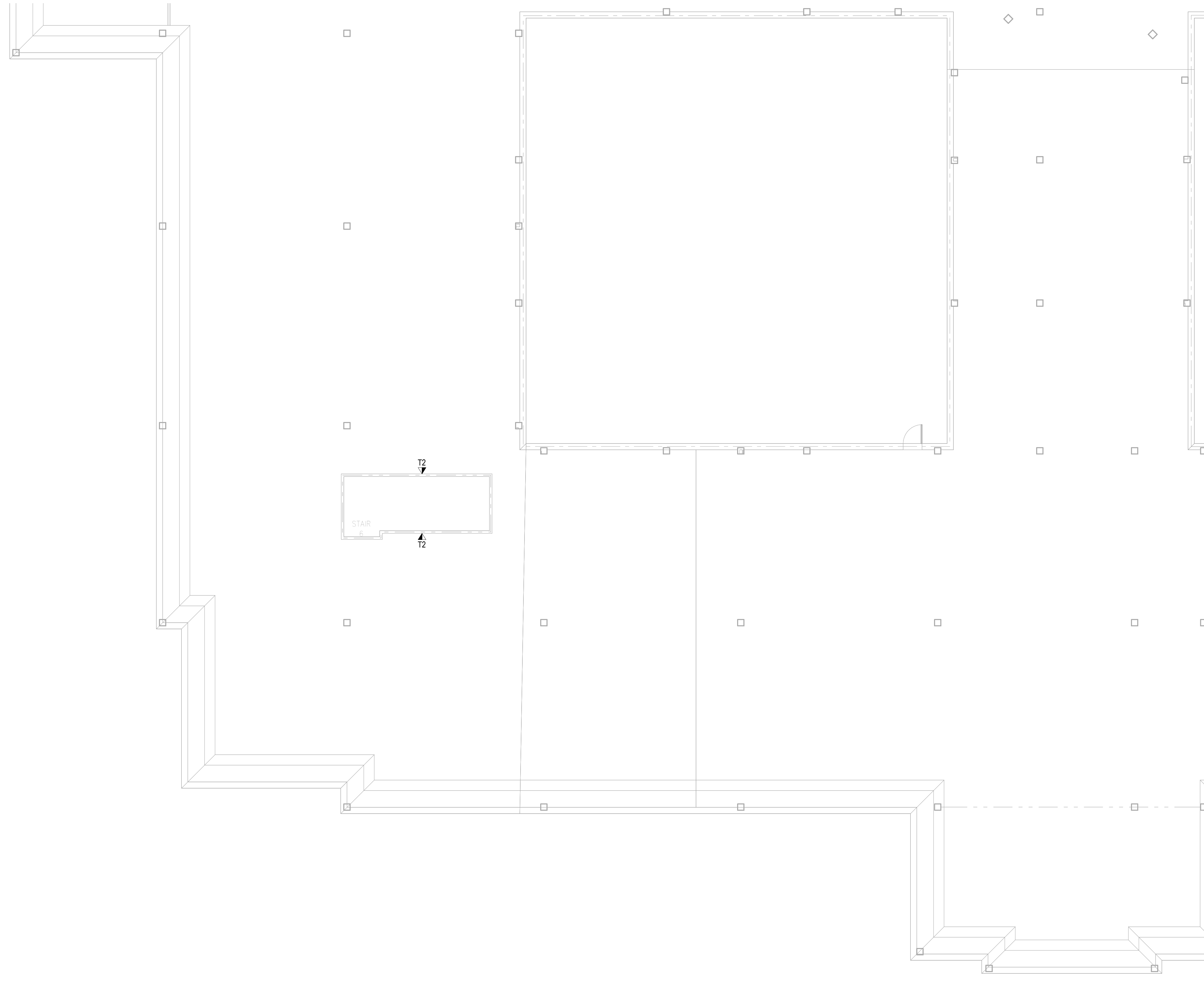
Revisions: 1 Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	 SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP BICSI Registered Communications Distributor BICSI ID # 219954 Expires 03/31/25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 137 - ATTIC LEVEL - AREA B - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104		
						Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 137		
								Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN137.AB

1 2 3 4 5 6 7 8 9 10

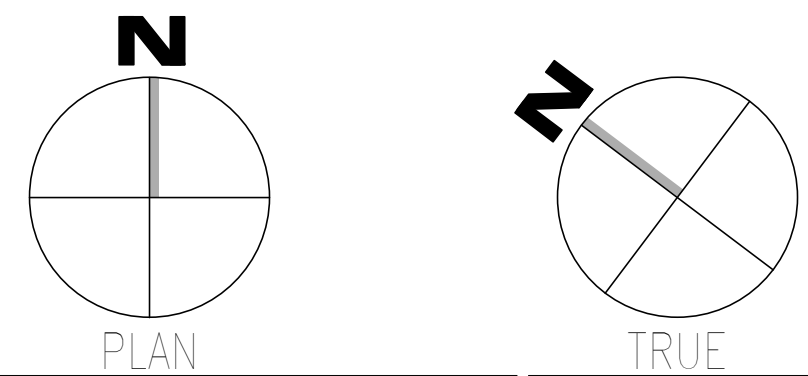
1 2 3 4 5 6 7 8 9 10

A
B
C
D
E
F

- GENERAL NOTES:**
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
 - B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
 - C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
 - D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
 - E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
 - F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
 - G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
 - H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR's SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 PLAN - ATTIC LEVEL - TELECOM - AREA C
SCALE: 1/8" = 1'-0"

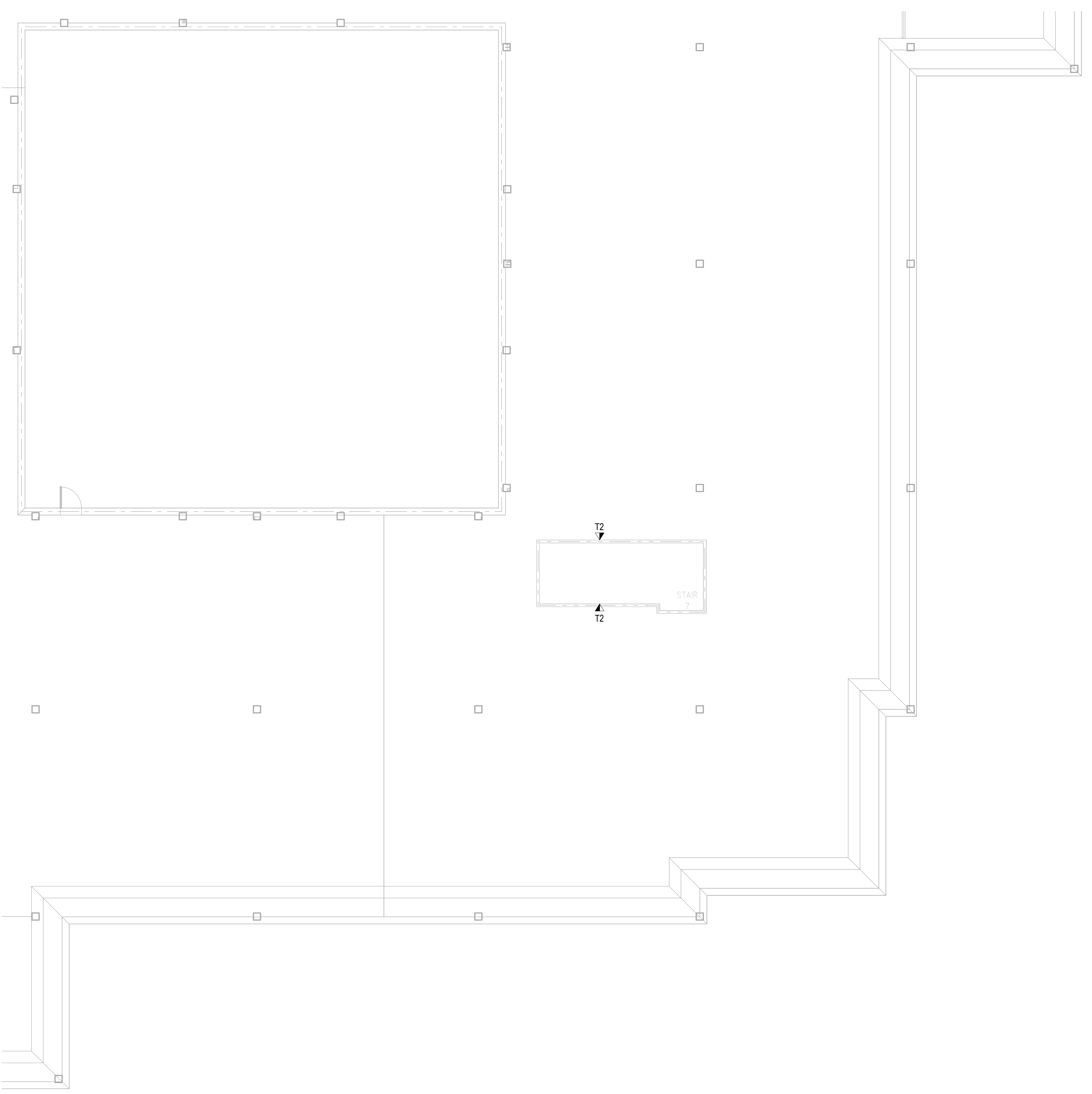


<p>CONSULTANT</p> <p>Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>		<p>SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>		<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax GROUP www.atriaxgroup.com</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>		<p>STAMP</p> <p>Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICS11078239554 Expires 03/31/25 RCDD 03/08/24</p>		<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>		<p>Drawing Title BUILDING 137 - ATTIC LEVEL - AREA C - TELECOM</p> <p>Approved: Chief Engineer</p>		<p>Phase 100% CONSTRUCTION DOCUMENTS</p> <p>FULLY SPRINKLERED</p>		<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p> <p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>		<p>Project Number 679-20-104</p> <p>Building Number 137</p> <p>Drawing Number TN137.AC</p>	
<p>Revisions:</p>		<p>Date:</p>		<p>Issue Date 03/08/2024</p>		<p>Checked JMM</p>		<p>Drawn JEH</p>		<p>Issue Date 03/08/2024</p>		<p>Checked JMM</p>		<p>Drawn JEH</p>			

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

A
B
C
D
E
F

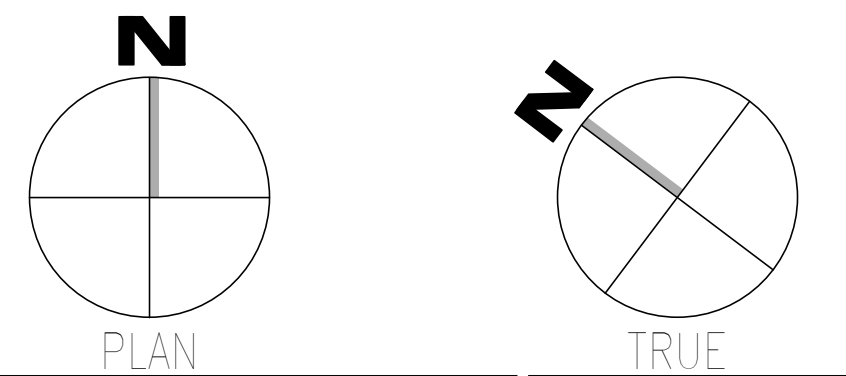


GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

A
B
C
D
E
F

F1 PLAN - ATTIC LEVEL - TELECOM - AREA D
SCALE: 1/8" = 1'-0"



Revisions: 1 Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	 SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	 REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI 3004 J.M. McMillan Blvd. BICSI 107 # 219954 Evansville, IN 47917-2525 RCDD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 137 - ATTIC LEVEL - AREA D - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
						Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 137
						Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN137.AD

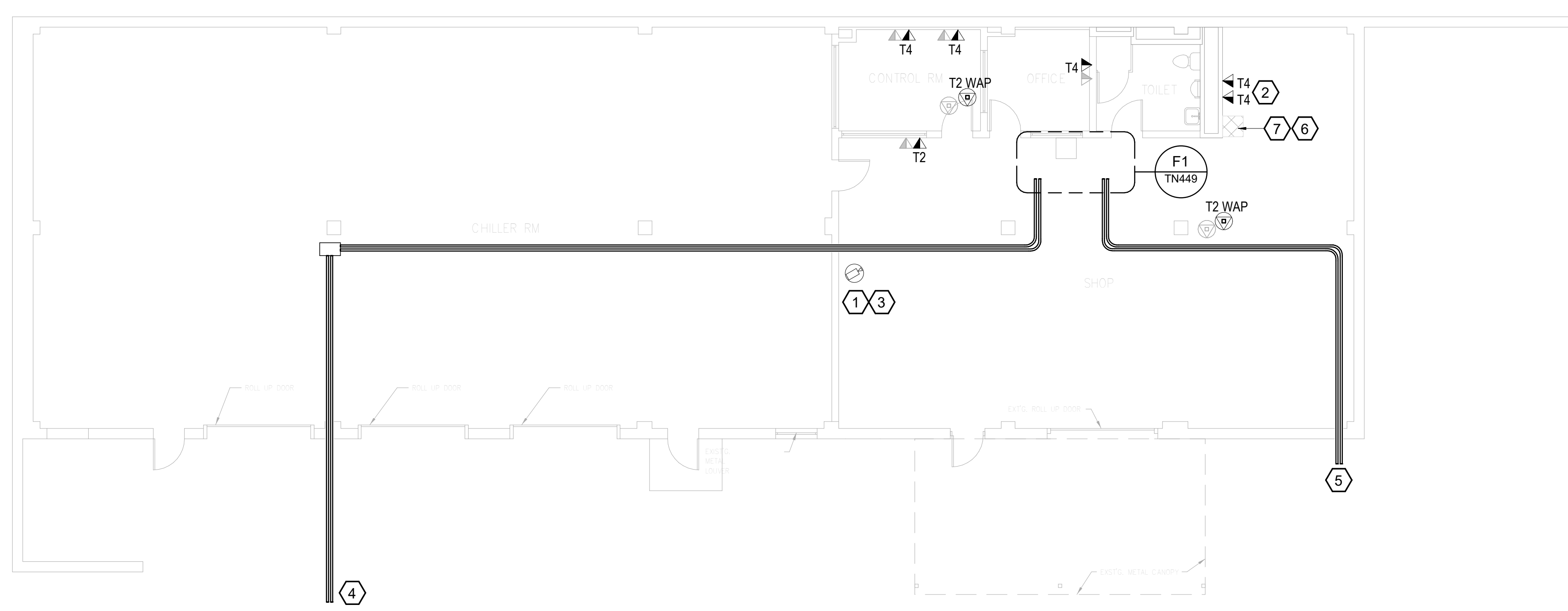
1 2 3 4 5 6 7 8 9 10

KEYNOTES:

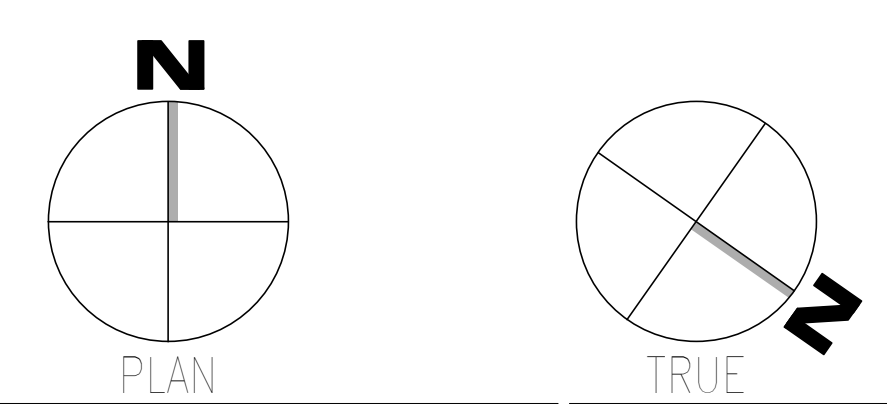
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACCESS PCU LOCATION.
2. EXISTING TR, COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
3. ROUTE CONDUIT AND CABLE FOR CAMERA TO NEW CCTV EQUIPMENT LOCATION IN FOR TERMINATION.
4. EXTEND (2) 4" CONDUITS TO TMH19 FOR BACKBONE FIBER PATHWAYS.
5. EXTEND (2) 4" CONDUITS TO TMH19 FOR BACKBONE FIBER PATHWAYS.
6. PROVIDE 6 STRAND MULTI-MODE INDOOR/OUTDOOR RATED FIBER TO EXISTING CCTV EQUIPMENT LOCATION IN BUILDING 18 FOR CONNECTION TO CCTV NETWORK.
7. PROVIDE (1) 8RU OPEN FRAME WALL MOUNT RACK WITH RACK MOUNTED FIBER ENCLOSURE AND COPPER PATCH PANEL FOR THE TERMINATION OF FIBER AND CAT 6A CABLES FOR CAMERAS.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 9" FROM TR WALLS.



F1 OVERALL PLAN - GROUND LEVEL - TELECOM
SCALE: 1/8" = 1'-0"



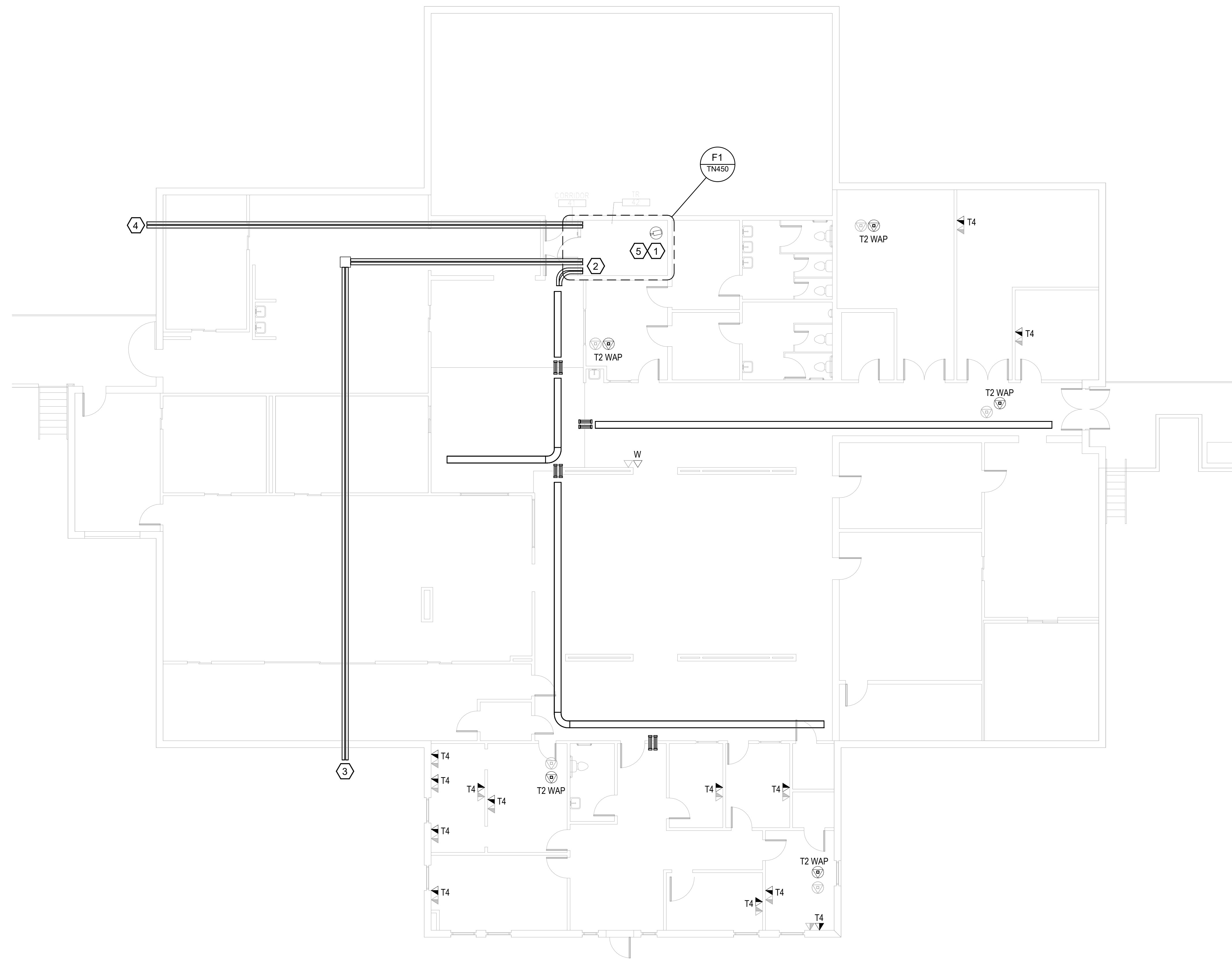
Revisions: _____ Date: _____	CONSULTANT 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP REGISTERED COMMUNICATIONS DISTRIBUTOR DESIGNER Bicsi 3000 N. Main Street BICSI 107 # 219554 Expires 03/31/25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 138 - GROUND LEVEL - TELECOM Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104 Building Number 138	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Drawing Number TN138.0
	FULLY SPRINKLERED	Issue Date 03/08/2024	Checked JMM	Drawn JEH							

KEYNOTES:

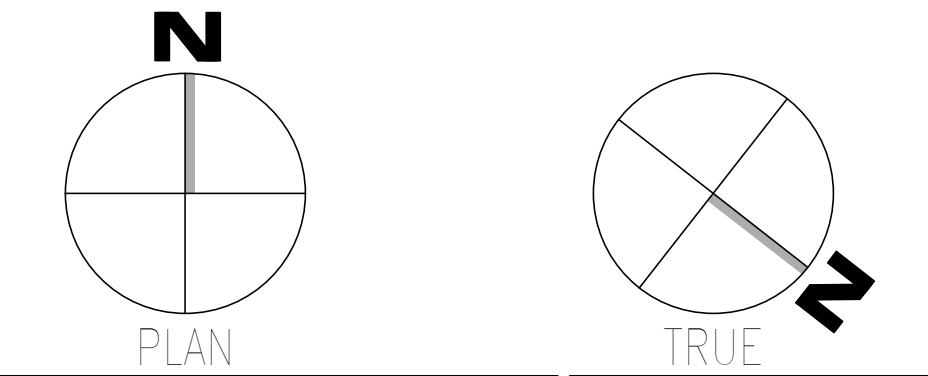
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CRKP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
2. PROVIDE (2) 4" EMT CONDUITS FROM TR 42 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. (2) 4" CONDUITS FROM TMH10 TO TR 42 FOR BACKBONE FIBER PATHWAY. REFER TO SITE PLAN FOR CONDUIT CONTINUATION.
4. (2) 4" CONDUITS FROM TMH07 TO TR 42 FOR BACKBONE FIBER PATHWAY. REFER TO SITE PLAN FOR CONDUIT CONTINUATION.
5. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT LOCATION IN ROOM 43 FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 90 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR's SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - LEVEL 01 - TELECOM
SCALE: 1/8" = 1'-0"



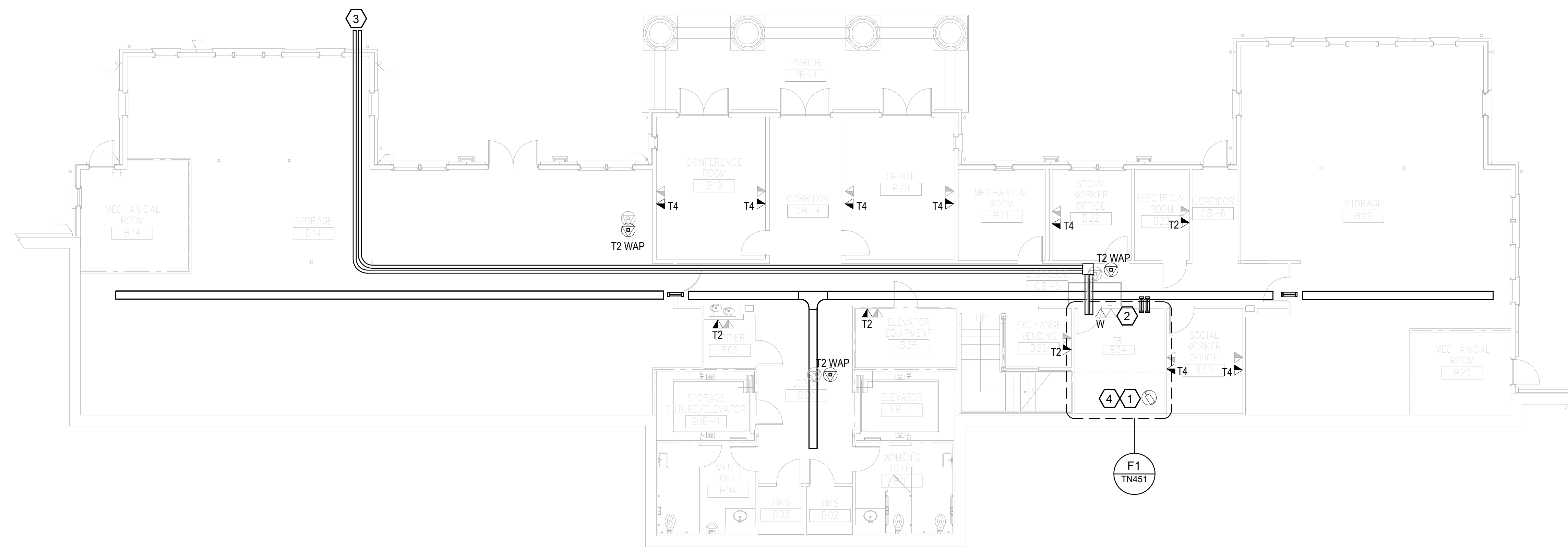
Revisions: _____ Date: _____	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi Registered Communications Distributor BICSI 107 # 239554 Expires 03-25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 143 - LEVEL 01 - TELECOM Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104 Building Number 143	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN143.1
	FULLY SPRINKLERED													

KEYNOTES:

1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS FCU LOCATION.
2. PROVIDE (2) 4" EMT CONDUITS FROM TR B34 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. EXTEND (2) 4" CONDUITS FROM TR B34 TO HANDHOLE THH02 FOR PATHWAY TO BUILDING 149 THROUGH THE COURTYARD FOR BACKBONE FIBER PATHWAY BETWEEN BUILDINGS 145 AND 149. REFER TO SITE PLAN FOR CONDUIT CONTINUATION.
4. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT LOCATION IN ROOM B34 FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 90 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - BASEMENT LEVEL - TELECOM
SCALE: 1/8" = 1'-0"

CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204		ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254		STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI 107 # 239554 Expires 03/25-26 RCD 03/08/24		Office of Construction and Facilities Management U.S. Department of Veterans Affairs		Drawing Title BUILDING 145 - BASEMENT LEVEL - TELECOM		Phase 100% CONSTRUCTION DOCUMENTS		Project Title EHRM INFRASTRUCTURE UPGRADES		Project Number 679-20-104	
Revisions:		Date:		Approved: Chief Engineer		Fully Sprinklered		Location TUSCALOOSA VAMC, TUSCALOOSA, AL.		Issue Date 03/08/2024		Checked JMM		Drawn JEH			
												Building Number 145		Drawing Number TN145.B			

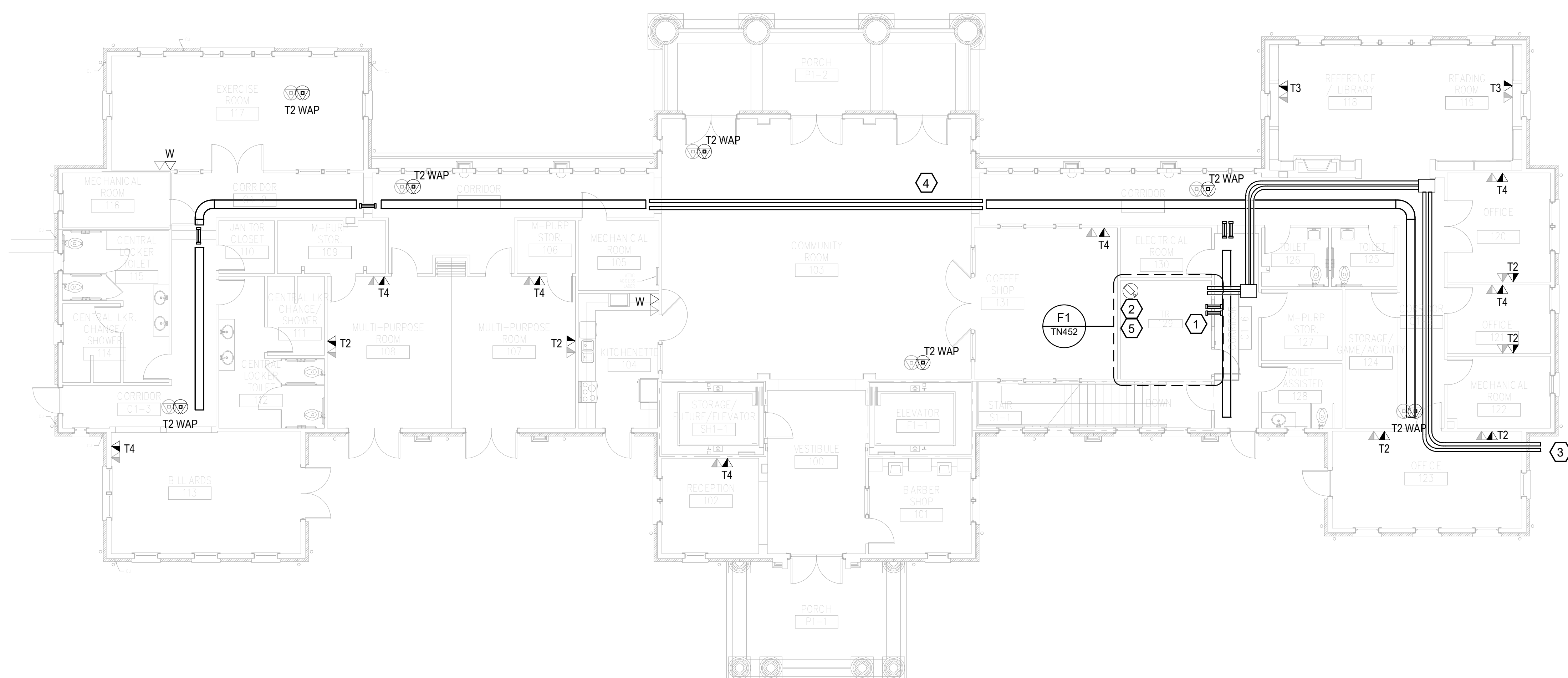
A
B
C
D
E
F

KEYNOTES:

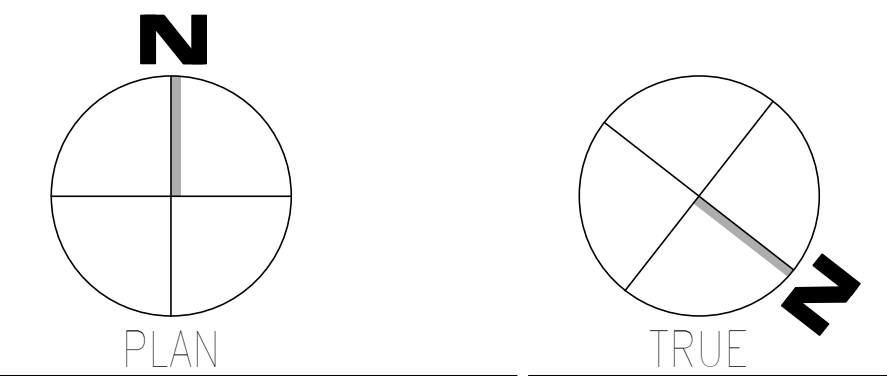
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CRKP, BMS, EL, REX, SSTV) TO NEW ACS/IDS FCU LOCATION
2. PROVIDE (2) 4" EMT CONDUITS FROM TR 129 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY
3. (2) 4" CONDUITS FROM HANDHOLE TM434 TO TR 129 FOR BACKBONE FIBER PATHWAY. REFER TO SITE PLAN FOR CONDUIT CONTINUATION.
4. PROVIDE (2) 4" CONDUITS FOR HORIZONTAL PATHWAY ACROSS HARD CEILING.
5. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT LOCATION IN ROOM B34 FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 90 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - LEVEL 01 - TELECOM
SCALE: 1/8" = 1'-0"



Revisions: Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 145 - LEVEL 01 - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104	
						Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 145	
							Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN145.1

KEYNOTES:

- EXISTING TR. COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.

GENERAL NOTES:

- SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.46 (UNLISTED CABLES ENTERING BUILDINGS).
- MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - LEVEL 01 - TELECOM
SCALE: 1/8" = 1'-0"

Revisions:	Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD STAMP Atriax Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER 8000 W. McMillan BICSI ID # 219954 Expires 03/31/25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 146 - LEVEL 01 - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
							Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 146
							Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN146.1

1 2 3 4 5 6 7 8 9 10

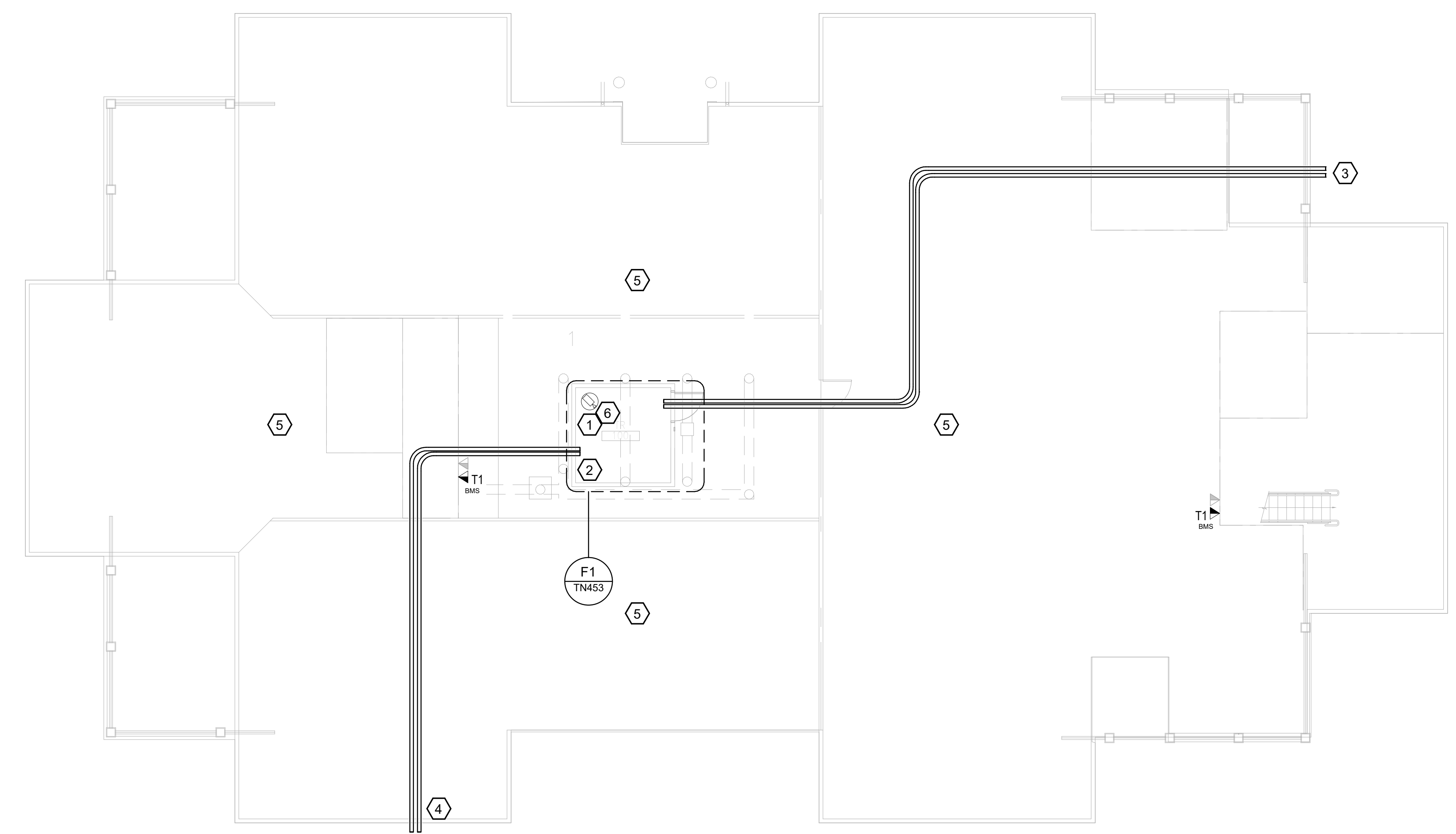
A
B
C
D
E
F

KEYNOTES:

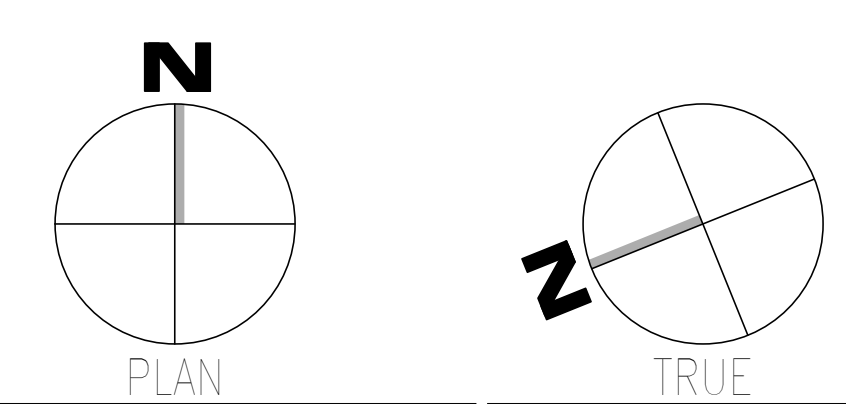
1. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
2. PROVIDE (2) 4" EMT CONDUIT SLEEVES THROUGH FLOOR FROM TR ATTIC TO LEVEL 01 FOR VERTICAL STRUCTURED CABLING PATHWAY.
3. PROVIDE (2) 4" CONDUITS FROM MANHOLE TMH34 TO TR100 FOR BACKBONE FIBER PATHWAY. SEE SITE PLAN FOR CONDUIT ROUTE CONTINUATION.
4. EXTEND (2) 4" CONDUITS FROM TR 100 TO HANDHOLE THH03 FOR PATHWAY TO BUILDING 147 THROUGH THE COURTYARD FOR BACKBONE FIBER PATHWAYS BETWEEN BUILDINGS 146 AND 147. REFER TO SITE PLAN FOR CONDUIT CONTINUATION.
5. UTILIZE EXISTING J-HOOK PATHWAYS, CONDUIT AND BACK BOXES TO ROUTE NEW HORIZONTAL CABLING TO WORK AREA OUTLETS.
6. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT LOCATION IN ROOM E1-2 FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 900.46 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - ATTIC LEVEL - TELECOM
SCALE: 1/8" = 1'-0"



CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254		STAMP 		Office of Construction and Facilities Management U.S. Department of Veterans Affairs		Drawing Title BUILDING 146 - ATTIC LEVEL - TELECOM		Phase 100% CONSTRUCTION DOCUMENTS		Project Title EHRM INFRASTRUCTURE UPGRADES		Project Number 679-20-104	
Revisions:		Date:		Approved: Chief Engineer		FULLY SPRINKLERED		Location TUSCALOOSA VAMC, TUSCALOOSA, AL.		Building Number 146		Drawing Number TN146.A			
				Issue Date 03/08/2024		Checked JMM		Drawn JEH							

1 2 3 4 5 6 7 8 9 10

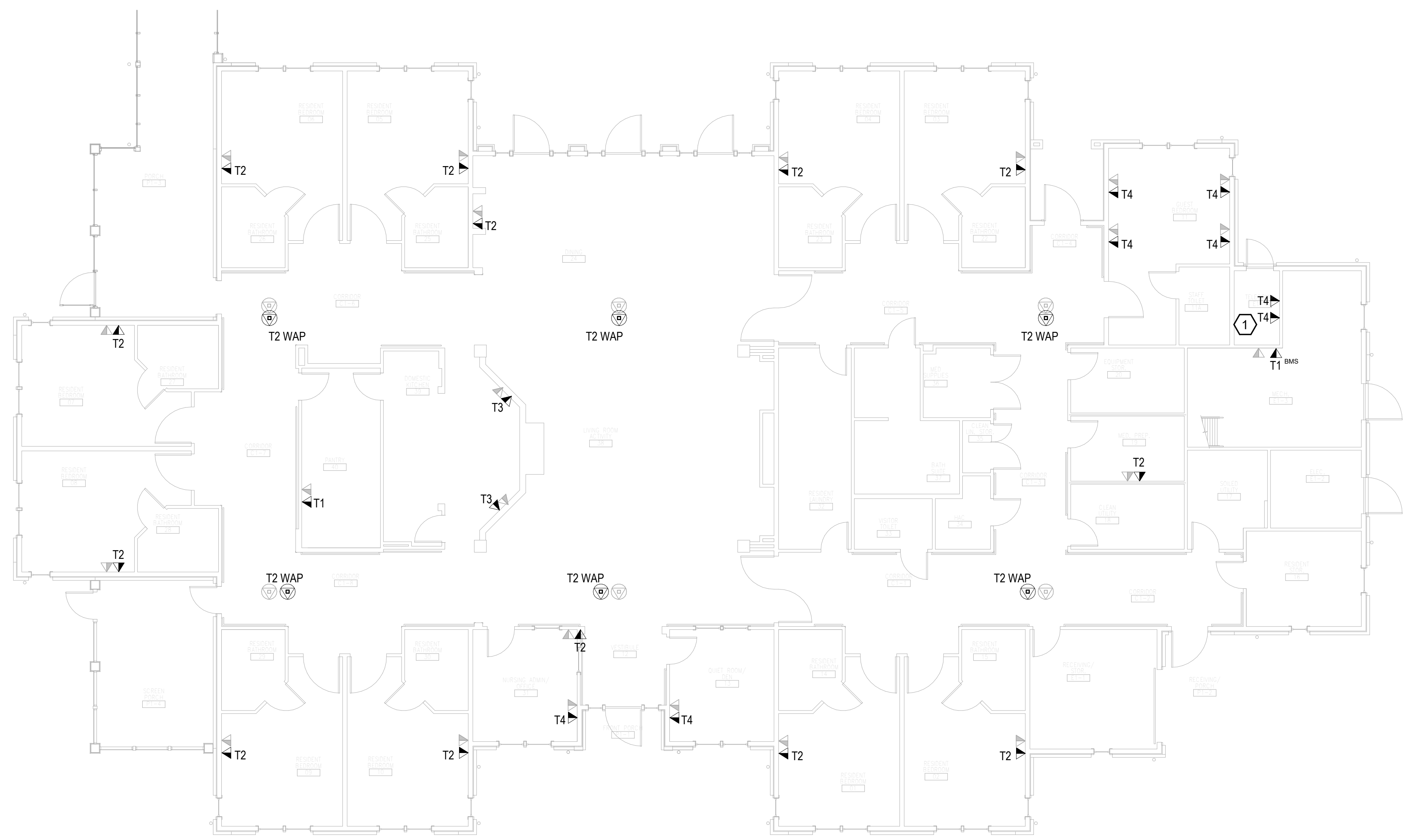
A
B
C
D
E
F

KEYNOTES:

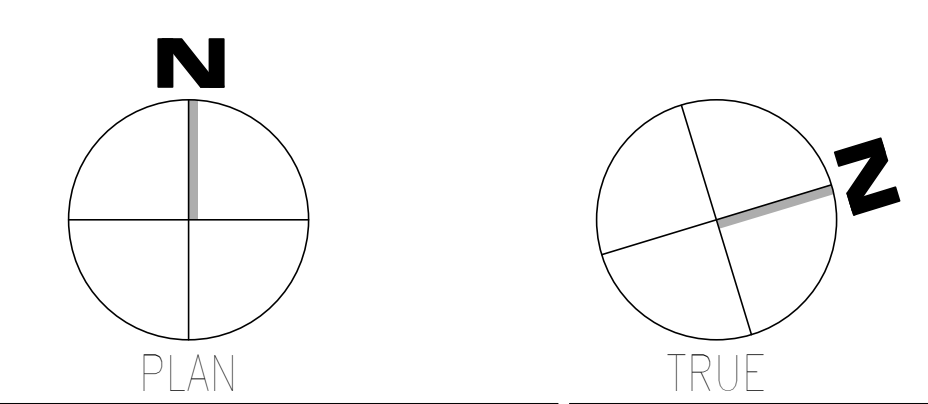
- EXISTING TR; COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.

GENERAL NOTES:

- SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - LEVEL 01 - TELECOM
SCALE: 1/8" = 1'-0"



Revisions:	Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD STAMP Atriax GROUP www.atriaxgroup.com Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254	Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER 8/24/2019 BICSI 107 # 239554 Expires 03/31/25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 147 - LEVEL 01 - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104	
							Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 147	
								Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN147.1

1 2 3 4 5 6 7 8 9 10

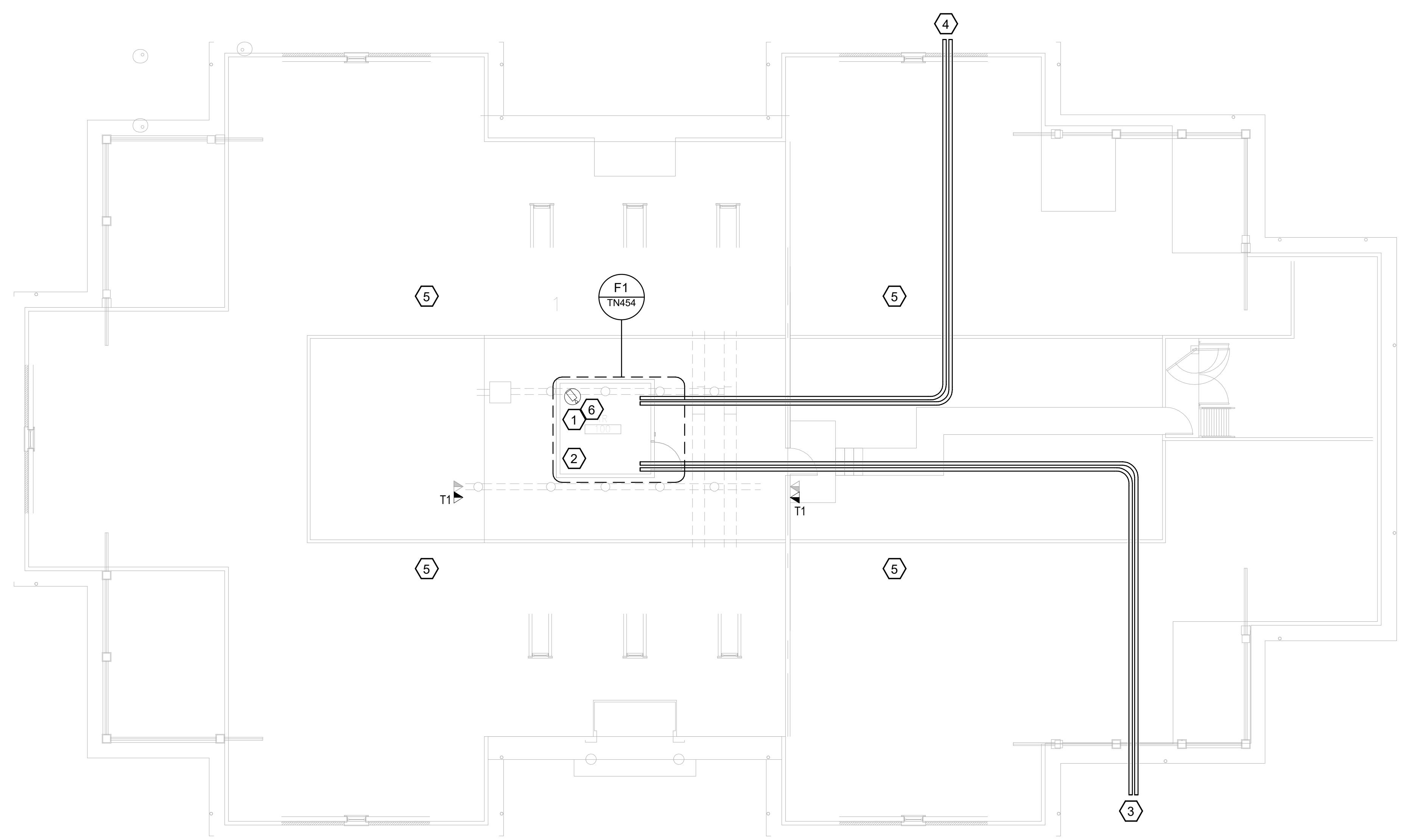
A
B
C
D
E
F

KEYNOTES:

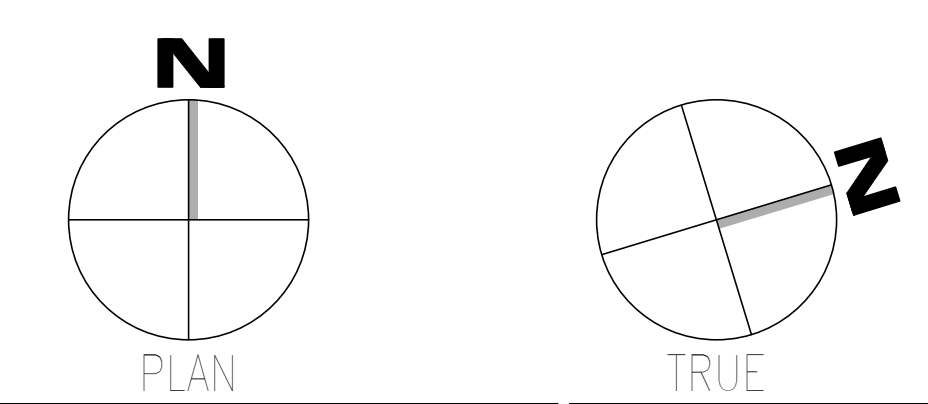
1. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (C/R/KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
2. PROVIDE (2) 4" EMT CONDUIT SLEEVES THROUGH FLOOR FROM TR ATTIC TO LEVEL 01 FOR VERTICAL STRUCTURED CABLING PATHWAY.
3. PROVIDE (2) 4" CONDUITS FROM MANHOLE THH04 TO TR100 FOR BACKBONE FIBER PATHWAY. SEE SITE PLAN FOR CONDUIT ROUTE CONTINUATION.
4. EXTEND (2) 4" CONDUITS FROM TR 100 TO HANDHOLE THH04 FOR PATHWAY TO BUILDING 146 THROUGH THE COURTYARD FOR BACKBONE FIBER PATHWAY BETWEEN BUILDINGS 147 AND 146. REFER TO SITE PLAN FOR CONDUIT CONTINUATION.
5. UTILIZE EXISTING J-HOOK PATHWAYS, CONDUIT AND BACK BOXES TO ROUTE NEW HORIZONTAL CABLING TO WORK AREA OUTLETS.
6. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT LOCATION IN ROOM E1-4 FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - ATTIC LEVEL - TELECOM
SCALE: 1/8" = 1'-0"



CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204		ARCHITECT/ENGINEER OF RECORD		STAMP Atriax, plc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254		 REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI 107 # 239954 Expires 03/31/25 RCD 03/08/24		Office of Construction and Facilities Management U.S. Department of Veterans Affairs		Drawing Title BUILDING 147 - ATTIC LEVEL - TELECOM Approved: Chief Engineer		Phase 100% CONSTRUCTION DOCUMENTS		Project Title EHRM INFRASTRUCTURE UPGRADES Project Number 679-20-104 Building Number 147		Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024 Checked JMM Drawn JEH		Drawing Number TN147.A	
---	--	---	--	-------------------------------------	--	---	--	---	--	---	--	--	--	---	--	--	--	--	--	----------------------------------	--

1 2 3 4 5 6 7 8 9 10

A

B

C

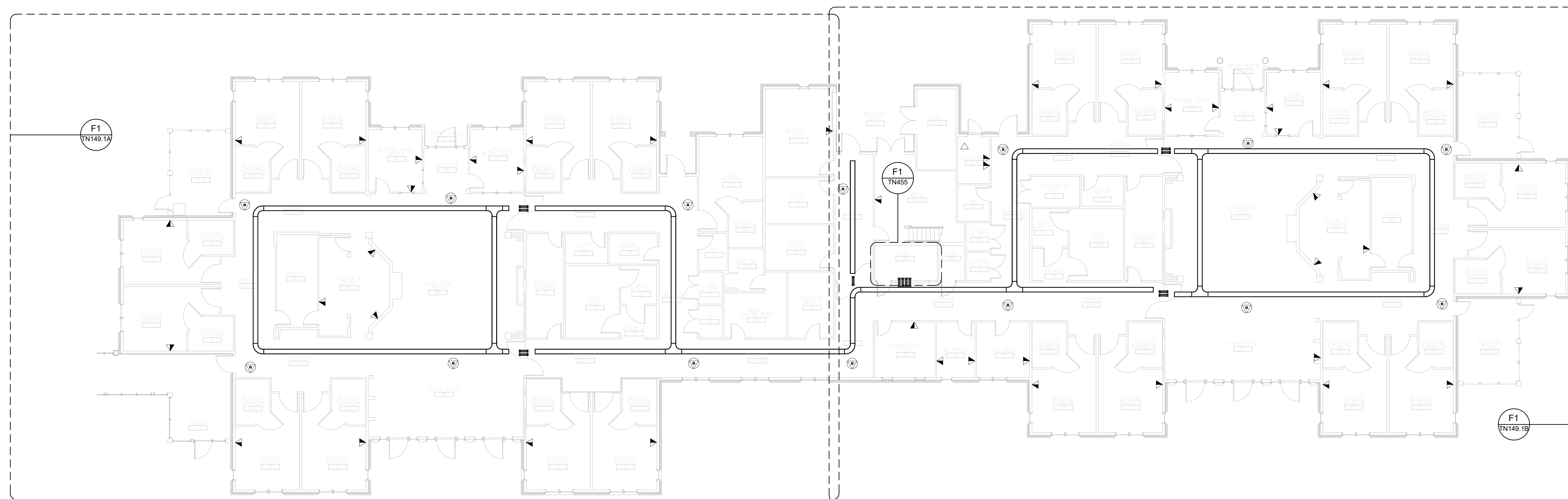
D

E

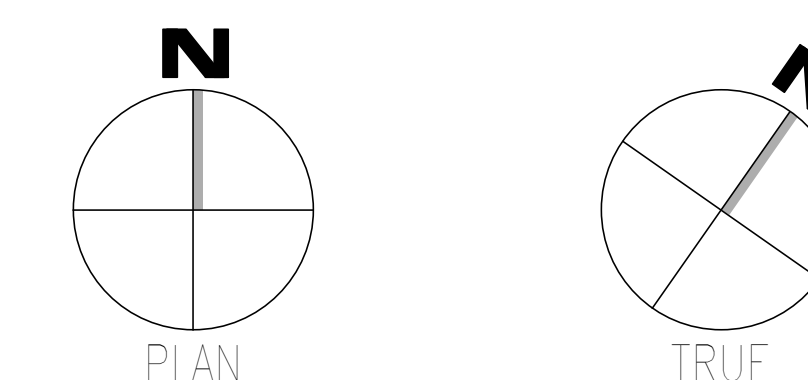
F

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - LEVEL 01 - TELECOM
SCALE: 3/32" = 1'-0"

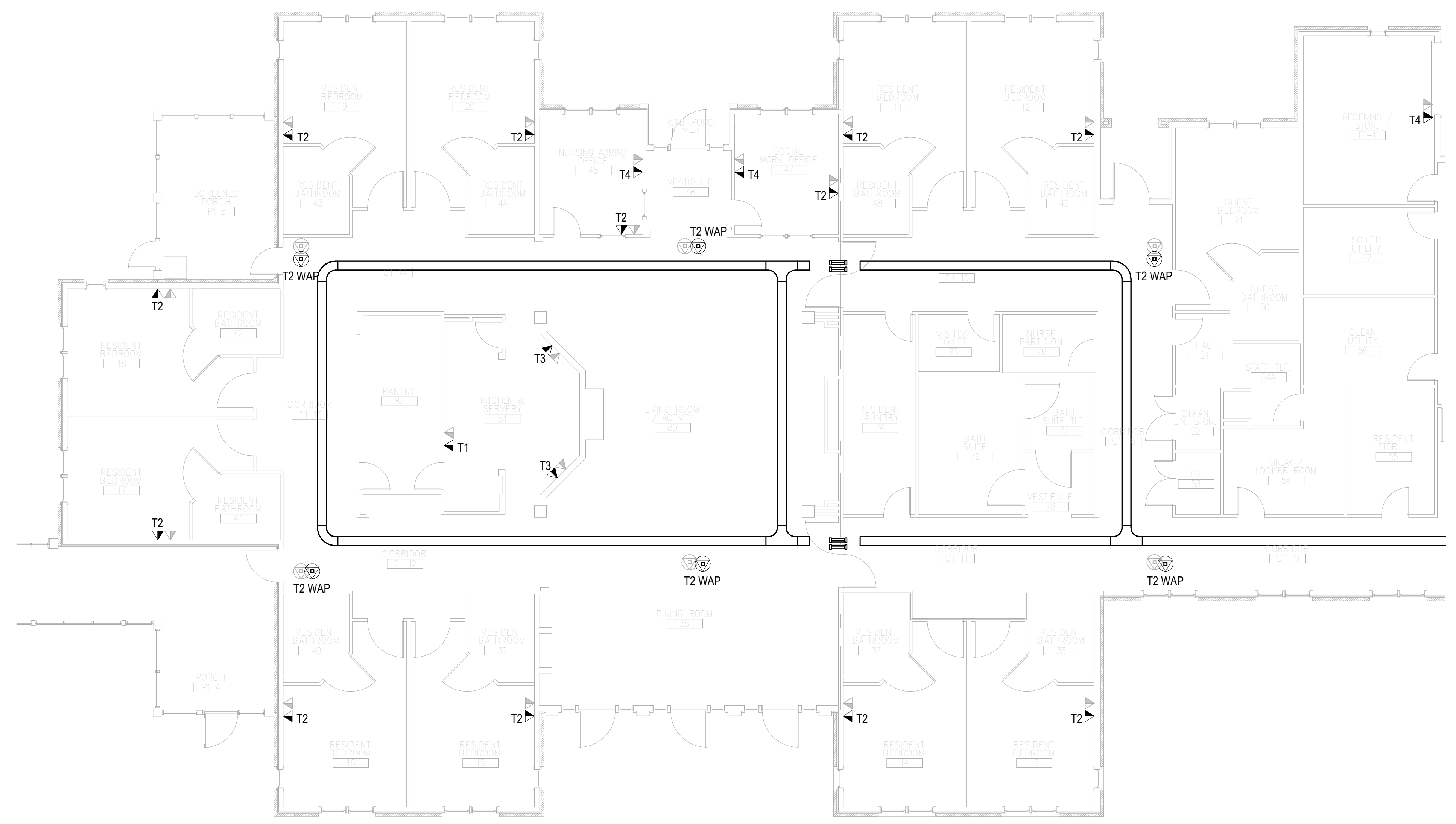


Revisions: _____ Date: _____	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	 SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi Registered Communications Distributor License No. 239554 Expires 03/31/25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 149 - LEVEL 01 - TELECOM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104		
						Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 149		
								Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN149.1

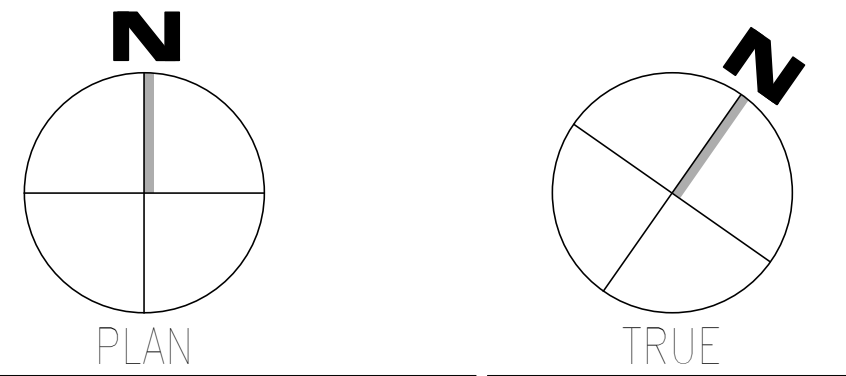
1 2 3 4 5 6 7 8 9 10

A
B
C
D
E
F

- GENERAL NOTES:**
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
 - B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
 - C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
 - D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
 - E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
 - F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
 - G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
 - H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR's SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 PLAN - LEVEL 01 - TELECOM - AREA A
SCALE: 1/8" = 1'-0"



Revisions: _____ Date: _____	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Bicsi 2024/08/03 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 149 - LEVEL 01 - TELECOM - AREA A	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104	
						Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 149	
							Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN149.1A

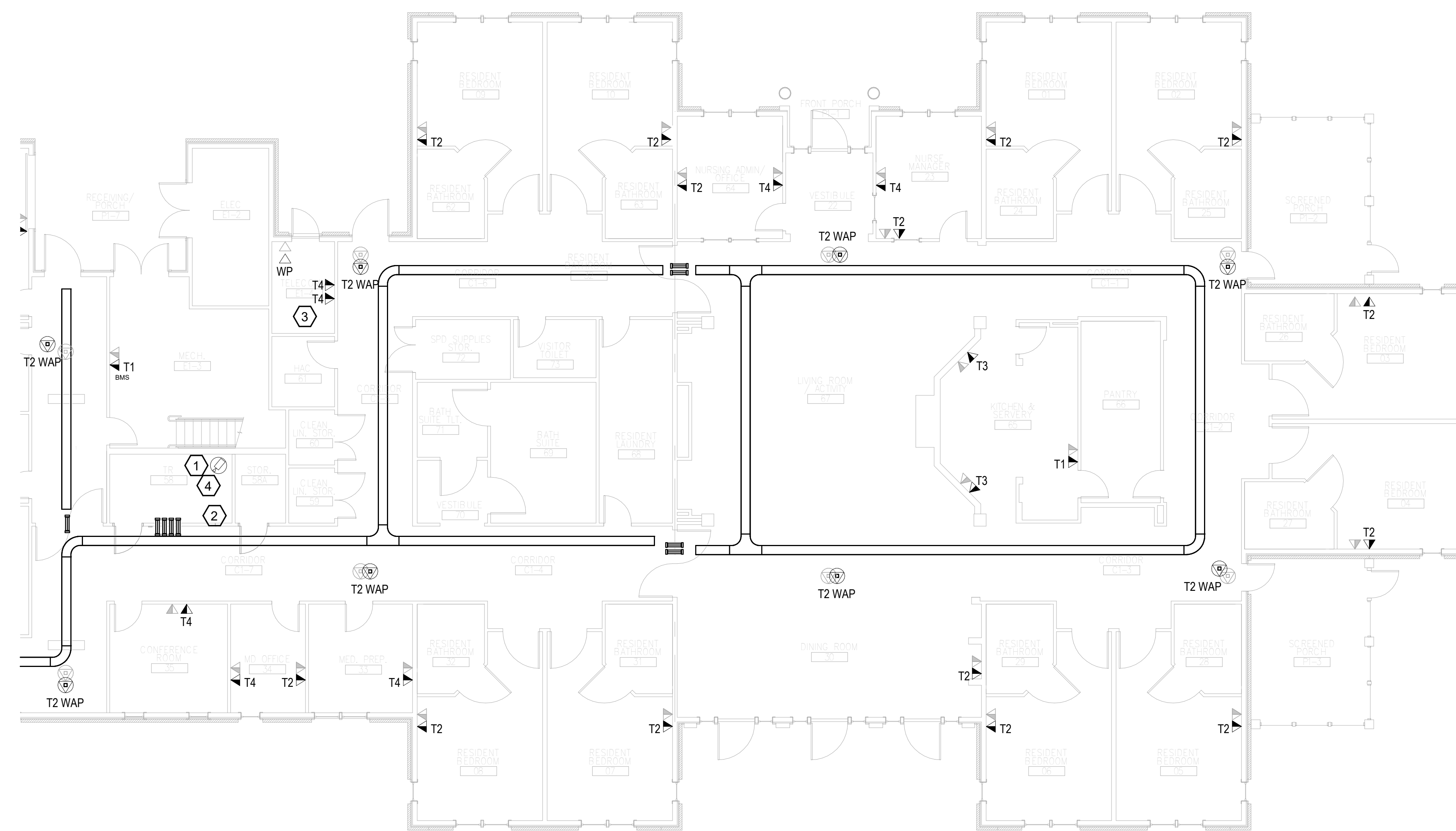
1 2 3 4 5 6 7 8 9 10

KEYNOTES:

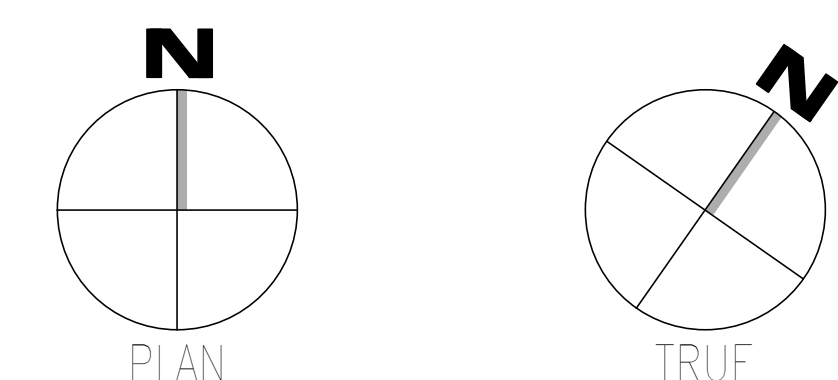
1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
2. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR 58 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
3. EXISTING TR, COORDINATE NEW OUTLET LOCATION AND REQUIREMENTS WITH LEGACY SYSTEMS (SECURITY, BUILDING AUTOMATION SYSTEM, CONTROLS, ETC.) AS REQUIRED.
4. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT LOCATION IN ROOM E1-4 FOR TERMINATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 PLAN - LEVEL 01 - TELECOM - AREA B
SCALE: 1/8" = 1'-0"



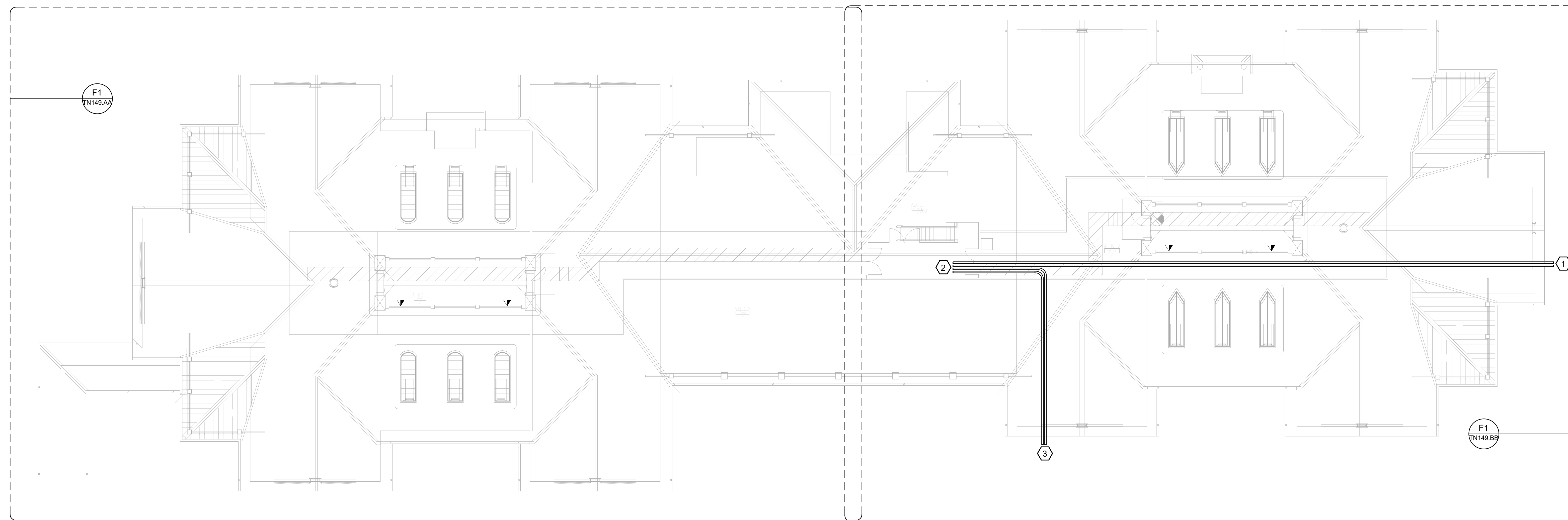
Revisions: 1 Date:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi Registered Professional Engineer License No. 219954 Expires 03/31/25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 149 - LEVEL 01 - TELECOM - AREA B	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104	
						Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 149	
							Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN149.1B

KEYNOTES:

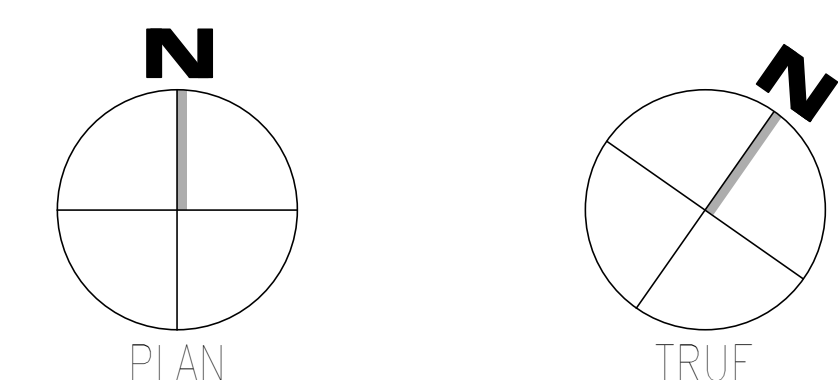
1. PROVIDE (2) 4" CONDUITS FROM HANDHOLE TH01 TO TR 58 FOR BACKBONE FIBER PATHWAY. REFER TO SITE PLAN FOR CONDUIT CONTINUATION.
2. CONTINUE CONDUIT ROUTE DOWN TO TR 58 ON LEVEL 01.
3. EXTEND (2) 4" CONDUIT TO HANDHOLE TH02 FOR PATHWAY TO BUILDING 145 THROUGH THE COURTYARD FOR BACKBONE FIBER PATHWAY BETWEEN BUILDINGS 145 AND 149. REFER TO SITE PLAN FOR CONDUIT CONTINUATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN800 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR's SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 OVERALL PLAN - ATTIC LEVEL - TELECOM
SCALE: 3/32" = 1'-0"

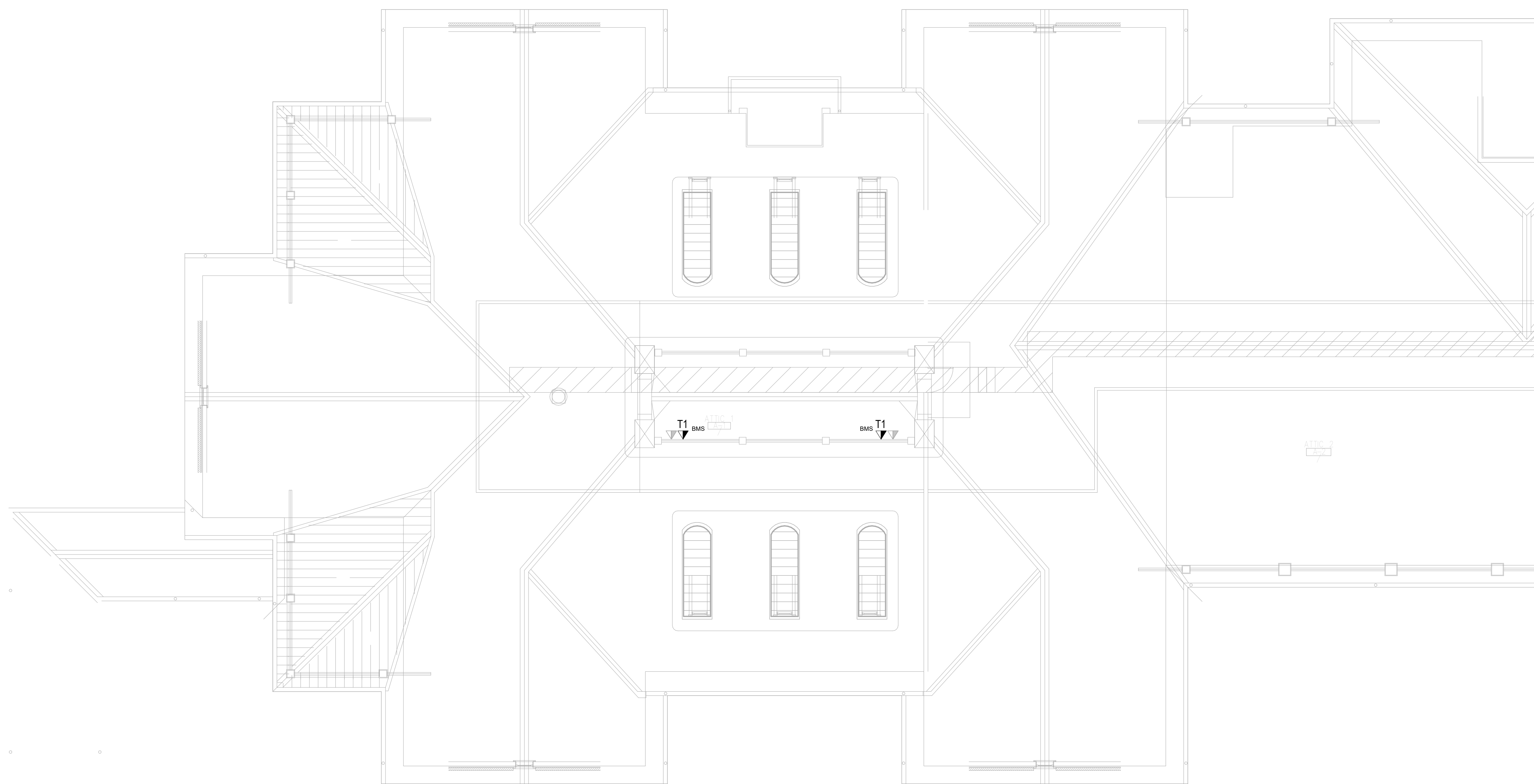


Revisions:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		SPECIALIZED ENGINEERING SOLUTIONS 1300 Baxter Street, Suite 355 Charlotte, NC 28204		ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254		STAMP REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Bicsi RES-10 # 239554 Expires 03-31-25 RCDD 03/08/24		Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs		Drawing Title BUILDING 149 - ATTIC LEVEL - TELECOM Approved: Chief Engineer		Phase 100% CONSTRUCTION DOCUMENTS		Project Title EHRM INFRASTRUCTURE UPGRADES Project Number: 679-20-104 Building Number: 149	
	Date:										FULLY SPRINKLERED		Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024 Checked JMM Drawn JEH		Drawing Number TN149.A	

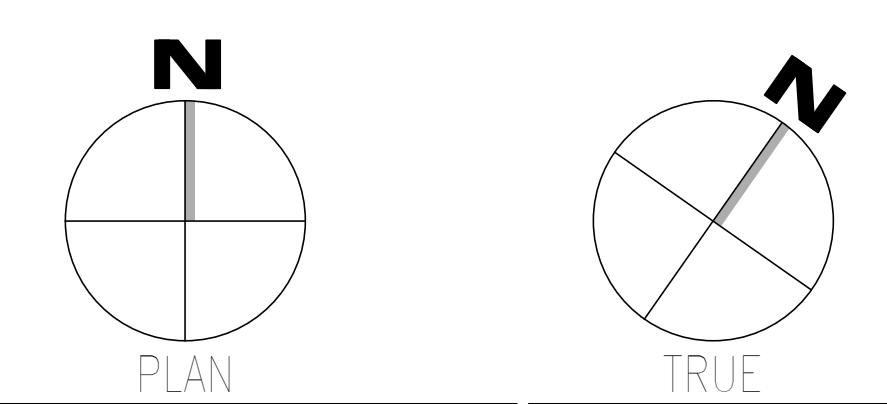
1 2 3 4 5 6 7 8 9 10

A
B
C
D
E
F

- GENERAL NOTES:**
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
 - B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
 - C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
 - D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
 - E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
 - F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
 - G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
 - H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR's SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.



F1 PLAN - ATTIC LEVEL - TELECOM - AREA A
SCALE: 1/8" = 1'-0"



Revisions: _____ Date: _____	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	 SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi Registered Communications Distributor BICSI ID # 219954 Expires 03/31/25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 149 - ATTIC LEVEL - TELECOM - AREA A Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED	Project Title EHRM INFRASTRUCTURE UPGRADES Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024	Project Number 679-20-104 Building Number 149 Drawing Number TN149.AA Checked JMM Drawn JEH
---------------------------------	---	---	---	--	---	---	---	--	---

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

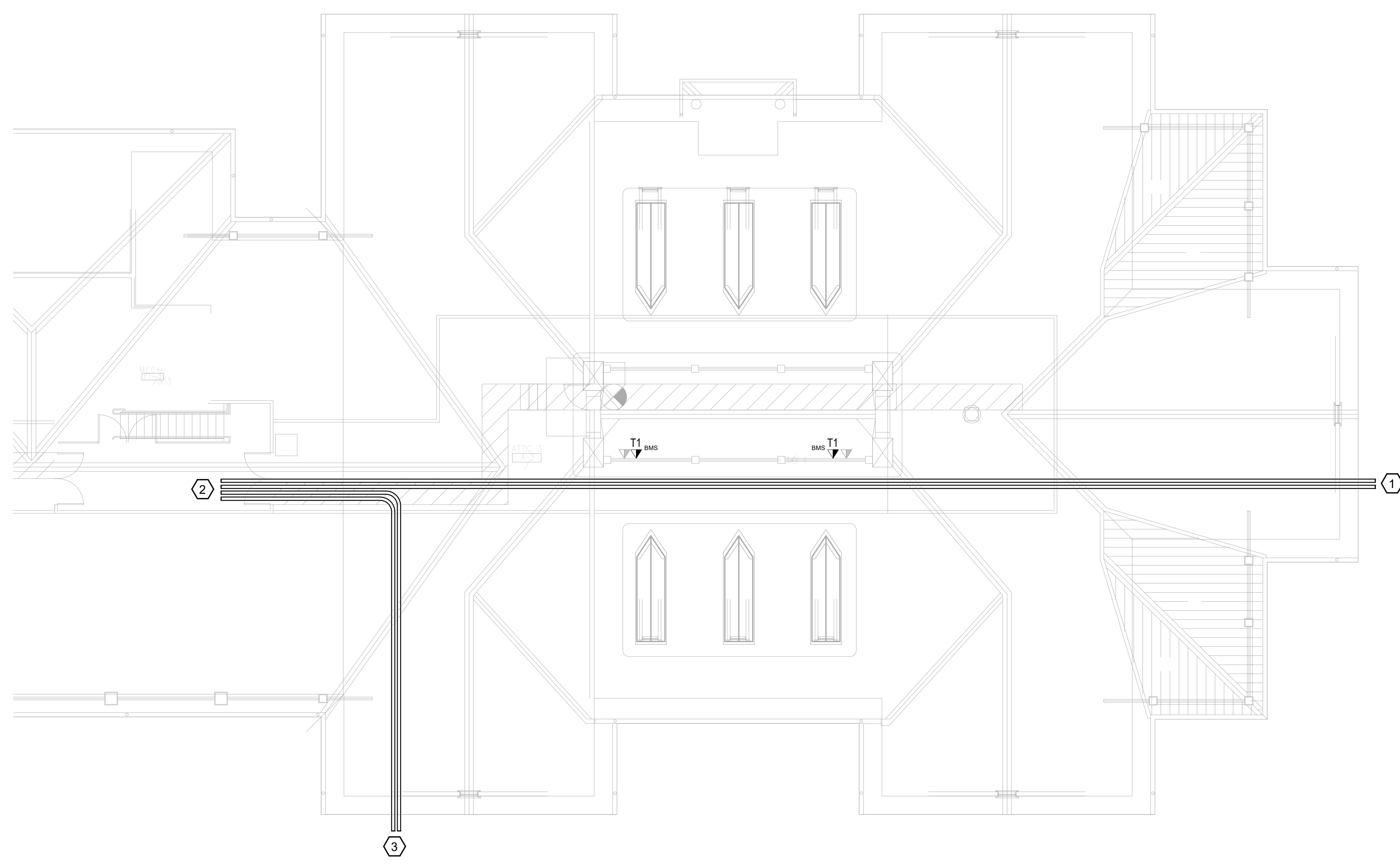
A
B
C
D
E
F

KEYNOTES:

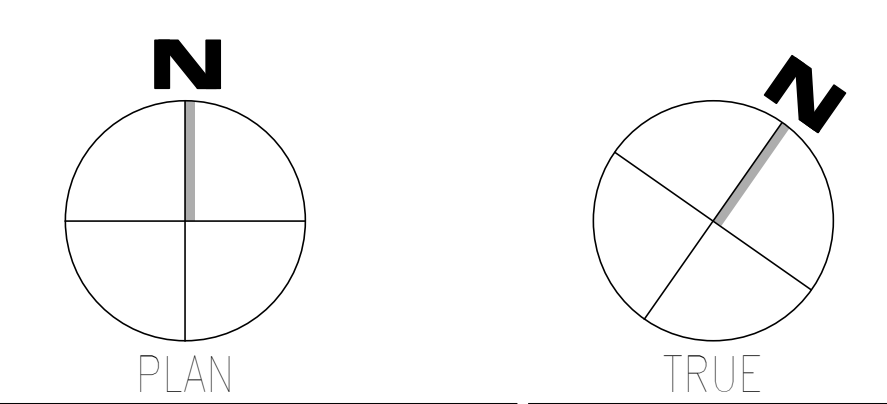
1. PROVIDE (2) 4" CONDUITS FROM HANDHOLE THH01 TO TR 58 FOR BACKBONE FIBER PATHWAY. REFER TO SITE PLAN FOR CONDUIT CONTINUATION.
2. CONTINUE CONDUIT ROUTE DOWN TO TR 58 ON LEVEL 01.
3. EXTEND (2) 4" CONDUIT TO HANDHOLE THH02 FOR PATHWAY TO BUILDING 145 THROUGH THE COURTYARD FOR BACKBONE FIBER PATHWAY BETWEEN BUILDINGS 145 AND 149. REFER TO SITE PLAN FOR CONDUIT CONTINUATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 900.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

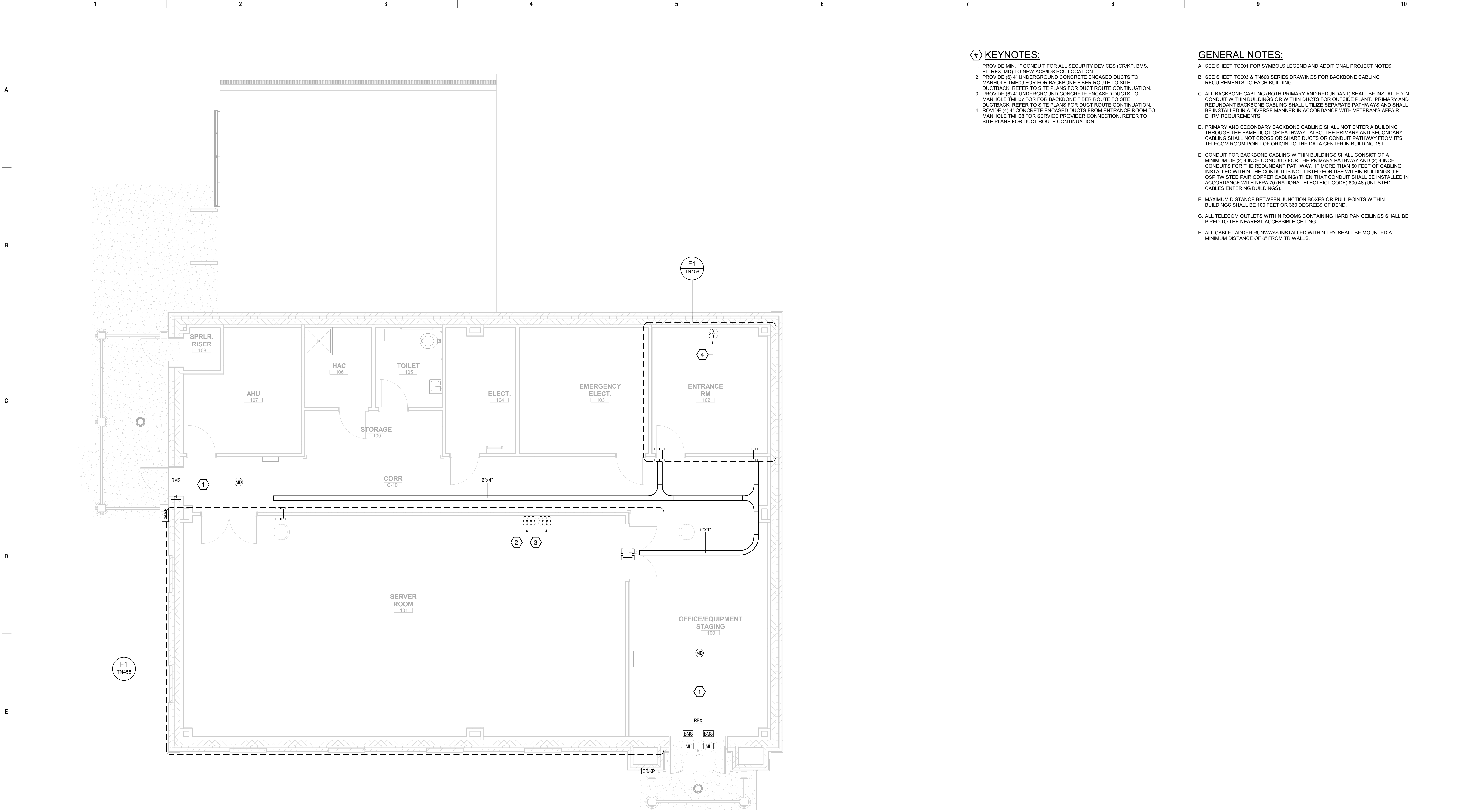


F1 PLAN - ATTIC LEVEL - TELECOM - AREA B
SCALE: 1/8" = 1'-0"



Revisions:	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		ARCHITECT/ENGINEER OF RECORD		Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 149 - ATTIC LEVEL - TELECOM - AREA B	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104	
	Date:	SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204		Atriax GROUP www.atriaxgroup.com Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254		Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 149	
				Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI 107 # 219954 Expires 03/31/25 RCD 03/08/24			Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN149.BB

1 2 3 4 5 6 7 8 9 10



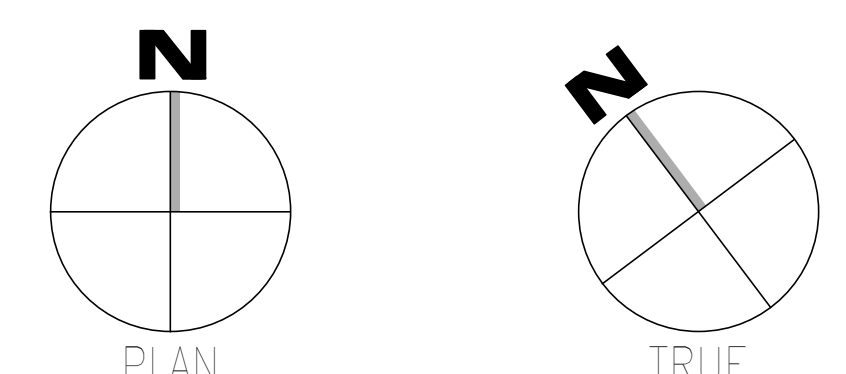
KEYNOTES:

1. PROVIDE MIN. 1" CONDUIT FOR ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, MD) TO NEW AGSIDS FCU LOCATION.
2. PROVIDE (6) 4" UNDERGROUND CONCRETE ENCASED DUCTS TO MANHOLE TMM09 FOR FOR BACKBONE FIBER ROUTE TO SITE DUCTBACK. REFER TO SITE PLANS FOR DUCT ROUTE CONTINUATION.
3. PROVIDE (6) 4" UNDERGROUND CONCRETE ENCASED DUCTS TO MANHOLE TMM07 FOR FOR BACKBONE FIBER ROUTE TO SITE DUCTBACK. REFER TO SITE PLANS FOR DUCT ROUTE CONTINUATION.
4. PROVIDE (4) 4" CONCRETE ENCASED DUCTS FROM ENTRANCE ROOM TO MANHOLE TMM08 FOR SERVICE PROVIDER CONNECTION. REFER TO SITE PLANS FOR DUCT ROUTE CONTINUATION.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR's SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

F1 OVERALL PLAN - GROUND LEVEL - TELECOM
SCALE: 1/4" = 1'-0"



Revisions: _____ Date: _____	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	 SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 151 - GROUND LEVEL - TELECOM Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED	Project Title EHRM INFRASTRUCTURE UPGRADES Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024	Project Number 679-20-104 Building Number 151 Drawing Number TN151.1 Checked JMM Drawn JH
---------------------------------	---	---	---	---	---	---	---	---	---

GENERAL NOTES:

- A. SEE SHEET T6001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET T6003 & T6004 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

KEYNOTES

- 1. PROVIDE (8) 4" EMT CONDUIT SLEEVES FROM TR 1 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. PRIMARY BONDING BUSBAR, SEE DETAIL F8 ON SHEET T6503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REK, SSTV) TO NEW ACQUIS PDU LOCATION.
- 4. CCTV EQUIPMENT, CABINET, AND CABLING ARE EXISTING TO REMAIN AND SHALL BE PROTECTED IN PLACE DURING RENOVATIONS.
- 5. GUEST WIFI EQUIPMENT, CABINET, AND CABLING ARE EXISTING TO REMAIN AND SHALL BE PROTECTED IN PLACE DURING RENOVATIONS.
- 6. (2) 4" CONDUITS FROM CORRIDOR, EXTENDED FROM TMH31, TO BUILDING 001 TELECOM ROOMS FOR FIBER BACKBONE PATHWAY. SEE SITE PLANS FOR CONDUIT CONTINUATION.
- 7. EXTEND (2) 4" CONDUITS TO ADJACENT CORRIDOR FOR FIBER BACKBONE PATHWAY.

TELECOM OUTLET SCHEDULE - GROUND LEVEL

OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE_U_1	CABLE_U_2	CABLE_C_1	CABLE_C_2	CABLE COLOR
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 1	66	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 1	244	0	0	0	
W		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 1	36	0	0	0	
OUTLET TOTAL: 103					346	0	0	0	

TR 1 EQUIPMENT RACK SCHEDULE

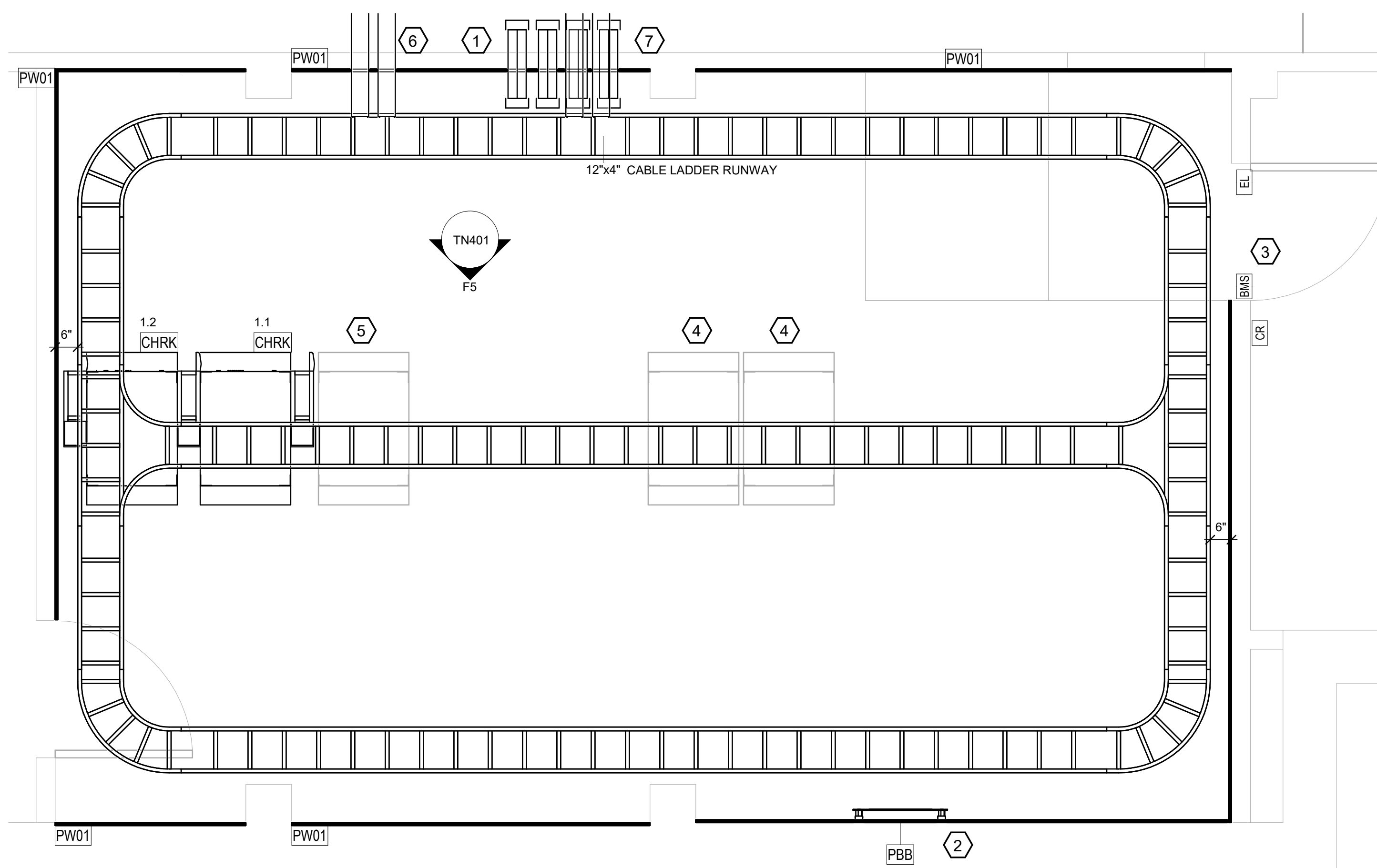
RACK_ID	EQUIPMENT DESIGNATION	PATCH PANEL ID	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
1.1	CHRK				OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET T6503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
1.1	VWM7				OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
1.1	VWM7				OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
1.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
1.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
1.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
1.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
1.1	UPS6U				5 KW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
1.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
1.1	PDUZ				208V, 30A 3-PHASE ZONE PDU BASE UNIT WITH (6) REAR L21-20R OUTPUT RECEPTACLES WITH 10 FOOT POWER CORDS TERMINATING IN HARDWARE BOX	2
1.1	FPP				ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1

TR 1 EQUIPMENT SCHEDULE

EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4" X 8' AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET T6503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
PBB	TELECOM PRIMARY BONDING BUSBAR. 12"x4" CABLE LADDER RUNWAY

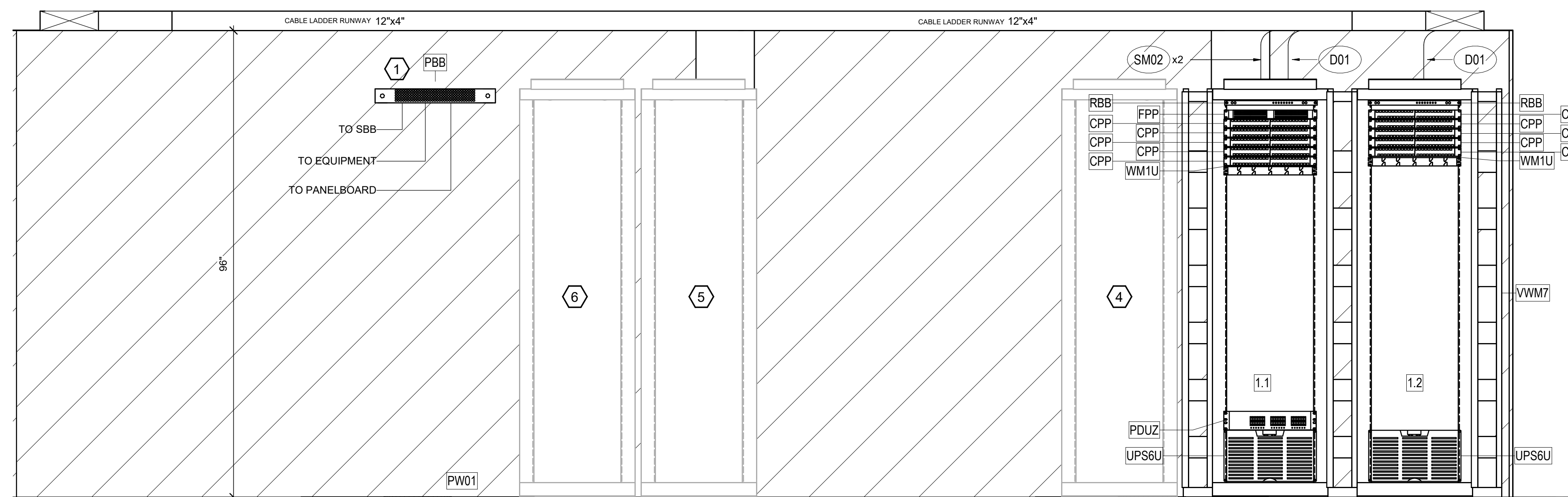
TR 1 EQUIPMENT RACK SCHEDULE

RACK_ID	EQUIPMENT DESIGNATION	PATCH PANEL ID	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
1.1	WM1U				WIRE MANAGEMENT - 1U HORIZONTAL	1
1.1	RBB				1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1
1.2	CHRK				OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET T6503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
1.2	VWM7				OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
1.2	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
1.2	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
1.2	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
1.2	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
1.2	UPS6U				5 KW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
1.2	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
1.2	WM1U				WIRE MANAGEMENT - 1U HORIZONTAL	1
1.2	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
1.2	RBB				1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR 1

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



F5 TR 1 RACK ELEVATION

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

Revisions:	Date:

CONSULTANT

WileyWilson
127 Nationwide Drive
Lynchburg, VA 24502
Phone: 434.947.1901
www.wileywilson.com

SPECIALIZED ENGINEERING SOLUTIONS
Specialized Engineering Solutions
1300 Baxter Street, Suite 355
Charlotte, NC 28204

ARCHITECT/ENGINEER OF RECORD

Atriax
www.atriaxgroup.com

Atriax, pllc
703 Main Avenue SW
PO Box 1629, Hickory, NC 28603
Phone: 828.315.9962
Fax: 828.315.9964
NC Engineering License No.: P-0214
NC Architectural License No.: 51254

STAMP

Bicsi
REGISTERED COMMUNICATIONS DISTRIBUTION TECHNOLOGIST
BICS11078239954
Expires 03/08/24
RCDD

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
BLDG 001 - ENLARGED PLANS AND ELEV. - TR RM1

Approved: Chief Engineer

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE UPGRADES

Location
TUSCALOOSA VAMC, TUSCALOOSA, AL.

Issue Date
03/08/2024

Checked
JMM

Drawn
JEH

Project Number
679-20-104

Building Number
001

Drawing Number
TN401

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 900.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

KEYNOTES

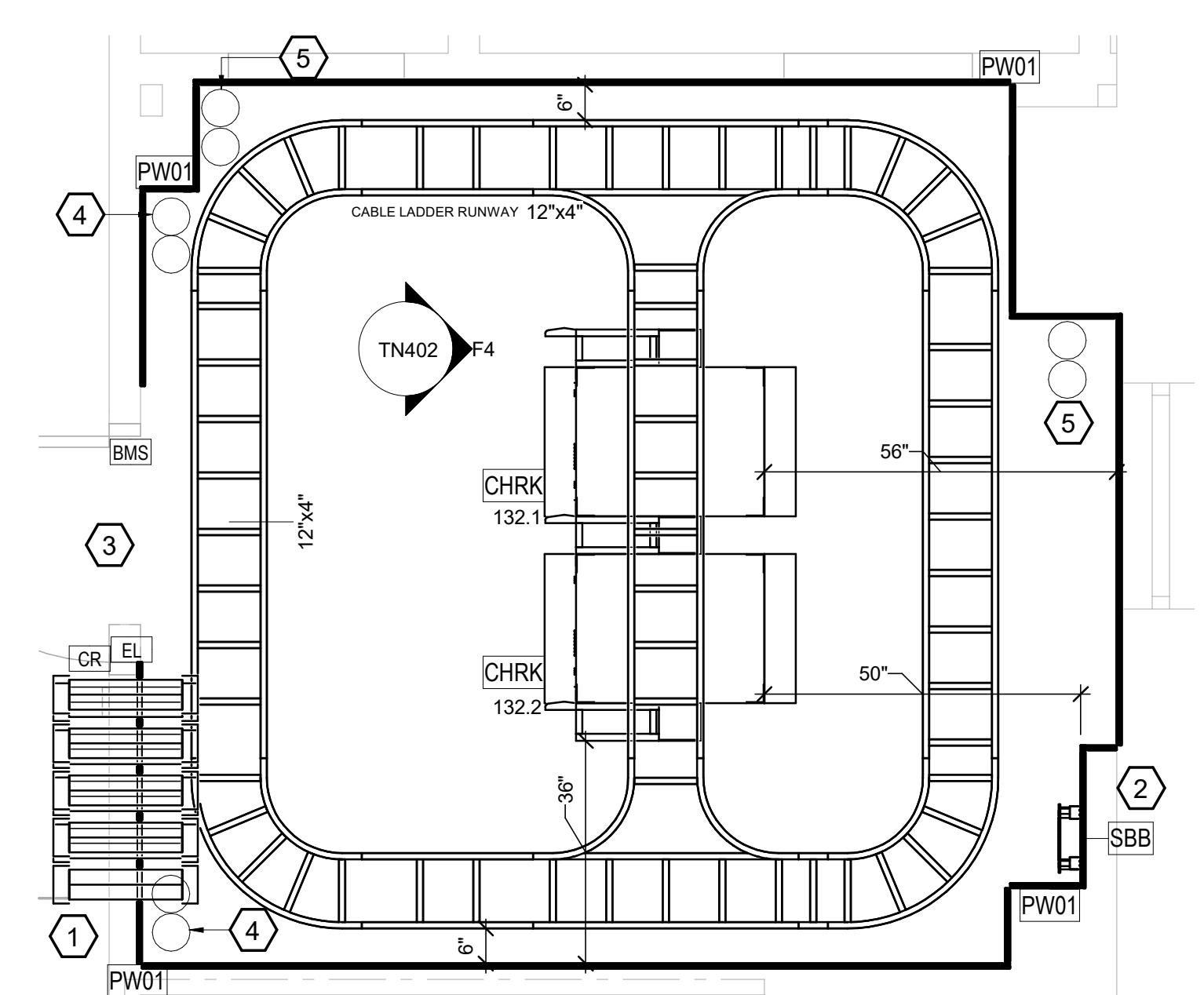
- 1. PROVIDE (10) 4" EMT CONDUIT SLEEVES FROM TR 132 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. (2) 4" CONDUIT SLEEVES THROUGH FLOOR SLAB FOR BACKBONE FIBER PATHWAY TO GROUND LEVEL TR RM1.
- 5. (2) 4" CONDUIT SLEEVES THROUGH CEILING DECK FOR BACKBONE FIBER PATHWAY TO LEVEL 02 TR 236.

TR 132 EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD, 12"x4" CABLE LADDER RUNWAY
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45' X 10.26' X 84" WHITE
SBB	TELECOM SECONDARY BONDING BUSBAR.

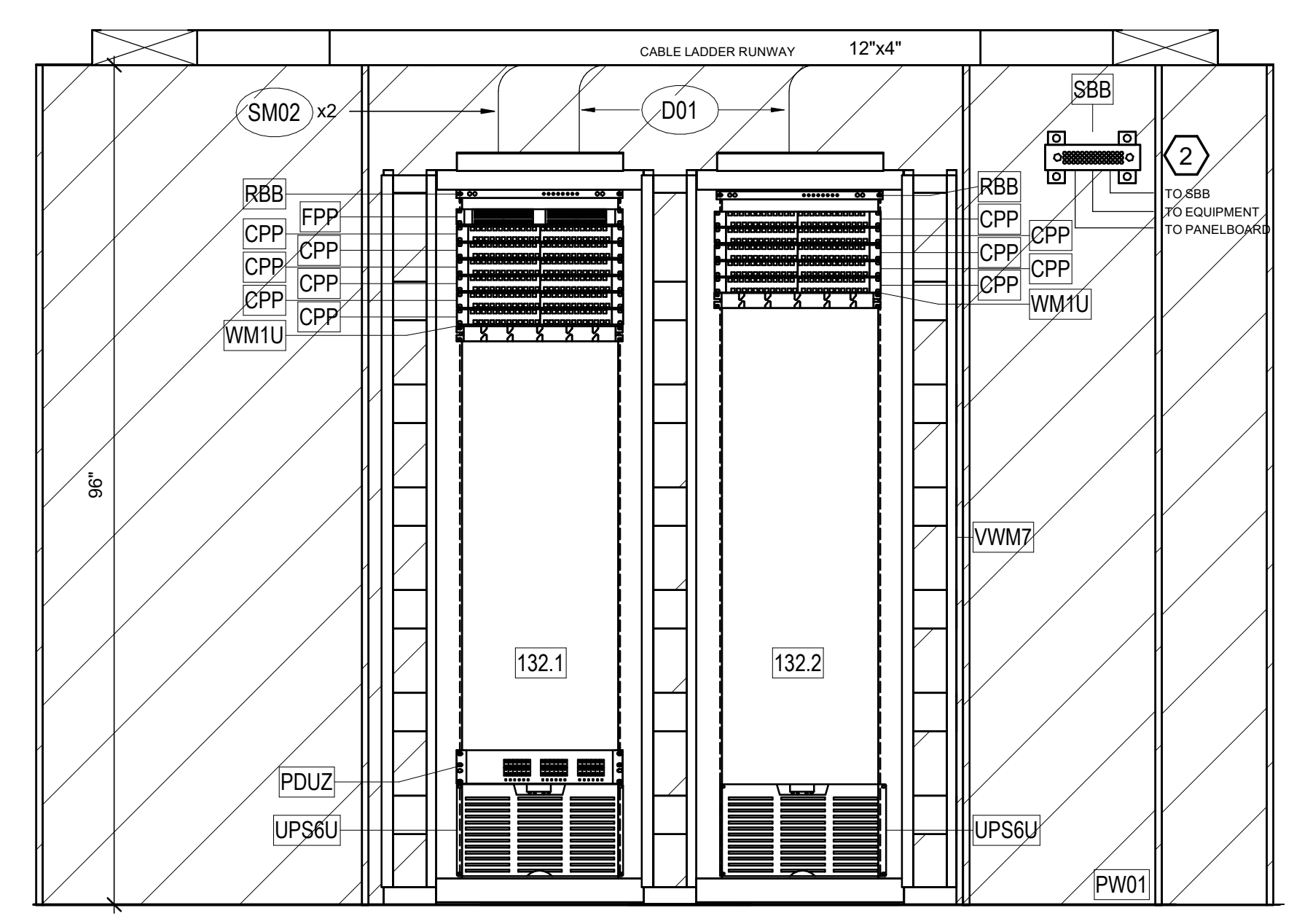
TELECOM OUTLET SCHEDULE - LEVEL 01									
OUTLET TYPE	LOCATION	NETWORK_ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE_U_1	CABLE_U_2	CABLE_C_1	CABLE_C_2	CABLE COLOR
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 132	44	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 132	360	0	0	0	
					404	0	0	0	
: 112 OUTLET TOTAL: 112					404	0	0	0	

TR 132 EQUIPMENT RACK SCHEDULE						
RACK_ID	EQUIPMENT DESIGNATION	PATCH PANEL ID	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
132.1	CHRK				OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
132.1	VWM7				OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45' X 10.26' X 84" WHITE	
132.1	VWM7				OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45' X 10.26' X 84" WHITE	
132.1	FPP				ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
132.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
132.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
132.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
132.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
132.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
132.1	UPS6U				5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
132.1	PDUZ				208V, 30A 3-PHASE ZONE PDU BASE UNIT WITH (6) REAR L21-20R OUTPUT RECEPTACLES WITH 10 FOOT POWER CORDS TERMINATING IN HARDWIRE BOX	2
132.1	WM1U				WIRE MANAGEMENT - 1U HORIZONTAL	1
132.1	RBB				1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1

132.2	CHRK				OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
132.2	VWM7				OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45' X 10.26' X 84" WHITE	
132.2	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
132.2	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
132.2	WM1U				WIRE MANAGEMENT - 1U HORIZONTAL	1
132.2	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
132.2	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
132.2	UPS6U				5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
132.2	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
132.2	RBB				1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR 132
SCALE: 1/2" = 1'-0"



F4 TR 132 RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>CONSULTANT Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD Atriax, plc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title BLDG 001 - ENLARGED PLANS AND ELEV. - TR 132</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>		
				<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number 001</p>		
						<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>	<p>Drawing Number TN402</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR's SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

KEYNOTES

- 1. PROVIDE (9) 4" EMT CONDUIT SLEEVES FROM TR 236 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, RE, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. (2) 4" CONDUIT SLEEVES THROUGH FLOOR SLAB FOR BACKBONE FIBER PATHWAY TO LEVEL 01 TR 132.
- 5. (2) 4" CONDUIT SLEEVES THROUGH CEILING DECK FOR BACKBONE FIBER PATHWAY TO LEVEL 03 TR LV3.

TELECOM OUTLET SCHEDULE - LEVEL 02

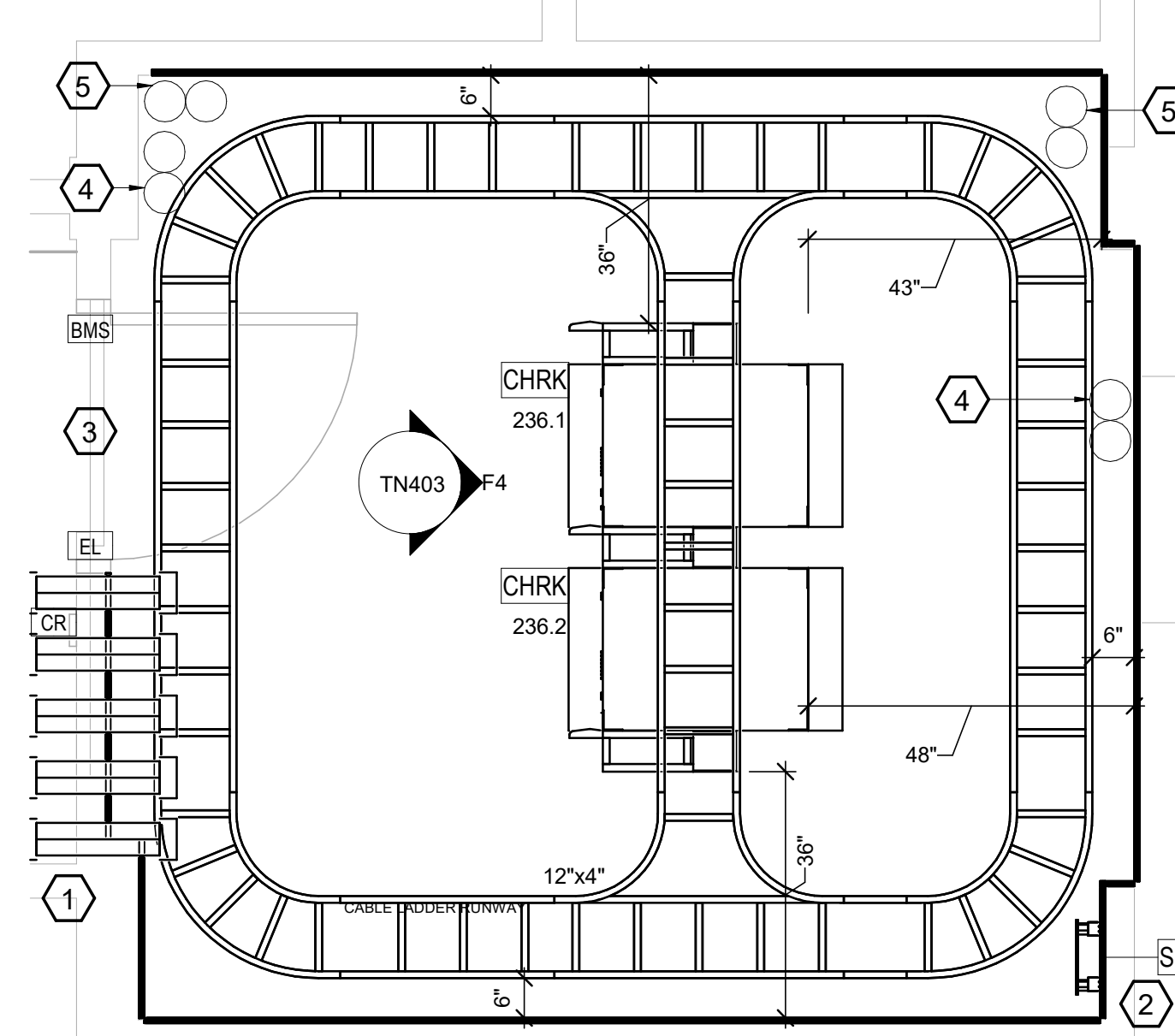
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE U_1	CABLE U_2	CABLE C_1	CABLE C_2	CABLE COLOR
T2		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 236	2	0	0	0	
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 236	52	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 236	304	0	0	0	
103					358	0	0	0	
OUTLET TOTAL: 103					358	0	0	0	

TR 236 EQUIPMENT SCHEDULE

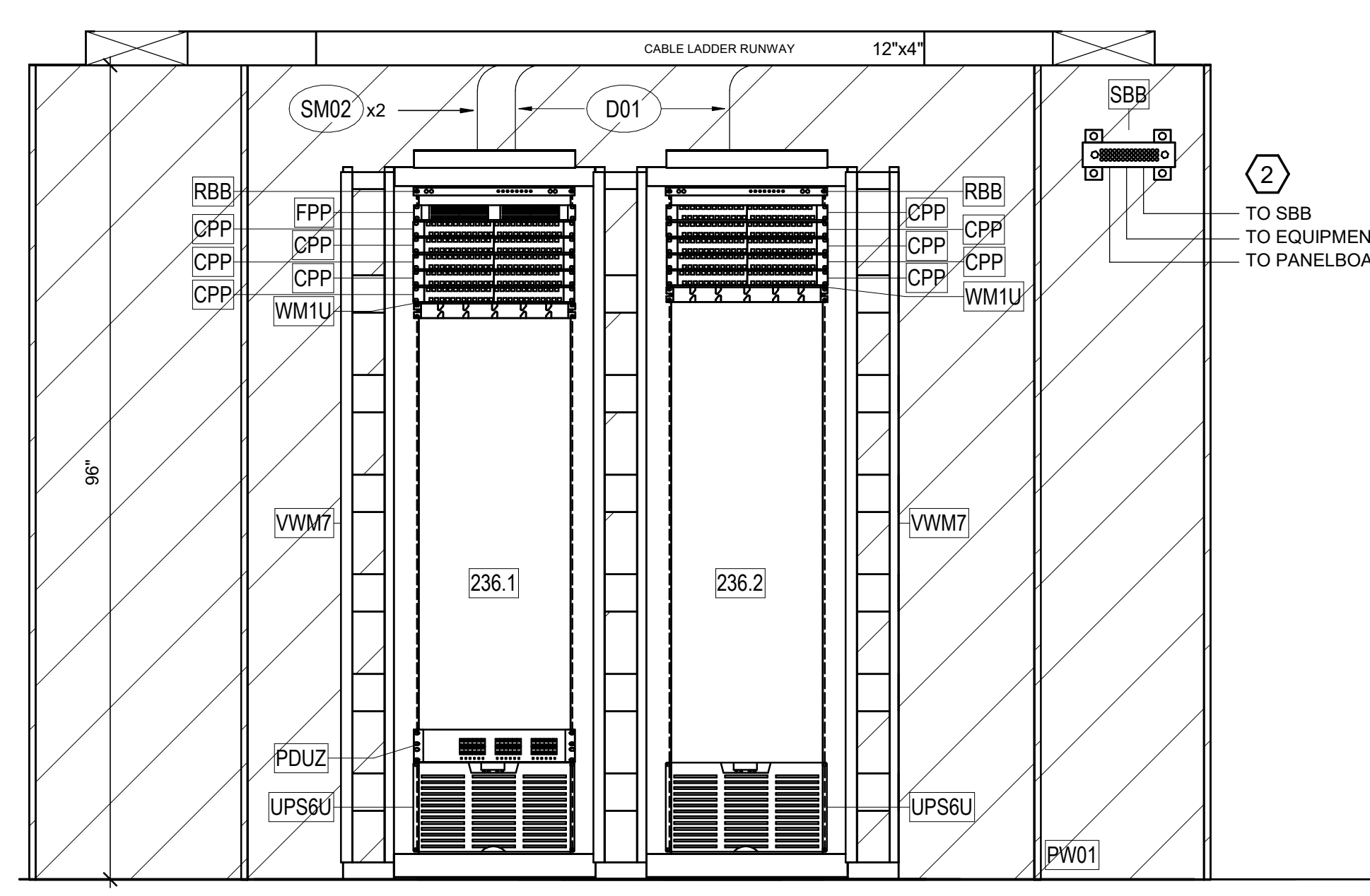
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45' X 10.26' X 84" WHITE
	12"x4" CABLE LADDER RUNWAY
SBB	TELECOM SECONDARY BONDING BUSBAR.

TR 236 EQUIPMENT RACK SCHEDULE

RACK ID	EQUIPMENT DESIGNATION	PATCH PANEL ID	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
236.1	CHRK				OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
236.1	VWM7				OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45' X 10.26' X 84" WHITE	
236.1	VWM7				OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45' X 10.26' X 84" WHITE	
236.1	FPP				ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
236.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
236.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
236.1	UPS6U				5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
236.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
236.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
236.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
236.1	WM1U				WIRE MANAGEMENT - 1U HORIZONTAL	1
236.1	PDUZ				208V, 30A 3-PHASE ZONE PDU BASE UNIT WITH (6) REAR L21-20R OUTPUT RECEPTACLES WITH 10 FOOT POWER CORDS TERMINATING IN HARDWIRE BOX	2
236.1	RBB				1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1
236.2	VWM7				OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45' X 10.26' X 84" WHITE	
236.2	CHRK				OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
236.2	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
236.2	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
236.2	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
236.2	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
236.2	UPS6U				5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
236.2	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
236.2	WM1U				WIRE MANAGEMENT - 1U HORIZONTAL	1
236.2	RBB				1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR 236
SCALE: 1/2" = 1'-0"



F4 TR 236 RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>CONSULTANT</p> <p>WileyWilson</p> <p>127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax GROUP</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964</p> <p>www.atriaxgroup.com</p> <p>NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>BLDG 001 - ENLARGED PLANS AND ELEV. - TR 236</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>
			<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Drawing Number</p> <p>TN403</p>
<p>Revisions:</p>	<p>Date:</p>	<p>Issue Date</p> <p>03/08/2024</p>	<p>Checked</p> <p>JMM</p>	<p>Drawn</p> <p>JEH</p>	<p>Project Number</p> <p>679-20-104</p>	<p>Building Number</p> <p>001</p>

GENERAL NOTES:

- A. SEE SHEET T6001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET T6003 & T6004 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

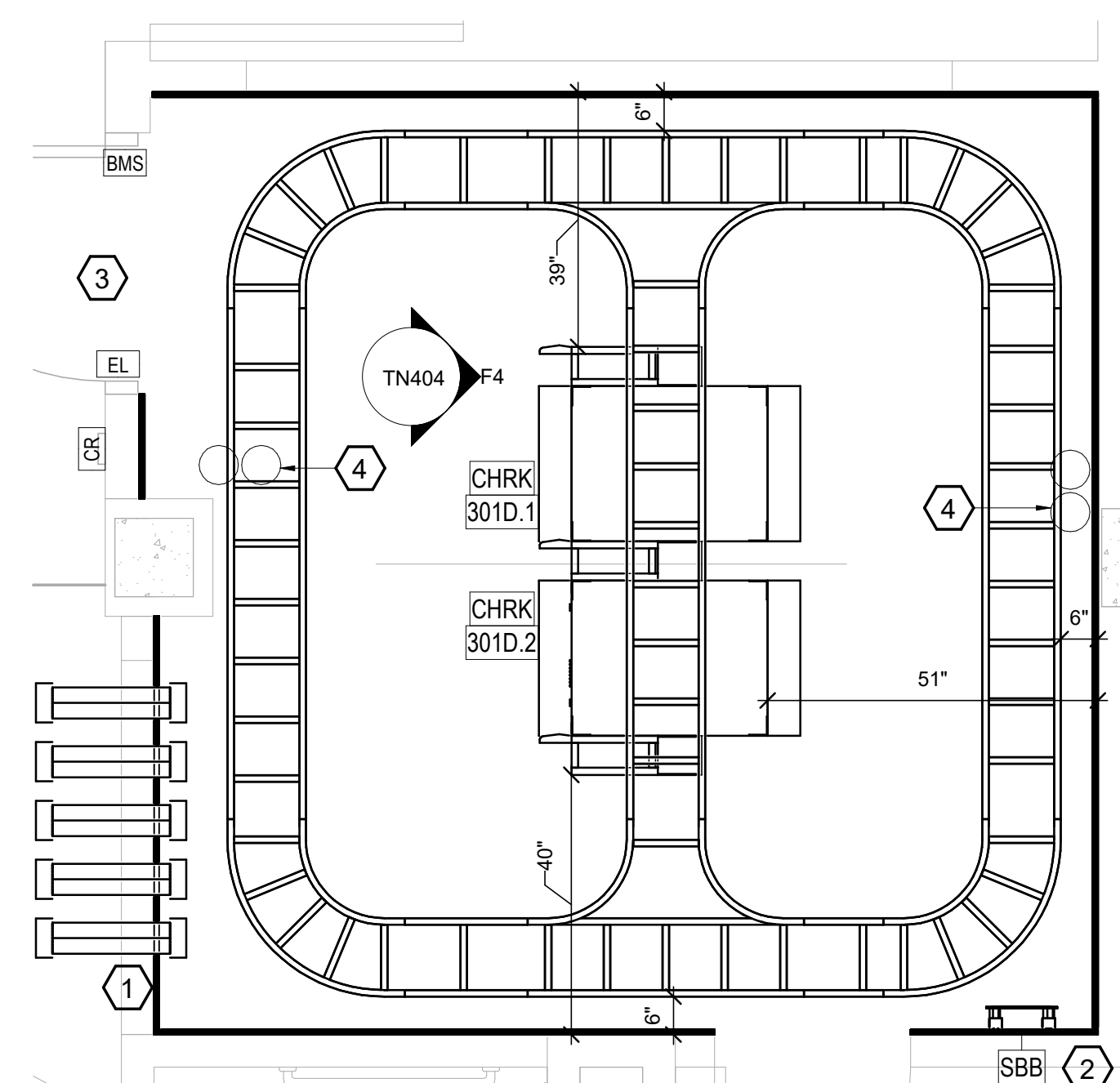
KEYNOTES

- 1. PROVIDE (9) 4" EMT CONDUIT SLEEVES FROM TR LVL 03 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET T6503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, RE, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. (2) 4" CONDUIT SLEEVES THROUGH FLOOR SLAB FOR BACKBONE FIBER PATHWAY TO LEVEL 02 TR 236.

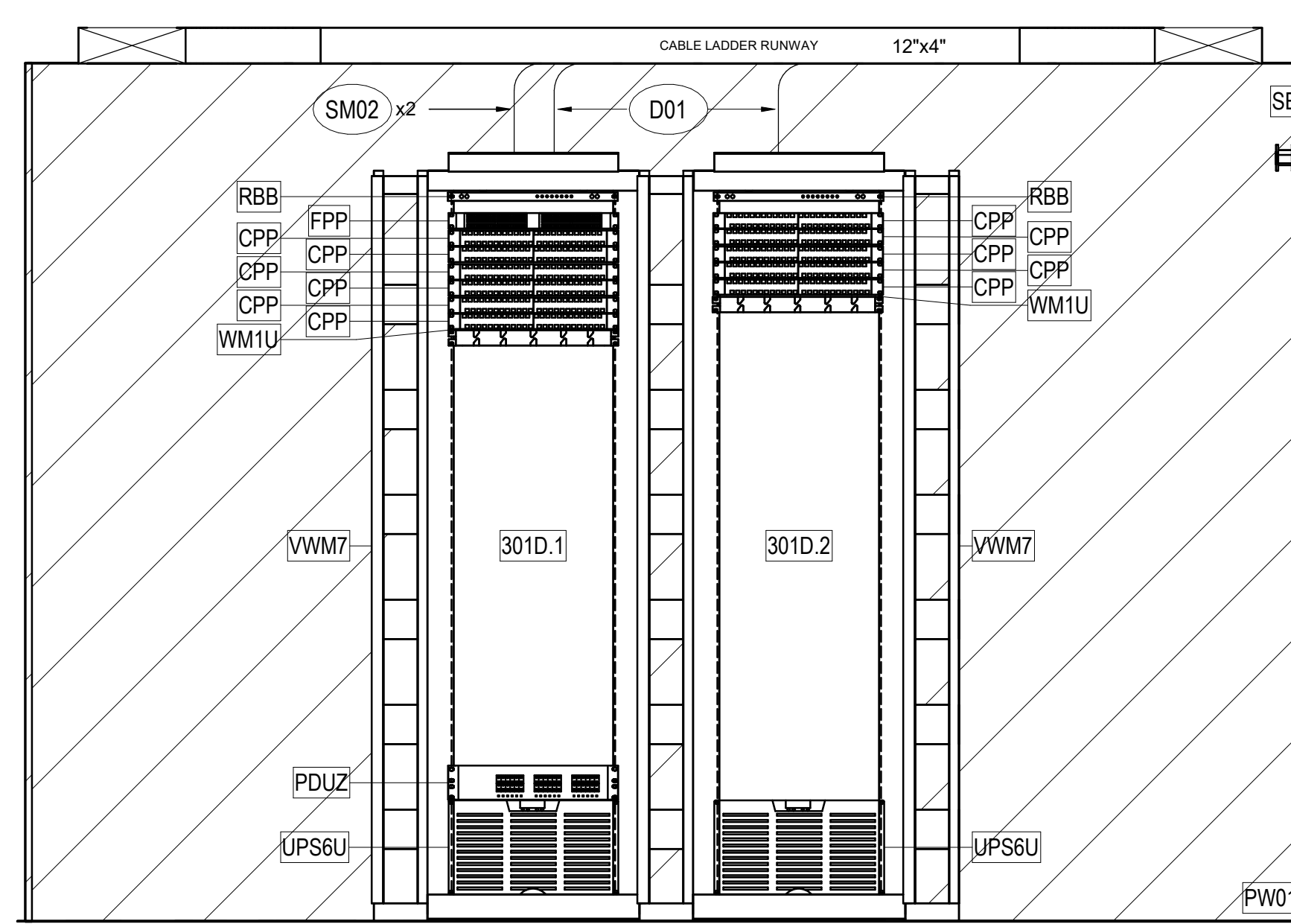
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE_U_1	CABLE_U_2	CABLE_C_1	CABLE_C_2	CABLE COLOR
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR TBD	60	0	0	0	
T3		UNCLASSIFIED	(3) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR TBD	3	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR TBD	340	0	0	0	
116					403	0	0	0	
OUTLET TOTAL: 116					403	0	0	0	

EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET T6503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
	12"x4" CABLE LADDER RUNWAY
SBB	TELECOM SECONDARY BONDING BUSBAR.

RACK ID	EQUIPMENT DESIGNATION	PATCH PANEL ID	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
301D.1	CHRK				OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET T6503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
301D.1	VWM7				OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
301D.1	VWM7				OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
301D.1	FPP				ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
301D.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
301D.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
301D.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
301D.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
301D.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
301D.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
301D.1	WM1U				WIRE MANAGEMENT - 1U HORIZONTAL	1
301D.1	UPS6U				5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
301D.1	PDUZ				208V, 30A 3-PHASE ZONE PDU BASE UNIT WITH (6) REAR L21-20R OUTPUT RECEPTACLES WITH 10 FOOT POWER CORDS TERMINATING IN HARDWARE BOX	2
301D.1	RBB				1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1
301D.2	VWM7				OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
301D.2	CHRK				OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET T6503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
301D.2	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
301D.2	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
301D.2	WM1U				WIRE MANAGEMENT - 1U HORIZONTAL	1
301D.2	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
301D.2	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
301D.2	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
301D.2	UPS6U				5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
301D.2	RBB				1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR 301D
SCALE: 1/2" = 1'-0"



F4 TR 310D RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>CONSULTANT Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD Atriax, plc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title BLDG 001 - ENLARGED PLANS AND ELEV. - TR 301D</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>	
				<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Drawing Number TN404</p>	
						<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 900.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR's SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

KEYNOTES

- 1. PROVIDE (4) 4" CONDUITS IN TELECOM ROOM SOFFIT AND ABOVE CEILING THROUGH ELEVATOR LOBBY FROM TELECOM ROOM TO CABLE TRAY IN CORRIDOR FOR HORIZONTAL PATHWAY.
- 2. SECONDARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, RE, SSTV) TO NEW AC/SIDS PCU LOCATION.
- 4. (2) 4" CONDUITS THROUGH FLOOR SLAB FOR BACKBONE FIBER PATHWAY TO LEVEL 03 TR LVLS.

TELECOM OUTLET SCHEDULE - LEVEL 04

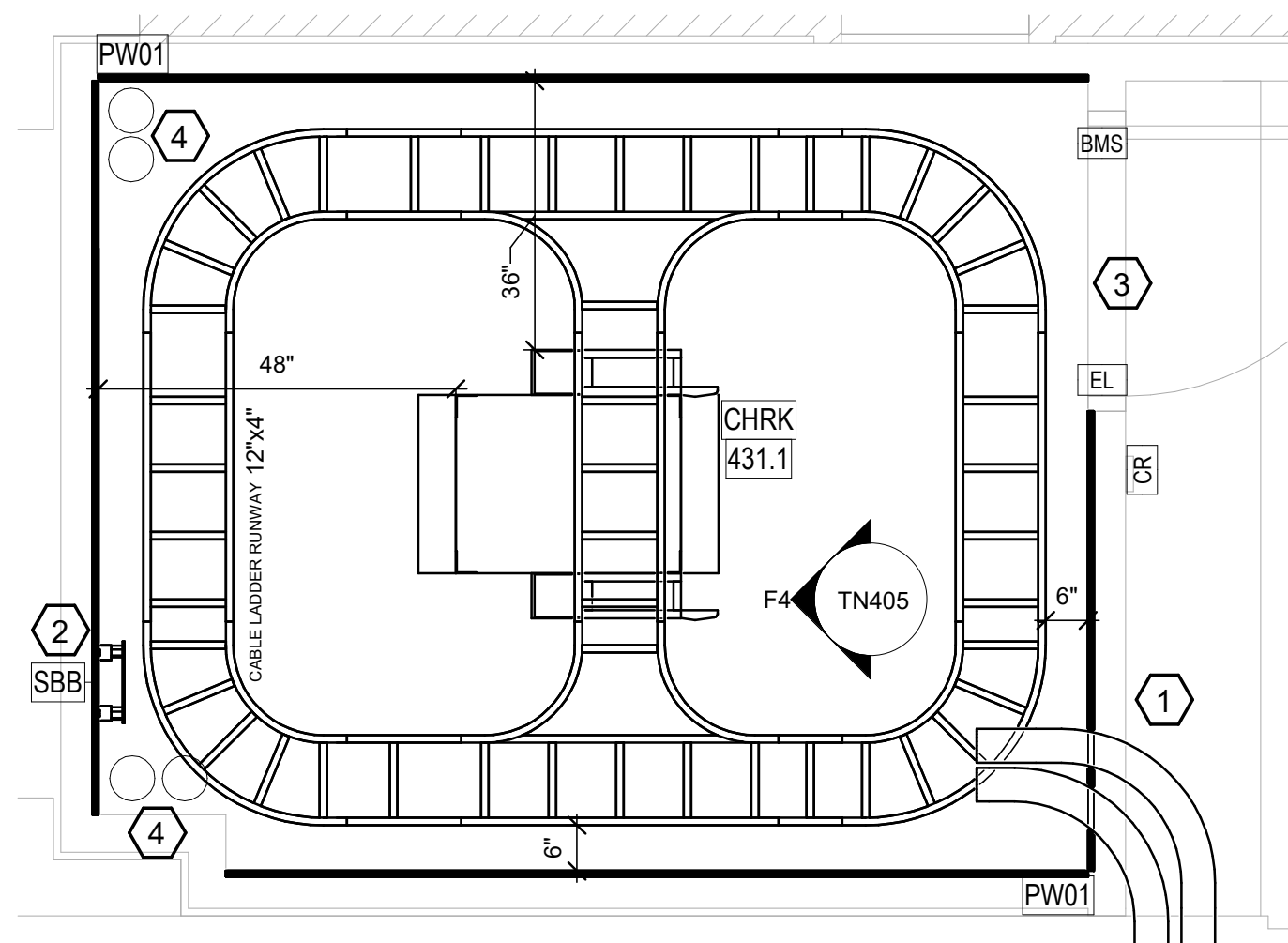
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	ID/TR ROOM NAME AND NUMBER	CABLE_U_1	CABLE_U_2	CABLE_C_1	CABLE_C_2	CABLE COLOR
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 401	22	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 401	120	0	0	0	
T41					142	0	0	0	
OUTLET TOTAL: 41					142	0	0	0	

TR 431 EQUIPMENT SCHEDULE

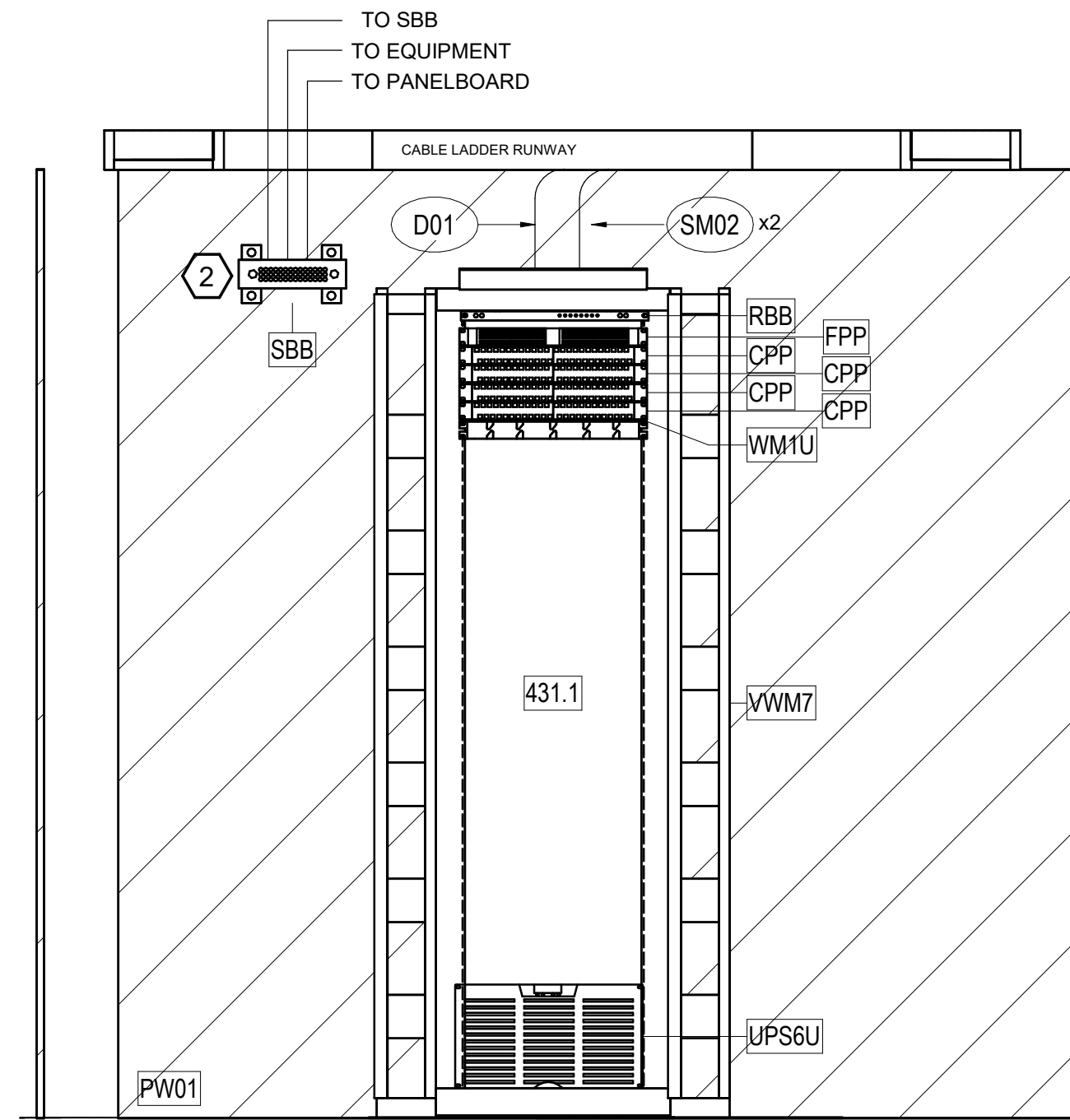
EQUIPMENT DESIGNATION	DESCRIPTION
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD. 12"x4" CABLE LADDER RUNWAY
SBB	TELECOM SECONDARY BONDING BUSBAR.

TR 431 EQUIPMENT RACK SCHEDULE

RACK ID	EQUIPMENT DESIGNATION	PATCH PANEL ID	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
431.1	CHRK				OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
431.1	VWM7				OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
431.1	VWM7				OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
431.1	RBB				1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1
431.1	FPP				ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
431.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
431.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
431.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
431.1	CPP				CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
431.1	WM1U				WIRE MANAGEMENT - 1U HORIZONTAL	1
431.1	UPS6U				5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6



F1 ENLARGED PLAN - TR 431
SCALE: 1/2" = 1'-0"



F4 TR 431 RACK ELEVATION
SCALE: 3/4" = 1'-0"

Revisions:	Date:

CONSULTANT

WileyWilson
127 Nationwide Drive
Lynchburg, VA 24502
Phone: 434.947.1901
www.wileywilson.com

SPECIALIZED ENGINEERING SOLUTIONS
Specialized Engineering Solutions
1300 Baxter Street, Suite 355
Charlotte, NC 28204

ARCHITECT/ENGINEER OF RECORD

Atriax GROUP
www.atriaxgroup.com

Atriax, pllc
703 Main Avenue SW
PO Box 1629, Hickory, NC 28603
Phone: 828.315.9962
Fax: 828.315.9964

NC Engineering License No.: P-0214
NC Architectural License No.: 51254

Bicsi
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICS11076239954
Expires 03/31/25
RCD
03/08/24

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
BLDG 001 - ENLARGED PLANS AND ELEV. - TR 431

Approved: Chief Engineer

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE UPGRADES

Location
TUSCALOOSA VAMC, TUSCALOOSA, AL.

Issue Date
03/08/2024

Checked
JMM

Drawn
JEH

Project Number
679-20-104

Building Number
001

Drawing Number
TN405

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

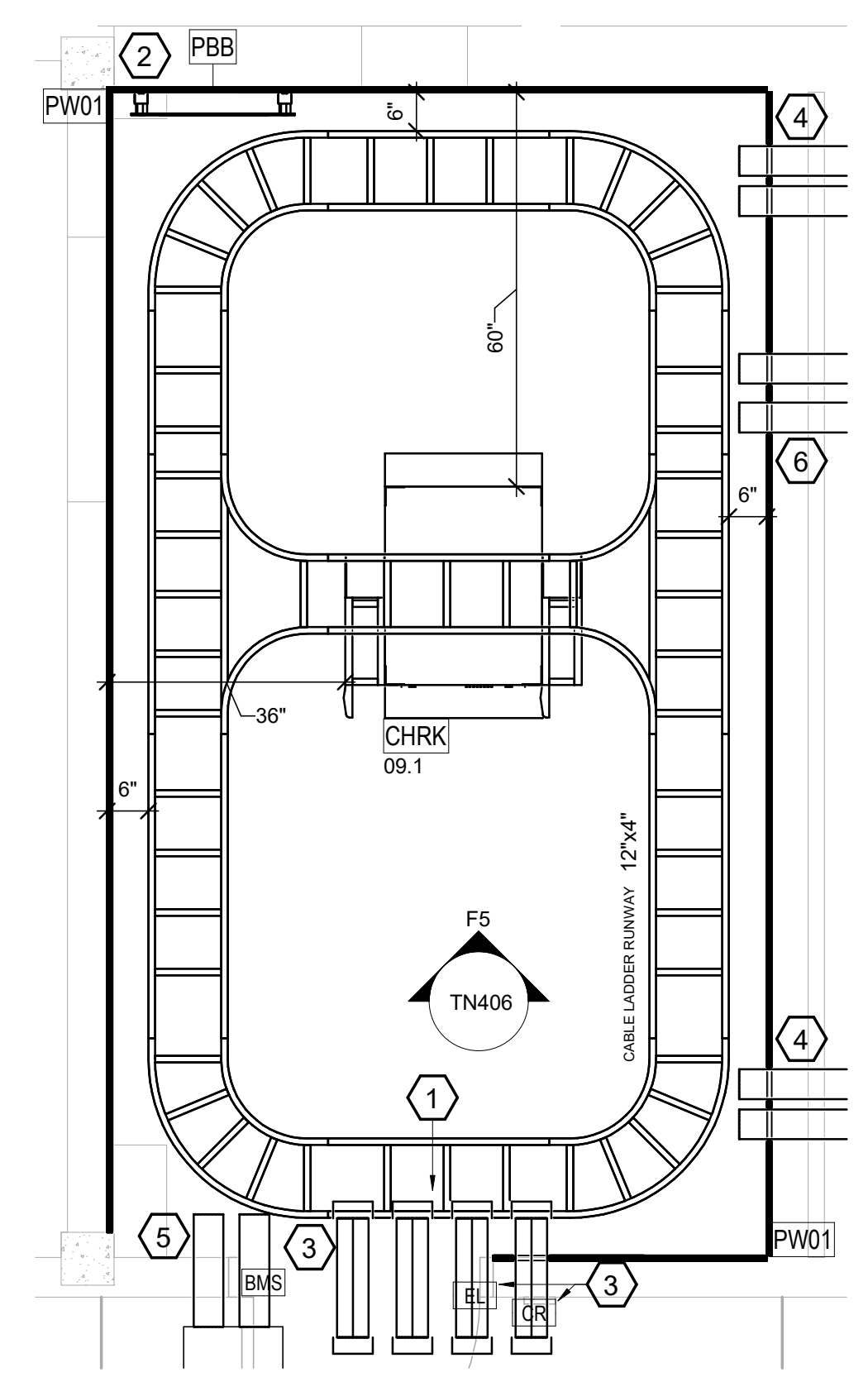
KEYNOTES:

- 1. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR 09 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. PRIMARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. (2) 4" CONDUITS OUT TO CORRIDOR AND THROUGH CEILING DECK FOR BACKBONE FIBER PATHWAY TO LEVEL 01 TR 116.
- 5. EXTEND (2) 4" CONDUITS TO BUILDING 003 FOR BACKBONE FIBER PATHWAYS.
- 6. EXTEND (2) 4" CONDUITS TO BUILDINGS 003 AND 038 FOR BACKBONE FIBER PATHWAYS.

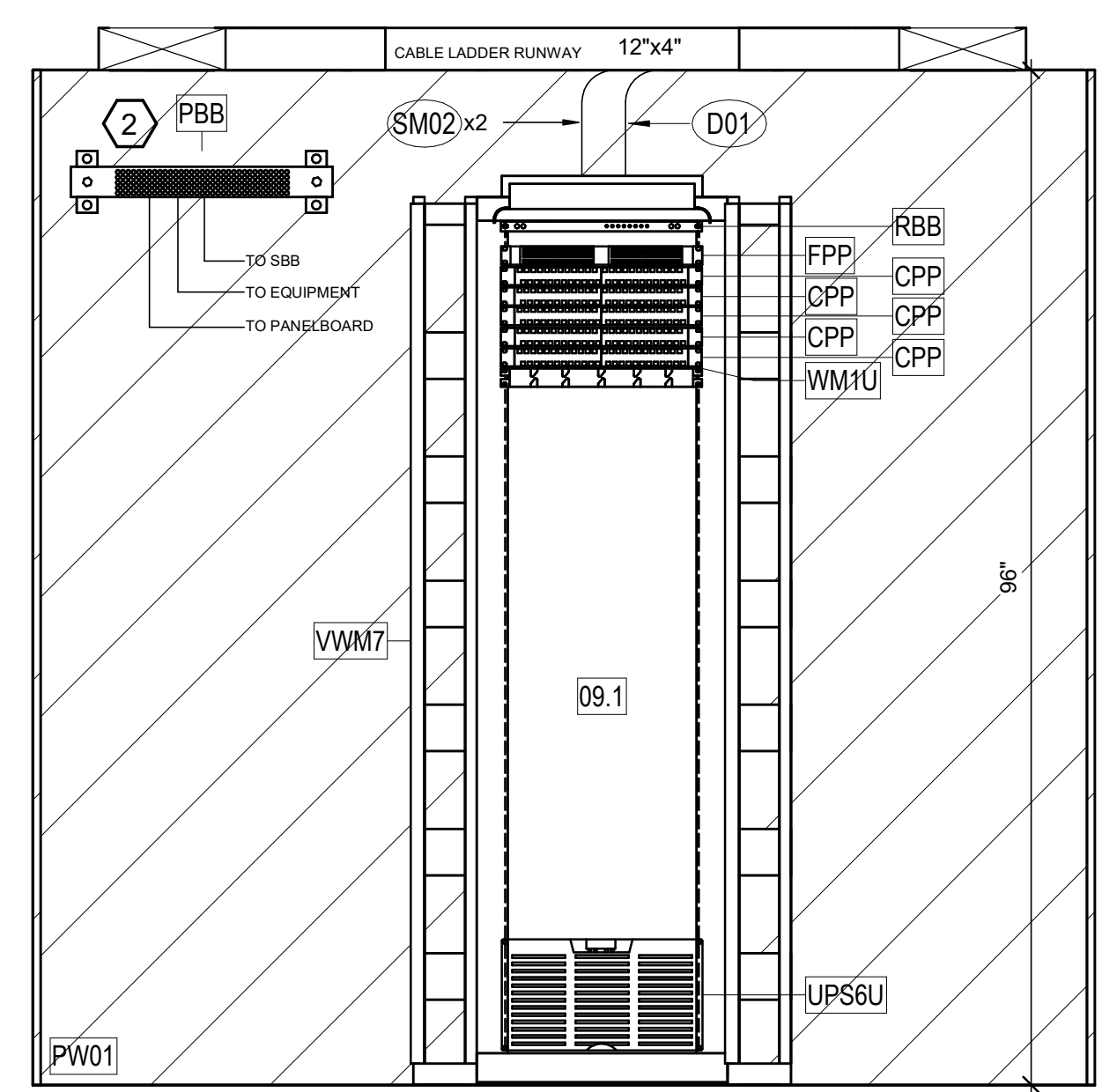
TR 09 EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 84" WHITE
PBB	12"x4" CABLE LADDER RUNWAY TELECOM PRIMARY BONDING BUSBAR.

TELECOM OUTLET SCHEDULE - GROUND LEVEL									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE U_1	CABLE U_2	CABLE C_1	CABLE C_2	CABLE COLOR
T2		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 09	20	0	0	0	
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 09	22	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 09	120	0	0	0	
: 51					162	0	0	0	
OUTLET TOTAL: 51					162	0	0	0	

TR 09 EQUIPMENT RACK SCHEDULE						
RACK ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
09.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
09.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
09.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
09.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
09.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
09.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
09.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
09.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
09.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
09.1		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
09.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
09.1		RBB			1U RACK BONDING BUSBAR MOUNTED TO THE BACK OF EQUIPMENT RACK.	1



F2 ENLARGED PLAN - TR 09
SCALE: 1/2" = 1'-0"



F5 TR 09 RACK ELEVATION
SCALE: 3/4" = 1'-0"

Revisions:	Date:

CONSULTANT

 127 Nationwide Drive
 Lynchburg, VA 24502
 Phone: 434.947.1901
 www.wileywilson.com

SPECIALIZED ENGINEERING SOLUTIONS

 Specialized Engineering Solutions
 1300 Baxter Street, Suite 355
 Charlotte, NC 28204

ARCHITECT/ENGINEER OF RECORD STAMP

 Atriax, pllc
 703 Main Avenue SW
 PO Box 16229, Hickory, NC 28603
 Phone: 828.315.9962
 Fax: 828.315.9964
 www.atriaxgroup.com
 NC Engineering License No.: P-0214
 NC Architectural License No.: 51254

Bicsi
 REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
 BICSI 107 219954
 Expires 03-31-25
 RCD 03/08/24

Office of Construction and Facilities Management

 U.S. Department of Veterans Affairs

Drawing Title
BLDG 002 - ENLARGED PLANS AND ELEV. - TR 9

Phase
100% CONSTRUCTION DOCUMENTS

Approved: Chief Engineer

Project Title
EHRM INFRASTRUCTURE UPGRADES

Project Number
679-20-104

Building Number
002

Location
TUSCALOOSA VAMC, TUSCALOOSA, AL.

Issue Date
03/08/2024

Checked
JMM

Drawn
JEH

Project Number
TN406

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 90 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

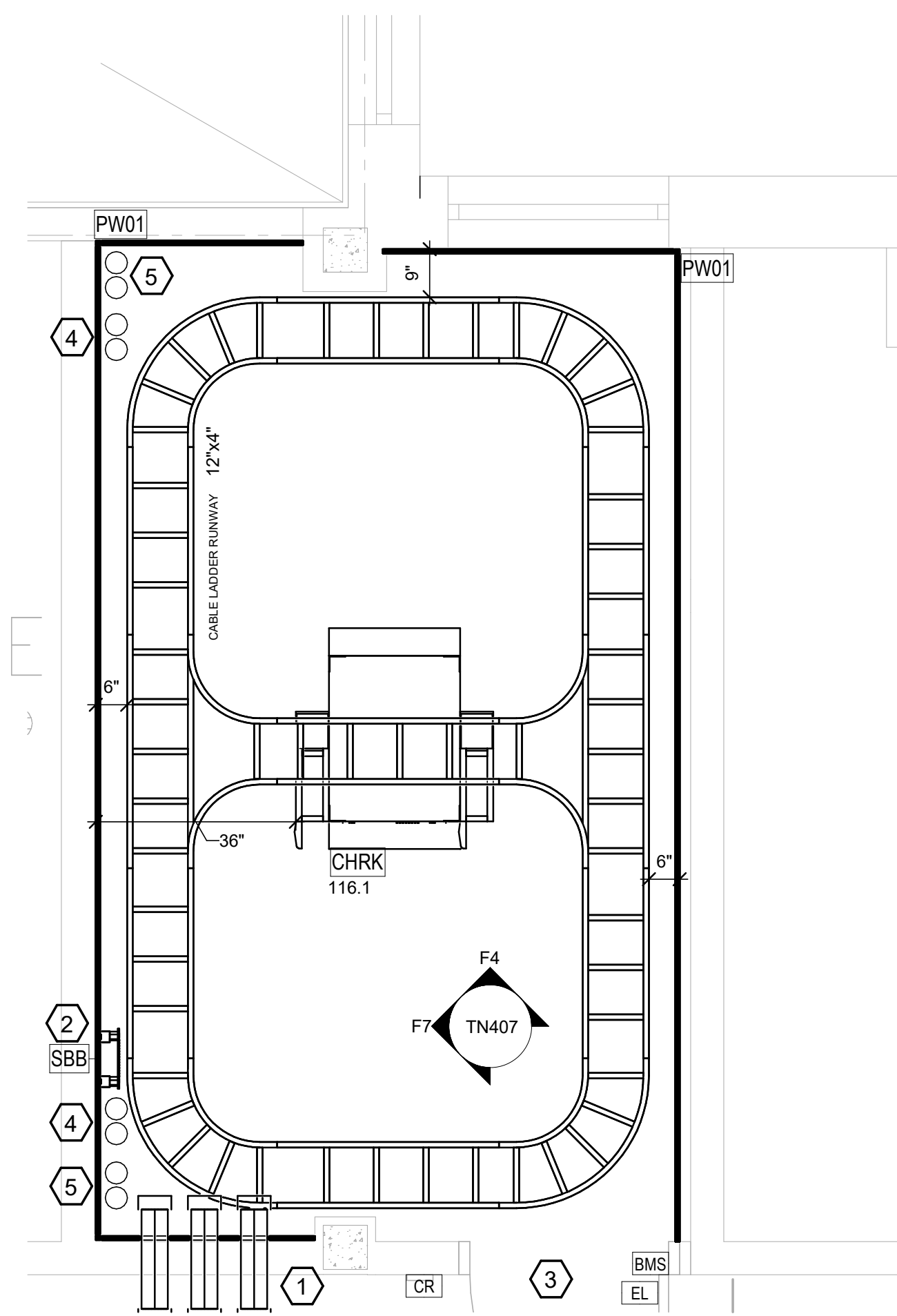
KEYNOTES:

- 1. PROVIDE (3) 4" EMT CONDUIT SLEEVES FROM TR 116 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. (2) 4" CONDUIT SLEEVES THROUGH FLOOR SLAB FOR BACKBONE FIBER PATHWAY TO GROUND LEVEL TR 9.
- 5. (2) 4" CONDUIT SLEEVES THROUGH CEILING DECK FOR BACKBONE FIBER PATHWAY TO LEVEL 02 TR 216.

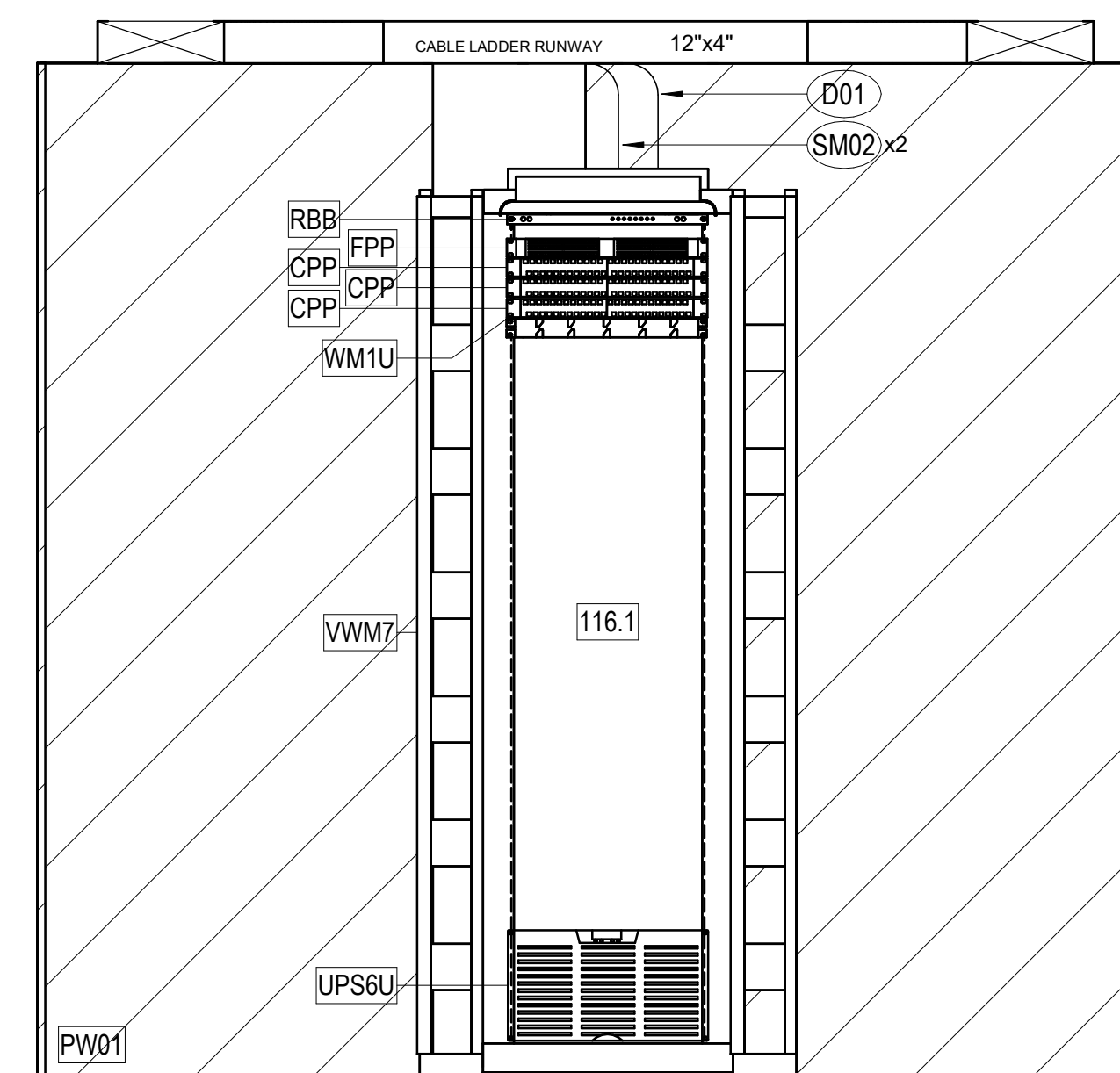
TR 116 EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
CHRK	12"x4" CABLE LADDER RUNWAY OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
SBB	ANSI/ EIA/ TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB).

TELECOM OUTLET SCHEDULE - LEVEL 01									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE U 1	CABLE U 2	CABLE C 1	CABLE C 2	CABLE COLOR
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 116	14	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 116	96	0	0	0	
WP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 116	4	0	0	0	
					114	0	0	0	
					114	0	0	0	
OUTLET TOTAL: 32									

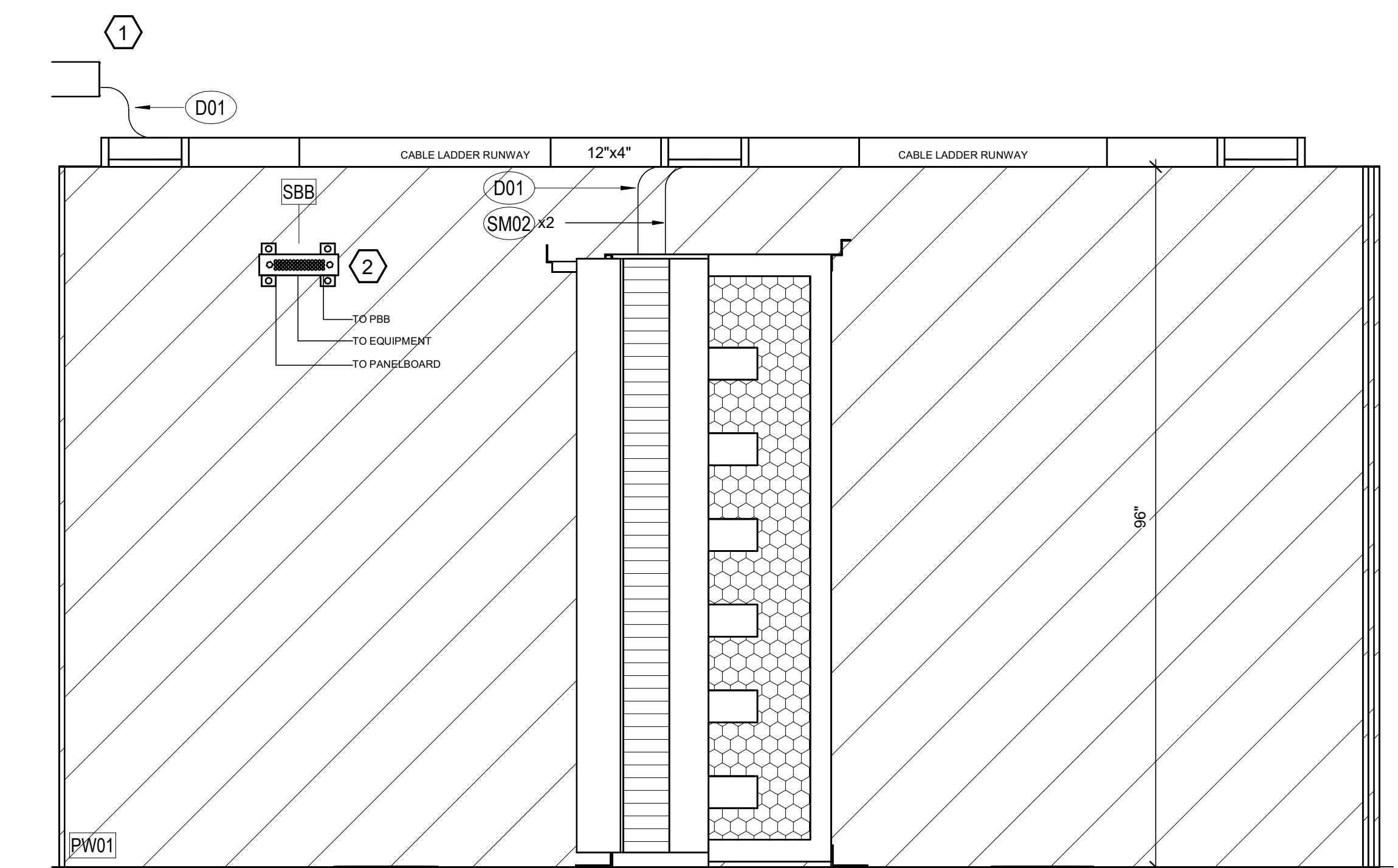
TR 116 EQUIPMENT RACK SCHEDULE						
RACK ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
116.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
116.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
116.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
116.1		UPS6U			5 KW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
116.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
116.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U. ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
116.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U. ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
116.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
116.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U. ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
116.1		RBB			1U RACK BONDING BUSBAR MOUNTED TO THE BACK OF EQUIPMENT RACK.	1



F2 ENLARGED PLAN - TR 116
SCALE: 1/2" = 1'-0"



F4 TR 116 RACK ELEVATION
SCALE: 3/4" = 1'-0"



F7 TR 116 WEST WALL ELEVATION
SCALE: 3/4" = 1'-0"

<p>CONSULTANT</p> <p>Wiley Wilson</p> <p>Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p> <p>NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>Office of Construction and Facilities Management</p> <p>U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>BLDG 002 - ENLARGED PLANS AND ELEV. - TR 116</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>
			<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Drawing Number</p> <p>TN407</p>
<p>Revisions:</p>	<p>Date:</p>	<p>Issue Date</p> <p>03/08/2024</p>	<p>Checked</p> <p>JMM</p>	<p>Drawn</p> <p>JEH</p>	<p>Project Number</p> <p>679-20-104</p>	<p>Building Number</p> <p>002</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN800 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

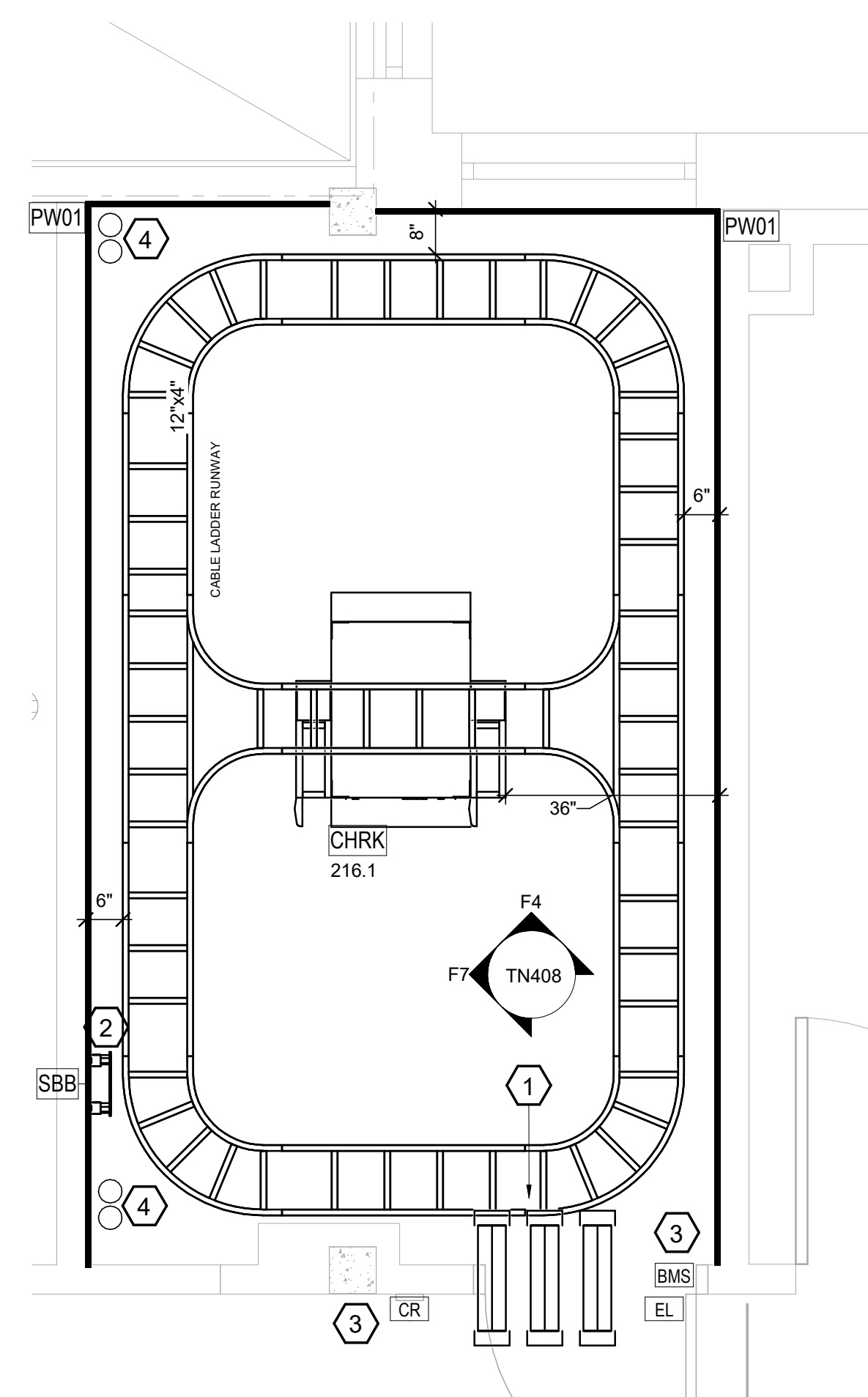
KEYNOTES:

- 1. PROVIDE (8) 4" EMT CONDUIT SLEEVES FROM TR 1 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. (2) 4" CONDUIT SLEEVES THROUGH FLOOR SLAB FOR BACKBONE FIBER PATHWAY TO LEVEL 01 TR 116.

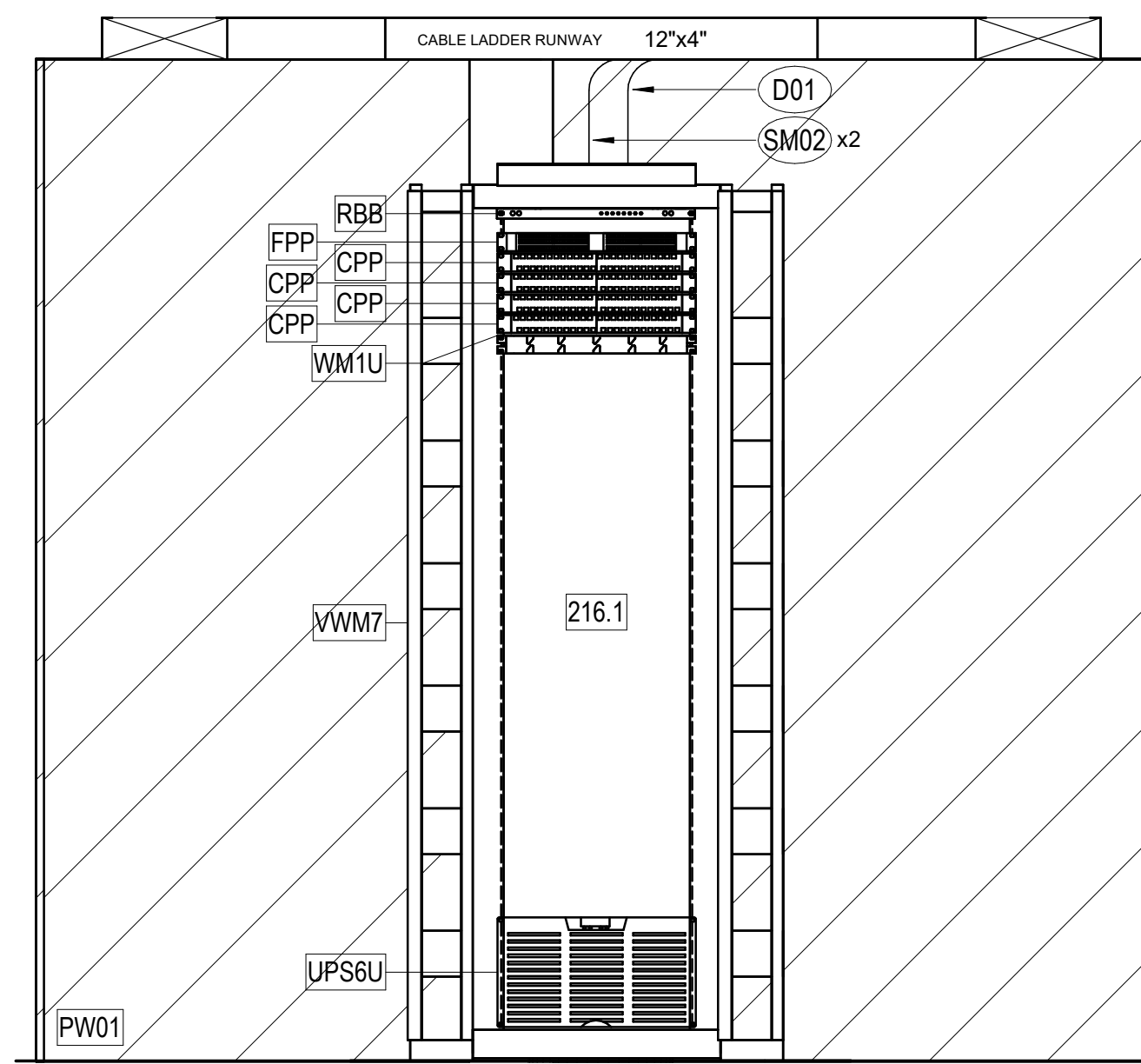
TR 216 EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
SBB	12"x4" CABLE LADDER RUNWAY ANSI/EIA/TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB).

TELECOM OUTLET SCHEDULE - LEVEL 02									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE_U_1	CABLE_U_2	CABLE_C_1	CABLE_C_2	CABLE COLOR
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 216	20	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 216	96	0	0	0	
34					116	0	0	0	
OUTLET TOTAL: 34					116	0	0	0	

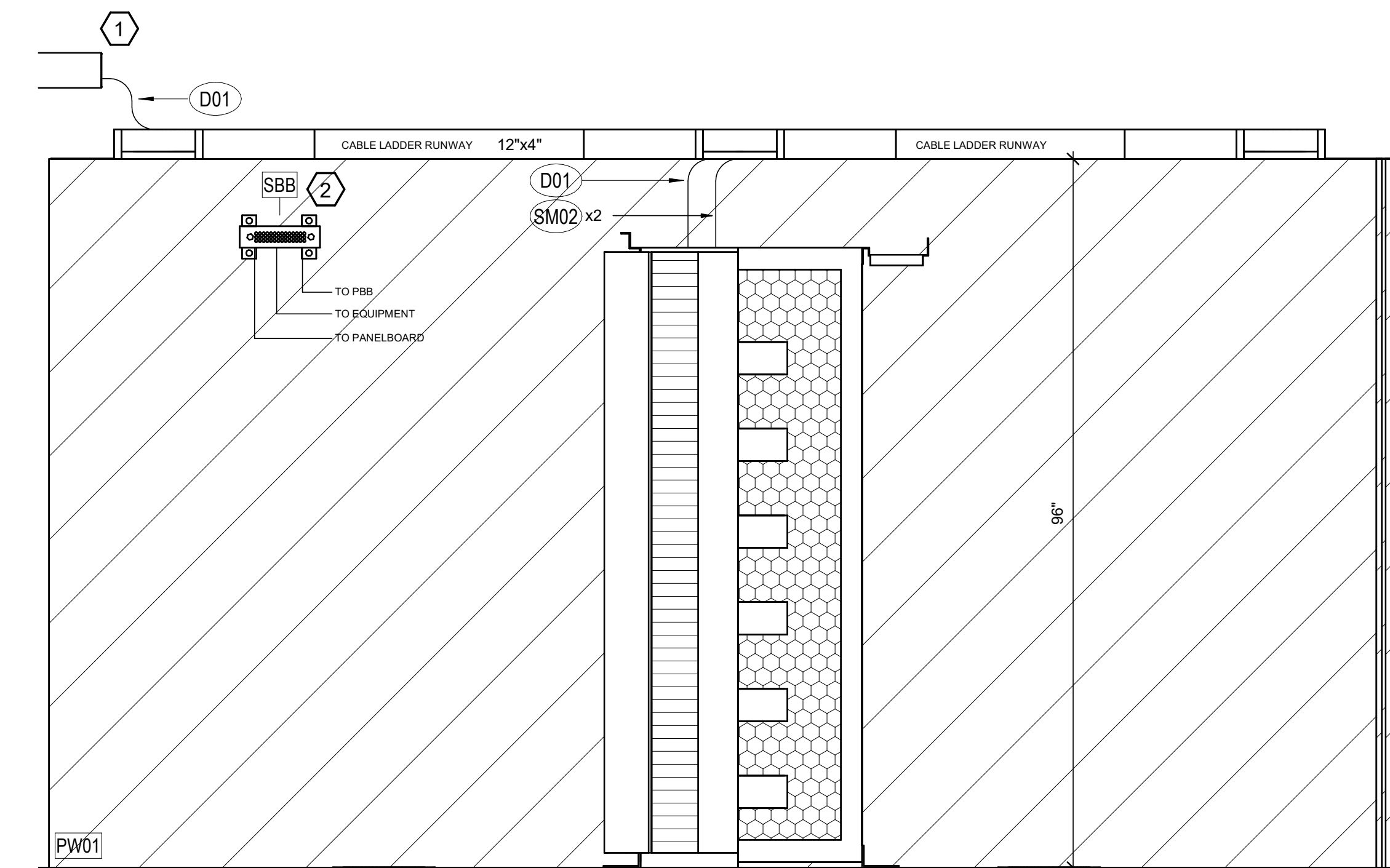
TR 216 EQUIPMENT RACK SCHEDULE						
RACK ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
216.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
216.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
216.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
216.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
216.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
216.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
216.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
216.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
216.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
216.1		UPS6U			5 kW 208V w/20A SW IN/SW OUT, TWO INTERNAL BATTERY STRING	6
216.1		RBB			1U RACK BONDING BUSBAR MOUNTED TO THE BACK OF EQUIPMENT RACK.	1



F2 ENLARGED PLAN - TR 216
SCALE: 1/2" = 1'-0"



F4 TR 216 RACK ELEVATION
SCALE: 3/4" = 1'-0"



F7 TR 216 WEST WALL ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>CONSULTANT</p> <p>WileyWilson</p> <p>127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax GROUP</p> <p>www.atriaxgroup.com</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964</p> <p>NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP</p> <p>Bicsi</p> <p>REGISTERED COMMUNICATIONS DISTRIBUTION TECHNOLOGIST</p> <p>03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>BLDG 002 - ENLARGED PLANS AND ELEV. - TR 216</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>		
					<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number</p> <p>002</p>		
							<p>Issue Date</p> <p>03/08/2024</p>	<p>Checked</p> <p>JMM</p>	<p>Drawn</p> <p>JEH</p>	<p>Drawing Number</p> <p>TN408</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

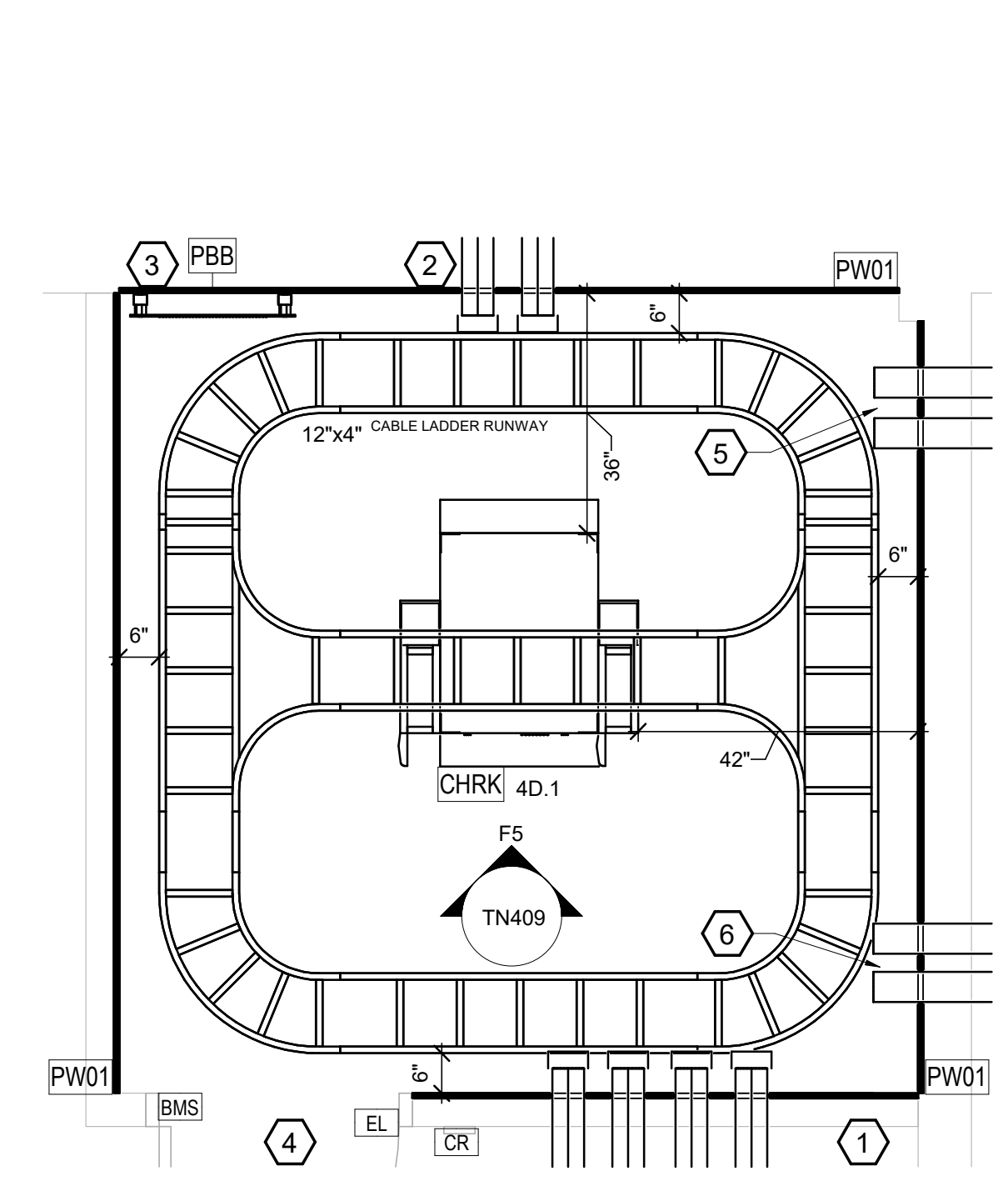
#KEYNOTES:

- 1. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR 4D TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. PROVIDE (2) 4" EMT CONDUIT SLEEVES FROM TR 4D FOR STRUCTURED CABLING PATHWAY.
- 3. PRIMARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 4. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACSISIS PDU LOCATION.
- 5. (2) 4" CONDUITS FOR FIBER BACKBONE PATHWAY.
- 6. (2) 4" CONDUITS FOR FIBER BACKBONE PATHWAY.

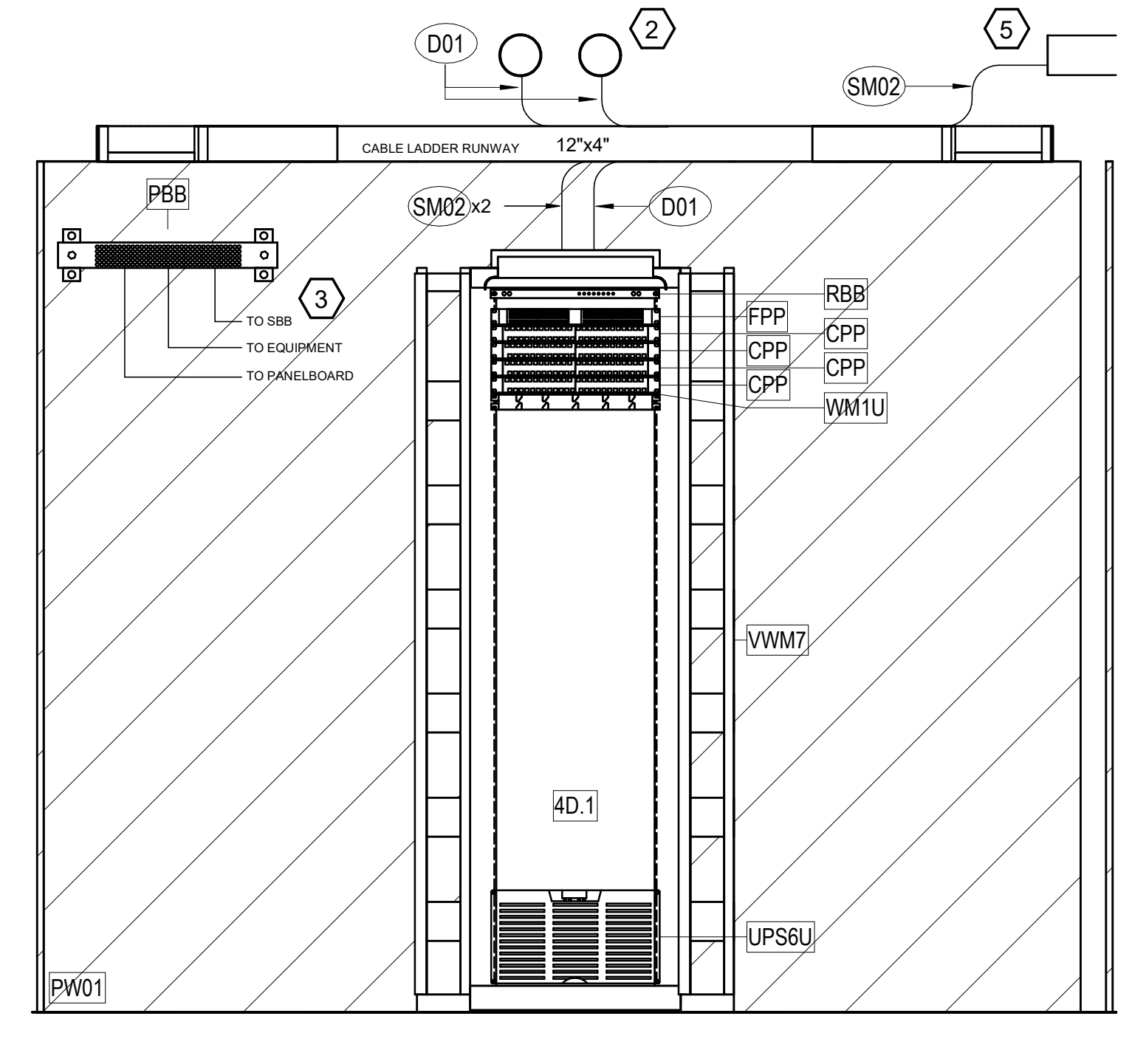
TR 4D EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
PBB	TELECOM PRIMARY BONDING BUSBAR. 12"x4" CABLE LADDER RUNWAY

TELECOM OUTLET SCHEDULE - GROUND LEVEL									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE_U_1	CABLE_U_2	CABLE_C_1	CABLE_C_2	CABLE COLOR
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 4D	18	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 4D	100	0	0	0	
34					118	0	0	0	
OUTLET TOTAL: 34									

TR 4D EQUIPMENT RACK SCHEDULE						
RACK_ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
4D.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
4D.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
4D.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
4D.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
4D.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
4D.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
4D.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
4D.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
4D.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
4D.1		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
4D.1		RBB			1U RACK BONDING BUSBAR MOUNTED TO BACK OF EQUIPMENT RACK.	1



F2 ENLARGED PLAN - TR 4D
SCALE: 1/2" = 1'-0"



F5 TR 4D RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>CONSULTANT</p> <p>WileyWilson</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>SES</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax GROUP</p> <p>www.atriaxgroup.com</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964</p> <p>NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP</p> <p>Bicsi</p> <p>REGISTERED COMMUNICATIONS DISTRIBUTION TECHNICIAN</p> <p>BICSI 107623954 Expires 03/31/25</p> <p>03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>BLDG 003 - ENLARGED PLANS AND ELEV. - TR 4D</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>
					<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number</p> <p>003</p>
<p>Revisions:</p>	<p>Date:</p>	<p>Issue Date</p> <p>03/08/2024</p>	<p>Checked</p> <p>JMM</p>	<p>Drawn</p> <p>JEH</p>	<p>Project Number</p> <p>TN409</p>			

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN800 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

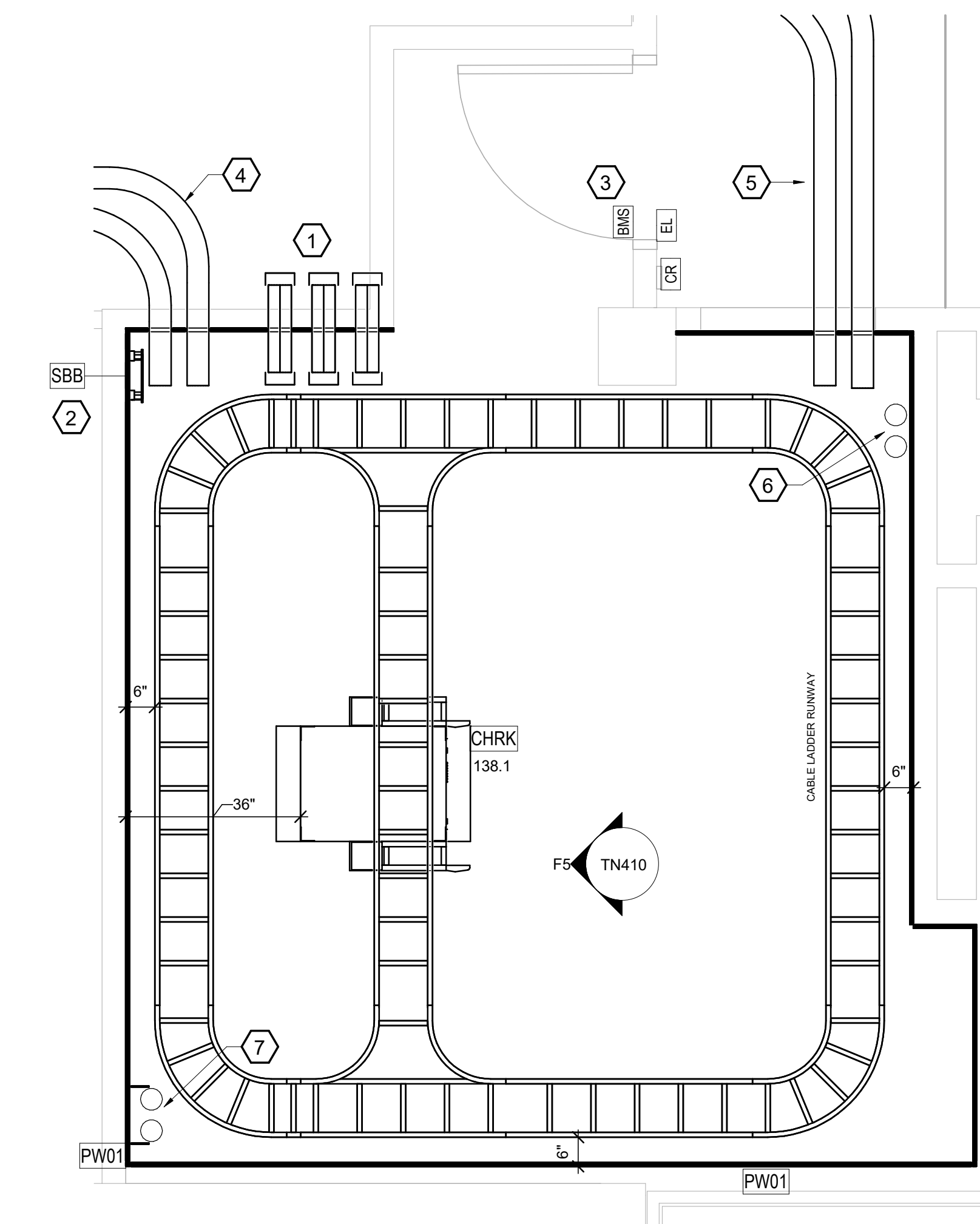
KEYNOTES:

- 1. PROVIDE (5) 4" EMT CONDUIT SLEEVES FROM TR 138 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR, SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REK, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. EXTEND (2) 4" CONDUITS FROM TR 138 AND UP THROUGH CEILING DECK INTO LEVEL 02 TR 216 FOR FIBER BACKBONE PATHWAY.
- 5. EXTEND (2) 4" CONDUITS FROM TR 138 AND UP THROUGH CEILING DECK INTO LEVEL 02 TR 216 FOR FIBER BACKBONE PATHWAY.
- 6. (2) 4" CONDUITS THROUGH FLOOR AND ROUTED TO PULL BOX IN GROUND LEVEL CORRIDOR FOR FIBER PATHWAY.
- 7. (2) 4" CONDUITS THROUGH FLOOR AND ROUTED TO PULL BOX IN GROUND LEVEL CORRIDOR FOR FIBER PATHWAY.

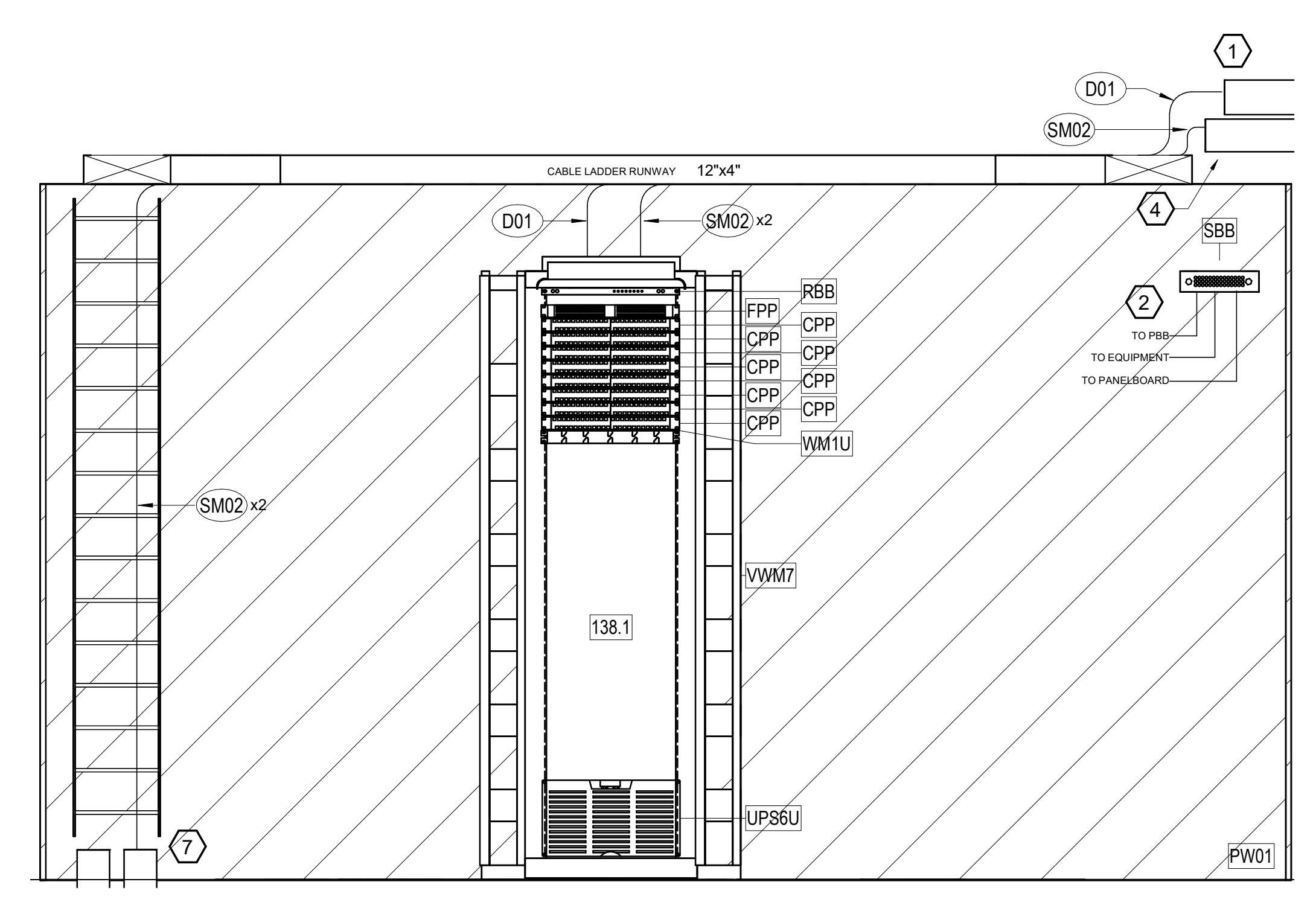
TR 138 EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4" X 8' AC GRADE PLYWOOD.
CHRK	12"x4" CABLE LADDER RUNWAY OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
SBB	ANSI/ EIA/ TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB).

TELECOM OUTLET SCHEDULE - LEVEL 01										
TR	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE U_1	CABLE U_2	CABLE C_1	CABLE C_2	CABLE COLOR	FLOOR NUMBER
T1		UNCLASSIFIED	(1) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 138	0	0	0	0		01
T2		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 138	0	0	0	0		01
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 138	22	0	0	0		01
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 138	12	0	0	0		GROUND LEVEL
T3		UNCLASSIFIED	(3) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 138	60	0	0	0		01
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 138	64	0	0	0		01
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 138	92	0	0	0		GROUND LEVEL
T6		UNCLASSIFIED	(6) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 138	0	0	0	0		01
T6		UNCLASSIFIED	(6) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 138	36	0	0	0		01
: 86					286	0	0	0		
OUTLET TOTAL: 86					286	0	0	0		

TR 138 EQUIPMENT RACK SCHEDULE						
RACK_ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
138.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
138.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
138.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
138.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
138.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
138.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
138.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
138.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
138.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
138.1		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
138.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
138.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
138.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
138.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
138.1		RBB			1U RACK BONDING BUSBAR MOUNTED TO BACK OF EQUIPMENT RACK.	1



F2 ENLARGED PLAN - TR 138
SCALE: 1/2" = 1'-0"



F5 TR 138 RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>CONSULTANT</p> <p>WileyWilson</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964</p> <p>www.atriaxgroup.com</p> <p>NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>BLDG 003 - ENLARGED PLANS AND ELEV. - TR 138</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>
			<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Project Number</p> <p>TN410</p>
<p>Revisions:</p>	<p>Date:</p>	<p>Issue Date</p> <p>03/08/2024</p>	<p>Checked</p> <p>JMM</p>	<p>Drawn</p> <p>JEH</p>		

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM IT'S TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 900.46 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR's SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

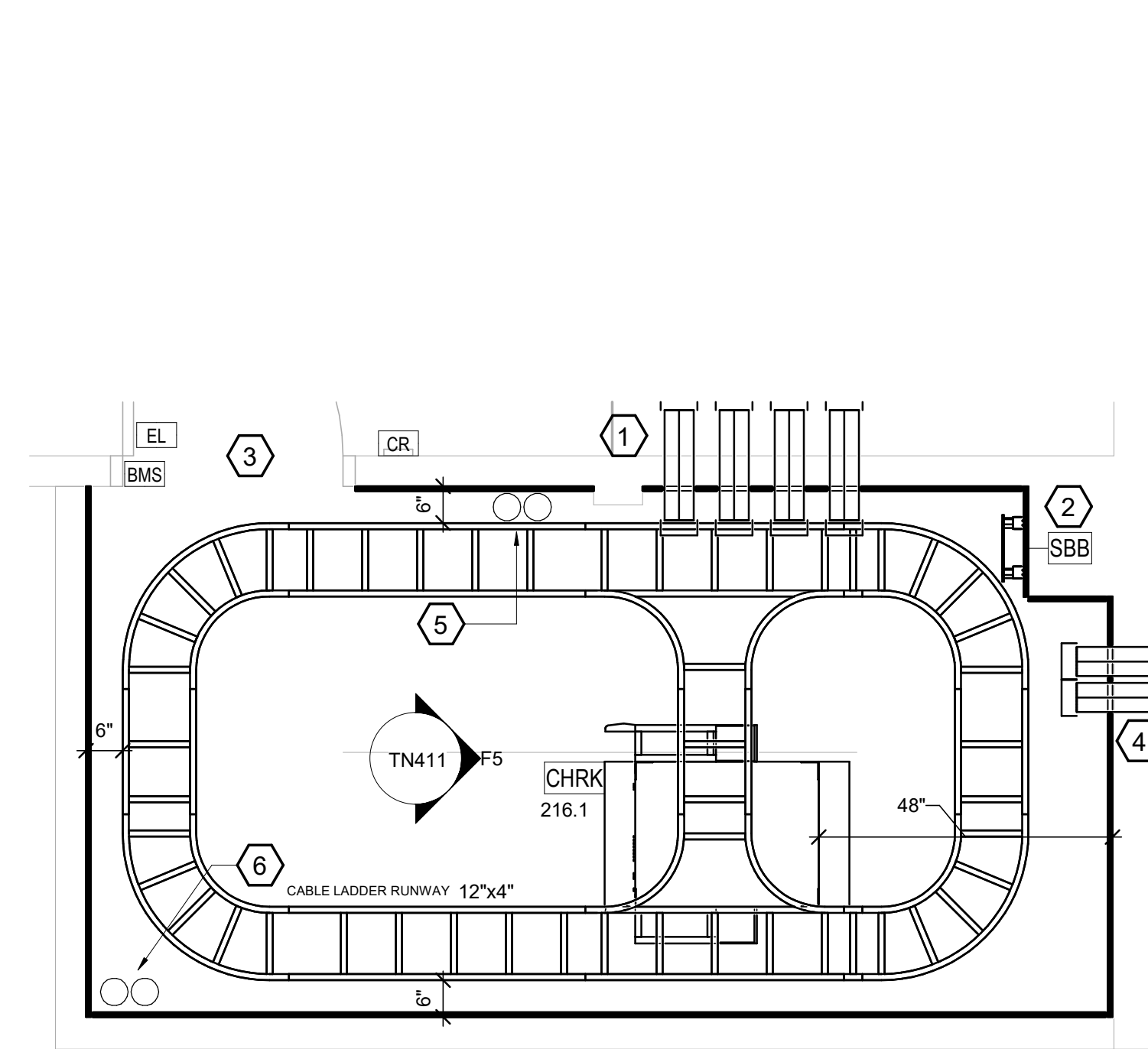
KEYNOTES:

- 1. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR 216 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. PROVIDE (2) 4" SLEEVES THROUGH WALL FROM TR 216 TO DC 215 FOR BACKBONE AND SERVICE PROVIDER FIBER PATHWAYS.
- 5. (2) 4" CONDUITS THROUGH FLOOR AND ROUTED TO LEVEL 01 TR 138 FOR FIBER BACKBONE PATHWAY.
- 6. (2) 4" CONDUITS THROUGH FLOOR AND ROUTED TO LEVEL 01 TR 138 FOR FIBER BACKBONE PATHWAY.

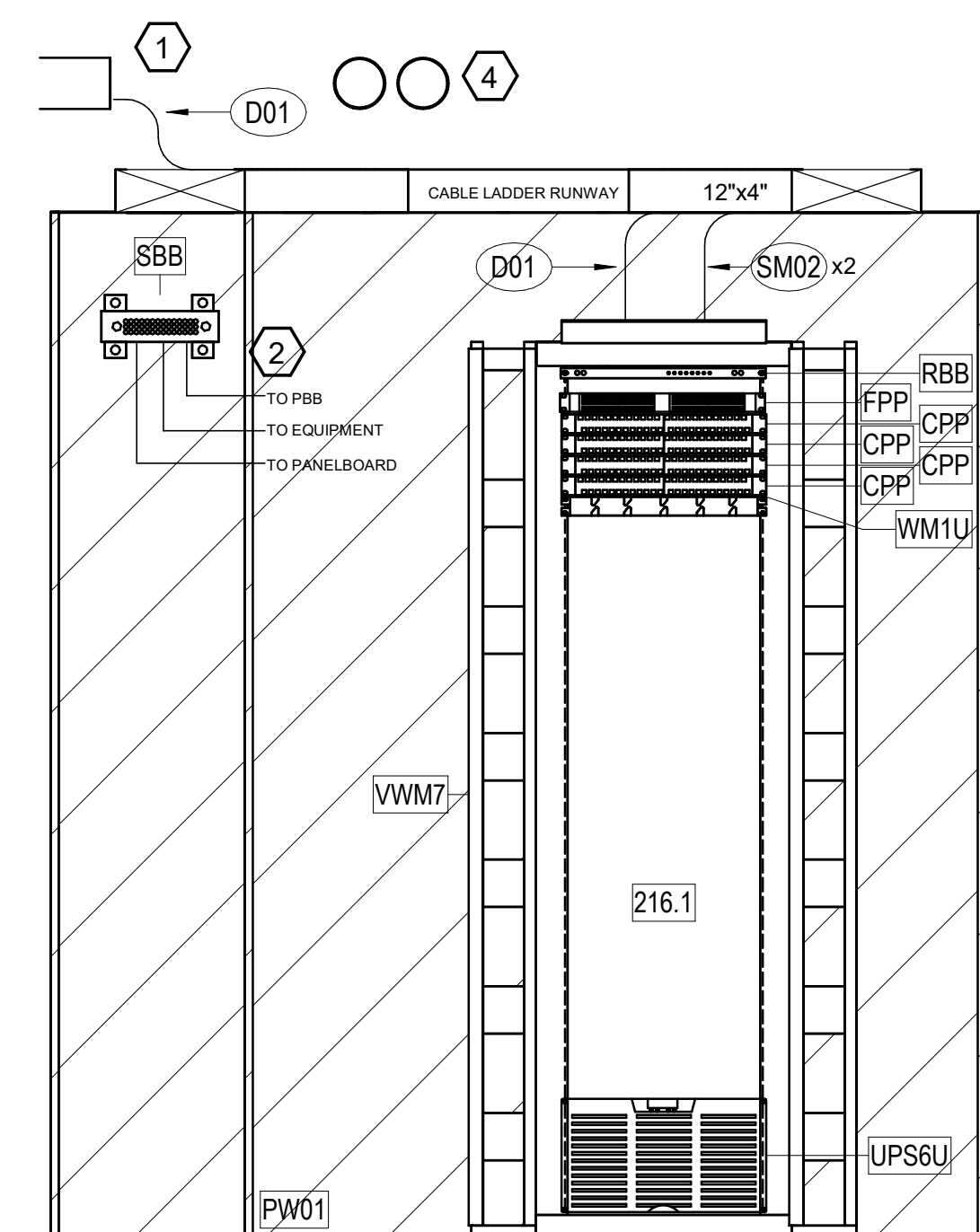
TR 216 EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4" X 8" AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
SBB	ANSI/ EIA/ TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB).
	12"x4" CABLE LADDER RUNWAY

TELECOM OUTLET SCHEDULE - LEVEL 02									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	ID#/TR ROOM NAME AND NUMBER	CABLE U_1	CABLE U_2	CABLE C_1	CABLE C_2	CABLE COLOR
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 215	18	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 215	112	0	0	0	
: 37					130	0	0	0	
OUTLET TOTAL: 37					130	0	0	0	

TR 216 EQUIPMENT RACK SCHEDULE						
RACK_ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
216.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
216.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
216.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
216.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
216.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
216.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
216.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
216.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
216.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
216.1		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
216.1		RBB			1U RACK BONDING BUSBAR MOUNTED TO BACK OF EQUIPMENT RACK.	1

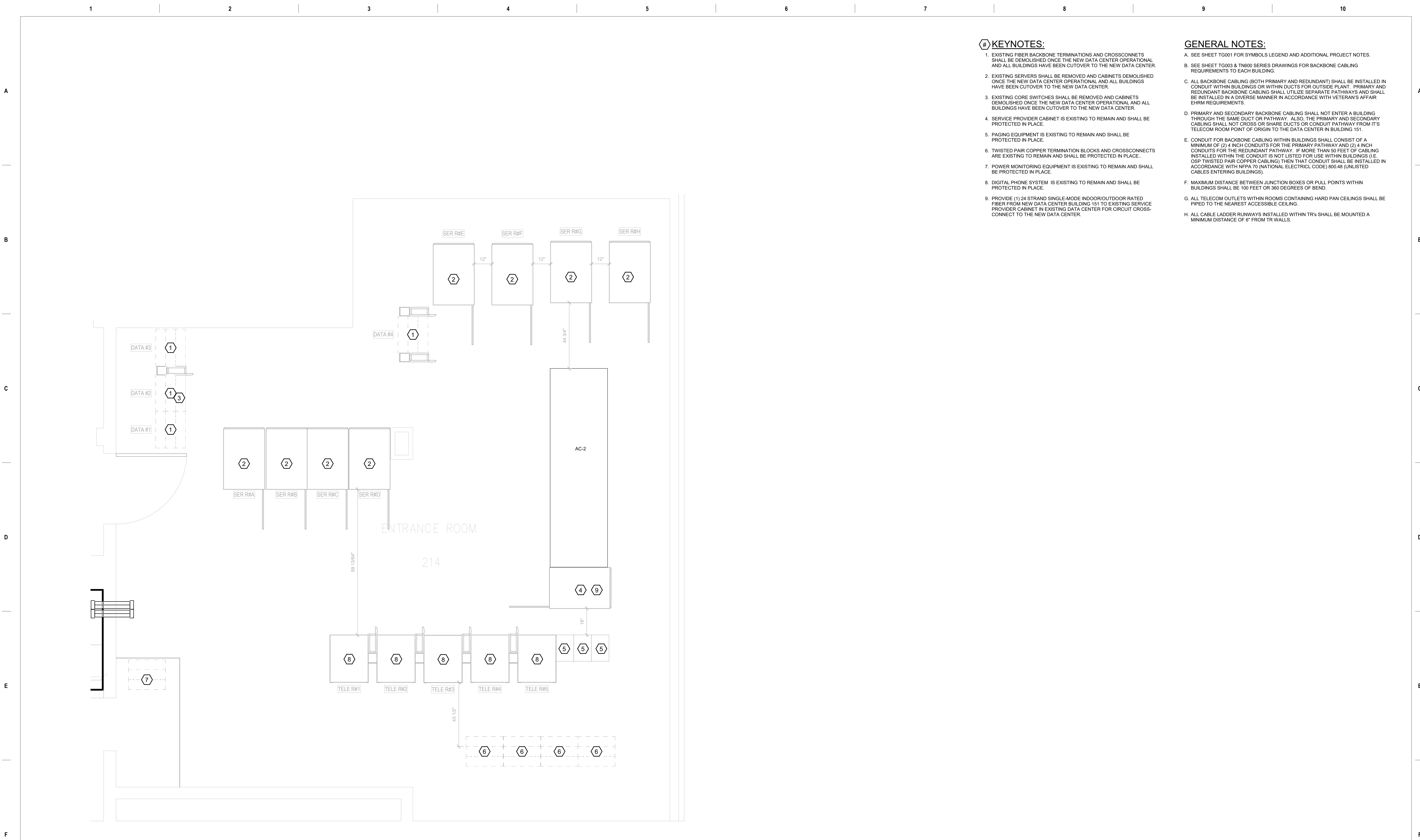


F2 ENLARGED PLAN - TR 216
SCALE: 1/2" = 1'-0"



F5 TR 216 RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>CONSULTANT Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 16229, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICS11016239554 Expires 03/31/25 RCD 03/08/24</p>	<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title BLDG 003 - ENLARGED PLANS AND ELEV. - TR 216</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>
					<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Drawing Number TN411</p>



KEYNOTES:

1. EXISTING FIBER BACKBONE TERMINATIONS AND CROSSCONNECTS SHALL BE DEMOLISHED ONCE THE NEW DATA CENTER OPERATIONAL AND ALL BUILDINGS HAVE BEEN CUTOVER TO THE NEW DATA CENTER.
2. EXISTING SERVERS SHALL BE REMOVED AND CABINETS DEMOLISHED ONCE THE NEW DATA CENTER OPERATIONAL AND ALL BUILDINGS HAVE BEEN CUTOVER TO THE NEW DATA CENTER.
3. EXISTING CORE SWITCHES SHALL BE REMOVED AND CABINETS DEMOLISHED ONCE THE NEW DATA CENTER OPERATIONAL AND ALL BUILDINGS HAVE BEEN CUTOVER TO THE NEW DATA CENTER.
4. SERVICE PROVIDER CABINET IS EXISTING TO REMAIN AND SHALL BE PROTECTED IN PLACE.
5. PAGING EQUIPMENT IS EXISTING TO REMAIN AND SHALL BE PROTECTED IN PLACE.
6. TWISTED PAIR COPPER TERMINATION BLOCKS AND CROSSCONNECTS ARE EXISTING TO REMAIN AND SHALL BE PROTECTED IN PLACE.
7. POWER MONITORING EQUIPMENT IS EXISTING TO REMAIN AND SHALL BE PROTECTED IN PLACE.
8. DIGITAL PHONE SYSTEM IS EXISTING TO REMAIN AND SHALL BE PROTECTED IN PLACE.
9. PROVIDE (1) 24 STRAND SINGLE-MODE INDOOR/OUTDOOR RATED FIBER FROM NEW DATA CENTER BUILDING 151 TO EXISTING SERVICE PROVIDER CABINET IN EXISTING DATA CENTER FOR CIRCUIT CROSS-CONNECT TO THE NEW DATA CENTER.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

F2 ENLARGED PLAN - DATA CENTER 215 - TELECOM
SCALE: 1/2" = 1'-0"

	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	 SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 16229, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi Registered Communications Distributor BICSI 107 # 219954 Expires 03/31/25 RCDD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BLDG 003 - ENLARGED PLANS AND ELEV. - DC 215 Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED	Project Title EHRM INFRASTRUCTURE UPGRADES Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024	Project Number 679-20-104 Building Number 003 Drawing Number TN412 Checked JMM Drawn JEH
--	---	---	--	--	---	--	---	---	--

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN800 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. PROVIDE J-HOOKS ABOVE CEILING AS REQUIRED FOR NEW HORIZONTAL CABLING PATHWAYS THROUGHOUT BUILDING.
- I. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

KEYNOTES:

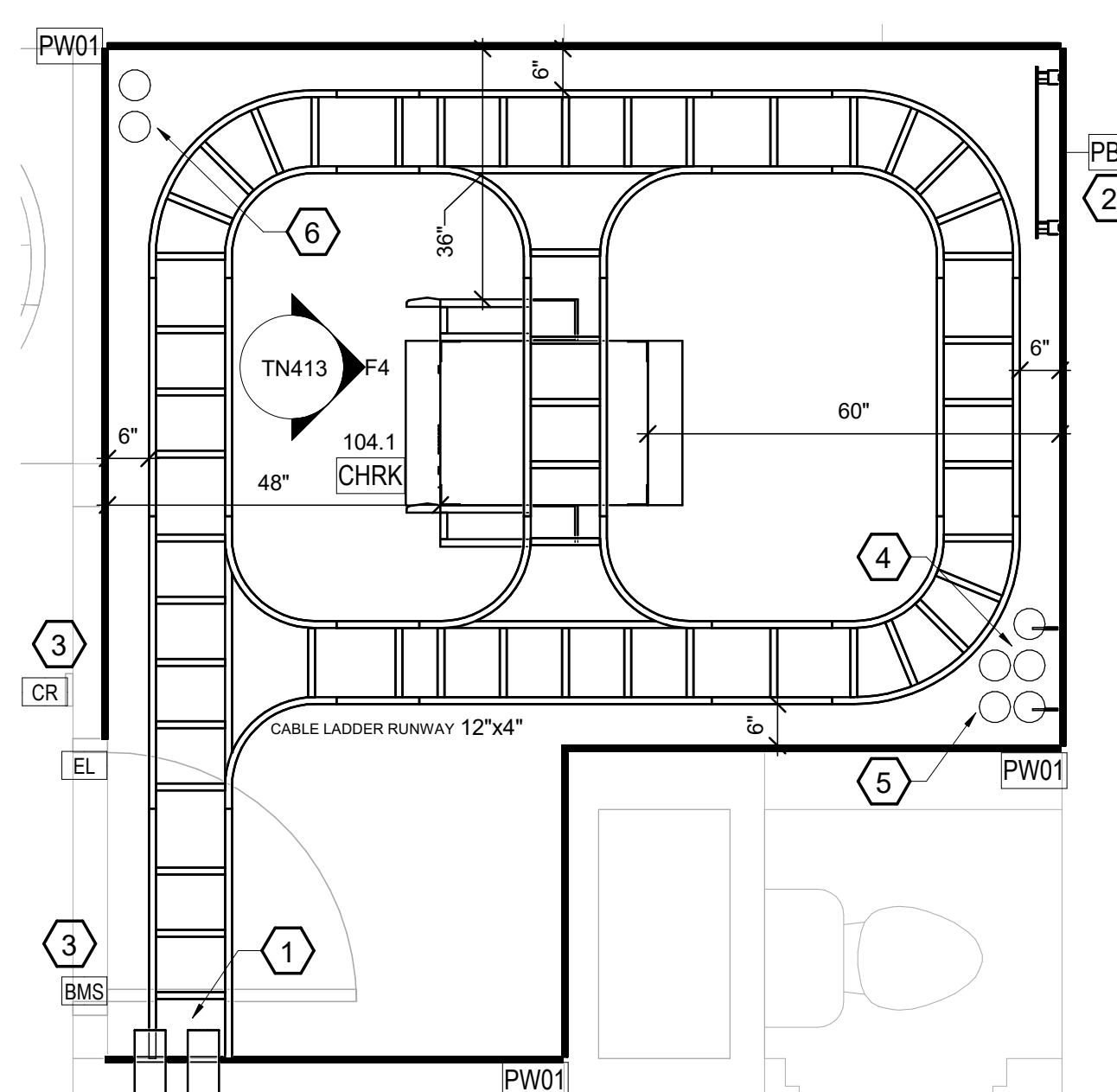
- 1. PROVIDE (2) 4" EMT CONDUITS FROM TR 104 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. PRIMARY BONDING BUSBAR SEE DETAIL FR ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACIDS PCU LOCATION.
- 4. PROVIDE (3) EMT CONDUIT SLEEVES THROUGH FLOOR FOR VERTICAL STRUCTURED CABLING PATHWAY FROM TR 104 TO GROUND LEVEL.
- 5. (2) 4" CONDUITS THROUGH FLOOR AND ROUTED TO CORRIDOR FOR BACKBONE FIBER PATHWAY.
- 6. (2) 4" CONDUITS THROUGH FLOOR AND ROUTED TO CORRIDOR FOR BACKBONE FIBER PATHWAY.

TR 104 EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
PBB	TELECOM PRIMARY BONDING BUSBAR.
	12"x4" CABLE LADDER RUNWAY

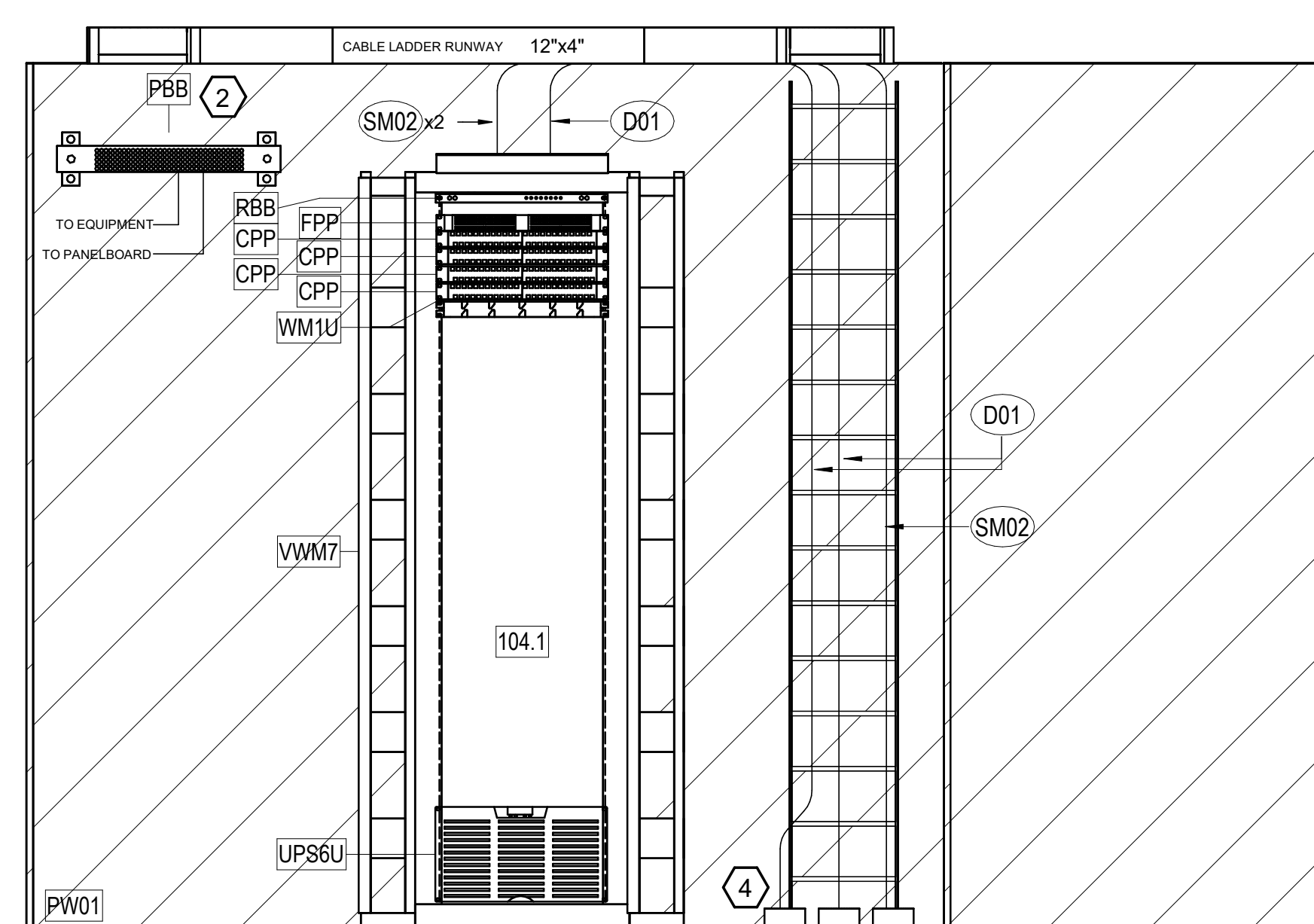
TELECOM OUTLET SCHEDULE - GROUND LEVEL										
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	ID#/TR ROOM NAME AND NUMBER	CABLE_U_1	CABLE_U_2	CABLE_C_1	CABLE_C_2	CABLE COLOR	FLOOR NUMBER
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 104	18	0	0	0		GROUND LEVEL
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 104	92	0	0	0		GROUND LEVEL
: 32					110	0	0	0		
OUTLET TOTAL: 32					110	0	0	0		

TR 104 EQUIPMENT RACK SCHEDULE						
RACK_ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
104.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
104.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
104.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
104.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
104.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
104.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
104.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
104.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
104.1		UPS6U			5 KW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
104.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
104.1		RBB			1U RACK BONDING BUSBAR MOUNTED ON THE BACK OF EQUIPMENT RACK.	1

TELECOM OUTLET SCHEDULE - LEVEL 01										
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	ID#/TR ROOM NAME AND NUMBER	CABLE_U_1	CABLE_U_2	CABLE_C_1	CABLE_C_2	CABLE COLOR	FLOOR NUMBER
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 104	10	0	0	0		01
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 104	12	0	0	0		01
: 8					22	0	0	0		
OUTLET TOTAL: 8					22	0	0	0		



F1 ENLARGED PLAN - TR 104
SCALE: 1/2" = 1'-0"



F4 TR 104 RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>CONSULTANT Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD Atriax, plc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>Office of Construction and Facilities Management U.S. Department of Veterans Affairs</p>	<p>Drawing Title BLDG 004 - ENLARGED PLANS AND ELEV. - TR 104</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>		
				<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number 004</p>		
						<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>	<p>Drawing Number TN413</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

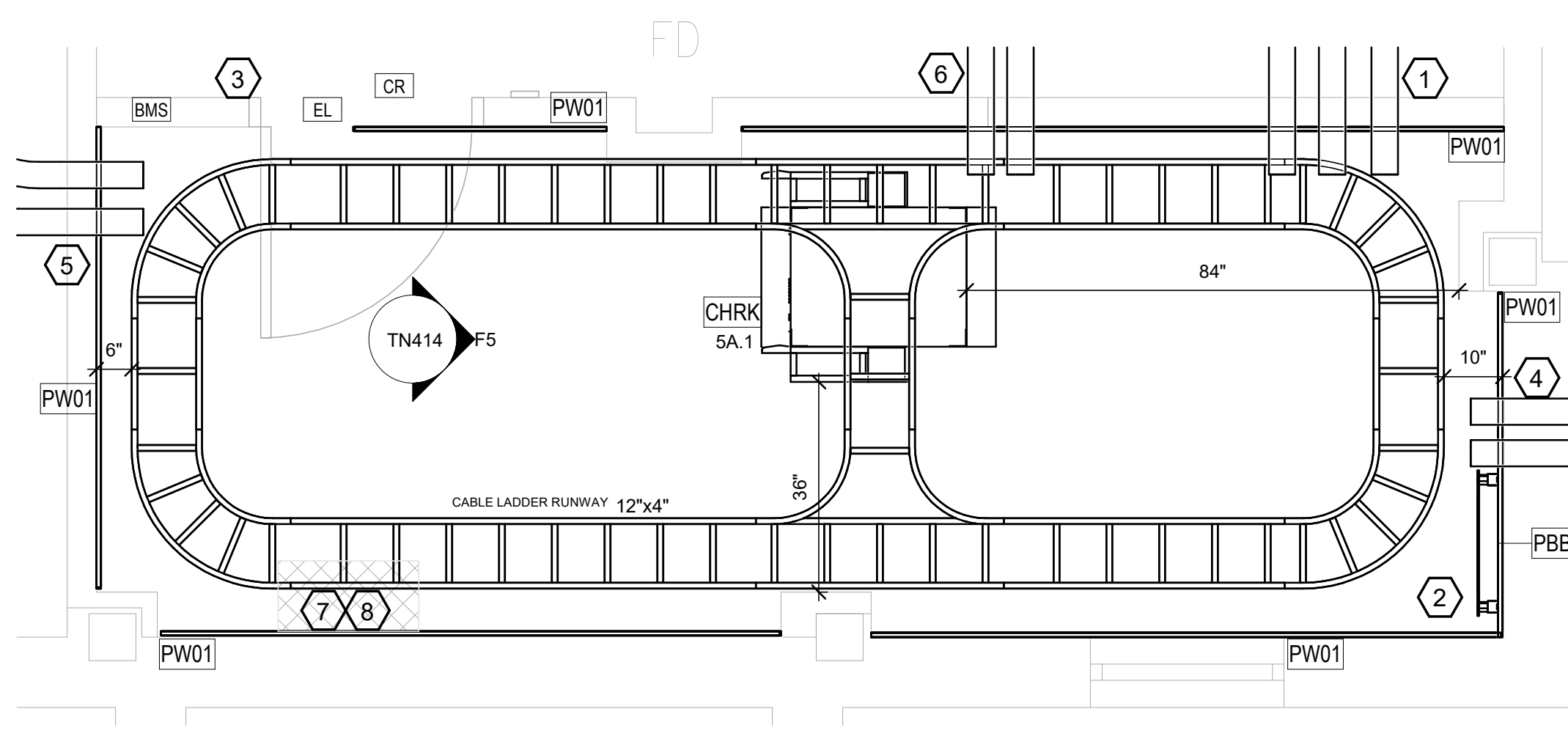
KEYNOTES:

- 1. PROVIDE (3) 4" EMT CONDUITS FROM TR 5A TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. PRIMARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACSISDS PCU LOCATION.
- 4. EXTEND (2) 4" CONDUITS TO THH32 FOR BACKBONE FIBER PATHWAYS.
- 5. EXTEND (2) 4" CONDUITS TO THH33 FOR BACKBONE FIBER PATHWAYS.
- 6. EXTEND (2) 4" CONDUITS TO LEVEL 01 TR 111A FOR BACKBONE FIBER PATHWAYS.
- 7. PROVIDE 6 STRAND MULTI-MODE INDOOR/OUTDOOR RATED FIBER TO ROOM C21 OF BUILDING 61 FOR CONNECTION TO CCTV NETWORK.
- 8. PROVIDE (1) 8RU OPEN FRAME WALL MOUNT RACK WITH RACK MOUNTED FIBER ENCLOSURE AND COPPER PATCH PANEL FOR THE TERMINATION OF FIBER AND CAT 6A CABLES FOR CAMERAS.

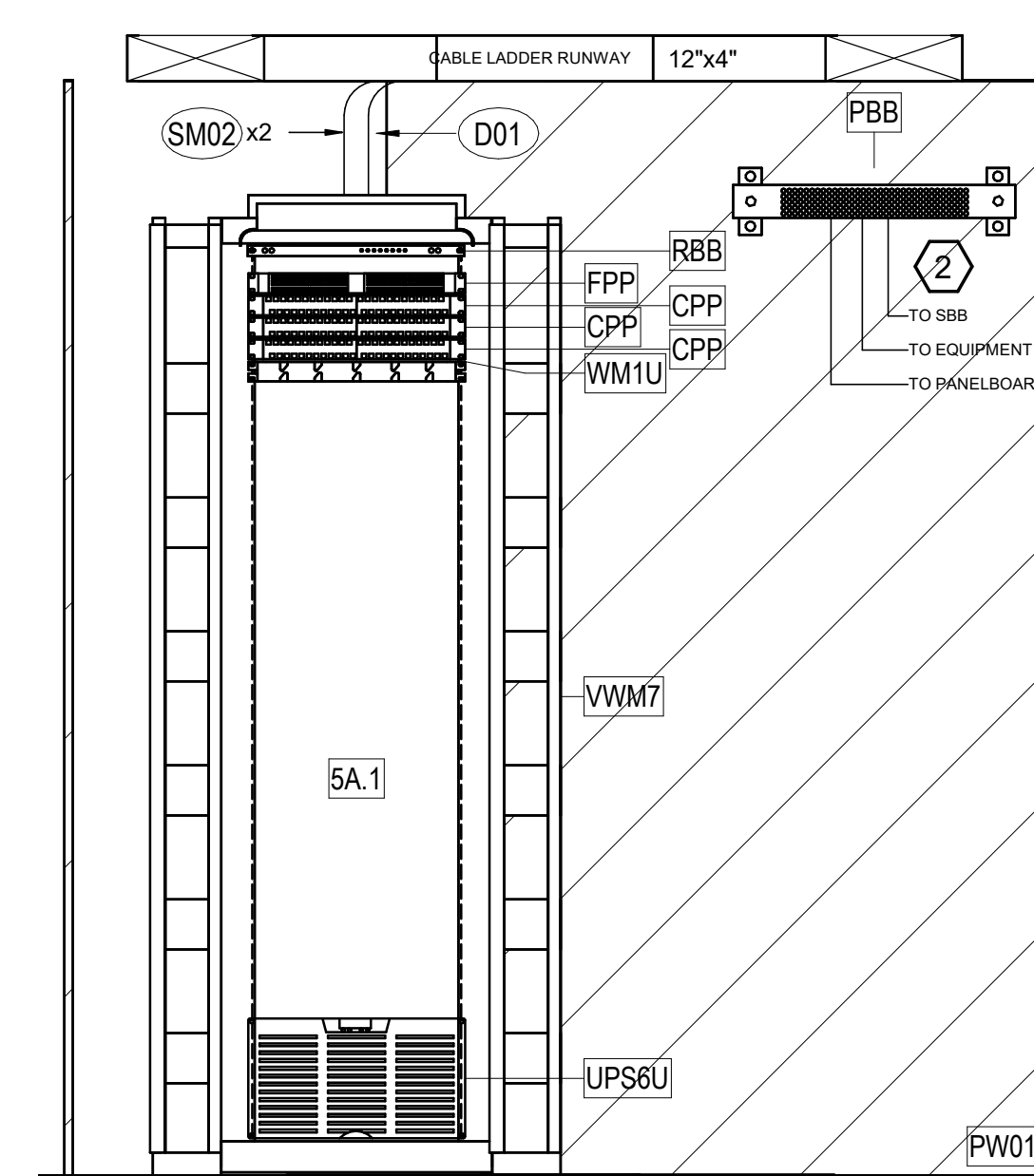
TR 5A EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
PBB	12"x4" CABLE LADDER RUNWAY TELECOM PRIMARY BONDING BUSBAR.

TELECOM OUTLET SCHEDULE - BASEMENT LEVEL									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	ID#/TR ROOM NAME AND NUMBER	CABLE U_1	CABLE U_2	CABLE C_1	CABLE C_2	CABLE COLOR
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 5A	12	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 5A	76	0	0	0	
: 25					88	0	0	0	
OUTLET TOTAL: 25					88	0	0	0	

TR 5A EQUIPMENT RACK SCHEDULE						
RACK ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
5A.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
5A.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
5A.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
5A.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
5A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
5A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
5A.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
5A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
5A.1		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
5A.1		RBB			1U RACK BONDING BUSBAR MOUNTED TO THE BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR 5A
SCALE: 1/2" = 1'-0"



F5 TR 5A RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>CONSULTANT</p> <p>WileyWilson</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>SES</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax GROUP</p> <p>www.atriaxgroup.com</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964</p> <p>NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP</p> <p>Bicsi</p> <p>REGISTERED COMMUNICATIONS DISTRIBUTION ENGINEER</p> <p>BICS11078239554 Expires 03/31/25</p> <p>03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>BLDG 005 - ENLARGED PLANS AND ELEV. - TR 5A</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>
					<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number</p> <p>005</p>
<p>Revisions:</p>	<p>Date:</p>	<p>Issue Date</p> <p>03/08/2024</p>	<p>Checked</p> <p>JMM</p>	<p>Drawn</p> <p>JEH</p>	<p>Drawing Number</p> <p>TN414</p>			

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN800 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 600.45 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

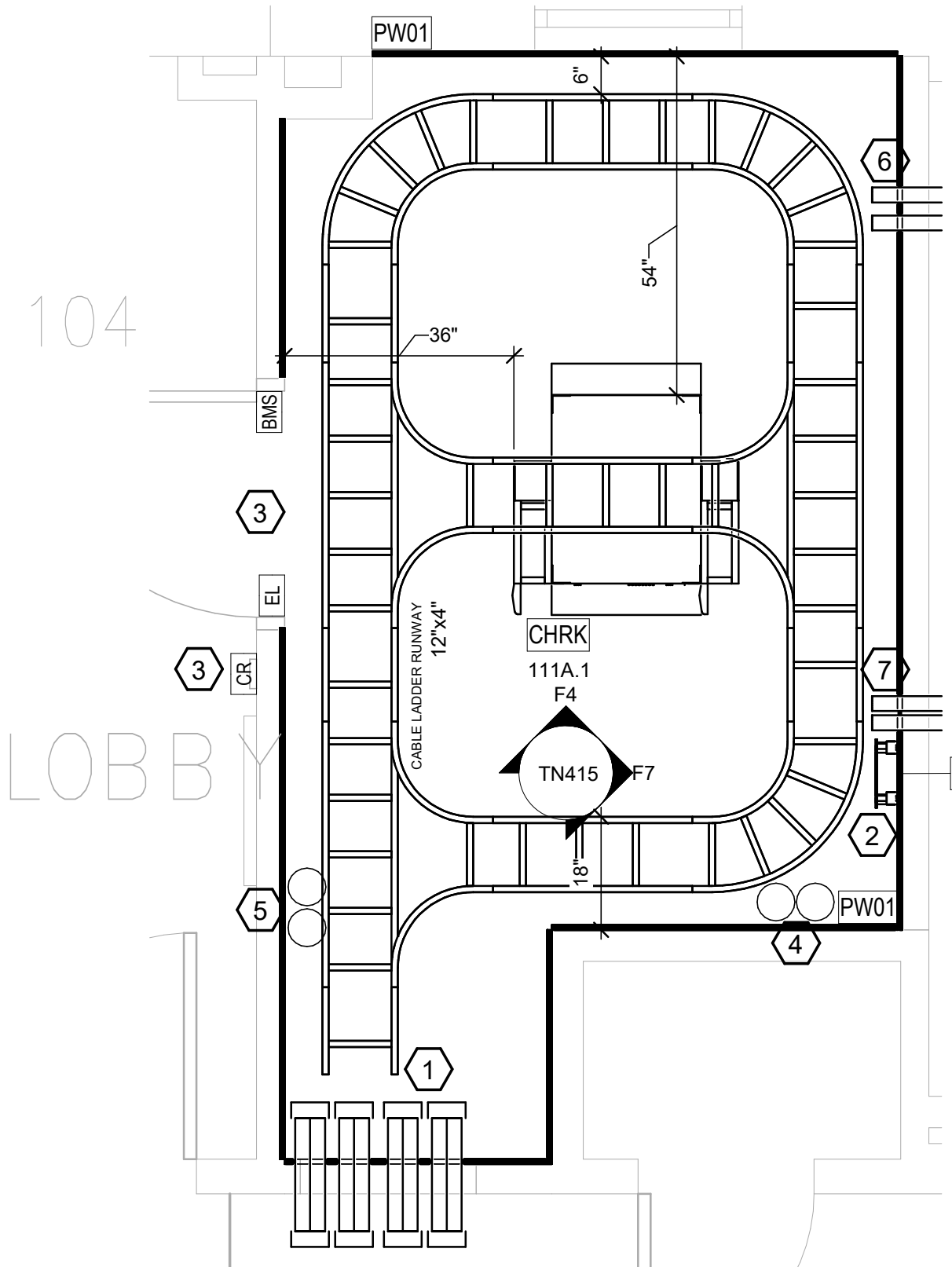
KEYNOTES:

- 1. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR 111A TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, RE, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. (2) 4" CONDUIT THROUGH FLOOR SLAB FOR BACKBONE FIBER PATHWAY TO BASEMENT LEVEL.
- 5. (2) 4" CONDUIT THROUGH FLOOR SLAB FOR BACKBONE FIBER PATHWAY TO BASEMENT LEVEL.
- 6. EXTEND (2) 4" CONDUITS TO LEVEL 02 TR 211 FOR BACKBONE FIBER PATHWAYS.
- 7. EXTEND (2) 4" CONDUITS TO LEVEL 02 TR 211 FOR BACKBONE FIBER PATHWAYS.

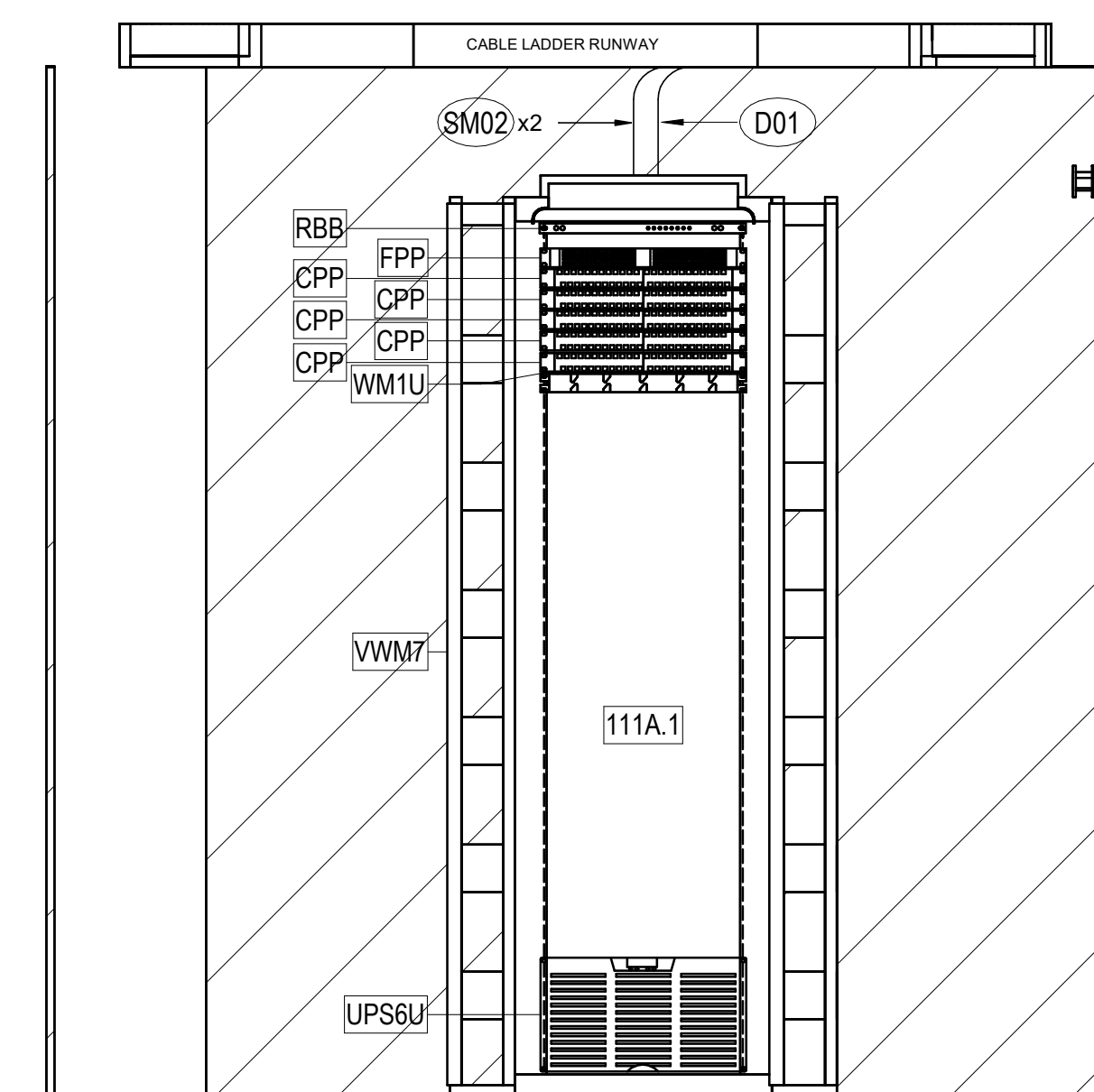
TR 111A EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4" X 8" AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
SBB	ANSI/ EIA/ TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB).
	12"x4" CABLE LADDER RUNWAY

TELECOM OUTLET SCHEDULE - LEVEL 01									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	ID#/TR ROOM NAME AND NUMBER	CABLE U 1	CABLE U 2	CABLE C 1	CABLE C 2	CABLE COLOR
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 111A	18	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 111A	136	0	0	0	
					154	0	0	0	
OUTLET TOTAL: 43					154	0	0	0	

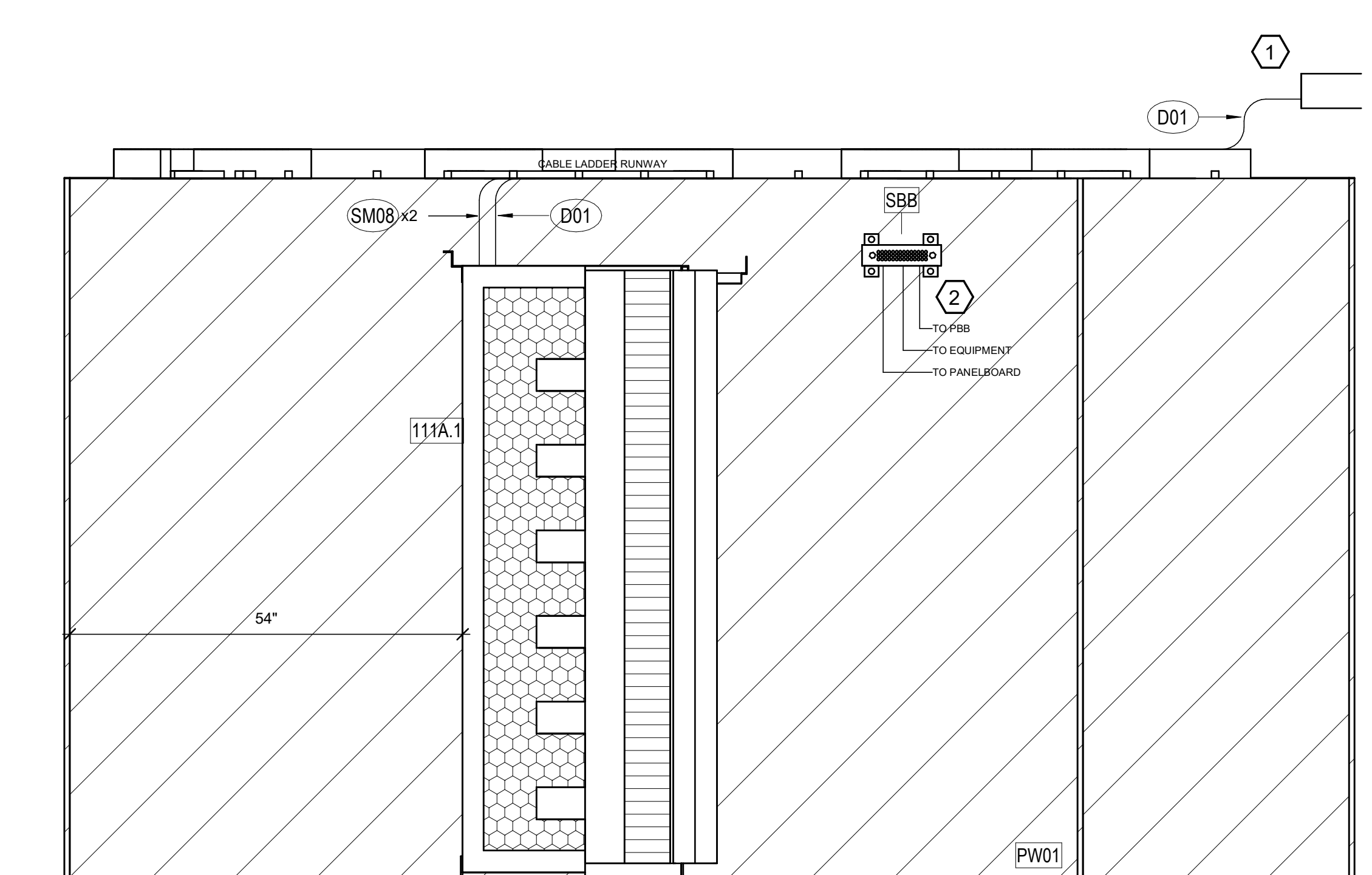
TR 111A EQUIPMENT RACK SCHEDULE						
RACK_ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
111A.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
111A.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
111A.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
111A.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
111A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
111A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
111A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
111A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
111A.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
111A.1		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
111A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
111A.1		RBB			1U RACK BONDING BUSBAR MOUNTED TO THE BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR 111A
SCALE: 1/2" = 1'-0"



F4 TR 111A RACK ELEVATION
SCALE: 3/4" = 1'-0"



F7 TR 111A PLAN EAST WALL ELEVATION
SCALE: 3/4" = 1'-0"

<p>CONSULTANT</p> <p>Wiley Wilson</p> <p>Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p> <p>NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>BLDG 005 - ENLARGED PLANS AND ELEV. - TR 111A</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>
			<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number</p> <p>005</p>
<p>Revisions:</p>	<p>Date:</p>	<p>Issue Date</p> <p>03/08/2024</p>	<p>Checked</p> <p>JMM</p>	<p>Drawn</p> <p>JEH</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Project Number</p> <p>TN415</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 90 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

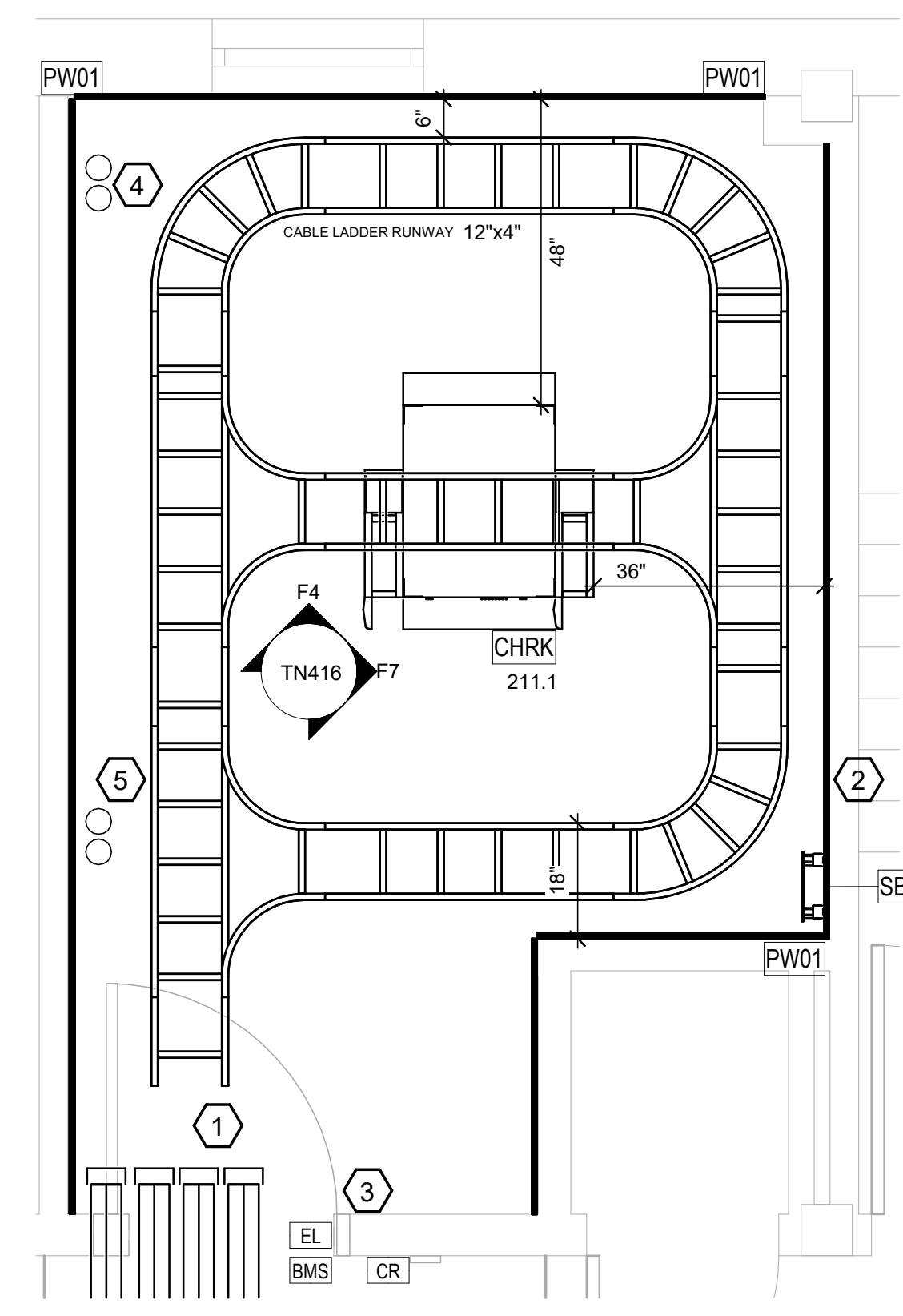
KEYNOTES:

- 1. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR 211 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW AC/SIDS PCU LOCATION.
- 4. (2) 4" CONDUIT THROUGH FLOOR SLAB FOR BACKBONE FIBER PATHWAY TO LEVEL 01 TR 111A.
- 5. (2) 4" CONDUIT THROUGH FLOOR SLAB FOR BACKBONE FIBER PATHWAY TO LEVEL 01 TR 111A.

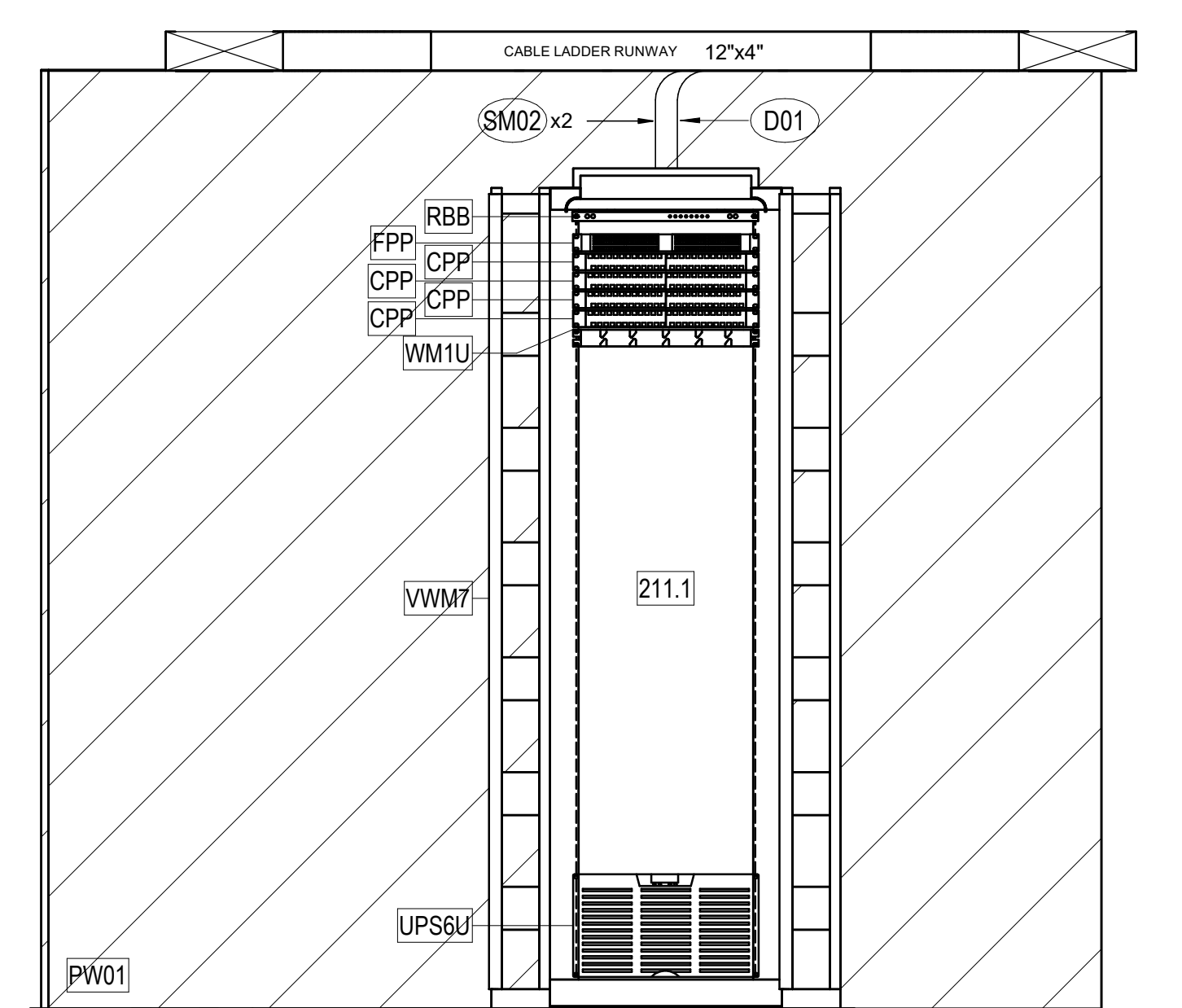
TR 211 EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45' X 10.26' X 84" WHITE
SBB	ANSI/ EIA/ TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB)
	12"x4" CABLE LADDER RUNWAY

TELECOM OUTLET SCHEDULE - LEVEL 02									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE U 1	CABLE U 2	CABLE C 1	CABLE C 2	CABLE COLOR
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 211	16	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 211	124	0	0	0	
:40					142	0	0	0	
OUTLET TOTAL: 40					142	0	0	0	

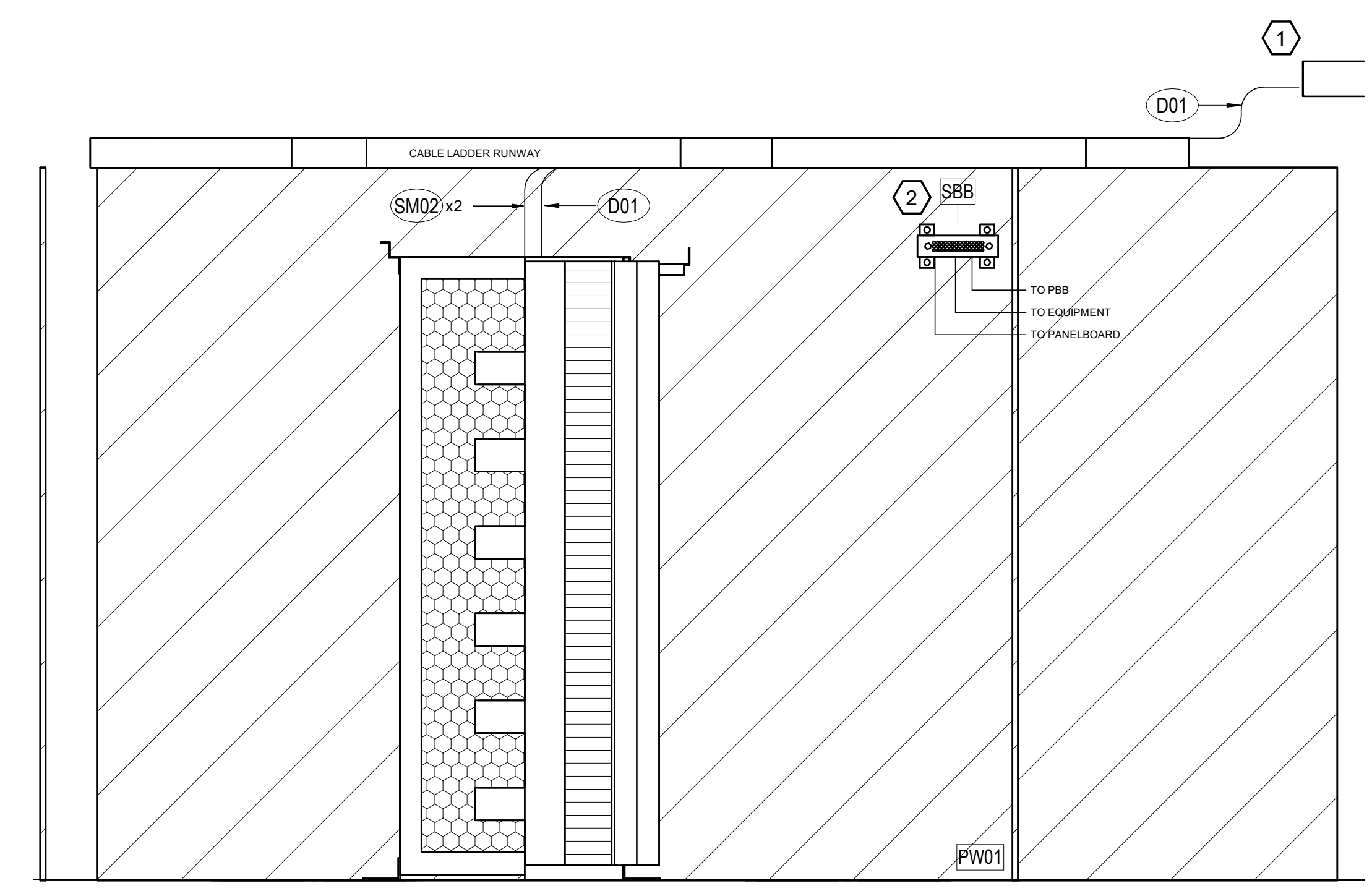
TR 211 EQUIPMENT RACK SCHEDULE						
RACK ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
211.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
211.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45' X 10.26' X 84" WHITE	
211.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45' X 10.26' X 84" WHITE	
211.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
211.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
211.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
211.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
211.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
211.1		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
211.1		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
211.1		RBB			1U RACK BONDING BUSBAR MOUNTED TO THE BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR 211
SCALE: 1/2" = 1'-0"



F4 TR 211 RACK ELEVATION
SCALE: 3/4" = 1'-0"



F7 TR 211 EAST WALL ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>DATE:</p>	<p>CONSULTANT Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD Atriax www.atriaxgroup.com Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION TECHNOLOGIST BICS1107823954 Expires 03/31/25 RCD 03/08/24</p>	<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title BLDG 005 - ENLARGED PLANS AND ELEV. - TR 211</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>	
							<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number 005</p>	
								<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>	<p>Drawing Number TN416</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN800 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

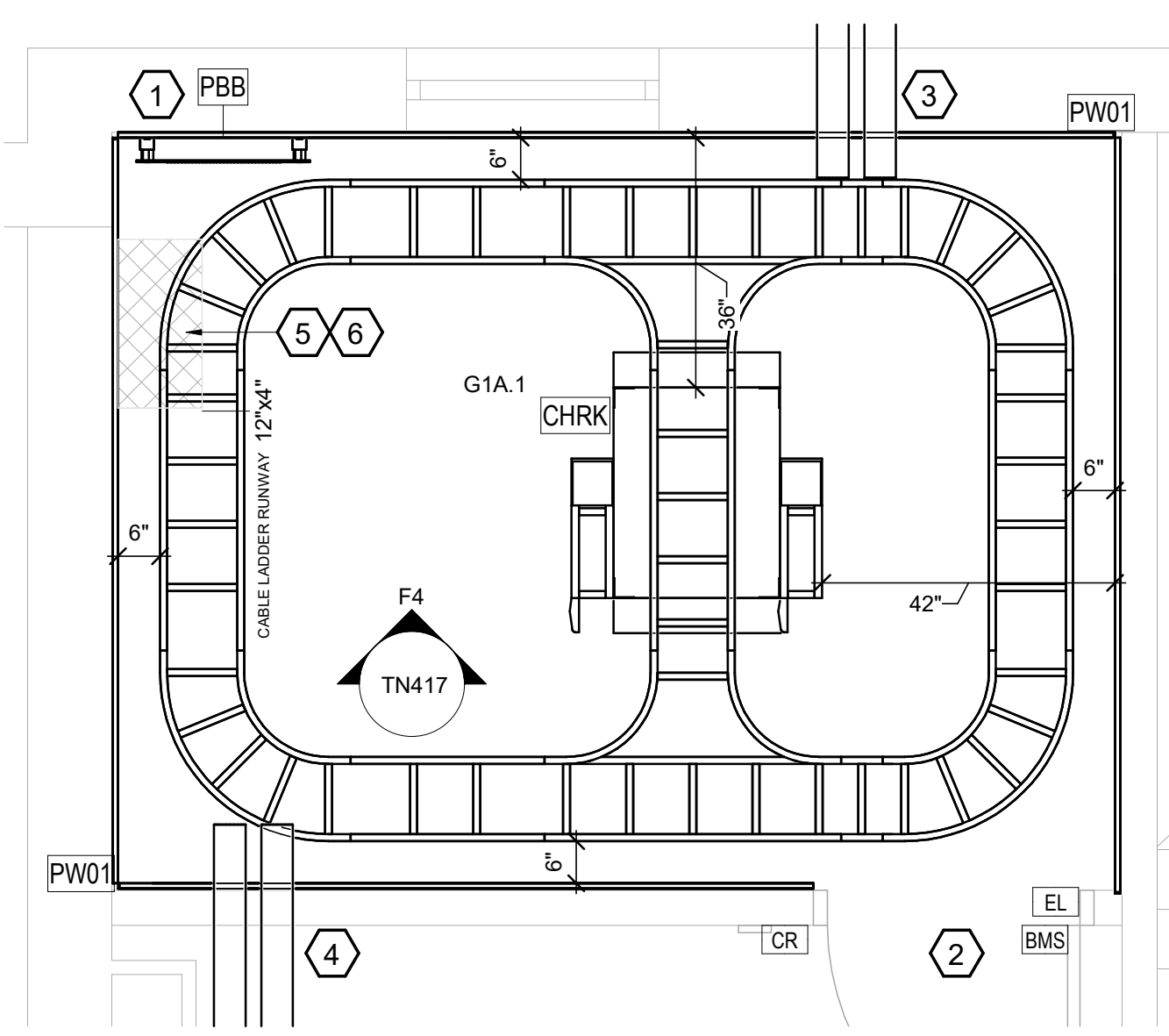
KEYNOTES:

- 1. PRIMARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 2. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REK, SSTV) TO NEW ACIDS PCU LOCATION.
- 3. PROVIDE (2) 4" CONDUITS FROM MANHOLE TMH06 TO TR G1A FOR BACKBONE FIBER PATHWAY. SEE SITE PLAN FOR CONDUIT ROUTE CONTINUATION.
- 4. PROVIDE (2) 4" CONDUITS FROM MANHOLE TMH05 TO TR G1A FOR BACKBONE FIBER PATHWAY. SEE SITE PLAN FOR CONDUIT ROUTE CONTINUATION.
- 5. PROVIDE 6 STRAND MULTI-MODE INDOOR/OUTDOOR RATED FIBER TO ROOM C21 OF BUILDING 61 FOR CONNECTION TO CCTV NETWORK.
- 6. PROVIDE (1) BRU OPEN FRAME WALL MOUNT RACK WITH RACK MOUNTED FIBER ENCLOSURE AND COPPER PATCH PANEL FOR THE TERMINATION OF FIBER AND CAT 6A CABLES FOR CAMERAS.

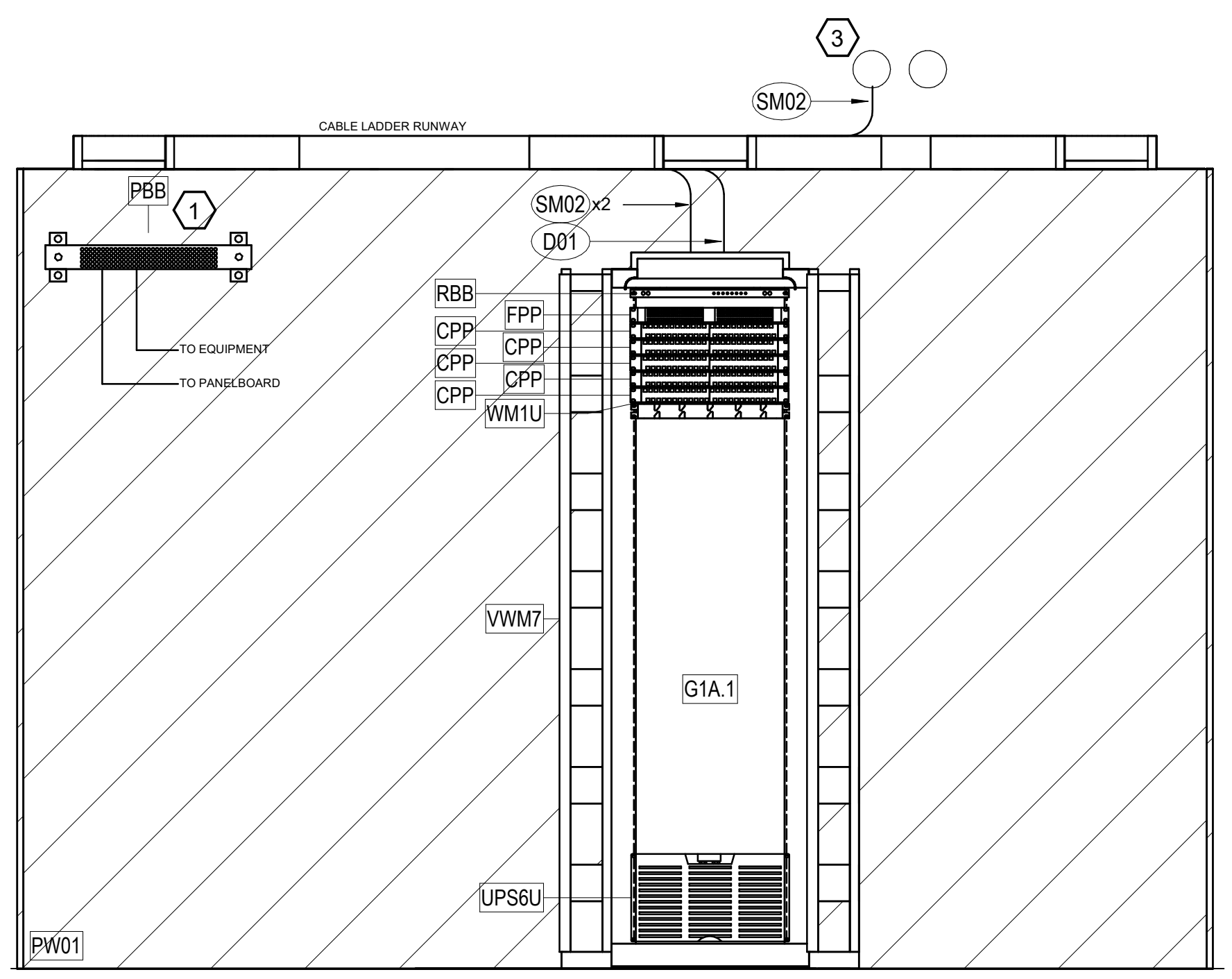
TR G1A EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
PBB	TELECOM PRIMARY BONDING BUSBAR.
	12"x4" CABLE LADDER RUNWAY

TELECOM OUTLET SCHEDULE									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	ID#/TR ROOM NAME AND NUMBER	CABLE_U_1	CABLE_U_2	CABLE_C_1	CABLE_C_2	CABLE COLOR
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	<varies>	40	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	<varies>	120	0	0	0	
					160	0	0	0	
					160	0	0	0	
OUTLET TOTAL: 50									

TR G1A EQUIPMENT RACK SCHEDULE						
RACK ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
G1A.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
G1A.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
G1A.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
G1A.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
G1A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
G1A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
G1A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
G1A.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
G1A.1		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
G1A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
G1A.1		RBB			1U RACK BONDING BUSBAR MOUNTED ON BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR G1A
SCALE: 1/2" = 1'-0"



F4 TR G1A RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD Atriax, plc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title BLDG 006 - ENLARGED PLANS AND ELEV. - TR G1A</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>		
				<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number 006</p>		
						<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>	<p>Drawing Number TN417</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.49 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR's SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

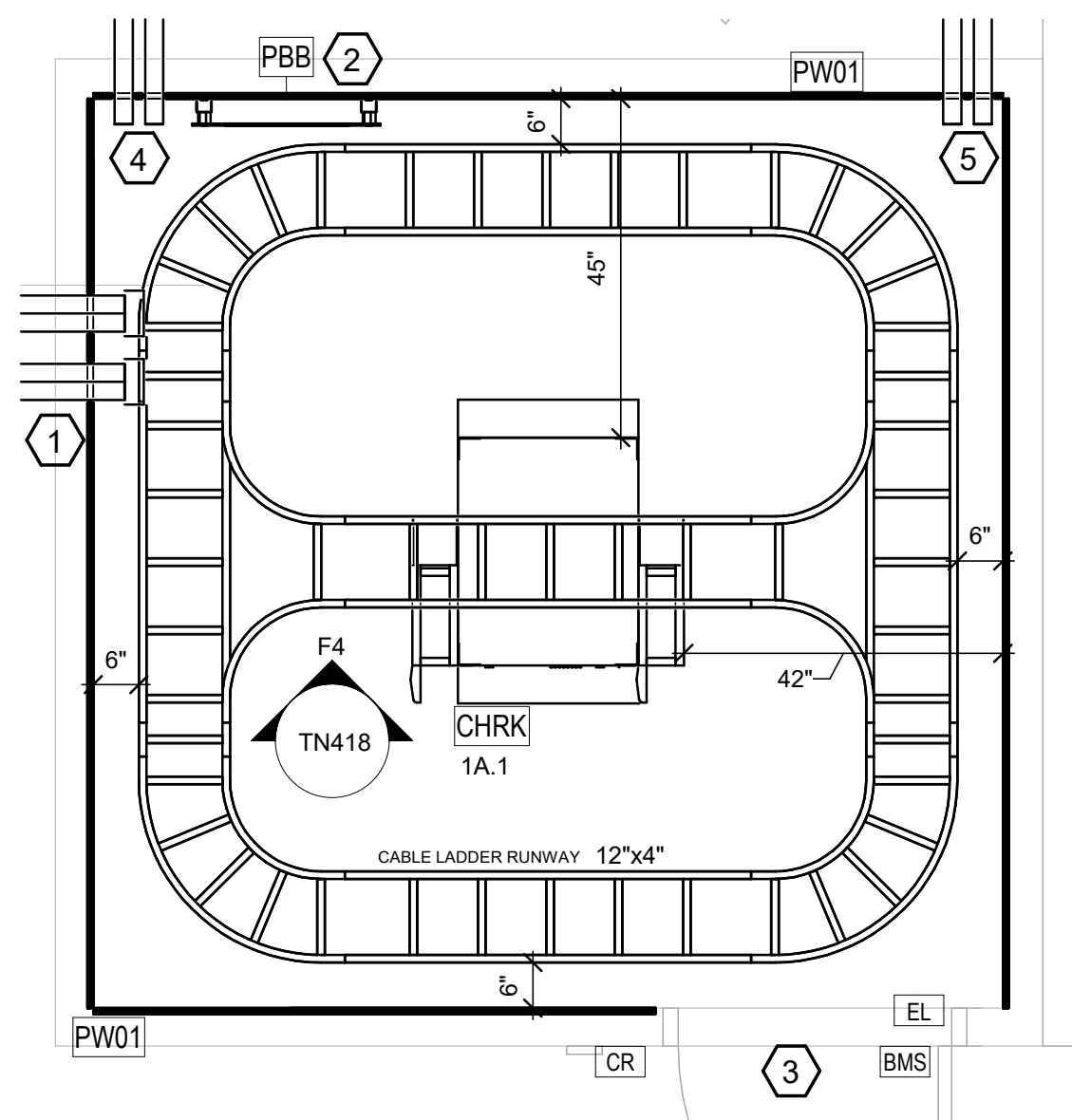
KEYNOTES:

- 1. PROVIDE (2) 4" EMT CONDUIT SLEEVES FROM TR 1A TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. PRIMARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. EXTEND (2) 4" CONDUITS TO TMH26 FOR BACKBONE FIBER PATHWAYS.
- 5. EXTEND (2) 4" CONDUITS TO THH25 FOR BACKBONE FIBER PATHWAYS.

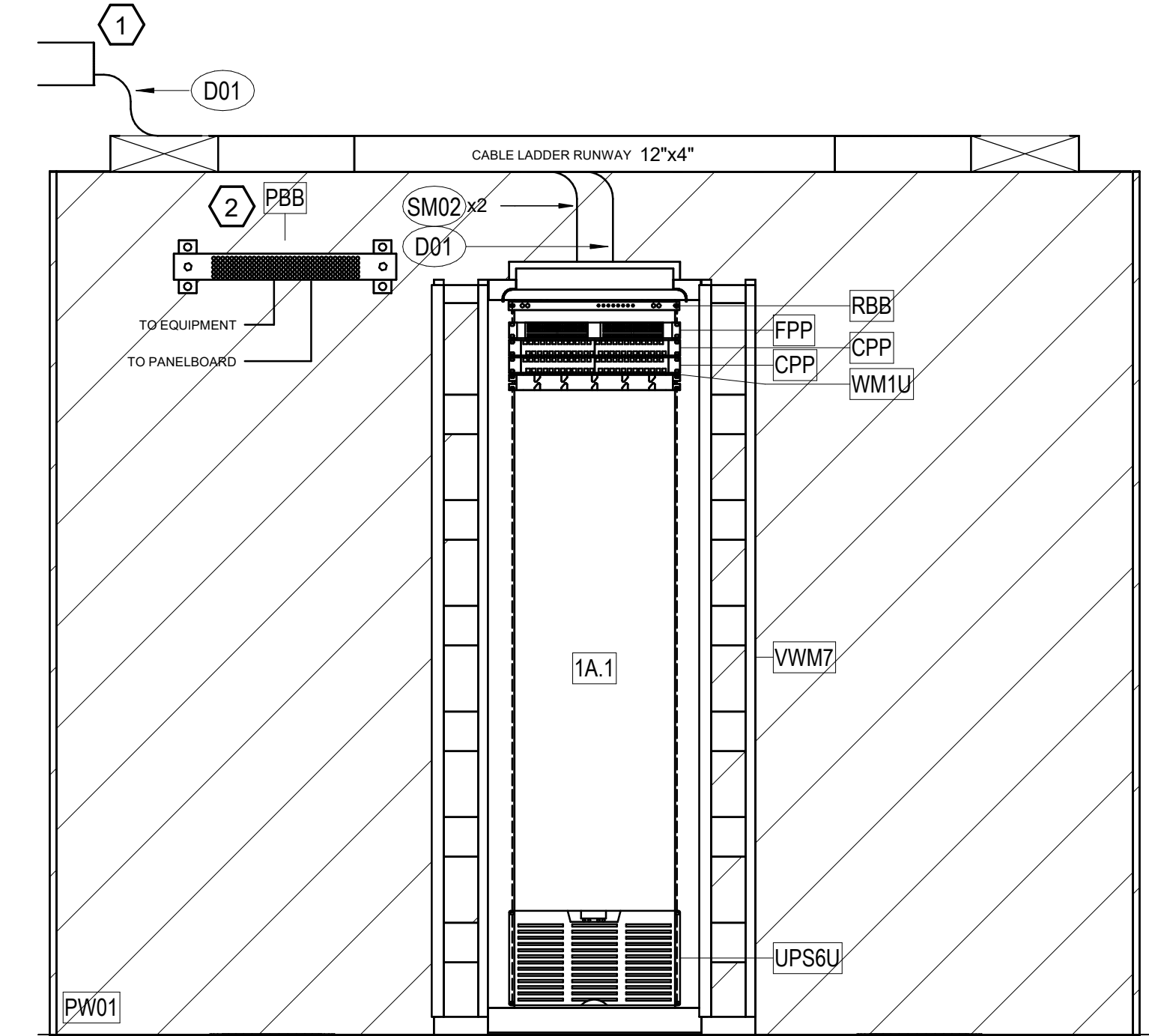
TR 1A EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4" X 8' AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45' X 10.26' X 84" WHITE
	12"x4" CABLE LADDER RUNWAY
PBB	TELECOM PRIMARY BONDING BUSBAR.

TELECOM OUTLET SCHEDULE									
OUTLET TYPE	LOCATION	NETWORK_ID	DESCRIPTION	ID#/TR ROOM NAME AND NUMBER	CABLE_U_1	CABLE_U_2	CABLE_C_1	CABLE_C_2	CABLE COLOR
T2		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	<varies>	4	0	0	0	
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	<varies>	20	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	<varies>	32	0	0	0	
: 20					56	0	0	0	
OUTLET TOTAL: 20					56	0	0	0	

TR 1A EQUIPMENT RACK SCHEDULE						
RACK_ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
1A.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
1A.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45' X 10.26' X 84" WHITE	
1A.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45' X 10.26' X 84" WHITE	
1A.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
1A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
1A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
1A.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
1A.1		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
1A.1		RBB			1U RACK BONDING BUSBAR MOUNTED ON BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR 1A
SCALE: 1/2" = 1'-0"



F4 TTR 1A RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>CONSULTANT</p> <p>WileyWilson</p> <p>127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax GROUP</p> <p>www.atriaxgroup.com</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964</p> <p>NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP</p> <p>Bicsi</p> <p>REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER</p> <p>03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>BLDG 012 - ENLARGED PLANS AND ELEV. - TR 1A</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>
					<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Drawing Number</p> <p>TN418</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM IT'S TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. PROVIDE J-HOOKS ABOVE CEILING AS REQUIRED FOR NEW HORIZONTAL CABLING PATHWAYS THROUGHOUT BUILDING.
- I. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 8" FROM TR WALLS.

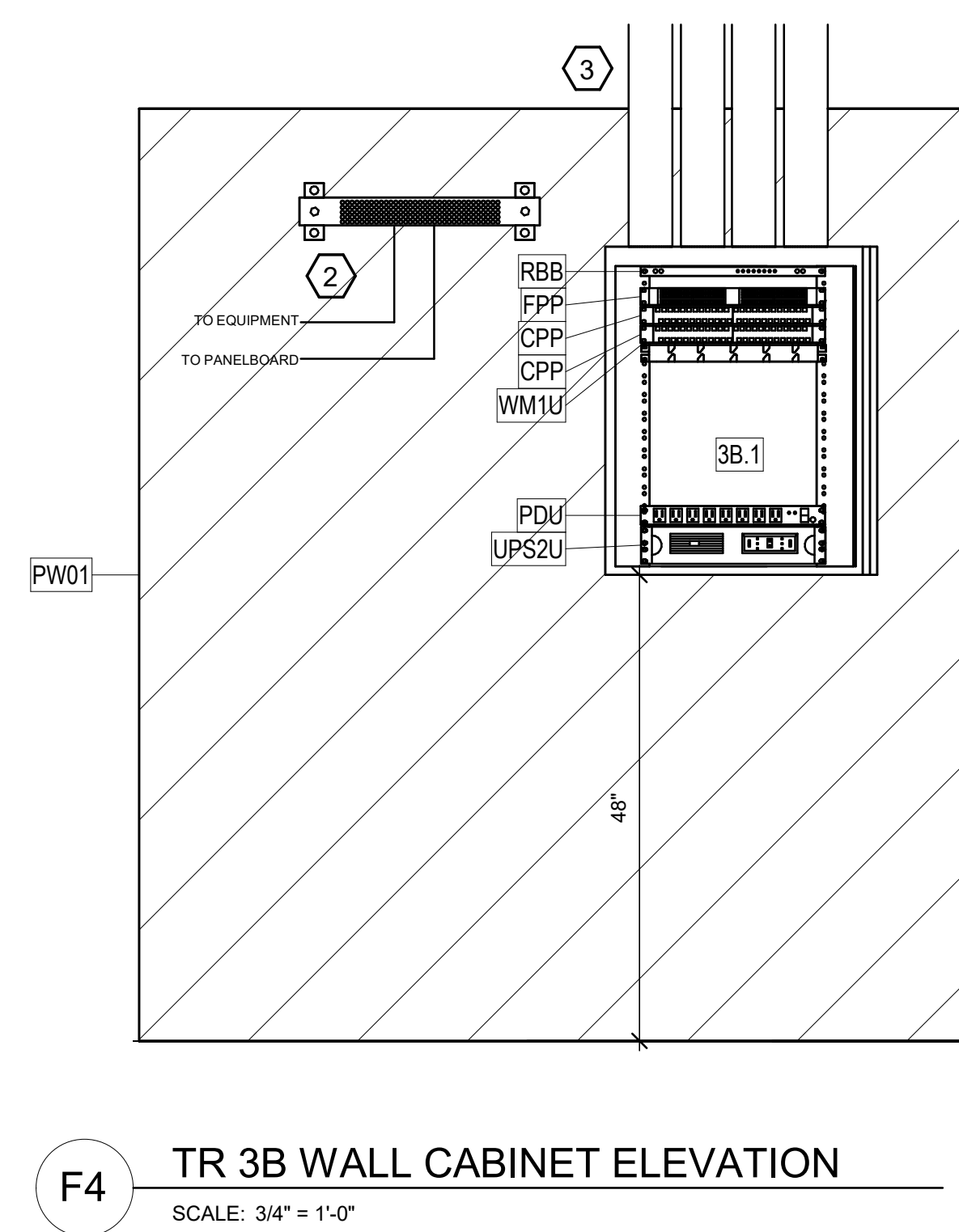
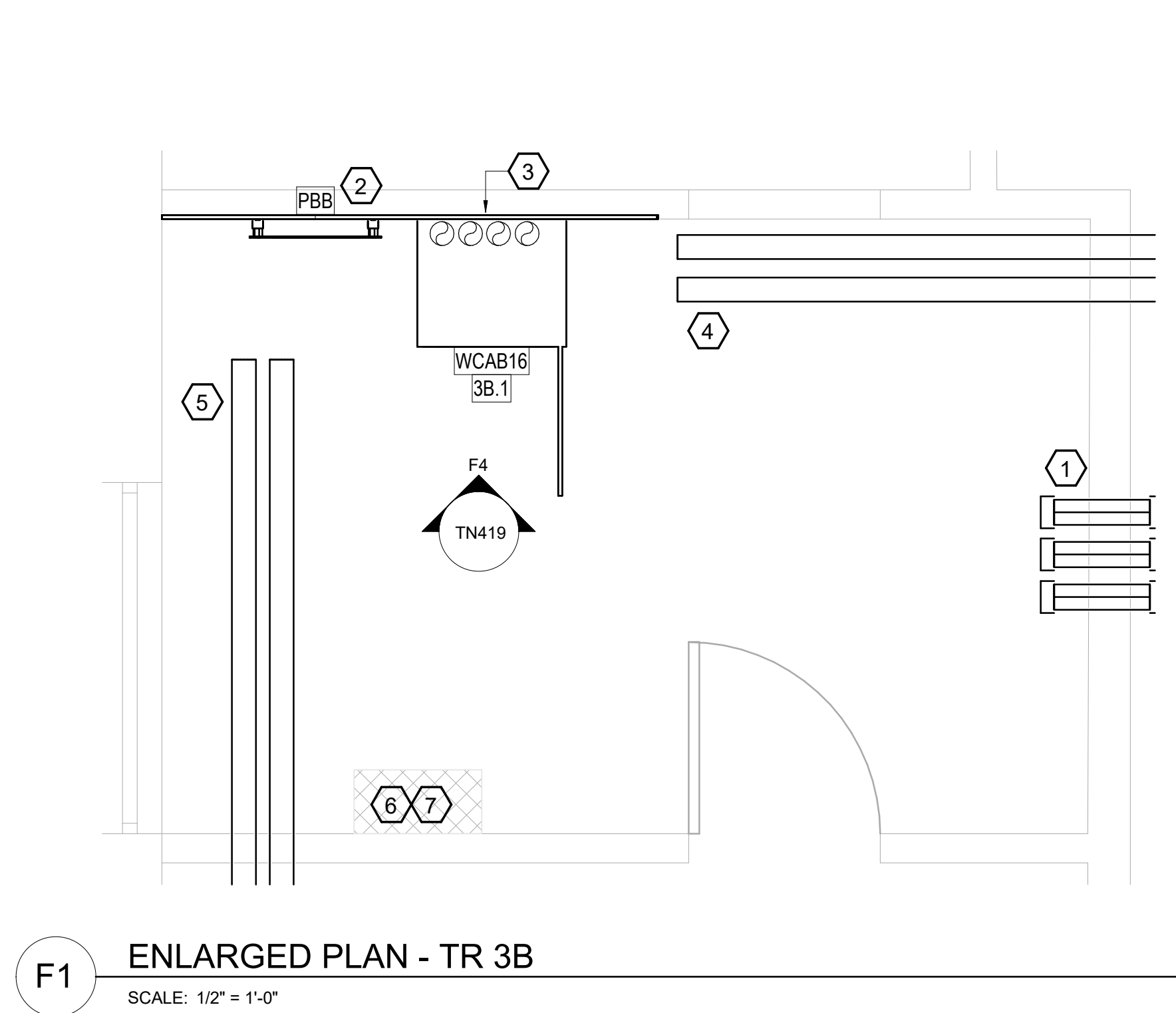
#KEYNOTES:

- 1. PROVIDE (3) 4" EMT CONDUIT SLEEVES FROM TR 4B TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. PRIMARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE (4) 4" CONDUITS FROM TELECOM ENCLOSURE TO ABOVE CEILING SPACE FOR HORIZONTAL AND BACKBONE CABLING PATHWAY.
- 4. PROVIDE (2) 4" CONDUITS FROM MANHOLE TMS6 TO TE 3B FOR BACKBONE FIBER PATHWAY. SEE SITE PLAN FOR CONDUIT ROUTE CONTINUATION.
- 5. PROVIDE (2) 4" CONDUITS FROM TE 3B THROUGH CONNECTING CORRIDOR AND OUT TO MANHOLE TMS29 FOR FIBER BACKBONE PATHWAY. SEE SITE PLAN FOR CONDUIT ROUTE CONTINUATION.
- 6. PROVIDE 6 STRAND MULTI-MODE INDOOR/OUTDOOR RATED FIBER TO ROOM 1 OF BUILDING 001 FOR CONNECTION TO EXISTING CCTV NETWORK.
- 7. PROVIDE (1) BRU OPEN FRAME WALL MOUNT RACK WITH RACK MOUNTED FIBER ENCLOSURE AND COPPER PATCH PANEL FOR THE TERMINATION OF FIBER AND CAT 6A CABLES FOR CAMERAS.

TE 3B EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PBB	TELECOM PRIMARY BONDING BUSBAR.
PW01	3/4" THICK, FIRE RATED, 3/4" X 4" X 8' AC GRADE PLYWOOD.
WCAB16	WALL MOUNT CABINET - 16 RU SWING-OUT, W/ FANS, INTERNAL GROUND BUSBAR, HINGED AND LOCKABLE TRANSPARENT FRONT DOOR, SWING-OUT FRONT SECTION WITH VENTED REAR SECTION FIXED TO THE WALL, FULL HT FRONT AND REAR VERT. WIRE MGMT BOTH SIDES, SURGE PROTECTED 6 OUTLET (MIN.) HORIZONTAL POWER STRIP. CABINET MUST ADHERE TO SEISMIC REQUIREMENTS IN ACCORDANCE WITH ASCE 7-05 CHAPTER 13.

TELECOM OUTLET SCHEDULE									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE_U_1	CABLE_U_2	CABLE_C_1	CABLE_C_2	CABLE COLOR
T2		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 3C	2	0	0	0	
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 3C	18	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 3C	52	0	0	0	
OUTLET TOTAL: 23					72	0	0	0	
					72	0	0	0	

TE 3B EQUIPMENT RACK SCHEDULE						
RACK_ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
3B.1		WCAB16			WALL MOUNT CABINET - 16 RU SWING-OUT, W/ FANS, INTERNAL GROUND BUSBAR, HINGED AND LOCKABLE TRANSPARENT FRONT DOOR, SWING-OUT FRONT SECTION WITH VENTED REAR SECTION FIXED TO THE WALL, FULL HT FRONT AND REAR VERT. WIRE MGMT BOTH SIDES, SURGE PROTECTED 6 OUTLET (MIN.) HORIZONTAL POWER STRIP. CABINET MUST ADHERE TO SEISMIC REQUIREMENTS IN ACCORDANCE WITH ASCE 7-05 CHAPTER 13.	16
3B.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
3B.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
3B.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
3B.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
3B.1		RBB			1U RACK BONDING BUSBAR.	1
3B.1		UPS2U			UNINTERRUPTED POWER SUPPLY - 2U RACK MOUNTED	2
3B.1		PDU			RACK MOUNT PDU, L5-20 INPUT, NEMA 5-15 OUTPUT, 1 RU	1



<p>CONSULTANT</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP</p> <p>Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION ENGINEER BICS11076239554 Expires 03/31/25 RCD 03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>BLDG 017 - ENLARGED PLANS AND ELEV. - TR 3B</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>
					<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Drawing Number</p> <p>TN419</p>
<p>Revisions:</p>	<p>Date:</p>	<p>Issue Date</p> <p>03/08/2024</p>	<p>Checked</p> <p>JMM</p>	<p>Drawn</p> <p>JEH</p>				

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 900.45 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

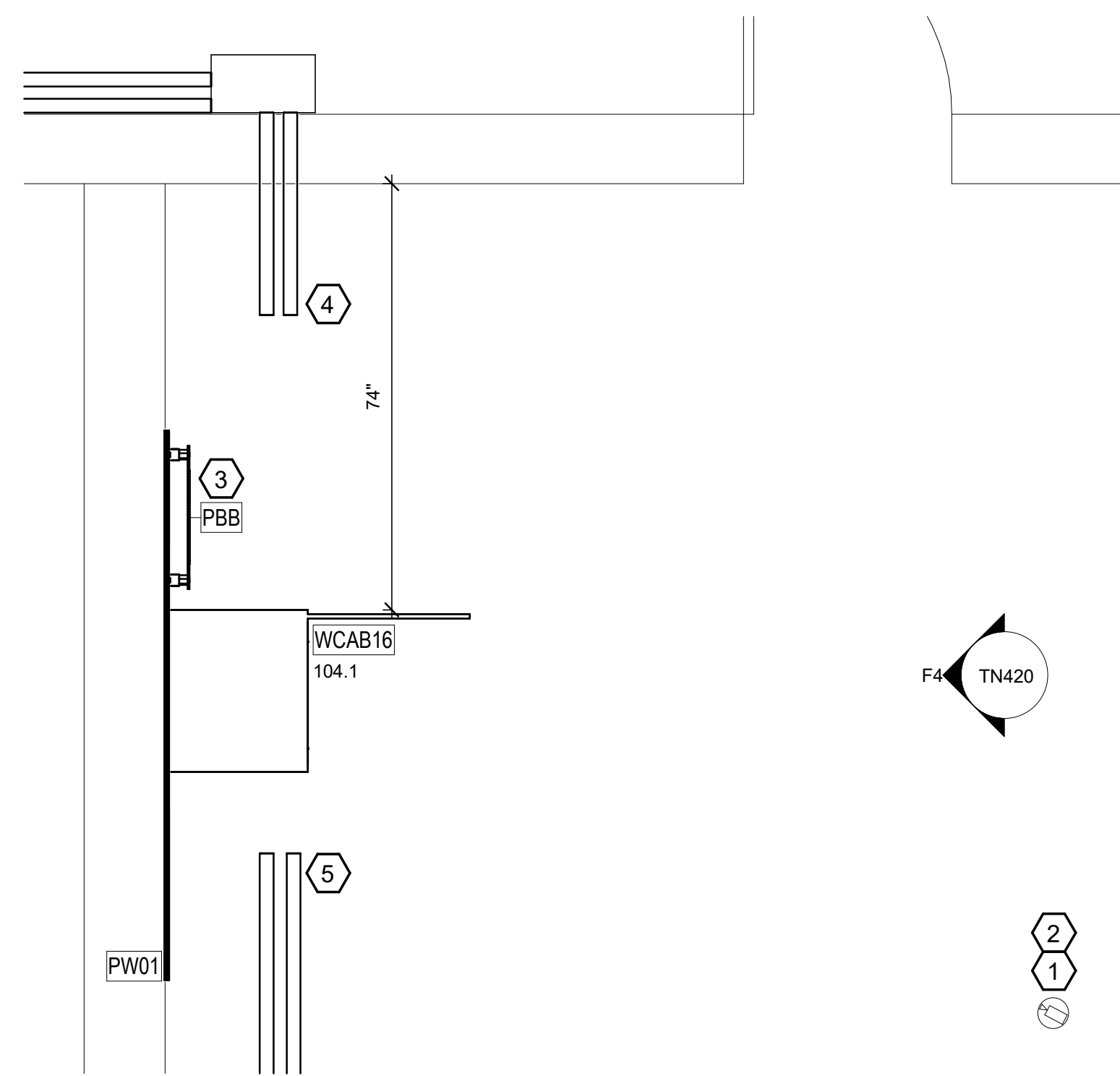
KEYNOTES:

- 1. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CRKP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 2. ROUTE CONDUIT AND CABLE FOR CAMERA TO EXISTING CCTV EQUIPMENT LOCATION FOR TERMINATION.
- 3. PRIMARY BONDING BUSBAR, SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 4. EXTEND (2) 4" CONDUITS TO TH25 FOR BACKBONE FIBER PATHWAYS. SEE SHEET TN018.1 FOR CONDUIT CONTINUATION TO EXTERIOR OF BUILDING.
- 5. EXTEND (2) 4" CONDUITS TO TH24 FOR BACKBONE FIBER PATHWAYS. SEE SHEET TN018.1 FOR CONDUIT CONTINUATION TO EXTERIOR OF BUILDING.

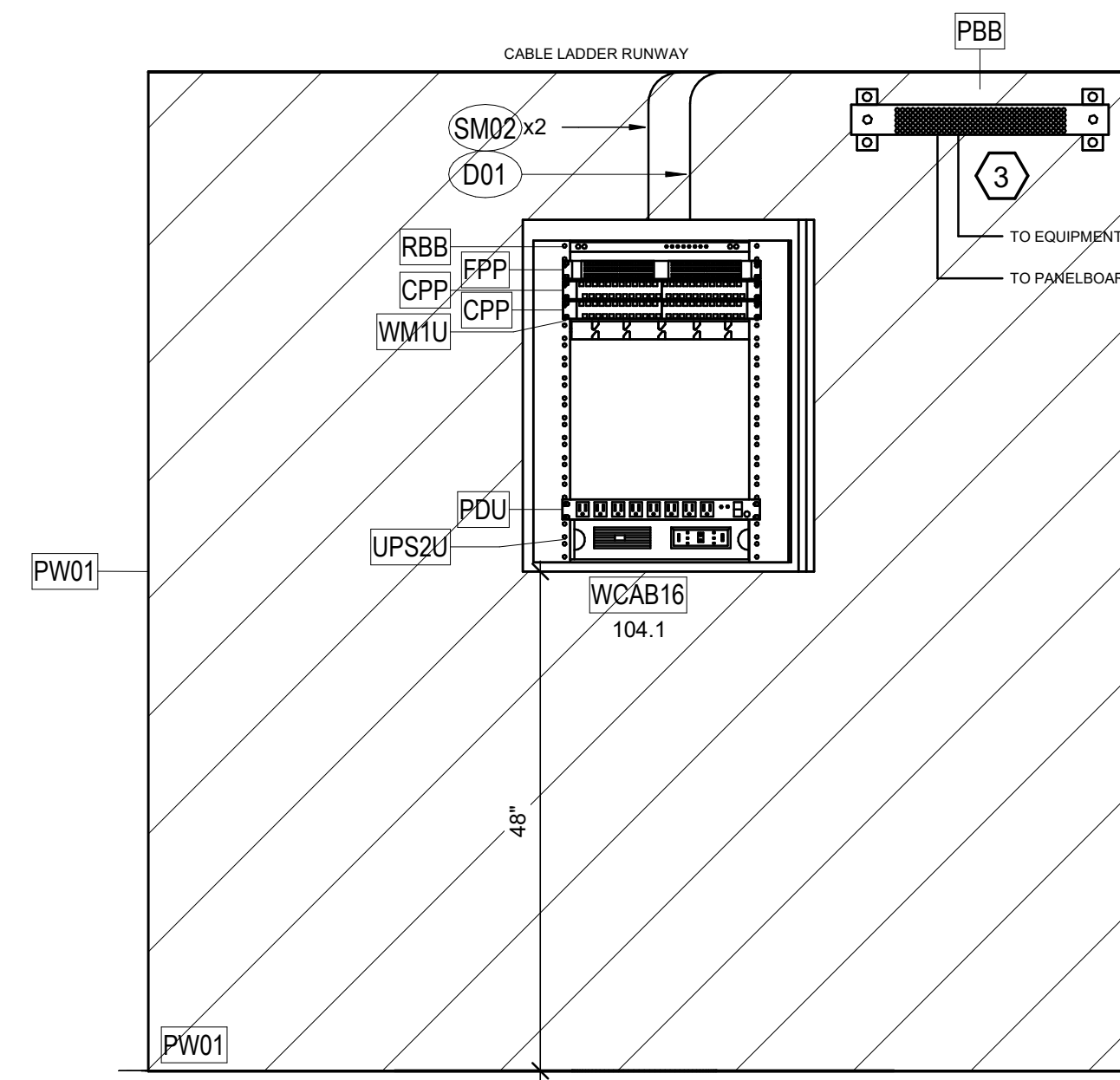
TE 104 EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
WCAB16	WALL MOUNT CABINET - 16 RU SWING-OUT, W/ FANS, INTERNAL GROUND BUSBAR, HINGED AND LOCKABLE TRANSPARENT FRONT DOOR, SWING-OUT FRONT SECTION WITH VENTED REAR SECTION FIXED TO THE WALL, FULL HT FRONT AND REAR VERT. WIRE MGMT BOTH SIDES, SURGE PROTECTED 6 OUTLET (MIN.) HORIZONTAL POWER STRIP. CABINET MUST ADHERE TO SEISMIC REQUIREMENTS IN ACCORDANCE WITH ASCE 7-05 CHAPTER 13.
PBB	TELECOM PRIMARY BONDING BUSBAR.

TELECOM OUTLET SCHEDULE									
OUTLET TYPE	LOCATION	NETWORK_ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE_U_1	CABLE_U_2	CABLE_C_1	CABLE_C_2	CABLE COLOR
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR TBD	18	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR TBD	52	0	0	0	
22					70	0	0	0	
OUTLET TOTAL: 22									

TE 104 EQUIPMENT RACK SCHEDULE						
RACK_ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
TE 104		WCAB16			WALL MOUNT CABINET - 16 RU SWING-OUT, W/ FANS, INTERNAL GROUND BUSBAR, HINGED AND LOCKABLE TRANSPARENT FRONT DOOR, SWING-OUT FRONT SECTION WITH VENTED REAR SECTION FIXED TO THE WALL, FULL HT FRONT AND REAR VERT. WIRE MGMT BOTH SIDES, SURGE PROTECTED 6 OUTLET (MIN.) HORIZONTAL POWER STRIP. CABINET MUST ADHERE TO SEISMIC REQUIREMENTS IN ACCORDANCE WITH ASCE 7-05 CHAPTER 13.	16
TE 104		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
TE 104		CPP			CAT 6 ANGLED PATCH PANEL, 48-PORT, 1U	1
TE 104		CPP			CAT 6 ANGLED PATCH PANEL, 48-PORT, 1U	1
TE 104		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
TE 104		UPS2U			UNINTERRUPTED POWER SUPPLY - 2U RACK MOUNTED	2
TE 104		RBB			1U RACK BONDING BUSBAR.	1
TE 104		PDU			RACK MOUNT PDU. L5-20 INPUT. NEMA 5-15 OUTPUT. 1 RU	1



F1 ENLARGED PLAN - TR 104
SCALE: 1/2" = 1'-0"



F4 TR 104 RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>Date:</p>	<p>CONSULTANT Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD Atriax, plc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Bicsi 828.315.9964 BICS11016239954 Expires 03/31/25 RCD 03/08/24</p>	<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title BLDG 018 - ENLARGED PLANS AND ELEV. - TR 104</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>	
							<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number 018</p>	
								<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>	<p>Drawing Number TN420</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

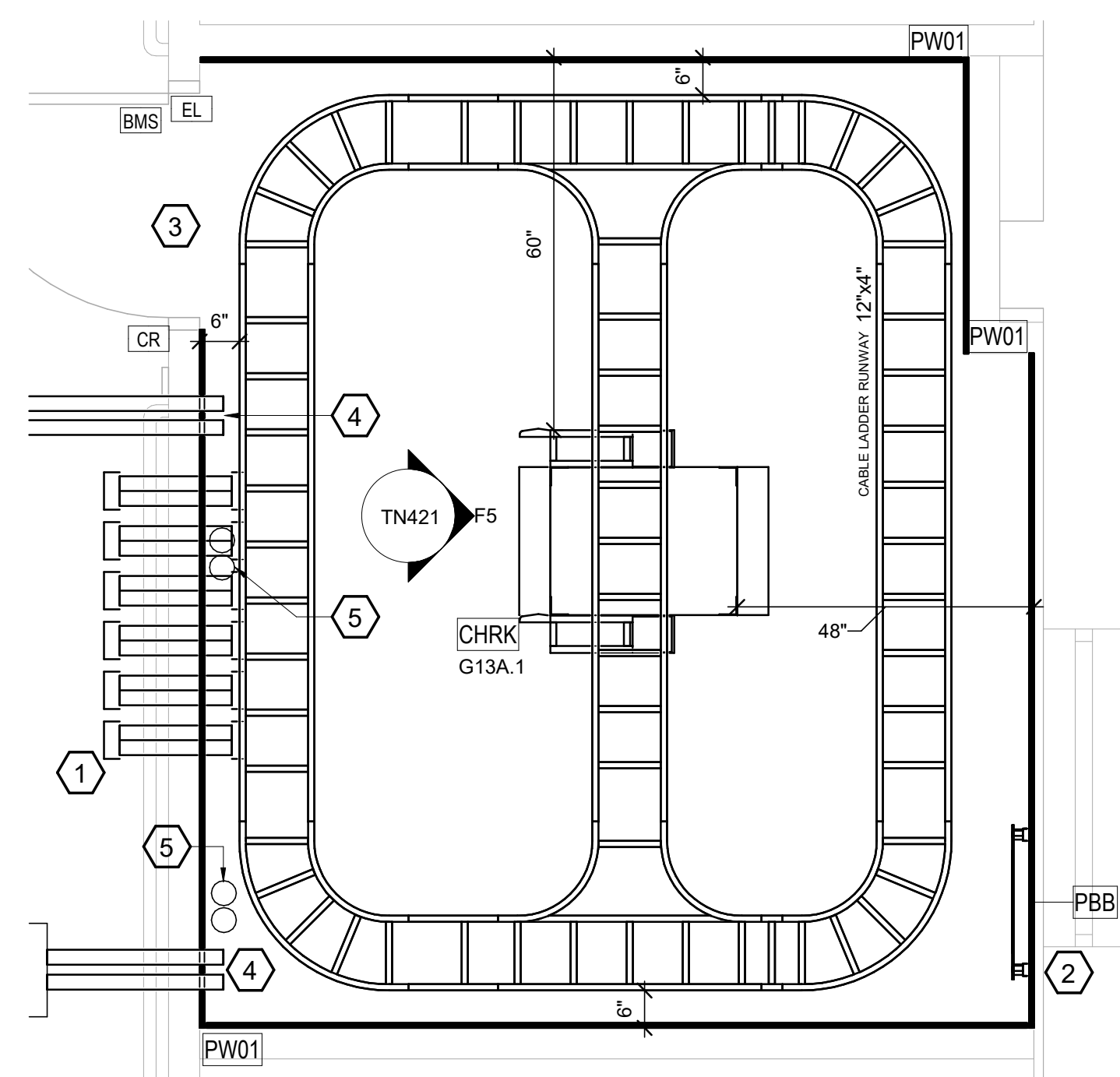
KEYNOTES:

- 1. PROVIDE (5) 1/4" EMT CONDUIT SLEEVES FROM TR G13A TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. PRIMARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. EXTEND (2) 4" CONDUITS FOR BACKBONE FIBER PATHWAYS. SEE SHEET TN038.1 FOR ADDITIONAL ROUTING DETAILS.
- 5. (2) 4" CONDUITS THROUGH CEILING DECK AND THROUGH LEVEL 01 FOR BACKBONE FIBER PATHWAY TO LEVEL 02 TR 225.

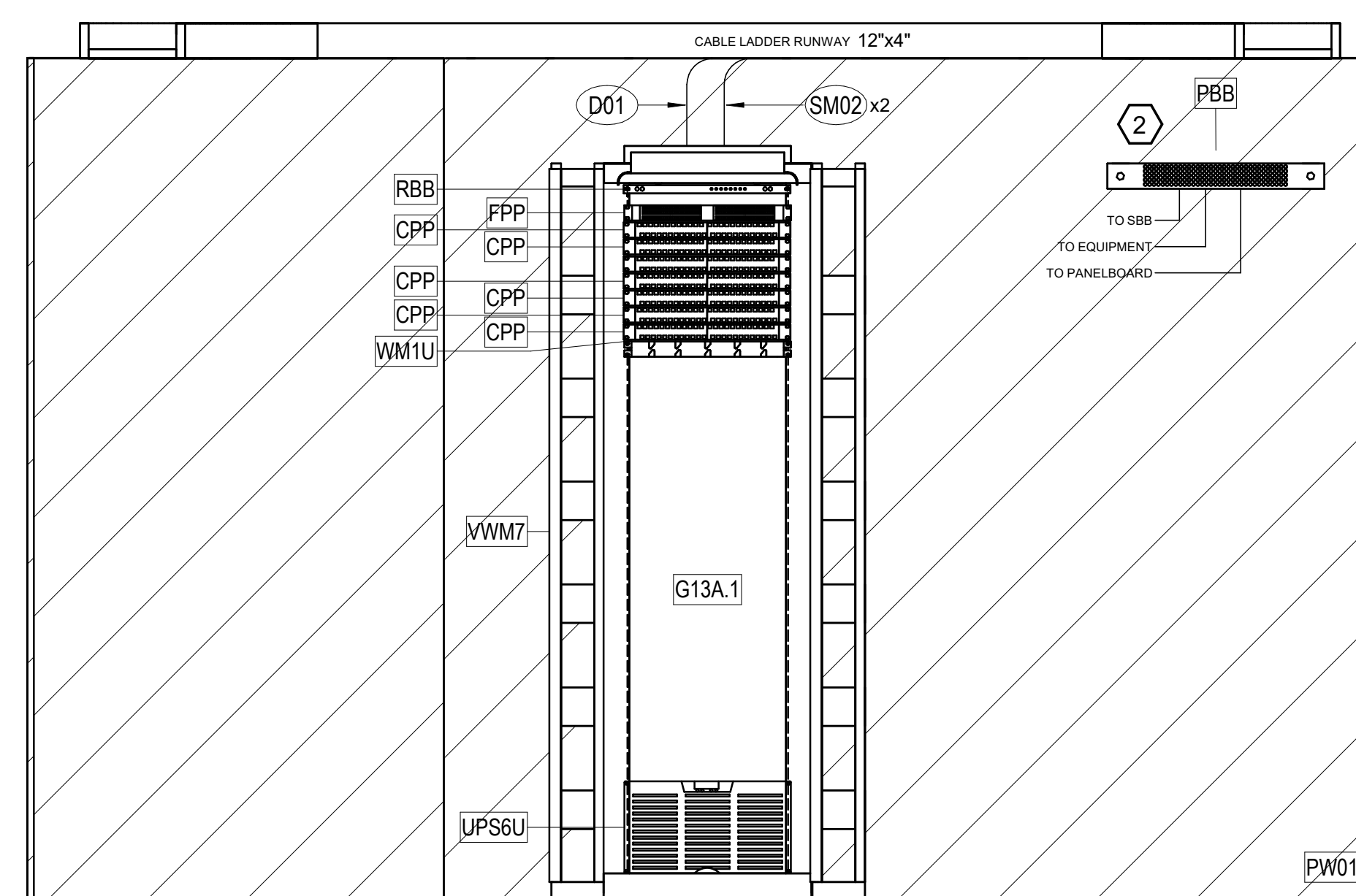
TR G13A EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
PBB	TELECOM PRIMARY BONDING BUSBAR. 12"x4" CABLE LADDER RUNWAY

TELECOM OUTLET SCHEDULE - GROUND LEVEL									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE U_1	CABLE U_2	CABLE C_1	CABLE C_2	CABLE COLOR
T2		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR G13A	10	0	0	0	
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR G13A	48	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR G13A	176	0	0	0	
W		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR G13A	12	0	0	0	
OUTLET TOTAL: 76					246	0	0	0	

TR G13A EQUIPMENT RACK SCHEDULE						
RACK_ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
G13A.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
G13A.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
G13A.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
G13A.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
G13A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
G13A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
G13A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
G13A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
G13A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
G13A.1		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
G13A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
G13A.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
G13A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
G13A.1		RBB			1U RACK BONDING BUSBA MOUNTED ON BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR G13A - TELECOM
SCALE: 1/2" = 1'-0"



F5 TR G13A RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>DATE:</p>	<p>CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD Atriax GROUP www.atriaxgroup.com Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICS11078239554 Expires 03/31/25 RCD 03/08/24</p>	<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title BLDG 038 - ENLARGED PLANS AND ELEV. - TR G13A</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>	
							<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number 038</p>	
								<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>	<p>Drawing Number TN421</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT.
D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY.
E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY.
F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

KEYNOTES:

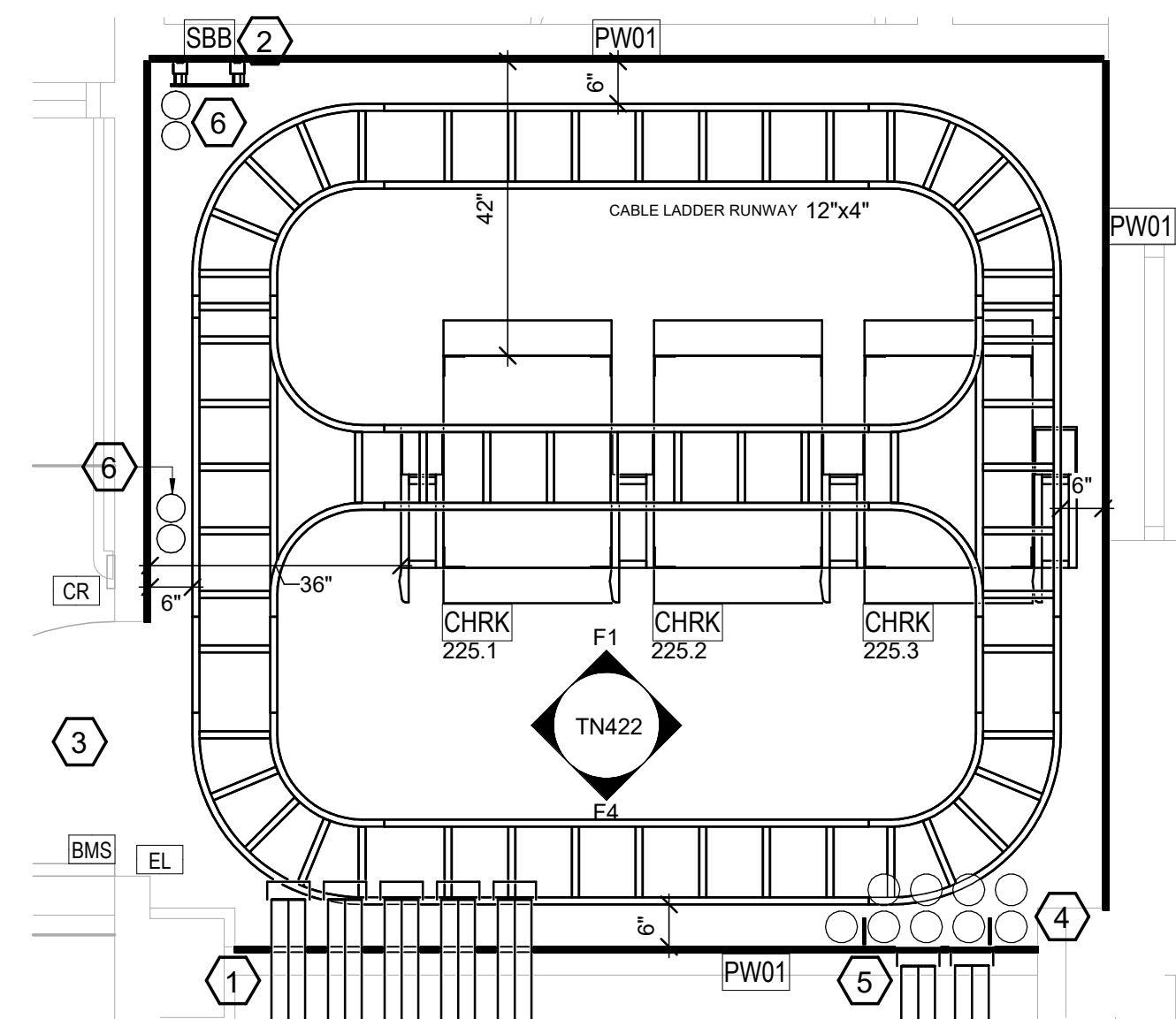
- 1. PROVIDE (8) 4" EMT CONDUIT SLEEVES FROM TR 225 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
2. SECONDARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REK, SSTV) TO NEW ACIDS/DIS PDU LOCATION.
4. PROVIDE (8) 4" EMT CONDUIT SLEEVES THROUGH FLOOR FOR VERTICAL STRUCTURED CABLING PATHWAY FROM TR 225 TO LEVEL 01.
5. PROVIDE (2) 4" EMT CONDUIT SLEEVES FROM TR 225 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
6. (2) 4" CONDUITS THROUGH FLOOR SLAB AND THROUGH LEVEL 01 FOR BACKBONE FIBER PATHWAY TO GROUND LEVEL TR G13.

TR 225 EQUIPMENT SCHEDULE table with columns: EQUIPMENT DESIGNATION, DESCRIPTION. Rows include PW01, CHRK, VWM7, and SBB.

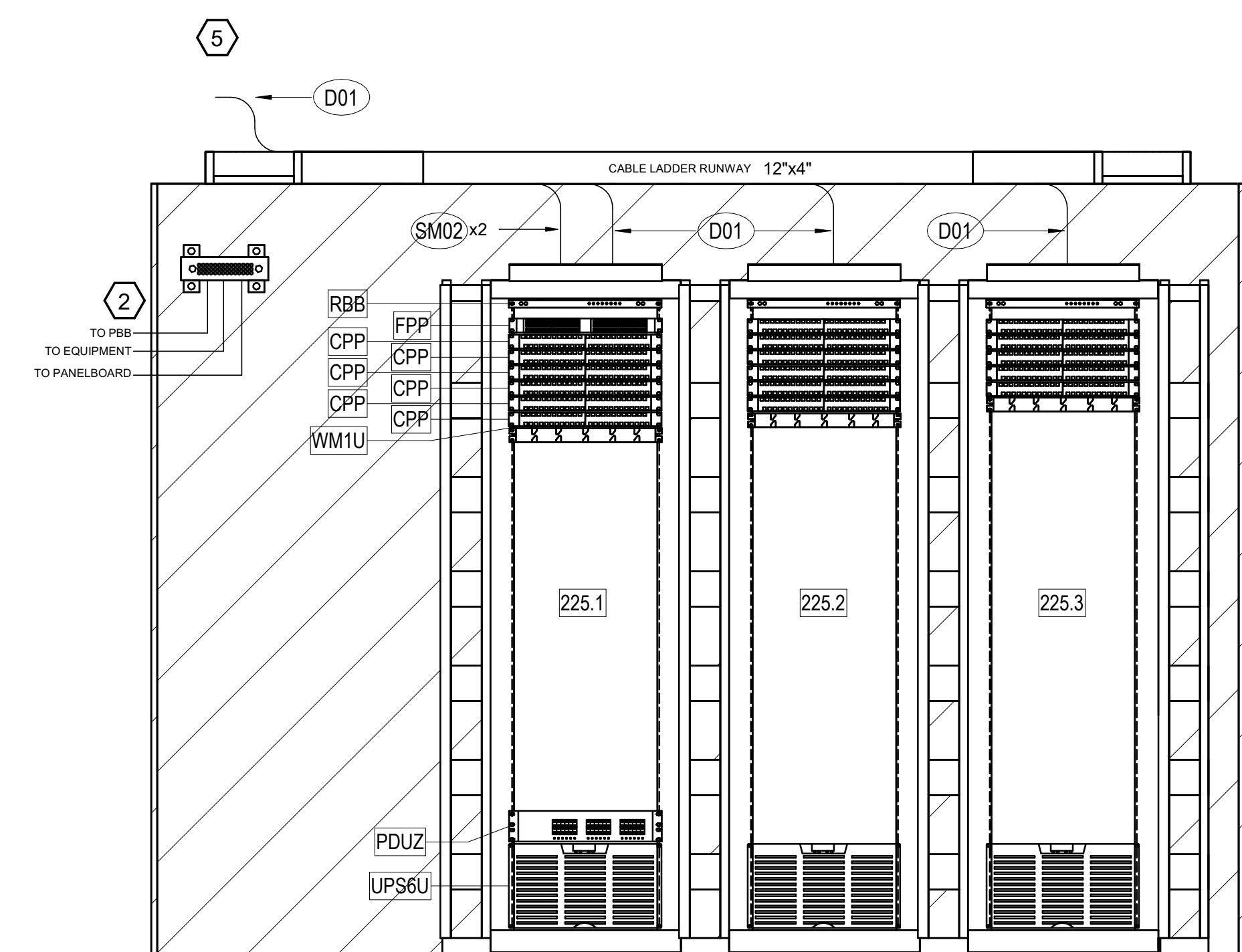
TR 225 EQUIPMENT RACK SCHEDULE table with columns: RACK ID, PATCH PANEL ID, EQUIPMENT DESIGNATION, RACK SPACE ID, NETWORK, DESCRIPTION, RACK SPACES. Rows include 225.1, 225.2, 225.3.

TELECOM OUTLET SCHEDULE - LEVEL 01 table with columns: OUTLET TYPE, LOCATION, NETWORK ID, DESCRIPTION, IDF/TR ROOM NAME AND NUMBER, CABLE U, CABLE U_2, CABLE C_1, CABLE C_2, CABLE COLOR, FLOOR NUMBER. Includes outlet types T1, T2, T4, W.

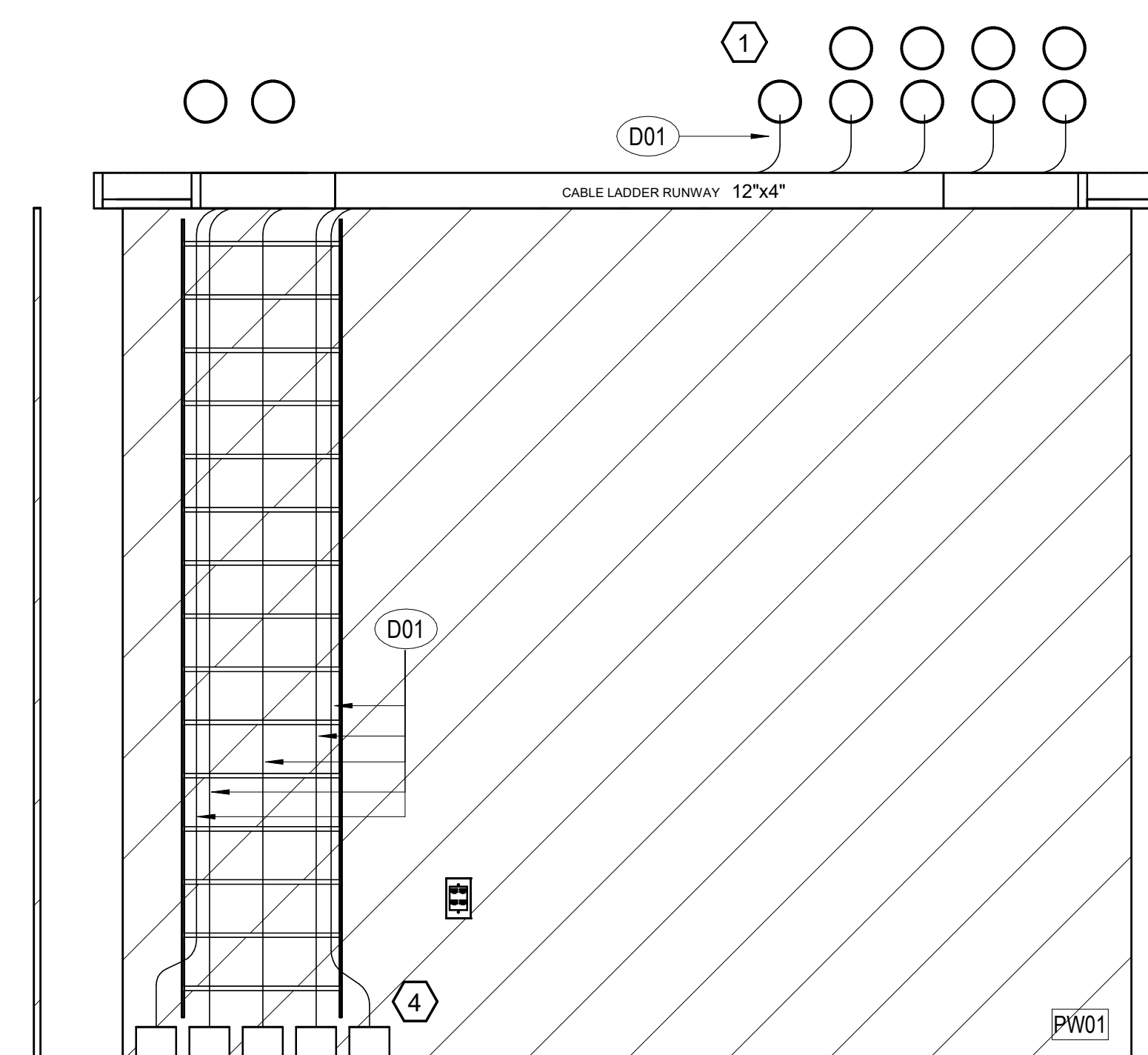
TELECOM OUTLET SCHEDULE - LEVEL 02 table with columns: OUTLET TYPE, LOCATION, NETWORK ID, DESCRIPTION, IDF/TR ROOM NAME AND NUMBER, CABLE U, CABLE U_2, CABLE C_1, CABLE C_2, CABLE COLOR, FLOOR NUMBER. Includes outlet types T2 WAP, T4.



C1 ENLARGED PLAN - TR 225 - TELECOM SCALE: 1/2" = 1'-0"



F1 TR 225 RACK ELEVATION SCALE: 3/4" = 1'-0"



F4 TR 225 PLAN SOUTH WALL ELEVATION SCALE: 3/4" = 1'-0"

Continuation of TR 225 EQUIPMENT RACK SCHEDULE table with rows 225.2 and 225.3.

Revisions table with columns for revision number, description, and date.

CONSULTANT: WileyWilson logo and address: 127 Nationwide Drive, Lynchburg, VA 24502.

ARCHITECT/ENGINEER OF RECORD: Atriax logo and address: 703 Main Avenue SW, PO Box 1629, Hickory, NC 28603.

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

Drawing Title: BLDG 038 - ENLARGED PLANS AND ELEV. - TR 225. Approved: Chief Engineer.

Phase: 100% CONSTRUCTION DOCUMENTS. FULLY SPRINKLERED.

Project Title: EHRM INFRASTRUCTURE UPGRADES. Project Number: 679-20-104. Building Number: 038. Drawing Number: TN422.

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 90 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

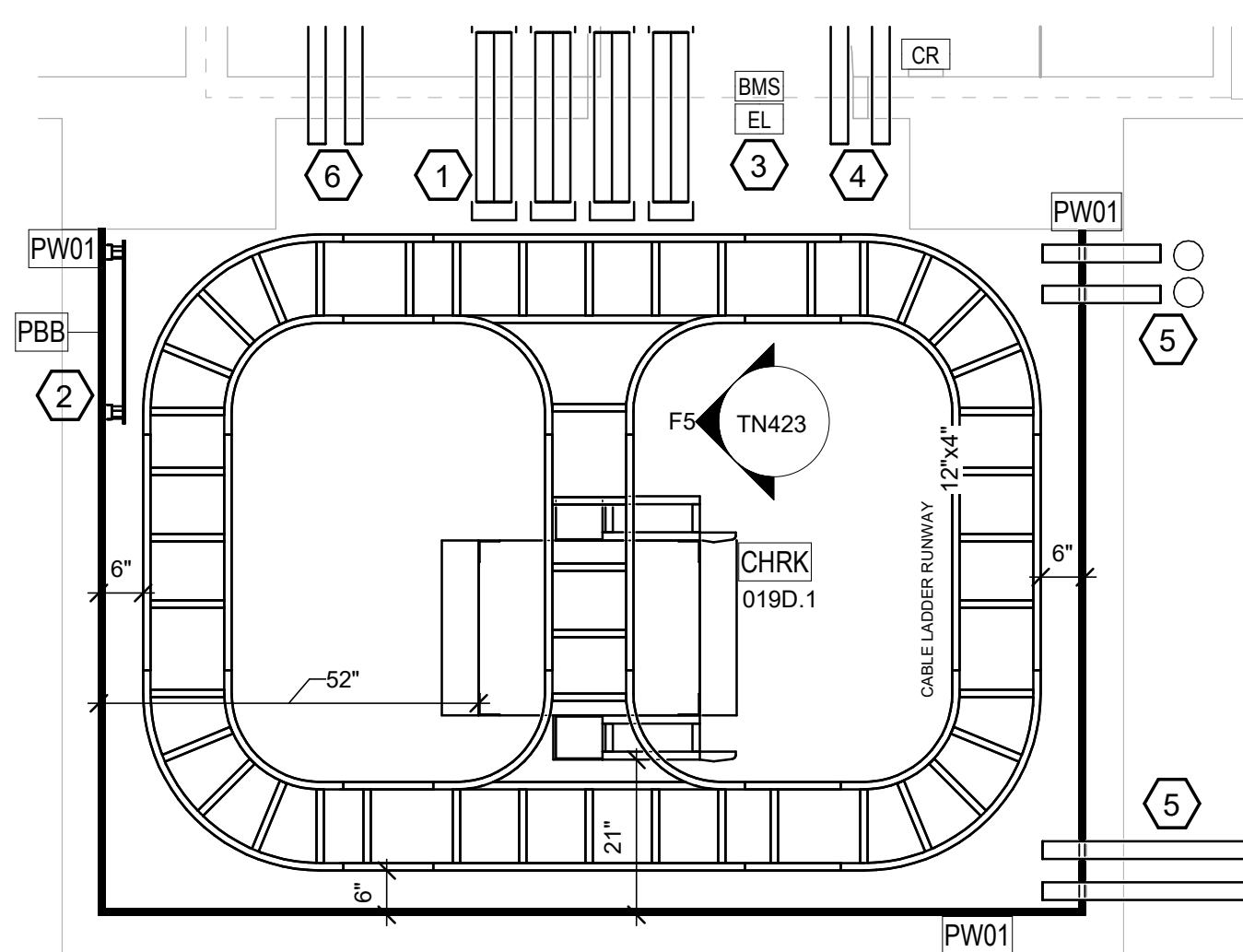
KEYNOTES:

- 1. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR 19D TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. PRIMARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL. REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. EXTEND (2) 4" CONDUITS TO BUILDING 40 FOR BACKBONE FIBER PATHWAYS.
- 5. (2) 4" CONDUIT SLEEVES THROUGH CEILING DECK FOR BACKBONE FIBER PATHWAY TO LEVEL 01 TR 104.
- 6. EXTEND (2) 4" CONDUITS TO TM009 FOR BACKBONE FIBER PATHWAYS.

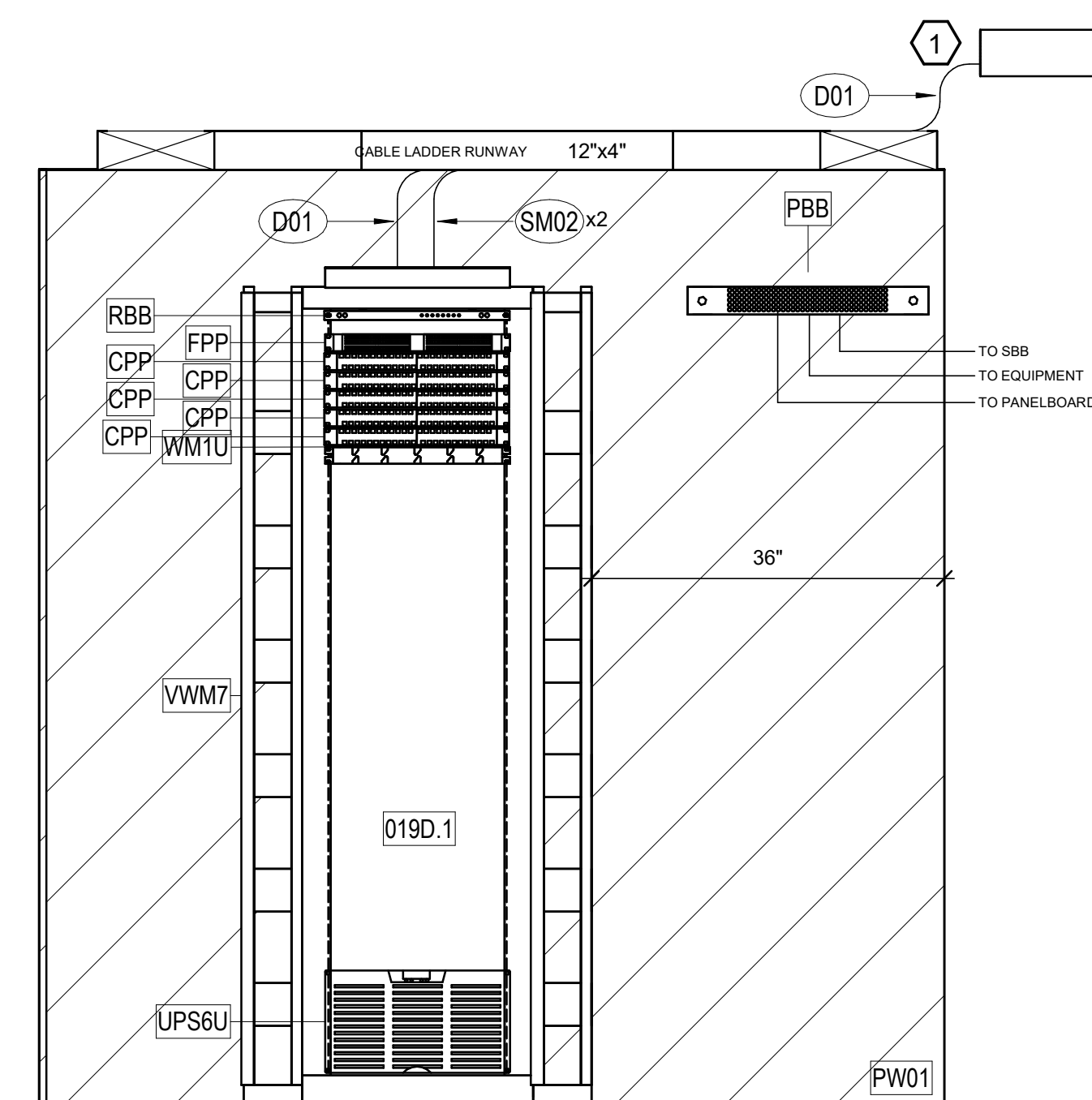
TR 19D EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4" X 8' AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45' X 10.26' X 84" WHITE
	12"x4" CABLE LADDER TRAY
PBB	TELECOM PRIMARY BONDING BUSBAR.

TELECOM OUTLET SCHEDULE - GROUND LEVEL									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE U_1	CABLE U_2	CABLE C_1	CABLE C_2	CABLE COLOR
T2		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 019D	2	0	0	0	
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 019D	48	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 019D	124	0	0	0	
56				TR 019D	174	0	0	0	
OUTLET TOTAL: 56					174	0	0	0	

TR 19D EQUIPMENT RACK SCHEDULE						
RACK ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
019D.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
019D.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45' X 10.26' X 84" WHITE	
019D.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45' X 10.26' X 84" WHITE	
019D.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
019D.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
019D.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
019D.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
019D.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
019D.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
019D.1		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
019D.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
019D.1		RBB			1U RACK BONDING BUSBAR MOUNTED ON BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR 019D
SCALE: 1/2" = 1'-0"



F5 TR 019D RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>CONSULTANT</p> <p>WileyWilson</p> <p>127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax</p> <p>www.atriaxgroup.com</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964</p> <p>NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP</p> <p>Bicsi</p> <p>REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER</p> <p>03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>BLDG 039 - ENLARGED PLANS AND ELEV. - TR 019D</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>
					<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number</p> <p>039</p>
<p>Revisions:</p>		<p>Date:</p>		<p>Issue Date</p> <p>03/08/2024</p>		<p>Checked</p> <p>JMM</p>	<p>Drawn</p> <p>JEH</p>	<p>Drawing Number</p> <p>TN423</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 900.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

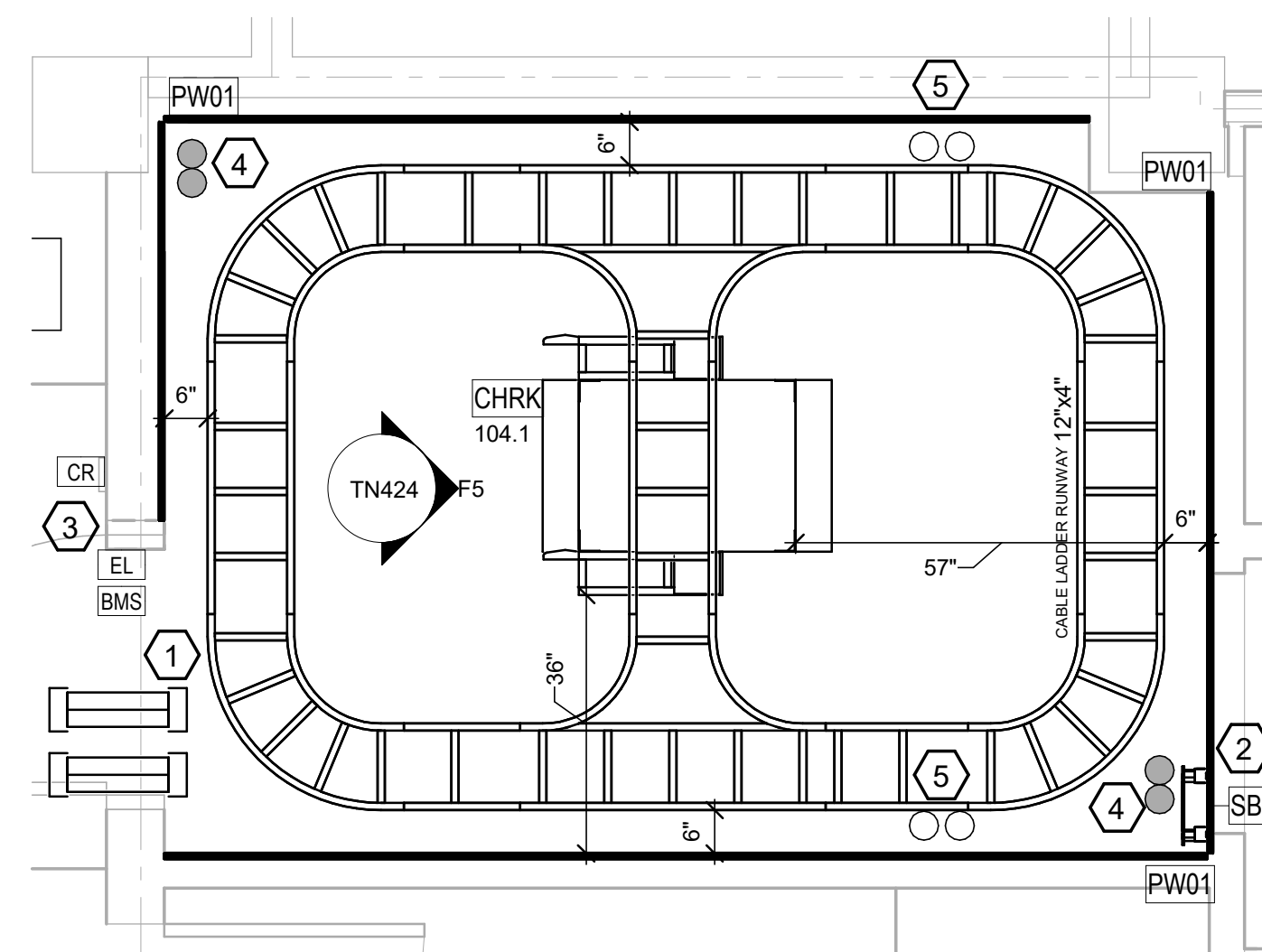
KEYNOTES:

- 1. PROVIDE (2) 4" EMT CONDUIT SLEEVES FROM TR 104 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REK, SSTV) TO NEW AC/SIDS PDU LOCATION.
- 4. (2) 4" CONDUIT SLEEVES THROUGH FLOOR SLAB FOR BACKBONE FIBER PATHWAY TO BASEMENT LEVEL TR 019D.
- 5. (2) 4" CONDUIT SLEEVES THROUGH CEILING DECK FOR BACKBONE FIBER PATHWAY TO LEVEL 02 TR 207.

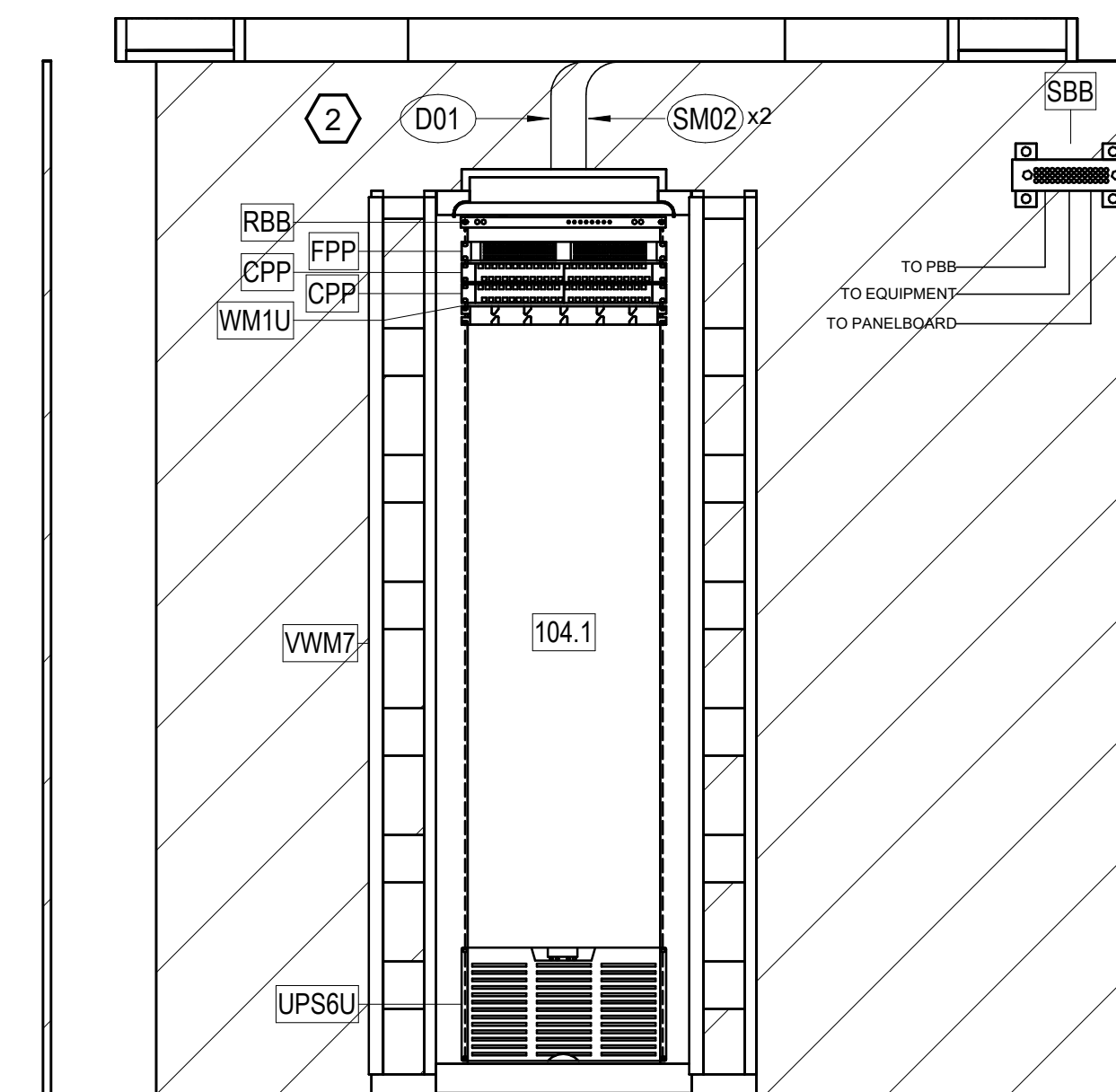
TR 104 EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
SBB	12"x4" CABLE LADDER TRAY ANSI/ EIA/ TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB).

TELECOM OUTLET SCHEDULE - LEVEL 01									
OUTLET TYPE	LOCATION	NETWORK_ID	DESCRIPTION	ID/TR ROOM NAME AND NUMBER	CABLE_U_1	CABLE_U_2	CABLE_C_1	CABLE_C_2	CABLE COLOR
T1		UNCLASSIFIED	(1) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 104	5	0	0	0	
T2		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 104	8	0	0	0	
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 104	40	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 104	8	0	0	0	
:35					65	0	0	0	
OUTLET TOTAL: 35					65	0	0	0	

TR 104 EQUIPMENT RACK SCHEDULE						
RACK_ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
104.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
104.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
104.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
104.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
104.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
104.1		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
104.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
104.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
104.1		RBB			1U RACK BONDING BUSBAR MOUNTED ON BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR 104
SCALE: 1/2" = 1'-0"



F5 TR 104 RACK ELEVATION1
SCALE: 3/4" = 1'-0"

Revisions:	Date:

CONSULTANT

Wiley|Wilson
127 Nationwide Drive
Lynchburg, VA 24502
Phone: 434.947.1901
www.wileywilson.com

S&S SPECIALIZED ENGINEERING SOLUTIONS
Specialized Engineering Solutions
1300 Baxter Street, Suite 355
Charlotte, NC 28204

ARCHITECT/ENGINEER OF RECORD

Atriax GROUP
www.atriaxgroup.com

Atriax, pllc
703 Main Avenue SW
PO Box 1629, Hickory, NC 28603
Phone: 828.315.9962
Fax: 828.315.9964

NC Engineering License No.: P-0214
NC Architectural License No.: 51254

Bicsi
REGISTERED COMMUNICATIONS DISTRIBUTION TECHNICIAN
BICS1107823954
Expires 03/31/25
RCDD
03/08/24

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

Drawing Title
BLDG 039 - ENLARGED PLANS AND ELEV. - TR 104

Approved: Chief Engineer

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE UPGRADES

Location
TUSCALOOSA VAMC, TUSCALOOSA, AL.

Issue Date
03/08/2024

Checked
JMM

Drawn
JEH

Project Number
679-20-104

Building Number
039

Drawing Number
TN424

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 300 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

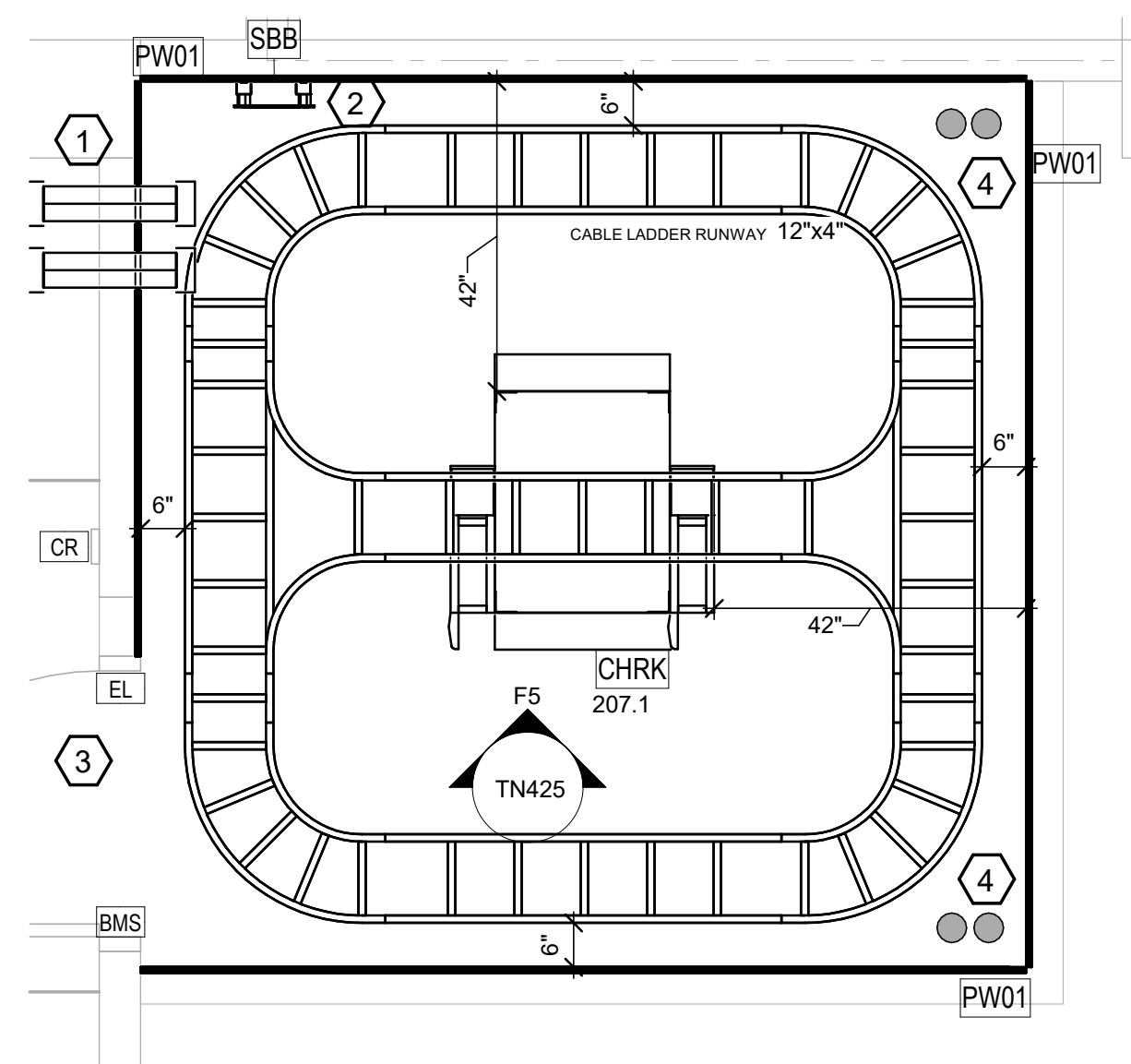
KEYNOTES:

- 1. PROVIDE (2) 4" EMT CONDUIT SLEEVES FROM TR LVL02 TO CABLE TRAY FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. (2) 4" CONDUIT SLEEVES THROUGH FLOOR SLAB FOR BACKBONE FIBER PATHWAY TO LEVEL 1 TR 104.

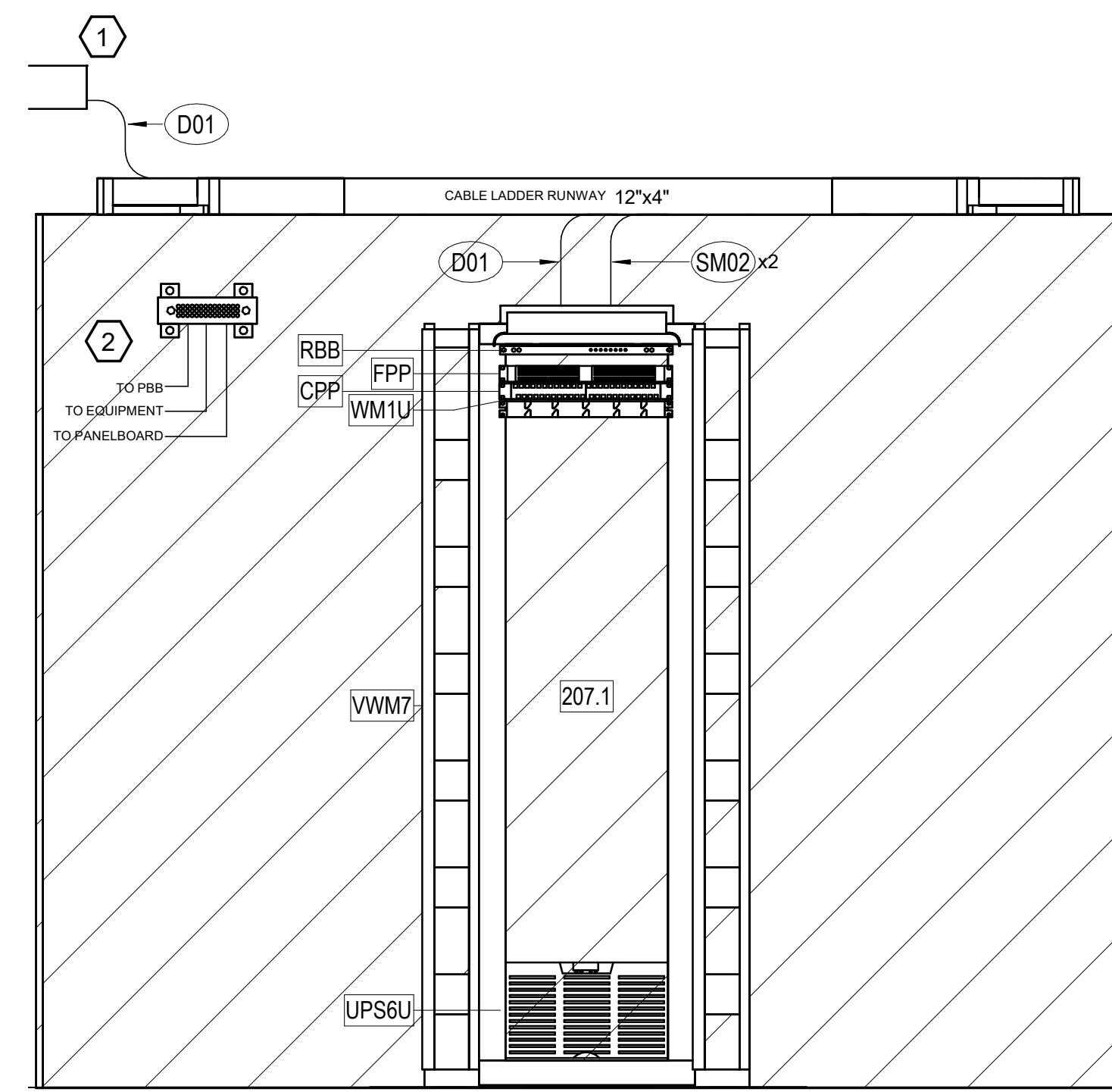
TR 207 EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
	12"x4" CABLE LADDER TRAY
SBB	ANSI/ EIA/ TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB).

TELECOM OUTLET SCHEDULE - LEVEL 02									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE_U_1	CABLE_U_2	CABLE_C_1	CABLE_C_2	CABLE COLOR
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR LVL2	8	0	0	0	
OUTLET TOTAL: 2					8	0	0	0	

TR 207 EQUIPMENT RACK SCHEDULE						
RACK_ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
207.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
207.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
207.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
207.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
207.1		UPS6U			5 kW 208V w/20A 5W/5W OUT, TWO INTERNAL BATTERY STRING	6
207.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
207.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
207.1		RBB			1U RACK BONDING BUSBAR MOUNTED ON BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR 207
SCALE: 1/2" = 1'-0"



F5 TR 207 RACK ELEVATION
SCALE: 3/4" = 1'-0"

CONSULTANT WILEY WILSON 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 16229, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI 30244 Main Street BICSI 107 # 219554 Evansville, IN 47917-2195 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BLDG 039 - ENLARGED PLANS AND ELEV. - TR 207	Phase 100% CONSTRUCTION DOCUMENTS	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
				Approved: Chief Engineer	FULLY SPRINKLERED	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 039
Revisions:	Date:	Issue Date 03/08/2024	Checked JMM	Drawn JEH	Drawing Number TN425		

GENERAL NOTES:

- A. SEE SHEET T6001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET T6003 & T6000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR's SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

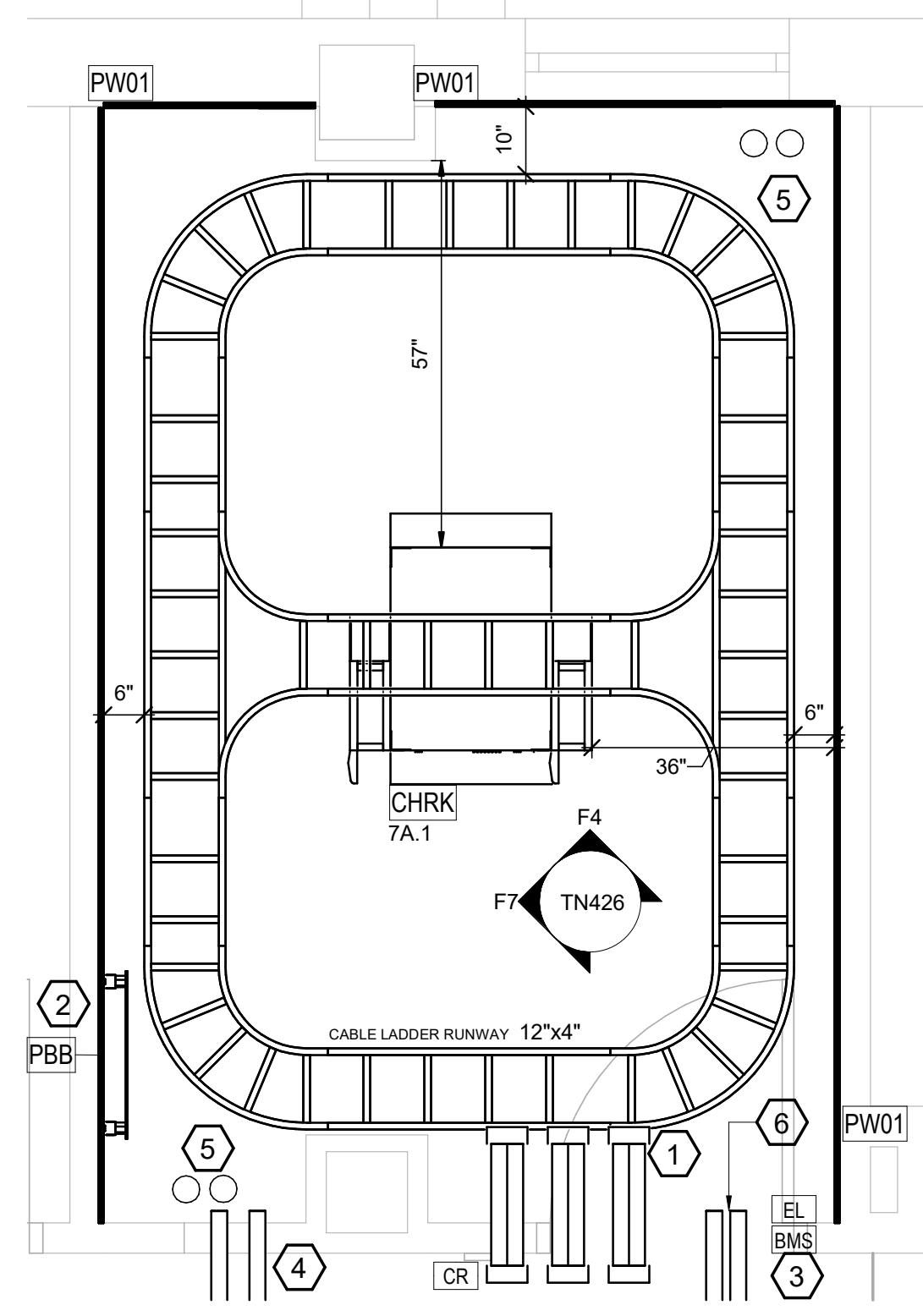
KEYNOTES:

- 1. PROVIDE (3) 4" EMT CONDUIT SLEEVES FROM TR 7A TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. PRIMARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET T6503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. (2) 4" CONDUITS TO BUILDING 39 FOR BACKBONE FIBER PATHWAYS.
- 5. (2) 4" CONDUIT SLEEVES THROUGH CEILING DECK FOR BACKBONE FIBER PATHWAY TO LEVEL 1 TR 115.
- 6. EXTEND (2) 4" CONDUITS TO THH11 FOR BACKBONE FIBER PATHWAYS.

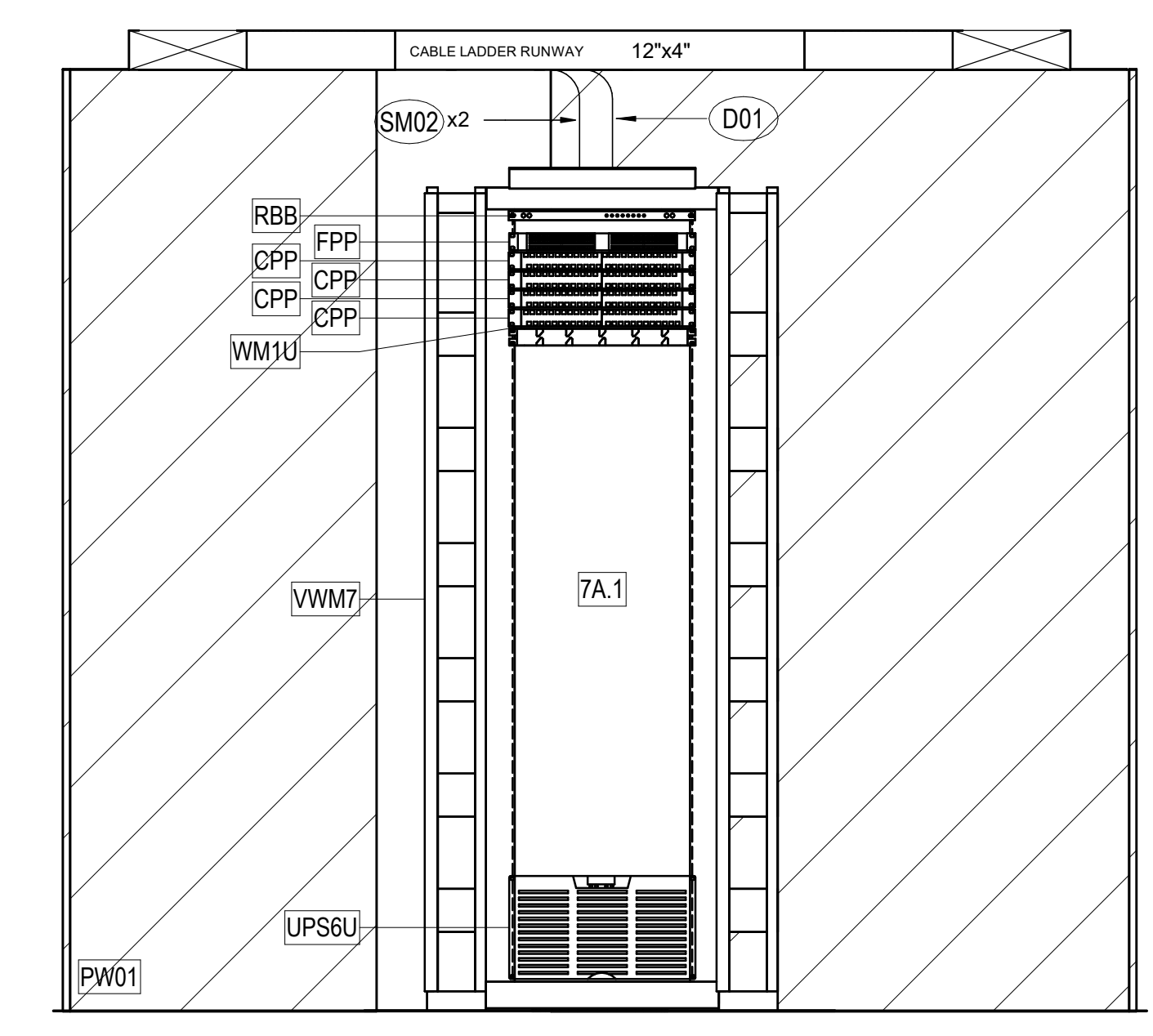
TR 7A EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4" X 8" AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET T6503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE.
PBB	12"x4" CABLE LADDER RUNWAY TELECOM PRIMARY BONDING BUSBAR.

TELECOM OUTLET SCHEDULE - BASEMENT LEVEL									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE U_1	CABLE U_2	CABLE C_1	CABLE C_2	CABLE COLOR
T2		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 7A	2	0	0	0	
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 7A	44	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 7A	104	0	0	0	
OUTLET TOTAL: 49					150	0	0	0	
					150	0	0	0	

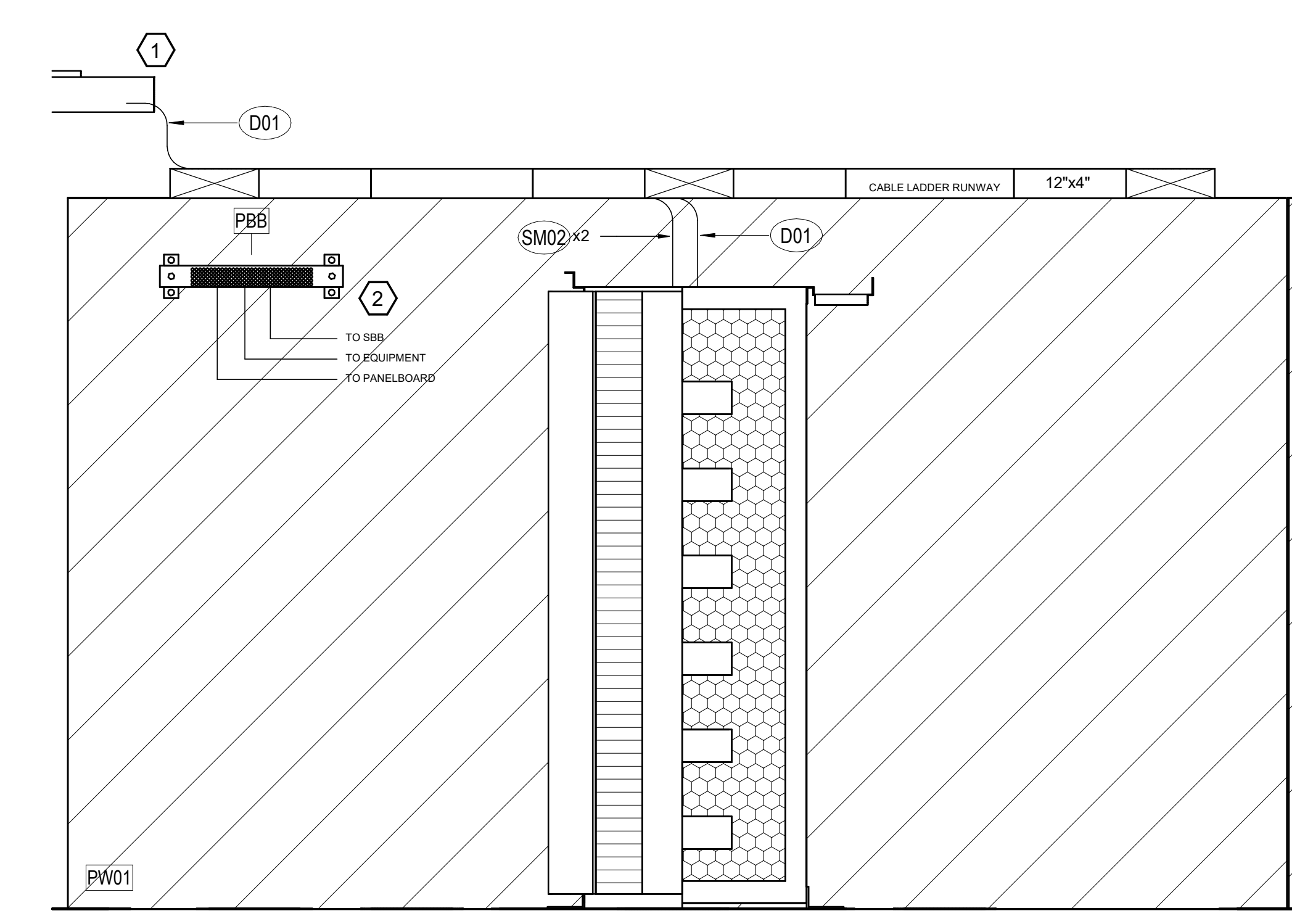
TR 7A EQUIPMENT RACK SCHEDULE						
RACK ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
7A.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET T6503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
7A.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE.	
7A.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE.	
7A.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
7A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
7A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
7A.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
7A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
7A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
7A.1		UPS6U			5 KW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
7A.1		RBB			1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR 7A
SCALE: 1/2" = 1'-0"



F4 TR 7A RACK ELEVATION
SCALE: 3/4" = 1'-0"



F7 TR 7A WEST WALL ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>CONSULTANT</p> <p>Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax, plc 703 Main Avenue SW PO Box 16229, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP</p> <p>Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICS1101623954 Expires 03/31/25 RCD 03/08/24</p>	<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title BLDG 040 - ENLARGED PLANS AND ELEV. - TR 7A</p> <p>Approved: Chief Engineer</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>	
	<p>Date:</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>Atriax GROUP</p>	<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 900.46 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

KEYNOTES:

- 1. PROVIDE (10) 4" EMT CONDUIT SLEEVES FROM TR 115 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REK, SBY) TO NEW ACIDS/POU LOCATION.
- 4. (2) 4" CONDUIT SLEEVES DOWN THROUGH FLOOR SLAB FOR BACKBONE FIBER PATHWAY TO BASEMENT LEVEL TR 7A.
- 5. (2) 4" CONDUIT SLEEVES EXTENDED OUT OF TR AND THROUGH CEILING DECK FOR BACKBONE FIBER PATHWAY TO LEVEL 02 TR 215.

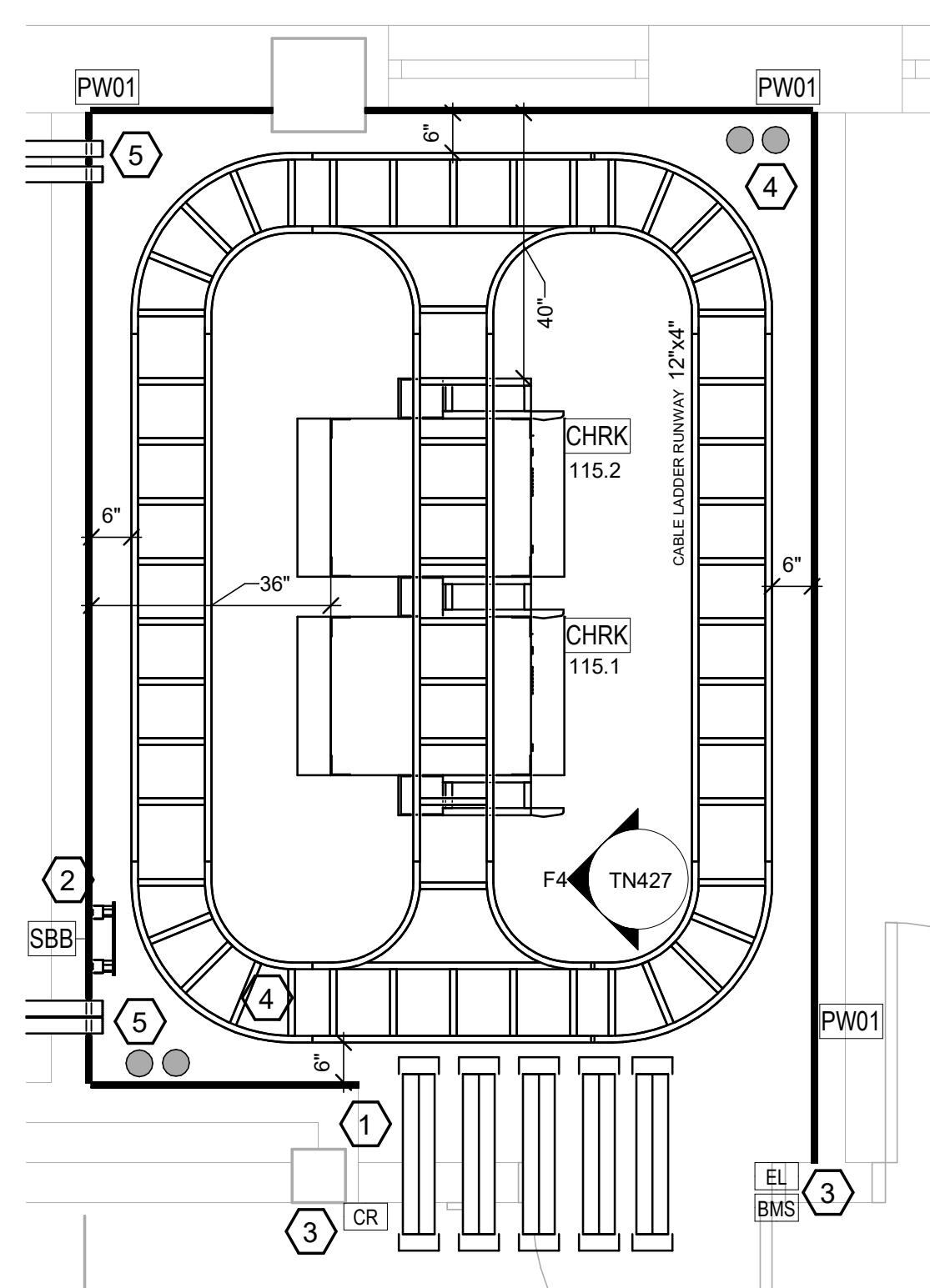
TR 115 EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45' X 10.26' X 84" WHITE
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
SBB	12"x4" CABLE LADDER RUNWAY
	ANSI/ EIA/ TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB).

TELECOM OUTLET SCHEDULE - LEVEL 01

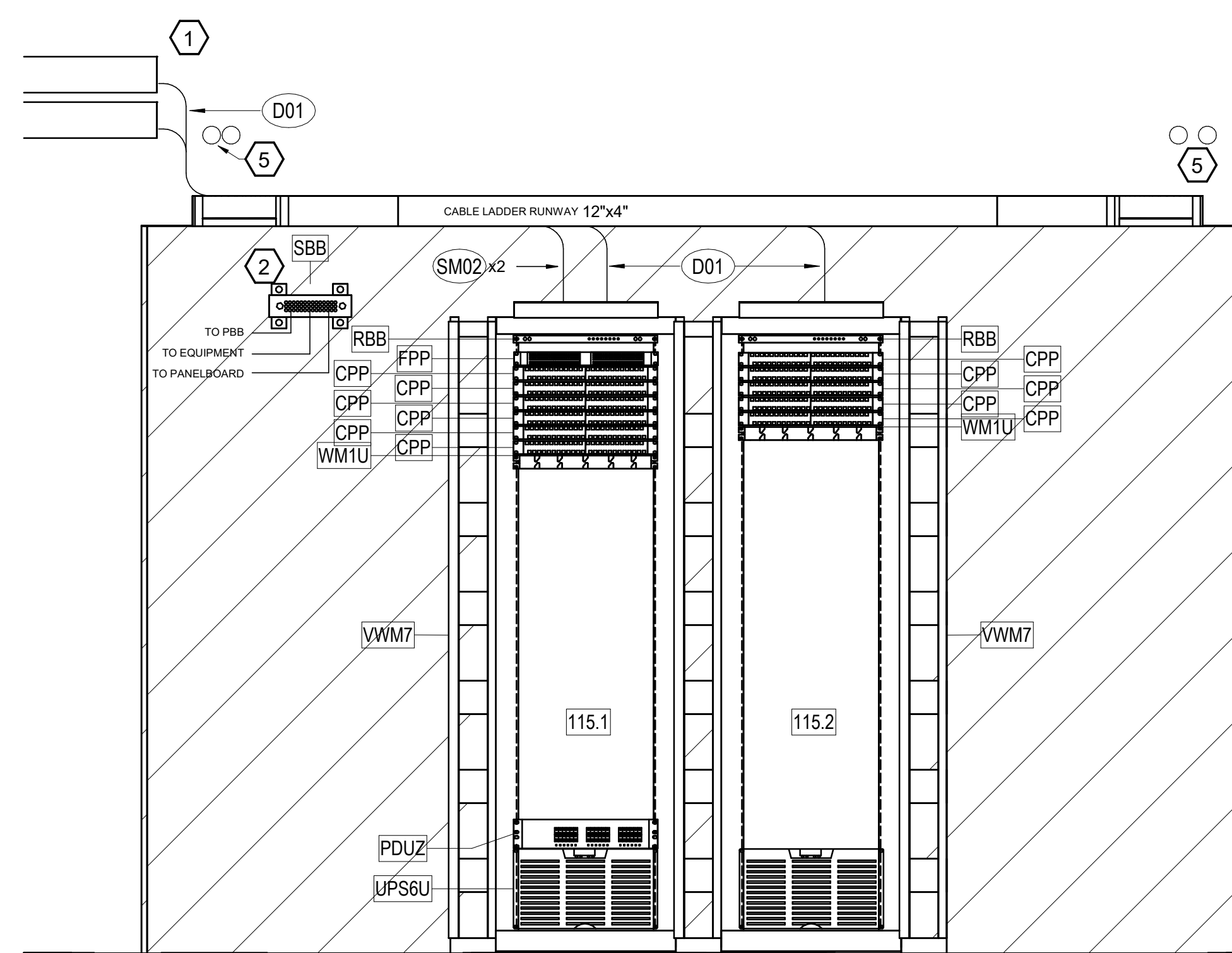
OUTLET TYPE	LOCATION	NETWORK_ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE_U_1	CABLE_U_2	CABLE_C_1	CABLE_C_2	CABLE COLOR
T1		UNCLASSIFIED	(1) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 115	2	0	0	0	
T2		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 115	26	0	0	0	
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 115	28	0	0	0	
T3		UNCLASSIFIED	(3) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 115	3	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 115	344	0	0	0	
T6		UNCLASSIFIED	(6) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 115	6	0	0	0	
:117 OUTLET TOTAL: 117					409	0	0	0	

TR 115 EQUIPMENT RACK SCHEDULE

RACK_ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
115.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
115.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45' X 10.26' X 84" WHITE	
115.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45' X 10.26' X 84" WHITE	
115.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
115.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
115.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
115.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
115.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
115.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
115.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
115.1		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
115.1		PDUZ			208V, 30A 3-PHASE ZONE PDU BASE UNIT WITH (6) REAR L21-20R OUTPUT RECEPTACLES WITH 10 FOOT POWER CORDS TERMINATING IN HARDWARE BOX	2
115.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
115.1		RBB			1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1
115.2		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45' X 10.26' X 84" WHITE	
115.2		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
115.2		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
115.2		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
115.2		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
115.2		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
115.2		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
115.2		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
115.2		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
115.2		RBB			1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR 115
SCALE: 1/2" = 1'-0"



F4 TR 115 RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>CONSULTANT Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title BLDG 040 - ENLARGED PLANS AND ELEV. - TR 115</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>		
				<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number 040</p>		
						<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>	<p>Drawing Number TN427</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 900.46 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

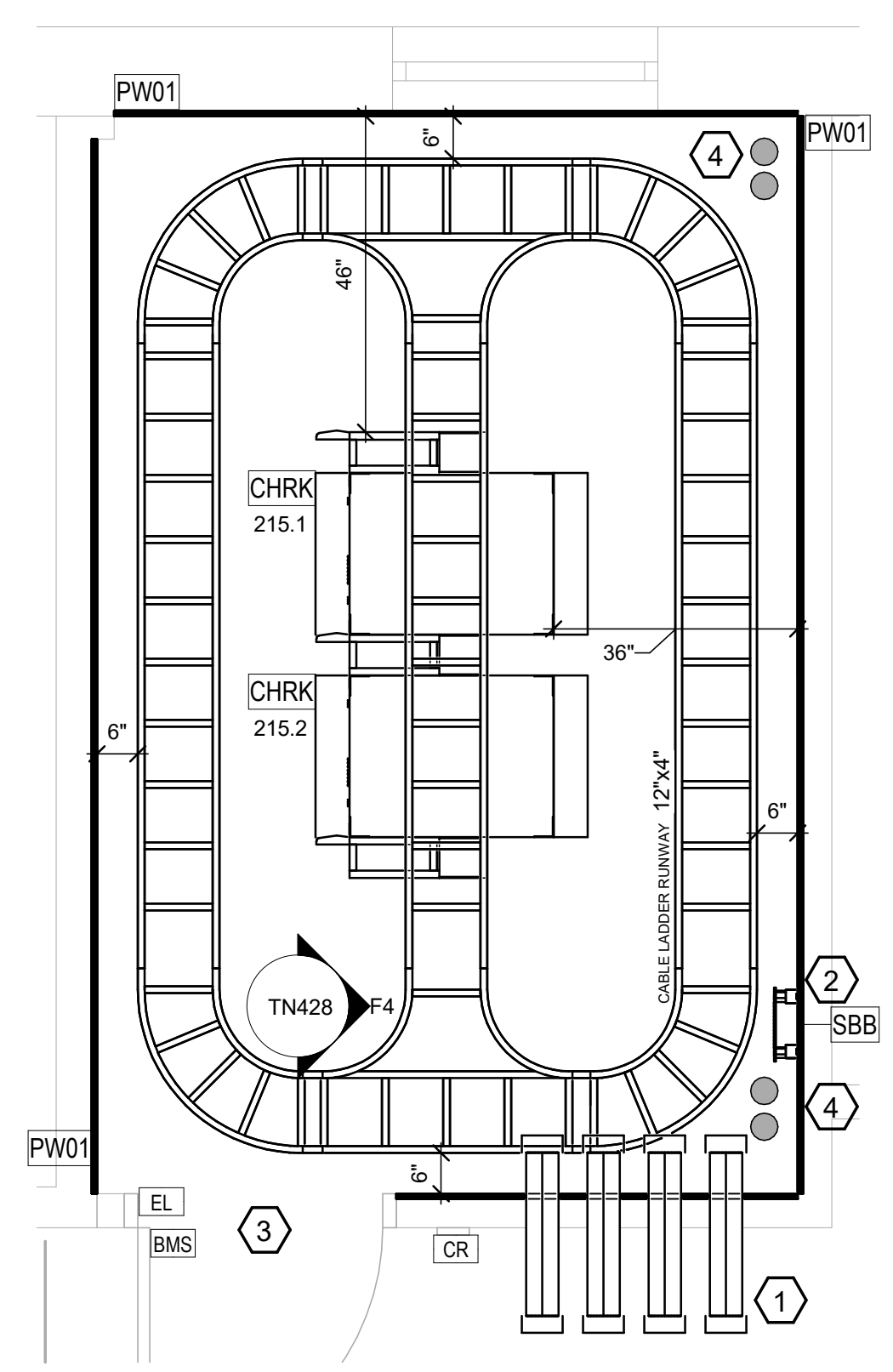
#) KEYNOTES:

- 1. PROVIDE (8) 4" EMT CONDUIT SLEEVES FROM TR 215 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REK, SSTV) TO NEW ACSIDS PCU LOCATION.
- 4. (2) 4" CONDUIT SLEEVES DOWN THROUGH FLOOR SLAB FOR BACKBONE FIBER PATHWAY TO LEVEL 1 TR 115.

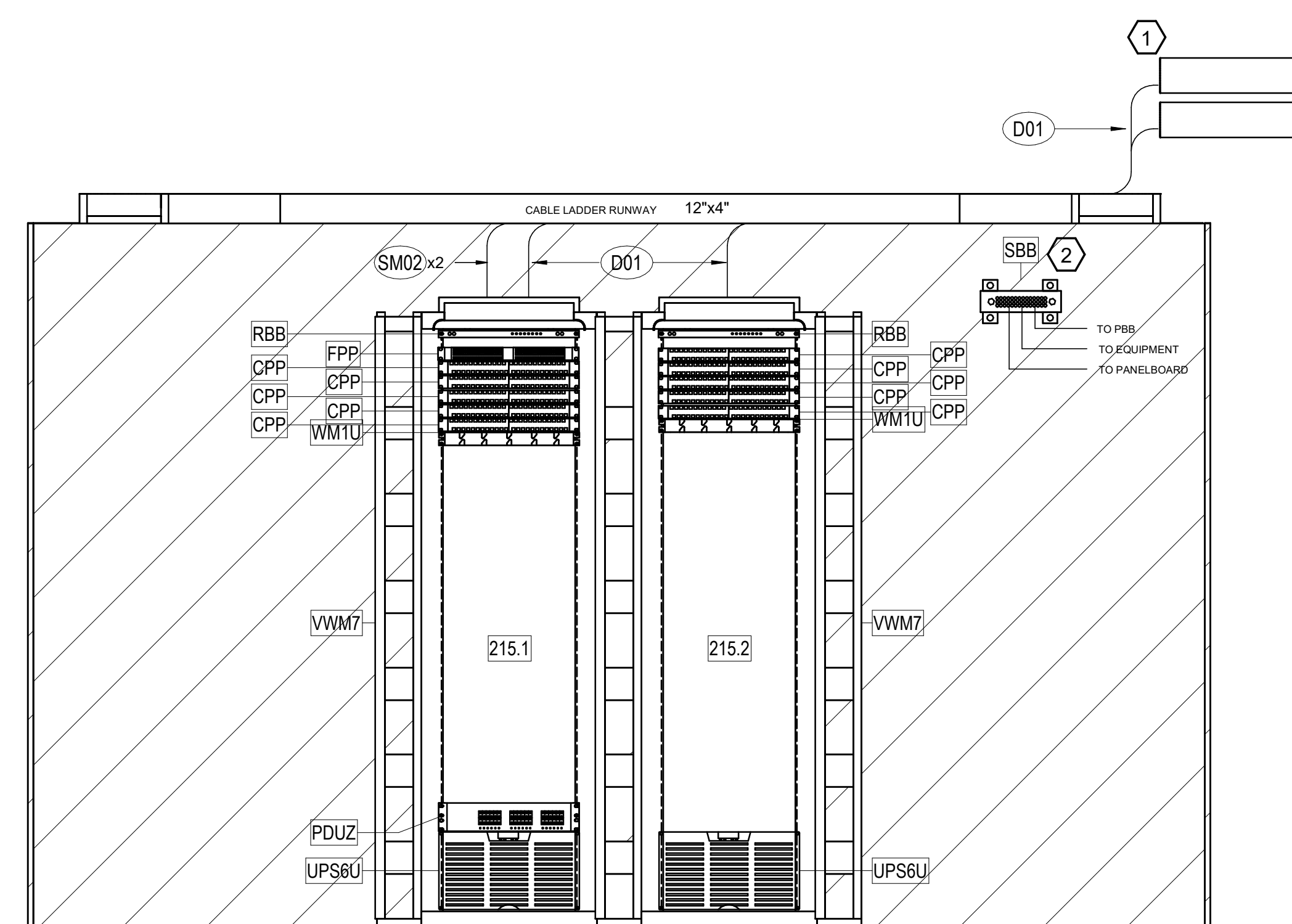
TR 215 EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
SBB	12"x4" CABLE LADDER RUNWAY ANSI/EIA/TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB).

TELECOM OUTLET SCHEDULE - LEVEL 02									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE U_1	CABLE U_2	CABLE C_1	CABLE C_2	CABLE COLOR
T2		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 215	2	0	0	0	
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 215	82	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 215	248	0	0	0	
T6		UNCLASSIFIED	(6) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 215	30	0	0	0	
OUTLET TOTAL: 109					362	0	0	0	
					362	0	0	0	

TR 215 EQUIPMENT RACK SCHEDULE						
RACK ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
215.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
215.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
215.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
215.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
215.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
215.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
215.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
215.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
215.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
215.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
215.1		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
215.1		PDUZ			208V, 30A 3-PHASE ZONE PDU BASE UNIT WITH (6) REAR L21-20R OUTPUT RECEPTACLES WITH 10 FOOT POWER CORDS TERMINATING IN HARDWIRE BOX	2
215.1		RBB			1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1
215.2		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
215.2		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
215.2		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
215.2		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
215.2		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
215.2		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
215.2		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
215.2		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
215.2		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
215.2		RBB			1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR 215
SCALE: 1/2" = 1'-0"



F4 TR 215 RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>CONSULTANT</p> <p>Wiley Wilson</p> <p>Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>SES</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p> <p>NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP</p> <p>Bicsi</p> <p>REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER</p> <p>03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>BLDG 040 - ENLARGED PLANS AND ELEV. - TR 215</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>
					<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Drawing Number</p> <p>TN428</p>
<p>Revisions:</p>	<p>Date:</p>	<p>Issue Date</p> <p>03/08/2024</p>	<p>Checked</p> <p>JMM</p>	<p>Drawn</p> <p>JEH</p>				

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 300 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

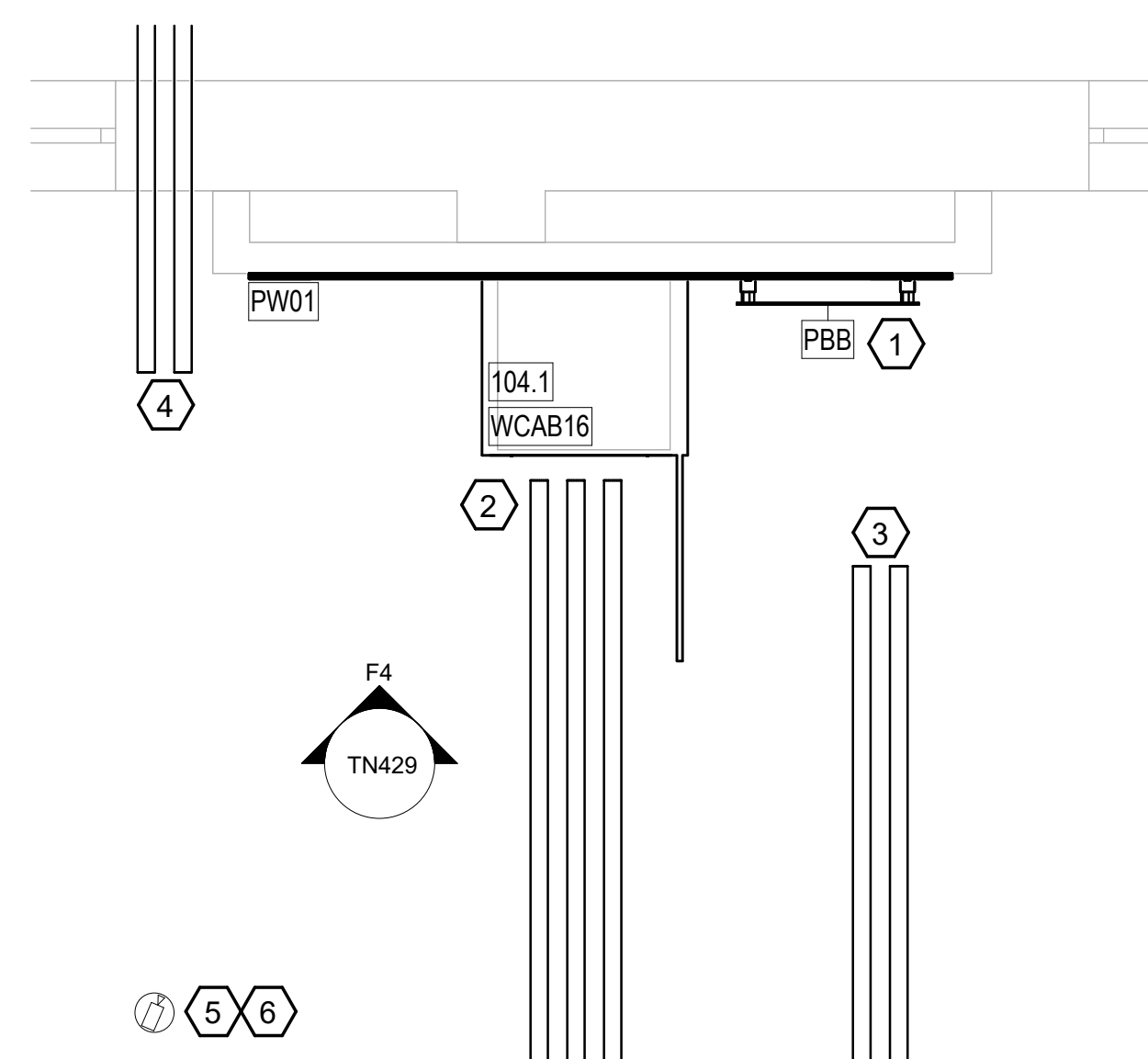
KEYNOTES:

- 1. PRIMARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 2. TERMINATE (3) 4" CONDUITS AT WALL MOUNTED TELECOM RACK. EXTEND TO CABLE TRAY AS SHOWN.
- 3. EXTEND (2) 4" CONDUITS TO TMH15 FOR BACKBONE FIBER PATHWAYS. SEE SHEET TN041.1 FOR CONDUIT CONTINUATION TO EXTERIOR OF BUILDING.
- 4. EXTEND (2) 4" CONDUITS TO THH17 FOR BACKBONE FIBER PATHWAYS. SEE SHEET TN041.1 FOR CONDUIT CONTINUATION TO EXTERIOR OF BUILDING.
- 5. PROVIDE MIN. 1" CONDUIT FROM ALL SECURITY DEVICES (CRKP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 6. ROUTE CONDUIT AND CABLE FOR CAMERA TO NEW CCTV EQUIPMENT LOCATION IN FOR TERMINATION.

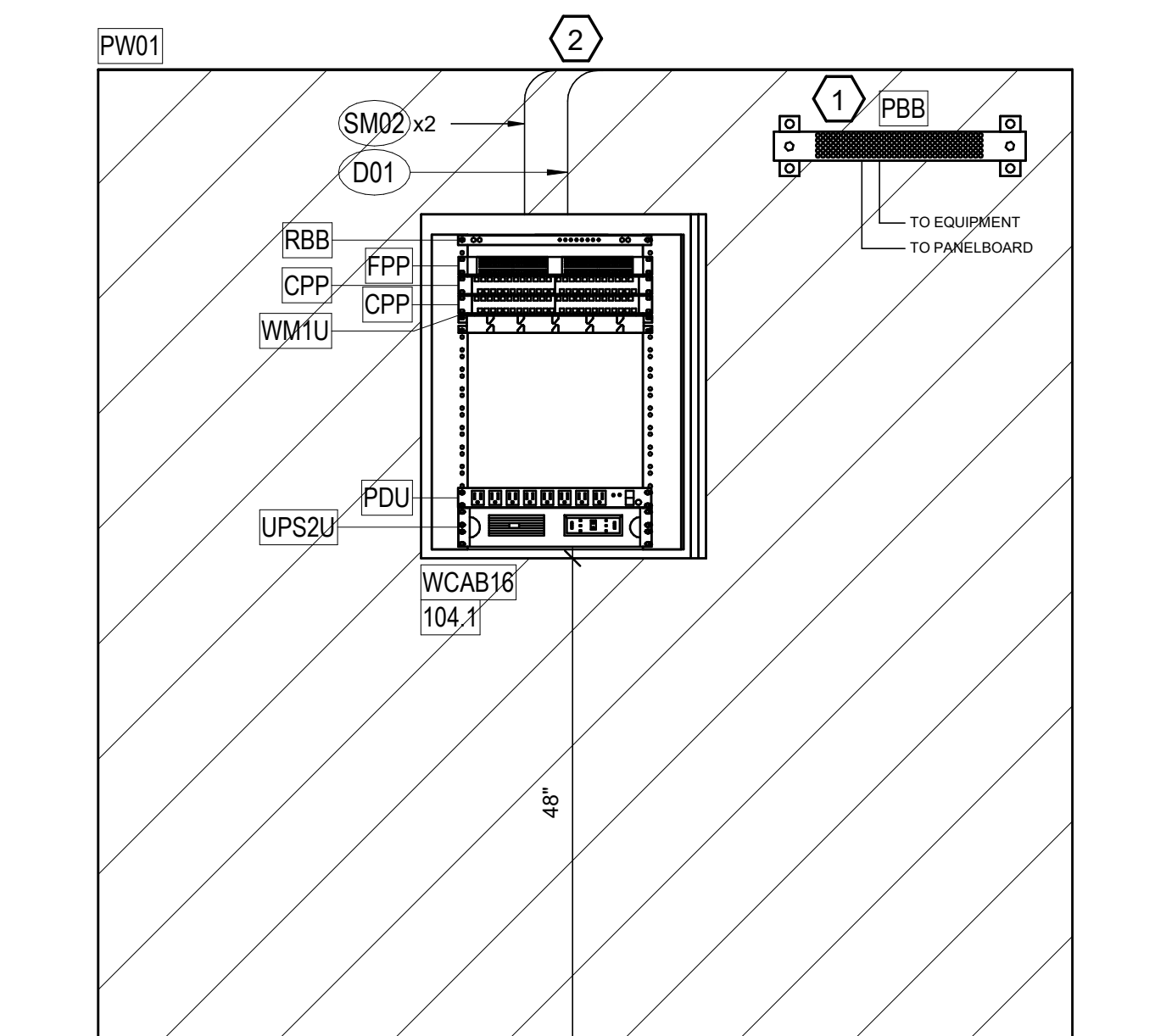
TELECOM ROOM EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
WCAB16	WALL MOUNT CABINET - 16 RU SWING-OUT, W/ FANS, INTERNAL GROUND BUSBAR, HINGED AND LOCKABLE TRANSPARENT FRONT DOOR, SWING-OUT FRONT SECTION WITH VENTED REAR SECTION FIXED TO THE WALL, FULL HT FRONT AND REAR VERT. WIRE MGMT BOTH SIDES, SURGE PROTECTED 6 OUTLET (MIN.) HORIZONTAL POWER STRIP. CABINET MUST ADHERE TO SEISMIC REQUIREMENTS IN ACCORDANCE WITH ASCE 7-05 CHAPTER 13.
PBB	TELECOM PRIMARY BONDING BUSBAR.

TELECOM OUTLET SCHEDULE									
OUTLET TYPE	LOCATION	NETWORK_ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE_U_1	CABLE_U_2	CABLE_C_1	CABLE_C_2	CABLE COLOR
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	<varies>	44	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	<varies>	56	0	0	0	
:36					100	0	0	0	
OUTLET TOTAL: 36					100	0	0	0	

TELECOM ROOM EQUIPMENT RACK SCHEDULE						
RACK_ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
104.1		WCAB16			WALL MOUNT CABINET - 16 RU SWING-OUT, W/ FANS, INTERNAL GROUND BUSBAR, HINGED AND LOCKABLE TRANSPARENT FRONT DOOR, SWING-OUT FRONT SECTION WITH VENTED REAR SECTION FIXED TO THE WALL, FULL HT FRONT AND REAR VERT. WIRE MGMT BOTH SIDES, SURGE PROTECTED 6 OUTLET (MIN.) HORIZONTAL POWER STRIP. CABINET MUST ADHERE TO SEISMIC REQUIREMENTS IN ACCORDANCE WITH ASCE 7-05 CHAPTER 13.	16
104.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
104.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U. ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
104.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U. ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
104.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
104.1		UPS2U			UNINTERRUPTED POWER SUPPLY - 2U RACK MOUNTED	2
104.1		RBB			1U RACK BONDING BUSBAR.	1
104.1		PDU			RACK MOUNT PDU. L5-20 INPUT. NEMA 5-15 OUTPUT. 1 RU	1



F1 ENLARGED PLAN - TR 104
SCALE: 1/2" = 1'-0"



F4 TR 104 RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>CONSULTANT</p> <p>Wiley Wilson</p> <p>Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>SES</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 16229, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964</p> <p>www.atriaxgroup.com</p> <p>NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP</p> <p>Bicsi</p> <p>REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER</p> <p>03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>BLDG 041 - ENLARGED PLANS AND ELEV. - TR 104</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>
					<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Drawing Number</p> <p>TN429</p>
<p>Revisions:</p>	<p>Date:</p>	<p>Issue Date</p> <p>03/08/2024</p>	<p>Checked</p> <p>JMM</p>	<p>Drawn</p> <p>JEH</p>				

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR's SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

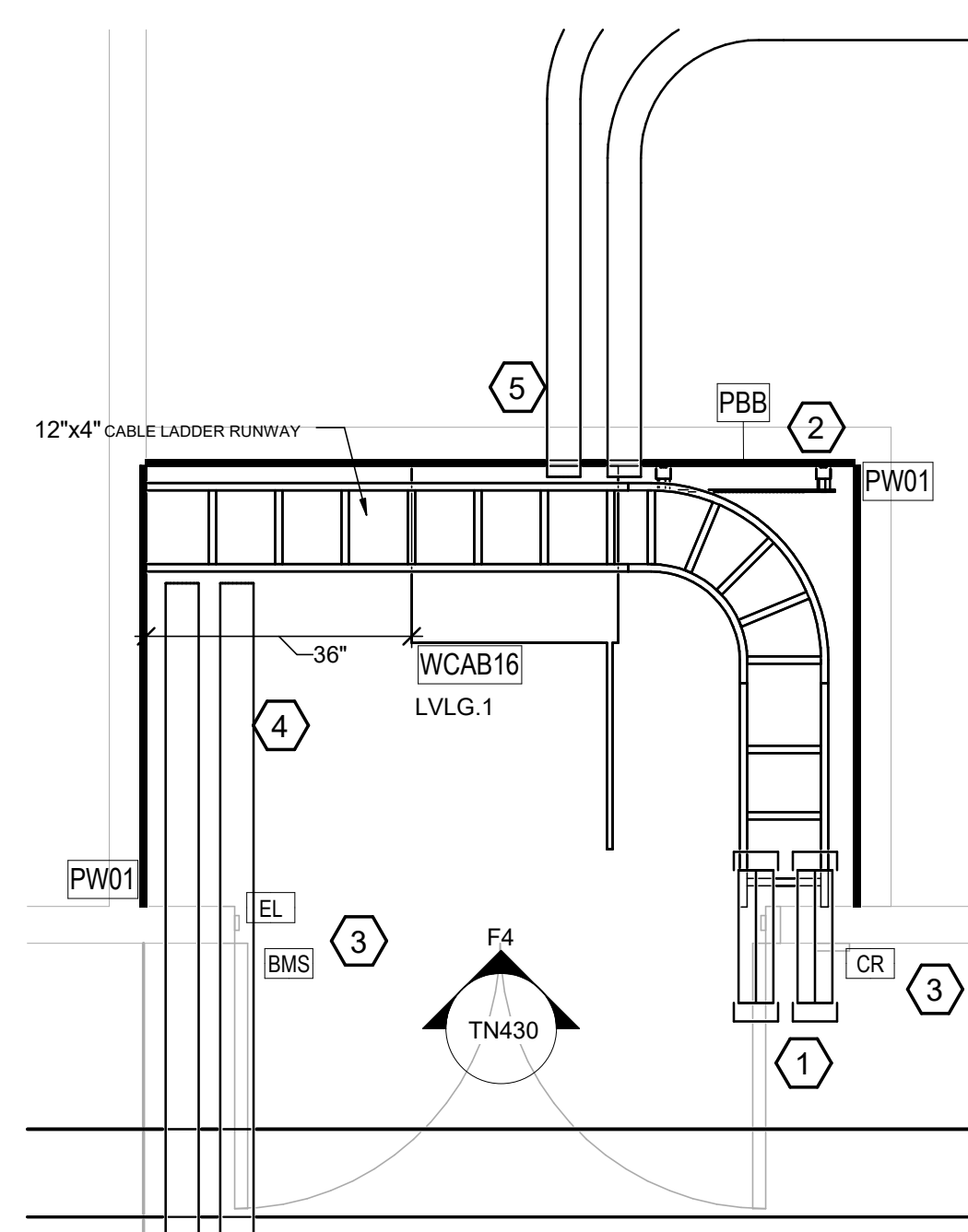
KEYNOTES:

- 1. PROVIDE (2) 4" EMT CONDUIT SLEEVES FROM TR LVLS TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. PRIMARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. PROVIDE (2) 4" CONDUITS FROM MANHOLE TMH29 TO TC6A FOR BACKBONE FIBER PATHWAY.
- 5. PROVIDE (2) 4" CONDUITS FROM TC6A THROUGH CONNECTING CORRIDOR AND OUT TO MANHOLE TMH31 FOR FIBER BACKBONE PATHWAY.

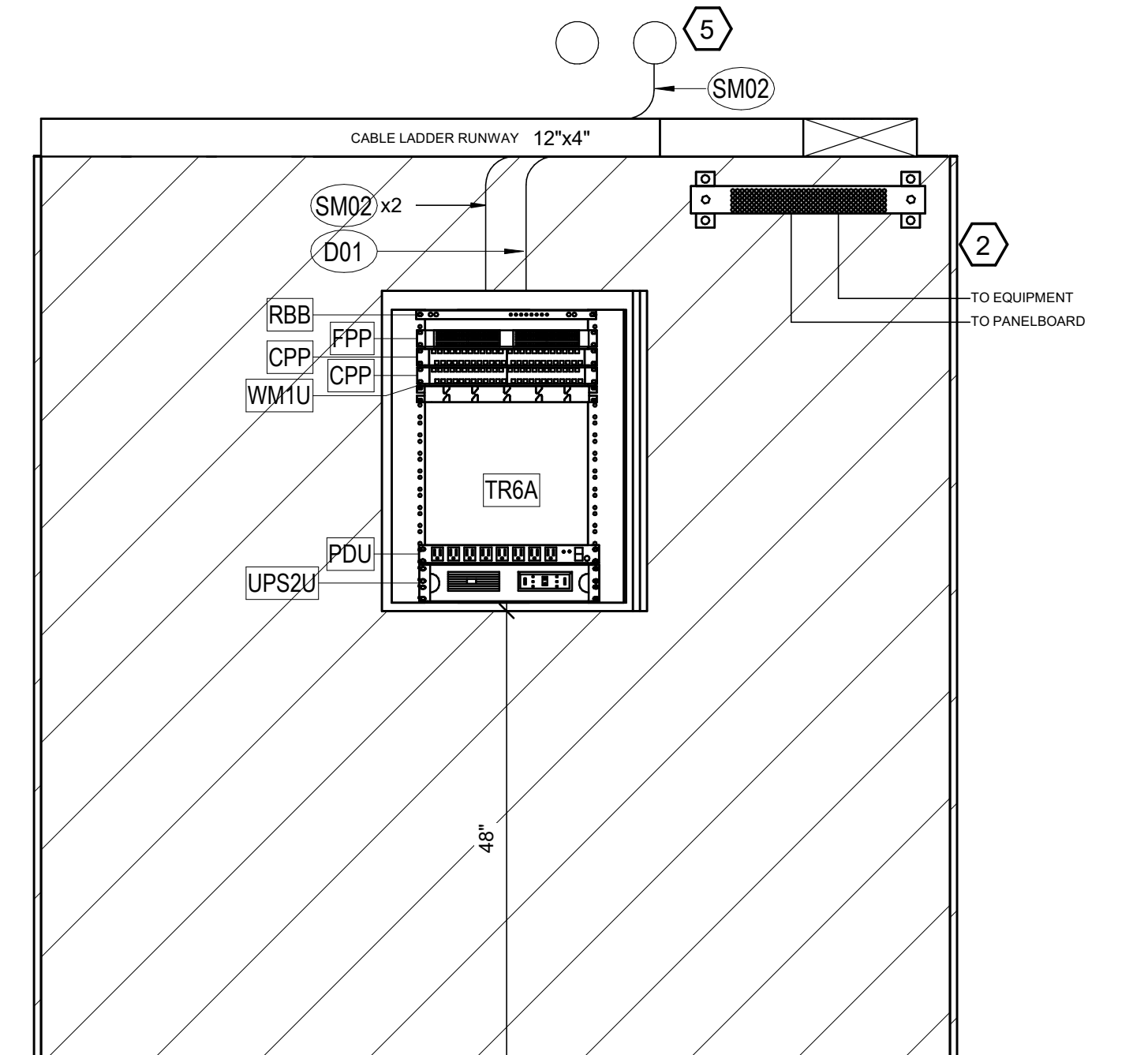
TR 6A EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
WCAB16	WALL MOUNT CABINET - 16 RU SWING-OUT, W/ FANS, INTERNAL GROUND BUSBAR, HINGED AND LOCKABLE TRANSPARENT FRONT DOOR, SWING-OUT FRONT SECTION WITH VENTED REAR SECTION FIXED TO THE WALL, FULL HT FRONT AND REAR VERT. WIRE MGMT BOTH SIDES, SURGE PROTECTED 6 OUTLET (MIN.) HORIZONTAL POWER STRIP. CABINET MUST ADHERE TO SEISMIC REQUIREMENTS IN ACCORDANCE WITH ASCE 7-05 CHAPTER 13.
	12"x4" CABLE LADDER RUNWAY
PBB	TELECOM PRIMARY BONDING BUSBAR.

TELECOM OUTLET SCHEDULE									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE_U_1	CABLE_U_2	CABLE_C_1	CABLE_C_2	CABLE COLOR
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR TBD	8	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR TBD	48	0	0	0	
16					56	0	0	0	
OUTLET TOTAL: 16					56	0	0	0	

TR 6A RACK SCHEDULE						
RACK ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
TR6A		WCAB16			WALL MOUNT CABINET - 16 RU SWING-OUT, W/ FANS, INTERNAL GROUND BUSBAR, HINGED AND LOCKABLE TRANSPARENT FRONT DOOR, SWING-OUT FRONT SECTION WITH VENTED REAR SECTION FIXED TO THE WALL, FULL HT FRONT AND REAR VERT. WIRE MGMT BOTH SIDES, SURGE PROTECTED 6 OUTLET (MIN.) HORIZONTAL POWER STRIP. CABINET MUST ADHERE TO SEISMIC REQUIREMENTS IN ACCORDANCE WITH ASCE 7-05 CHAPTER 13.	16
TR6A		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
TR6A		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
TR6A		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
TR6A		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
TR6A		UPS2U			UNINTERRUPTED POWER SUPPLY - 2U RACK MOUNTED	2
TR6A		RBB			1U RACK BONDING BUSBAR.	1
TR6A		PDU			RACK MOUNT PDU. L5-20 INPUT. NEMA 5-15 OUTPUT. 1 RU	1



F1 ENLARGED PLAN - TR 6A
SCALE: 1/2" = 1'-0"



F4 TR 6A RACK ELEVATION
SCALE: 3/4" = 1'-0"

Revisions:	Date:

CONSULTANT

WileyWilson
127 Nationwide Drive
Lynchburg, VA 24502
Phone: 434.947.1901
www.wileywilson.com

SPECIALIZED ENGINEERING SOLUTIONS
Specialized Engineering Solutions
1300 Baxter Street, Suite 355
Charlotte, NC 28204

ARCHITECT/ENGINEER OF RECORD

Atriax GROUP
www.atriaxgroup.com

Atriax, pllc
703 Main Avenue SW
PO Box 1629, Hickory, NC 28603
Phone: 828.315.9962
Fax: 828.315.9964

NC Engineering License No.: P-0214
NC Architectural License No.: 51254

STAMP

Bicsi
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
03/08/24

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
BLDG 046 - ENLARGED PLANS AND ELEV. - TR 6A

Approved: Chief Engineer

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE UPGRADES

Location
TUSCALOOSA VAMC, TUSCALOOSA, AL.

Issue Date
03/08/2024

Checked
JMM

Drawn
JEH

Project Number
679-20-104

Building Number
046

Drawing Number
TN430

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN601 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 900.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

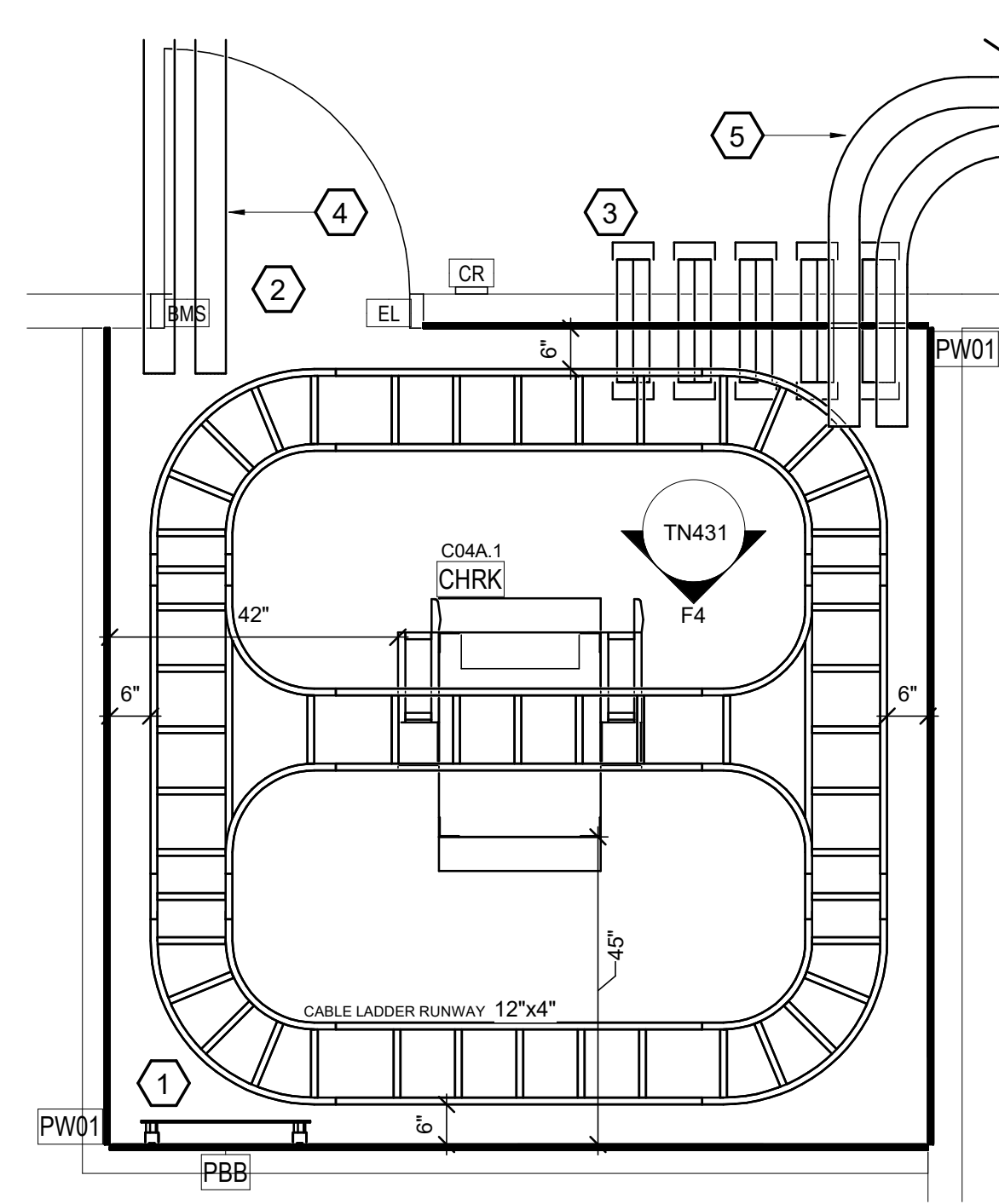
KEYNOTES:

- 1. PRIMARY BONDING BUSBAR, SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 2. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACSIDS PCU LOCATION.
- 3. PROVIDE (5) EMT CONDUIT SLEEVES FROM TR C04A TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 4. (2) 4" CONDUITS FROM MANHOLE TMH32 TO BUILDING 61 TELECOM ROOMS FOR BACKBONE FIBER PATHWAY. SEE SITE PLANS FOR CONDUIT ROUTE CONTINUATION.
- 5. (2) 4" CONDUITS THROUGH CONNECTING CORRIDOR FROM MANHOLE TMH31 TO BUILDING 61 TELECOM ROOMS FOR BACKBONE FIBER PATHWAY. SEE SITE PLANS FOR CONDUIT ROUTE CONTINUATION.

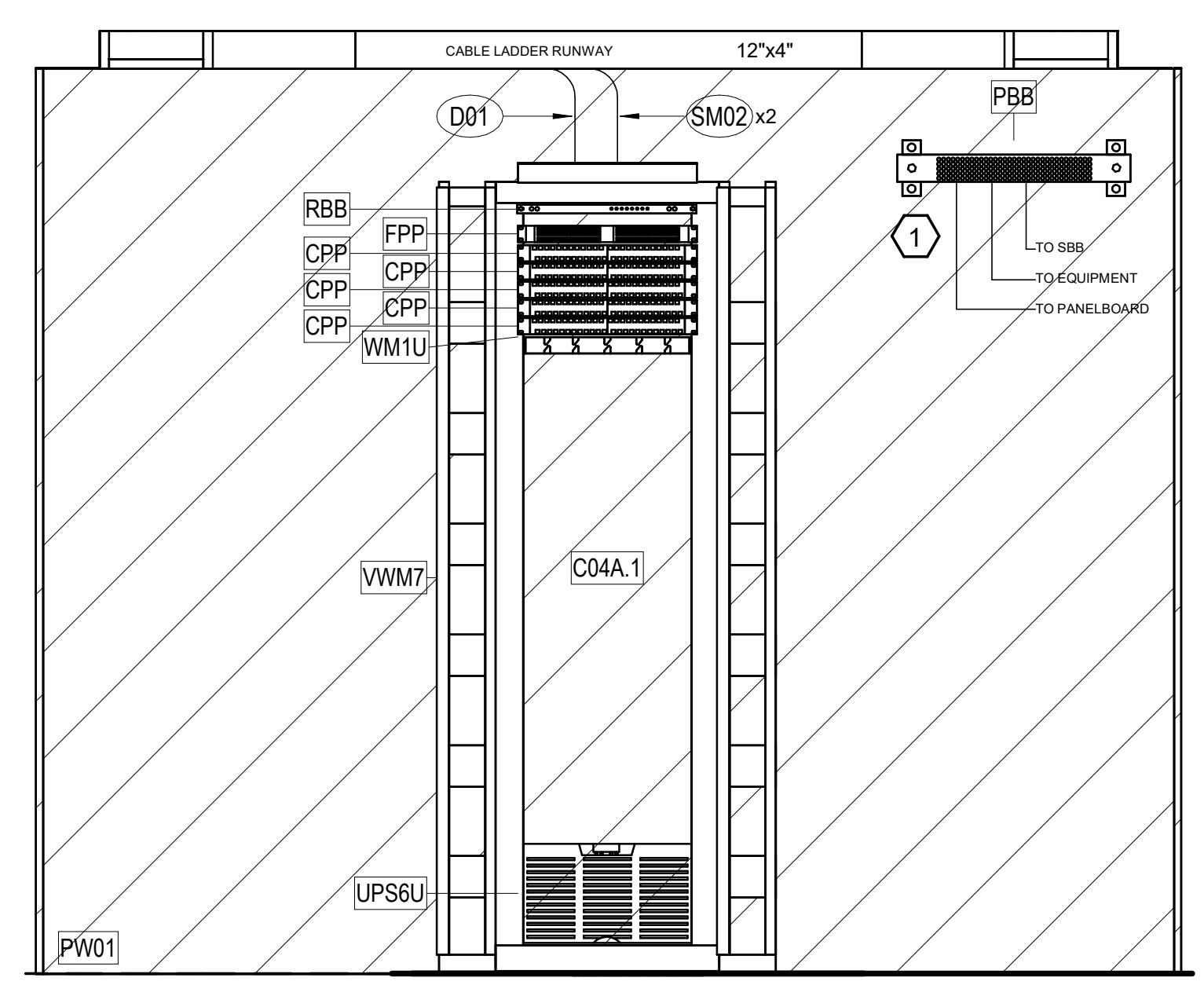
TR C04A EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	12"x4" CABLE LADDER RUNWAY 3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
PBB	TELECOM PRIMARY BONDING BUSBAR.

TELECOM OUTLET SCHEDULE - TR C04A									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE U. 1	CABLE U. 2	CABLE C. 1	CABLE C. 2	CABLE COLOR
T2		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR A1	98	0	0	0	
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR A1	25	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR A1	68	0	0	0	
T9					192	0	0	0	
OUTLET TOTAL: T9					192	0	0	0	

TR C04A EQUIPMENT RACK SCHEDULE						
RACK ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
C04A.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
C04A.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
C04A.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
C04A.1		RBB			1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1
C04A.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
C04A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
C04A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
C04A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
C04A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
C04A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
C04A.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
C04A.1		UPS6U			5 KW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
C04A.1		PDU			RACK MOUNT PDU. L5-20 INPUT. NEMA 5-15 OUTPUT. 1 RU	1



F1 ENLARGED PLAN - TR C04A
SCALE: 1/2" = 1'-0"



F4 TR C04A RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>CONSULTANT Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD Atriax, plc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION TECHNOLOGIST BICS11076239954 Expires 03/31/25 RCD 03/08/24</p>	<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title BLDG 061 - ENLARGED PLANS AND ELEV. - TR C04A</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>		
						<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number 061</p>		
								<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>	<p>Drawing Number TN431</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

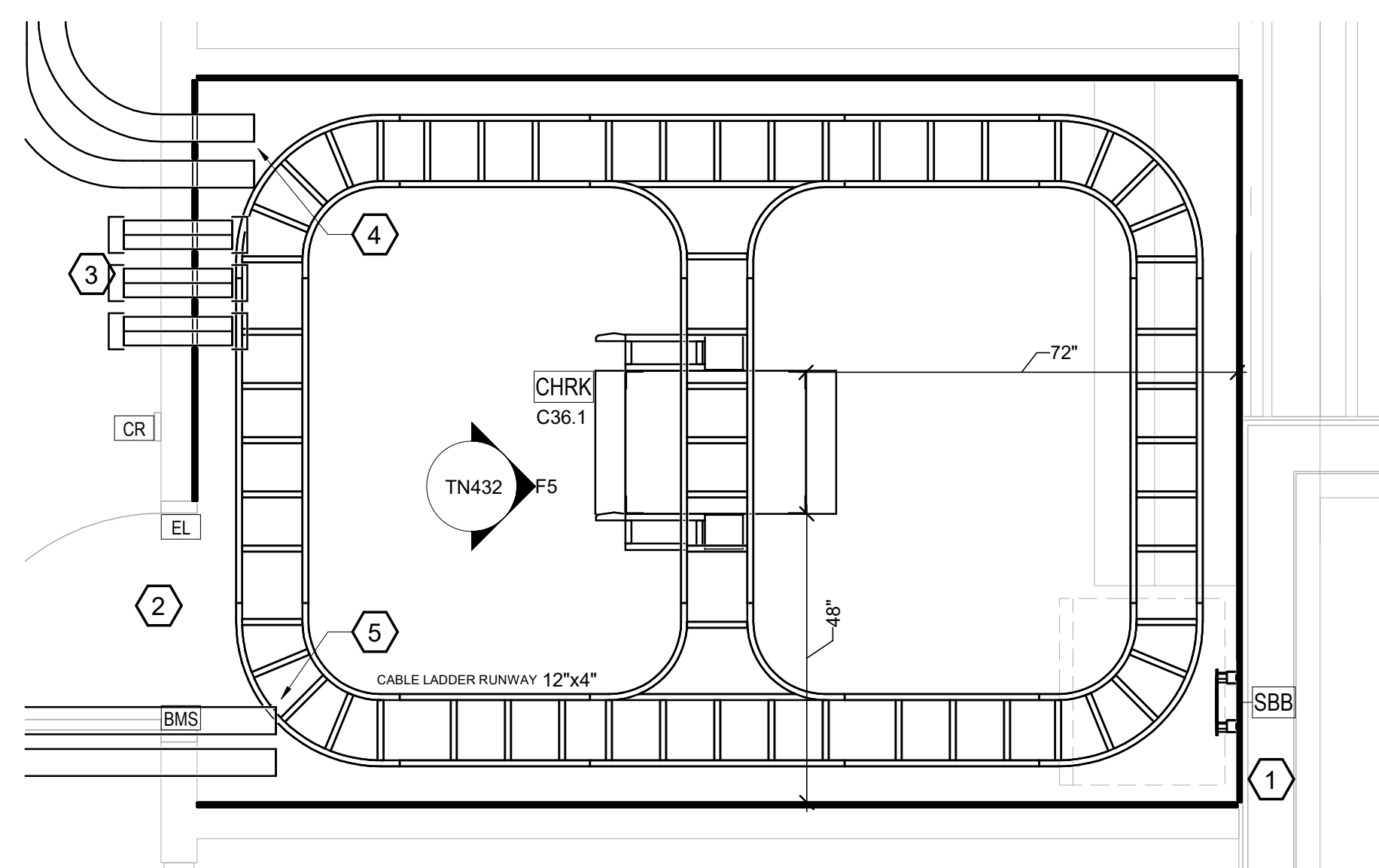
KEYNOTES:

- 1. SECONDARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 2. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 3. PROVIDE (6) EMT CONDUIT SLEEVES FROM TR C36 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 4. (2) 4" CONDUITS FROM MANHOLE TMH32 TO BUILDING 61 TELECOM ROOMS FOR BACKBONE FIBER PATHWAY. SEE SITE PLANS FOR CONDUIT ROUTE CONTINUATION.
- 5. (2) 4" CONDUITS THROUGH CONNECTING CORRIDOR FROM MANHOLE TMH31 TO BUILDING 61 TELECOM ROOMS FOR BACKBONE FIBER PATHWAY. SEE SITE PLANS FOR CONDUIT ROUTE CONTINUATION.

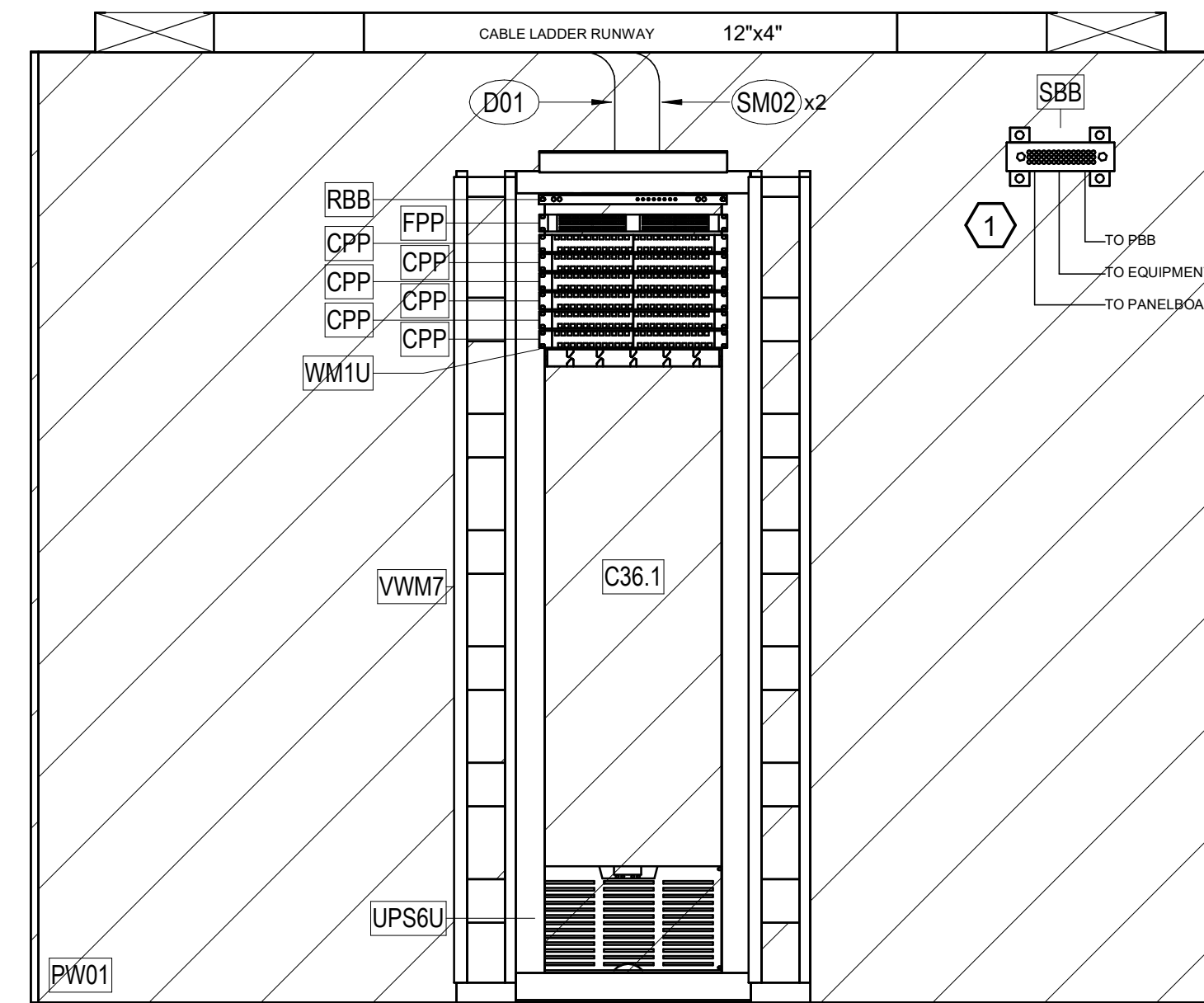
TR C36 EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	12"x4" CABLE LADDER RUNWAY 3/4" THICK, FIRE RATED, 3/4" X 4" X 8' AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE.
SBB	ANSI/EIA/TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB).

TELECOM OUTLET SCHEDULE - TR A2									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE_U_1	CABLE_U_2	CABLE_C_1	CABLE_C_2	CABLE COLOR
T1		UNCLASSIFIED	(1) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR A2	1	0	0	0	
T2		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR A2	60	0	0	0	
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR A2	24	0	0	0	
T3		UNCLASSIFIED	(3) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR A2	9	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR A2	120	0	0	0	
W		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR A2	16	0	0	0	
80					230	0	0	0	
OUTLET TOTAL: 80					230	0	0	0	

TR C36 EQUIPMENT RACK SCHEDULE						
RACK_ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
C36.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
C36.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE.	
C36.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE.	
C36.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
C36.1		RBB			1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1
C36.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
C36.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
C36.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
C36.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
C36.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
C36.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
C36.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
C36.1		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6



F1 ENLARGED PLAN - TR C36
SCALE: 1/2" = 1'-0"



F5 TR C36 RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD Atriax, plc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION TECHNICIAN BICS1101823954 Expires 03/31/25 RCDD 03/08/24</p>	<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title BLDG 061 - ENLARGED PLANS AND ELEV. - TR C36</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>
					<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Drawing Number TN432</p>
					<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>	

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

KEYNOTES:

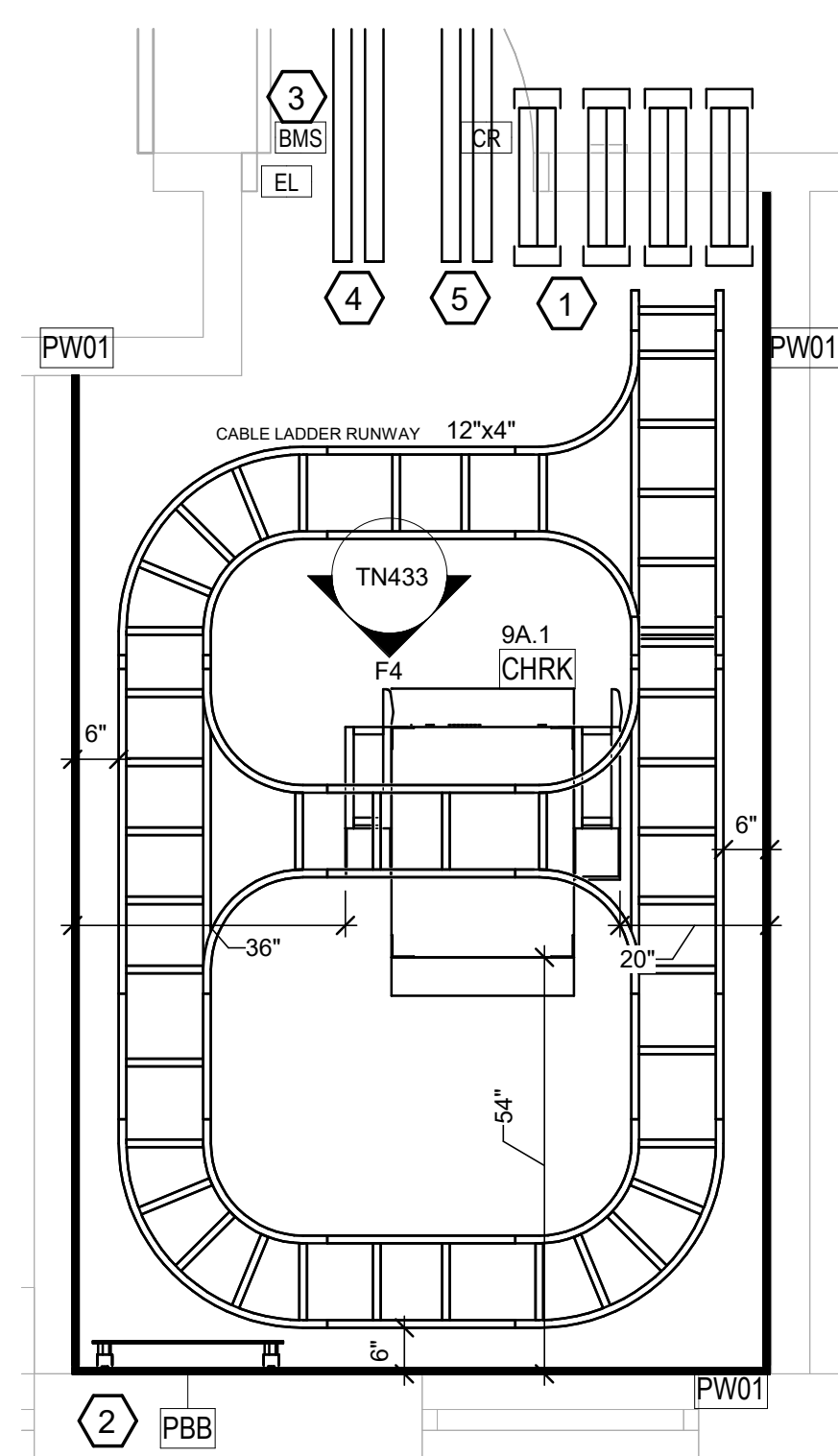
- 1. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR LV/LG TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. PRIMARY BONDING BUSBAR, SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. EXTEND (2) 4" CONDUITS TO BUILDING 1 FOR BACKBONE FIBER PATHWAYS. PROVIDE CONDUIT PATHWAY TO BUILDING 135 EXTENDED FROM CORRIDOR BETWEEN BUILDING 01 AND BUILDING 63.
- 5. EXTEND (2) 4" CONDUITS TO BUILDING 2 FOR BACKBONE FIBER PATHWAYS.

TR 9A EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
PBB	TELECOM PRIMARY BONDING BUSBAR.
	12"x4" CABLE LADDER RUNWAY

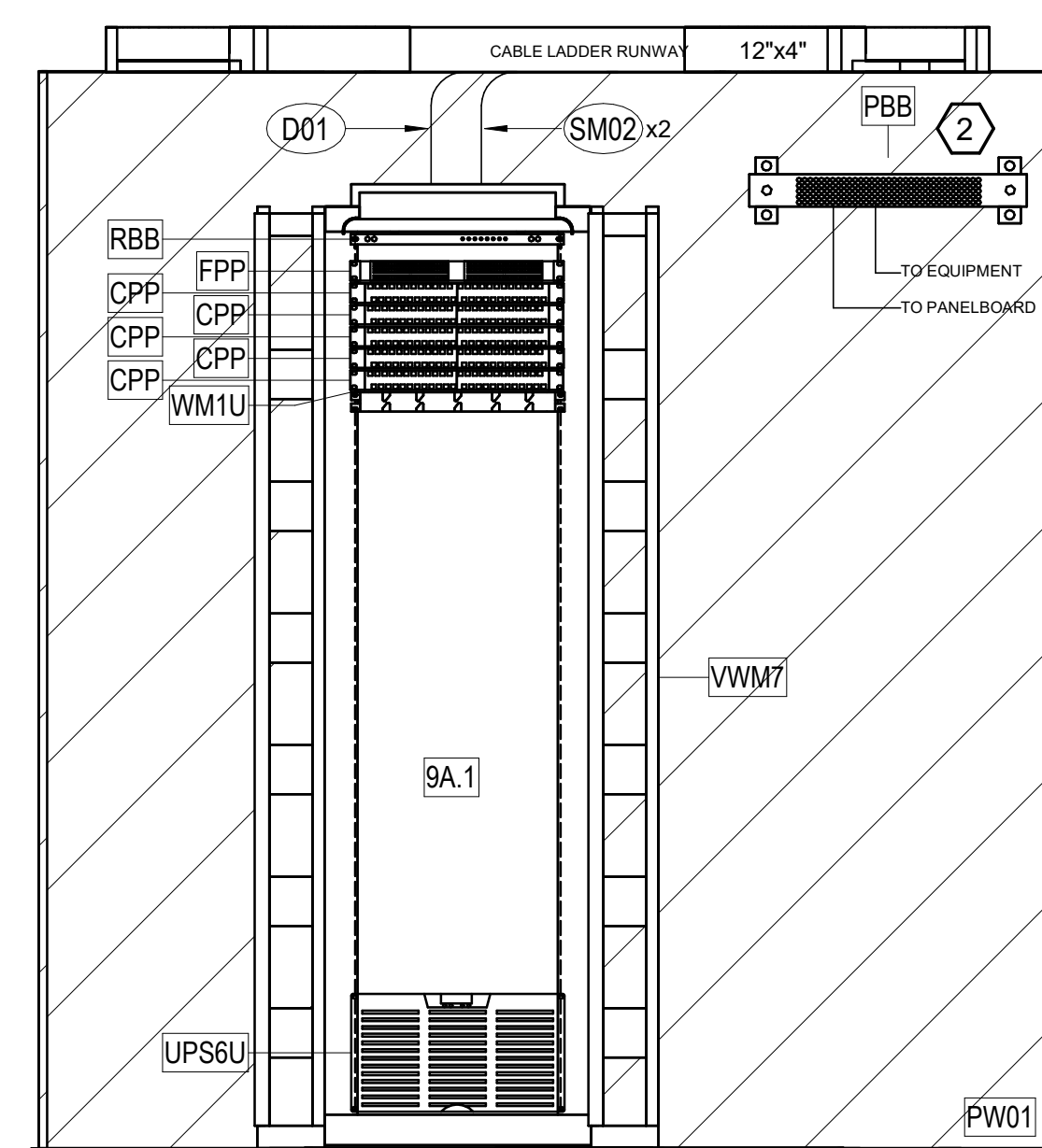
TELECOM OUTLET SCHEDULE - GROUND LEVEL										
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE_U_1	CABLE_U_2	CABLE_C_1	CABLE_C_2	CABLE COLOR	FLOOR NUMBER
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR TBD	22	0	0	0		GROUND
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR TBD	68	0	0	0		GROUND
OUTLET TOTAL: 28					90	0	0	0		

TELECOM OUTLET SCHEDULE - LEVEL 01										
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE_U_1	CABLE_U_2	CABLE_C_1	CABLE_C_2	CABLE COLOR	FLOOR NUMBER
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR TBD	10	0	0	0		1
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR TBD	72	0	0	0		1
OUTLET TOTAL: 23					82	0	0	0		

TR 9A EQUIPMENT RACK SCHEDULE						
RACK_ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
9A.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
9A.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
9A.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
9A.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
9A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
9A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
9A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
9A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
9A.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
9A.1		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
9A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
9A.1		RBB			1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR 9A
SCALE: 1/2" = 1'-0"



F4 TR 9A RACK ELEVATION - TELECOM
SCALE: 3/4" = 1'-0"

<p>CONSULTANT</p> <p>WileyWilson</p> <p>127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax</p> <p>www.atriaxgroup.com</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964</p> <p>NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>Office of Construction and Facilities Management</p> <p>U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>BLDG 063 - ENLARGED PLANS AND ELEV. - TR 9A</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>
			<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number</p> <p>063</p>
<p>Revisions:</p>	<p>Date:</p>	<p>Issue Date</p> <p>03/08/2024</p>	<p>Checked</p> <p>JMM</p>	<p>Drawn</p> <p>JEH</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Project Number</p> <p>TN433</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING IS INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

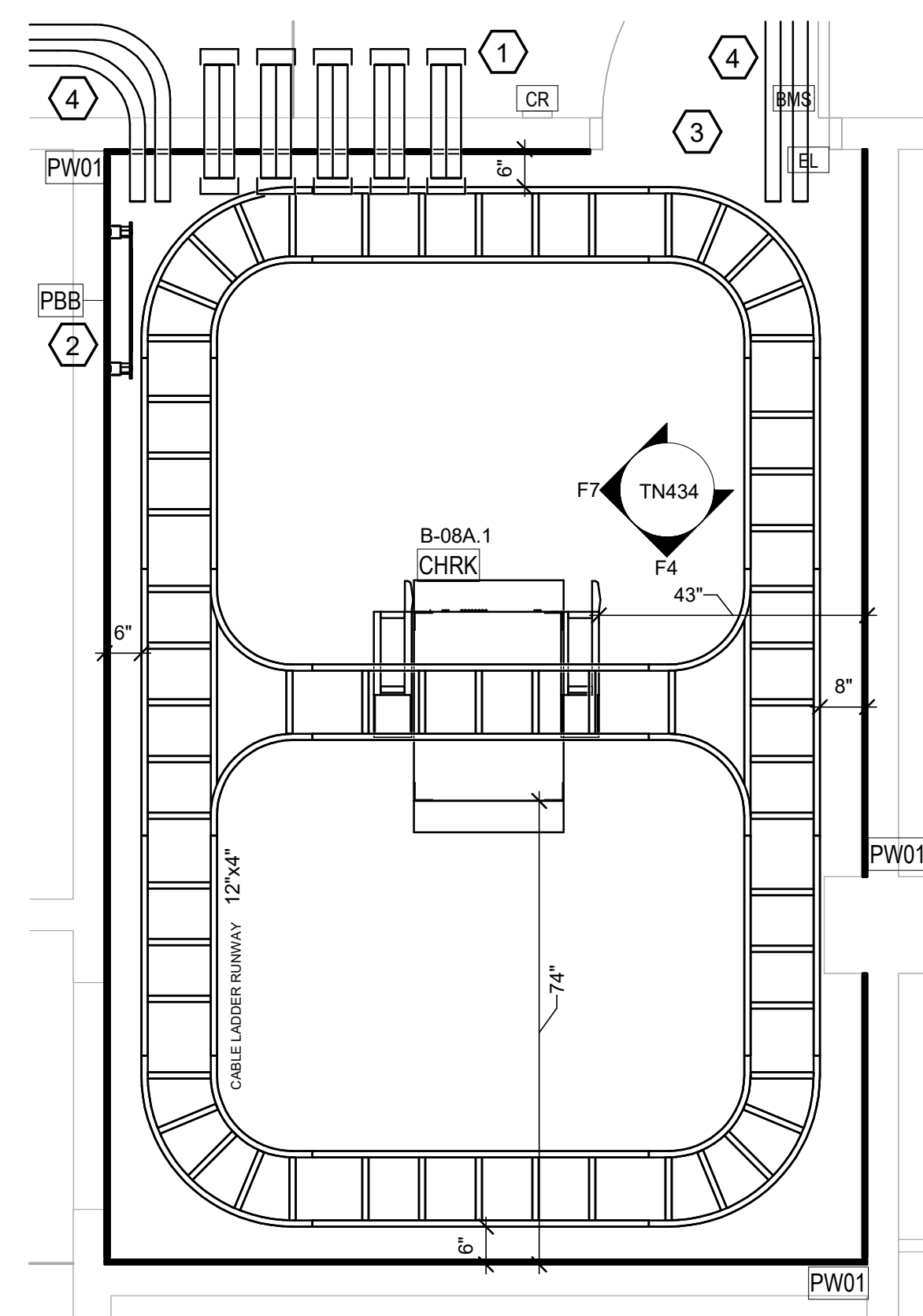
KEYNOTES:

- 1. PROVIDE (5) 4" EMT CONDUIT SLEEVES FROM TR B-08A TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. PRIMARY BONDING BUSBAR, SEE DETAIL F9 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACSIDS PCU LOCATION.
- 4. ROUTE (2) 4" CONDUITS TO ROOM B-03H AND THROUGH CEILING DECK FOR BACKBONE FIBER PATHWAY TO GROUND LEVEL TR G-66.

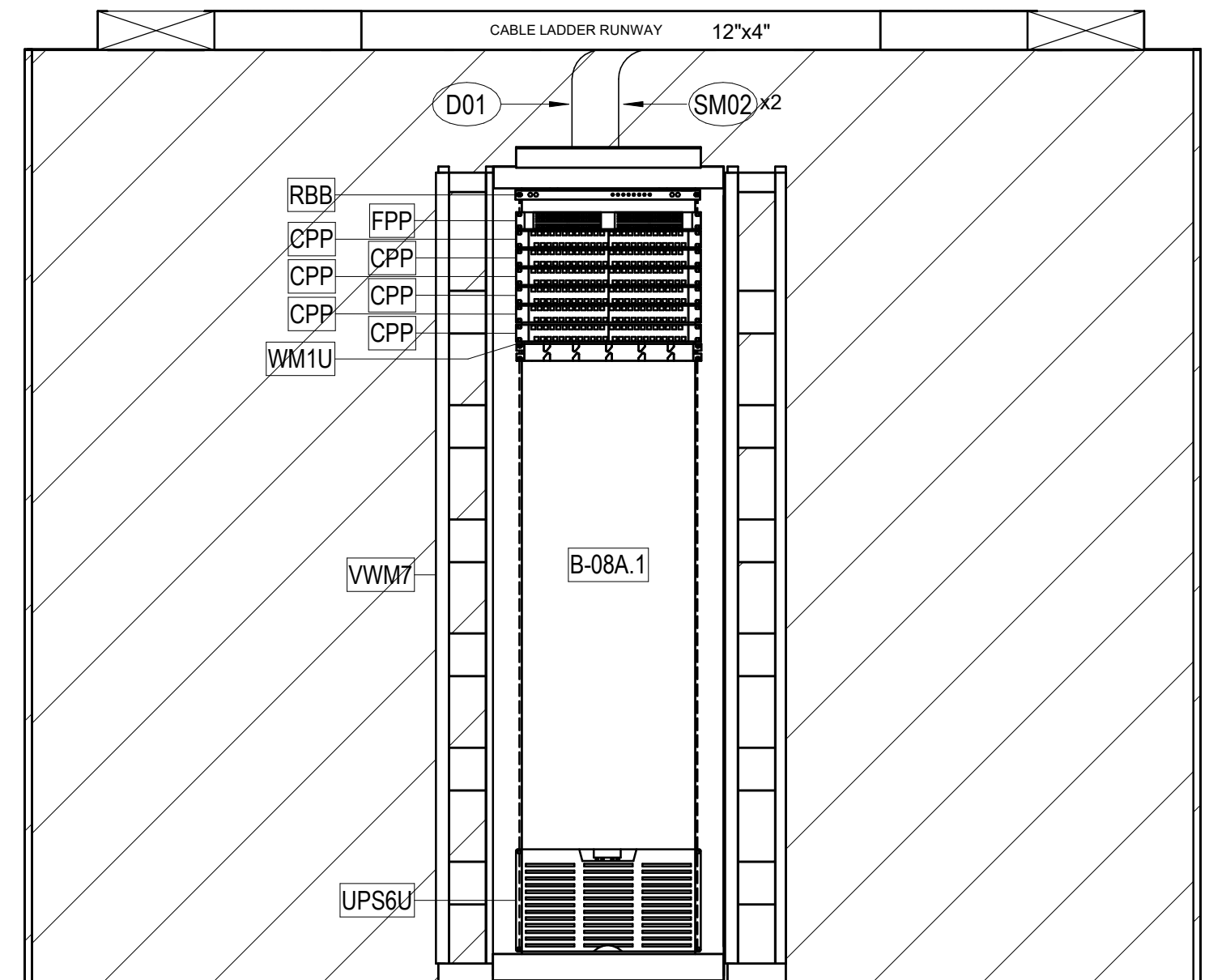
TR B-08A EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4" X 8' AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
PBB	TELECOM PRIMARY BONDING BUSBAR.
	12"x4" CABLE LADDER RUNWAY

TELECOM OUTLET SCHEDULE - BASEMENT LEVEL									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE U 1	CABLE U 2	CABLE C 1	CABLE C 2	CABLE COLOR
T1		UNCLASSIFIED	(1) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR B-08A	2	0	0	0	
T2		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR B-08A	10	0	0	0	
T2 WAP			(2) CAT 6 UTP CABLES FOR UNCLASSIFIED NETWORK	TR B-08A	16	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR B-08A	160	0	0	0	
W		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR B-08A	8	0	0	0	
OUTLET TOTAL: 57					196	0	0	0	

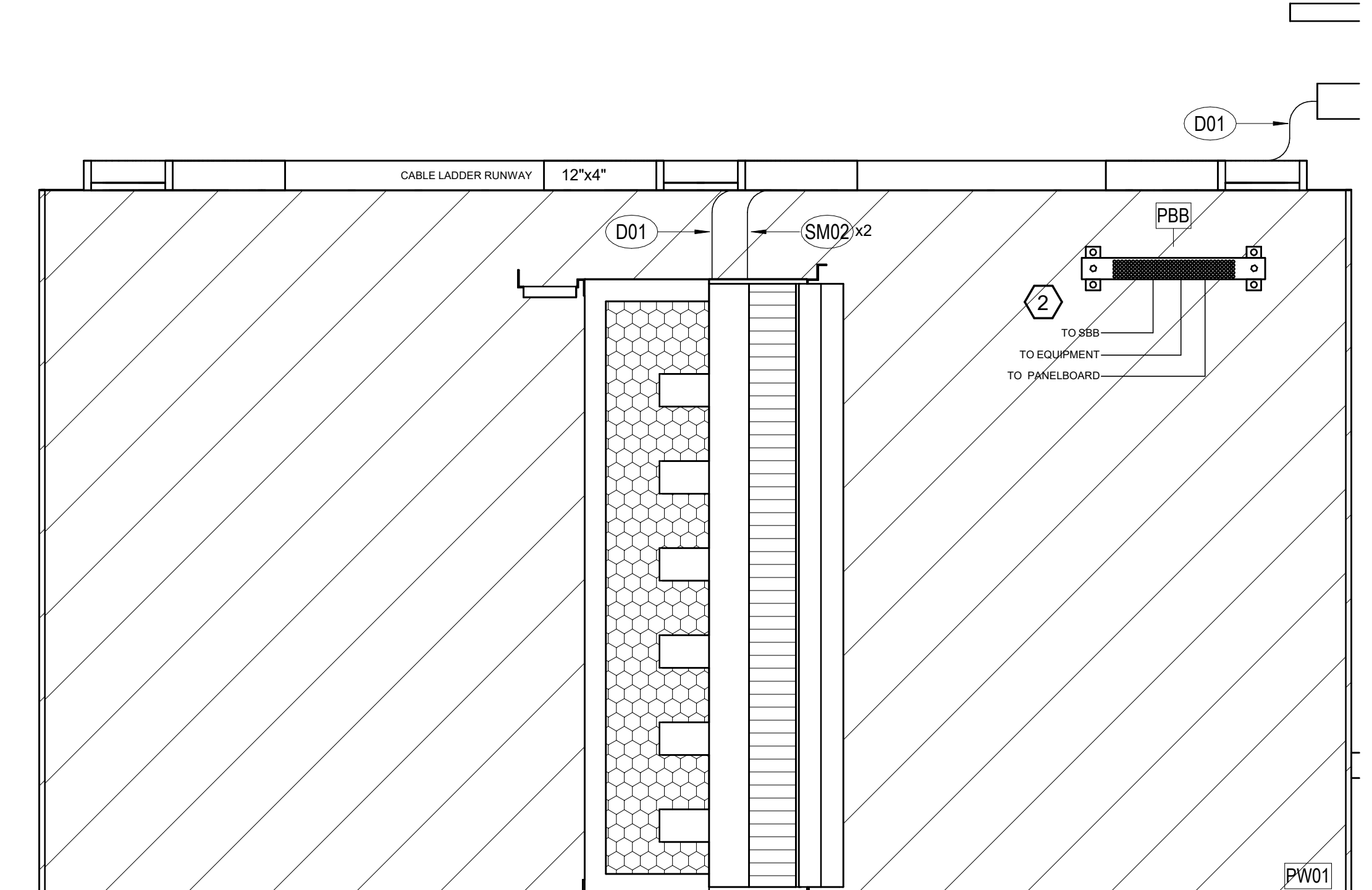
TR B-08A EQUIPMENT RACK SCHEDULE						
RACK ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
B-08A.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
B-08A.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
B-08A.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
B-08A.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
B-08A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
B-08A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
B-08A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
B-08A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
B-08A.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
B-08A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
B-08A.1		UPS6U			5 KW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
B-08A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
B-08A.1		RBB			1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR B-08A
SCALE: 1/2" = 1'-0"



F4 TR B-08A RACK ELEVATION
SCALE: 3/4" = 1'-0"



F7 TR B-08A WEST WALL ELEVATION
SCALE: 3/4" = 1'-0"

<p>CONSULTANT</p> <p>WileyWilson</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax GROUP</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 16229, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP</p> <p>Bicsi</p> <p>REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICS11018239554 Expires 03/31/25 RCD0 03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>BLDG 135 - ENLARGED PLANS AND ELEV. - TR B-08A</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>
					<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number</p> <p>135</p>
<p>Revisions:</p>	<p>Date:</p>	<p>Issue Date</p> <p>03/08/2024</p>	<p>Checked</p> <p>JMM</p>	<p>Drawn</p> <p>JEH</p>	<p>Drawing Number</p> <p>TN434</p>			

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN003 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

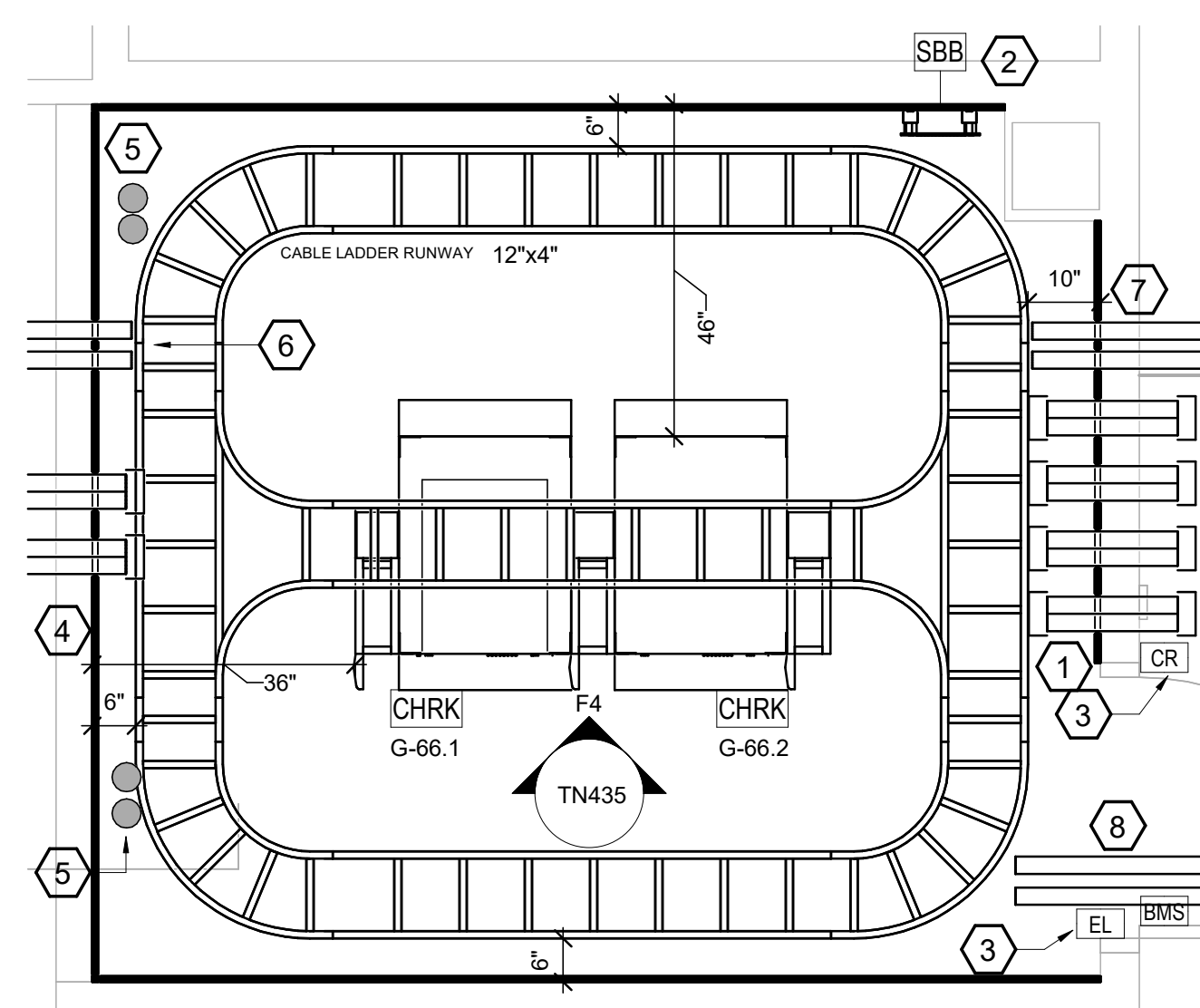
KEYNOTES:

- 1. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR G-66 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR. SEE DETAIL F4 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REA, SSTV) TO NEW ACCESS PCU LOCATION.
- 4. PROVIDE (2) 4" EMT CONDUIT SLEEVES FROM TR G-66 TO CABLE TRAY FOR STRUCTURED CABLING PATHWAY.
- 5. (2) 4" CONDUITS THROUGH FLOOR SLAB FOR BACKBONE FIBER PATHWAY TO BASEMENT LEVEL TR B-08A.
- 6. EXTEND (2) 4" CONDUITS TO BUILDING 01 FOR BACKBONE FIBER PATHWAYS.
- 7. ROUTE (2) 4" CONDUIT TO CORRIDOR AND THROUGH CEILING DECK FOR BACKBONE FIBER PATHWAY TO LEVEL 01 TR 120A.
- 8. EXTEND (2) 4" CONDUITS TO BUILDING 38 FOR BACKBONE FIBER PATHWAYS.

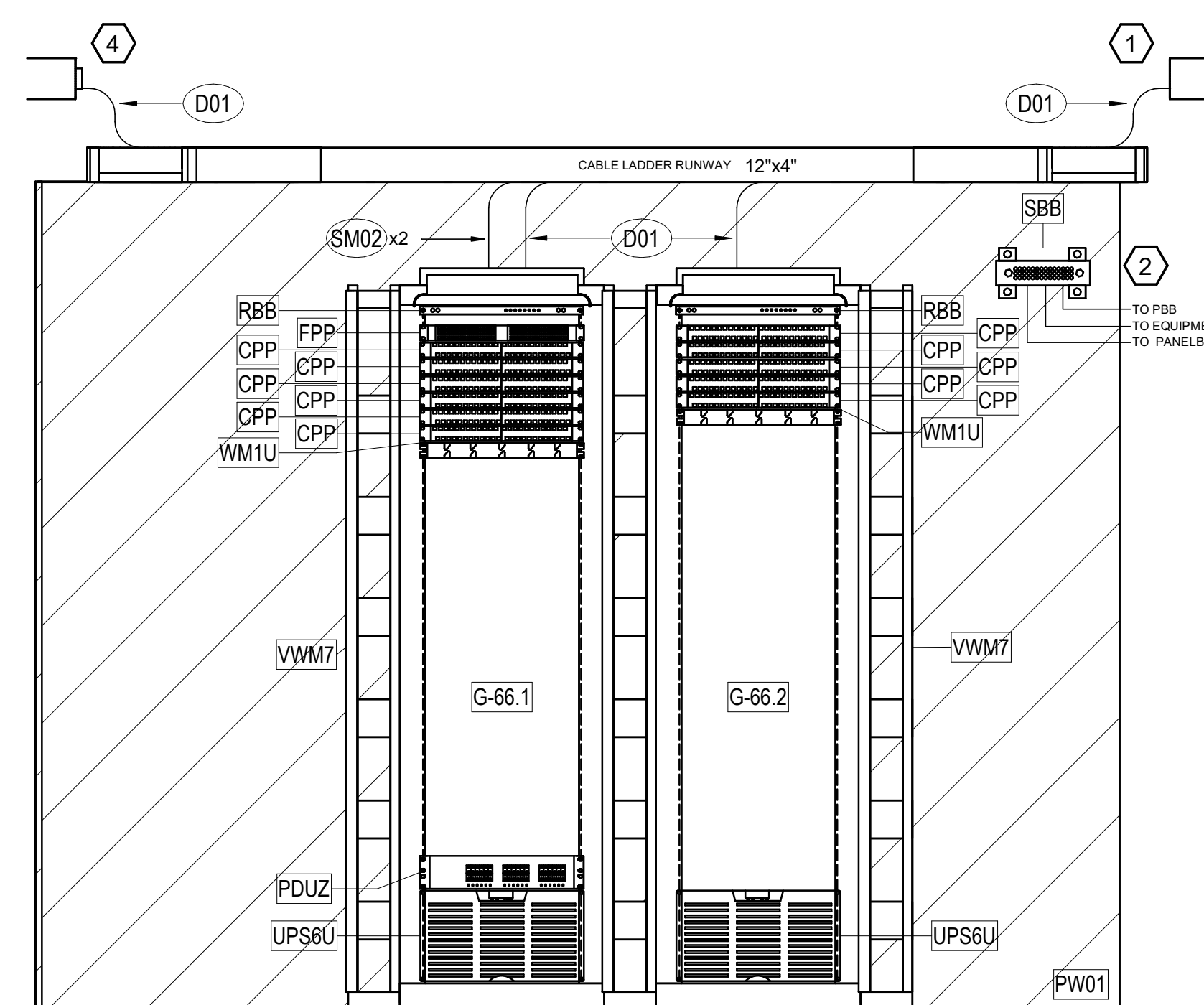
TR G-66 EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4" X 8" AC GRADE PLYWOOD.
VWM7	12"x4" CABLE LADDER RUNWAY OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
SBB	ANSI/ EIA/ TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB).
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1, WHITE FINISH OR EQUIVALENT.

TELECOM OUTLET SCHEDULE - GROUND LEVEL									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE U_1	CABLE U_2	CABLE C_1	CABLE C_2	CABLE COLOR
T1		UNCLASSIFIED	(1) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR G-66	8	0	0	0	
T2		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR G-66	4	0	0	0	
T2 WAP			(2) CAT 6 UTP CABLES FOR UNCLASSIFIED NETWORK	TR G-66	36	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR G-66	348	0	0	0	
W		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR G-66	8	0	0	0	
:117					404	0	0	0	
OUTLET TOTAL: 117					404	0	0	0	

TR G-66 EQUIPMENT RACK SCHEDULE						
RACK ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
G-66.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
G-66.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
G-66.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1, WHITE FINISH OR EQUIVALENT.	45
G-66.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
G-66.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
G-66.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
G-66.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
G-66.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
G-66.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
G-66.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
G-66.1		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
G-66.1		PDUZ			208V, 30A 3-PHASE ZONE PDU BASE UNIT WITH (6) REAR L21-20R OUTPUT RECEPTACLES WITH 10 FOOT POWER CORDS TERMINATING IN HARDWIRE BOX	2
G-66.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
G-66.1		RBB			1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1
G-66.2		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
G-66.2		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1, WHITE FINISH OR EQUIVALENT.	45
G-66.2		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
G-66.2		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
G-66.2		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
G-66.2		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
G-66.2		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
G-66.2		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
G-66.2		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
G-66.2		RBB			1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR G-66
SCALE: 1/2" = 1'-0"



F4 TR G-66 RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>CONSULTANT Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD Atriax, plc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>Office of Construction and Facilities Management U.S. Department of Veterans Affairs</p>	<p>Drawing Title BLDG 135 - ENLARGED PLANS AND ELEV. - TR G-66</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>		
				<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number 135</p>		
						<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>	<p>Drawing Number TN435</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

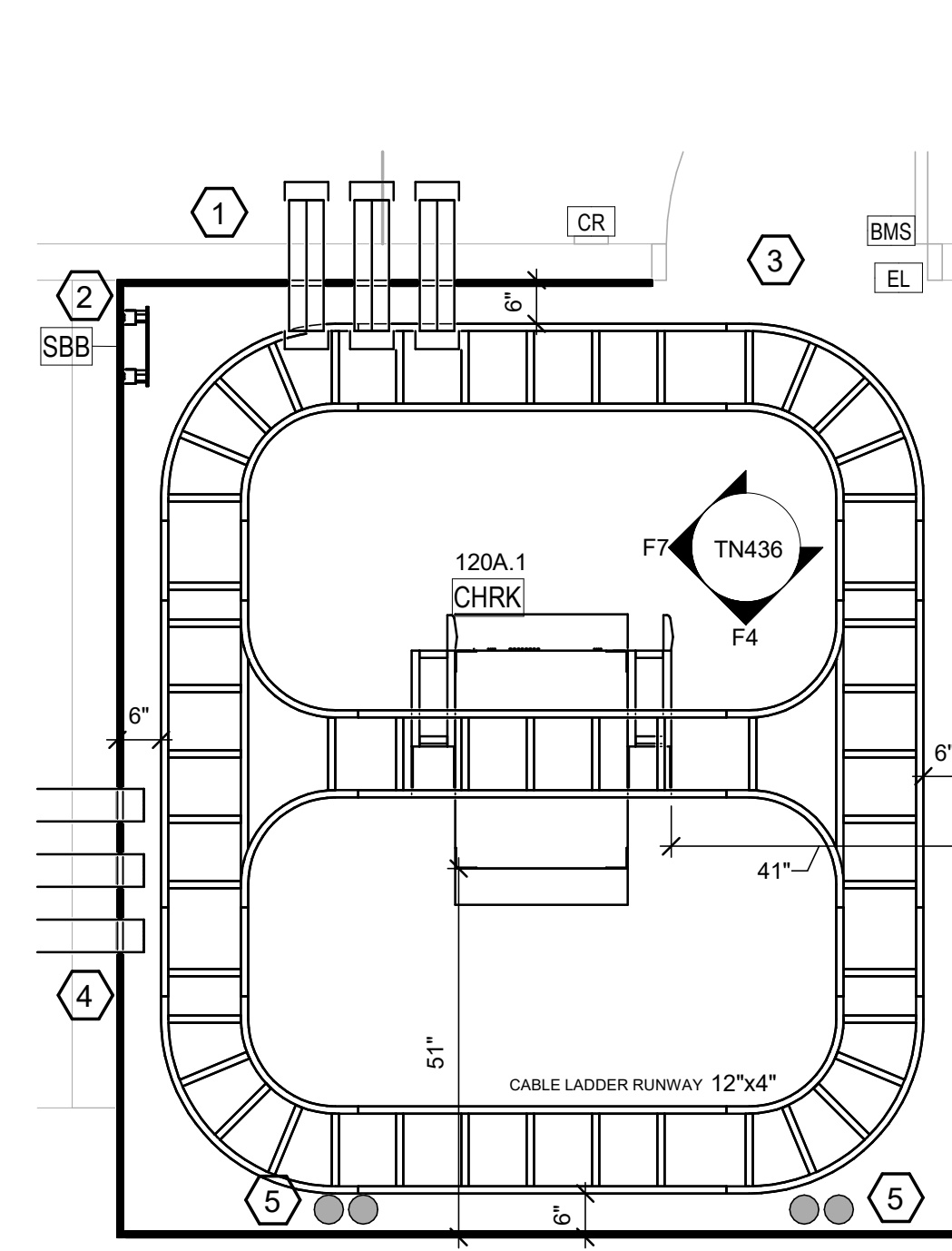
KEYNOTES:

- 1. PROVIDE (3) 4" EMT CONDUIT SLEEVES FROM TR 120A TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR SEE DETAIL F9 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REL, SSTV) TO NEW ACCESS POINT LOCATION.
- 4. PROVIDE (3) 4" EMT CONDUITS ABOVE BREAK ROOM CEILING FROM TR 120A TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 5. (2) 4" CONDUITS THROUGH FLOOR SLAB FOR BACKBONE FIBER PATHWAY TO GROUND LEVEL TR G-06.

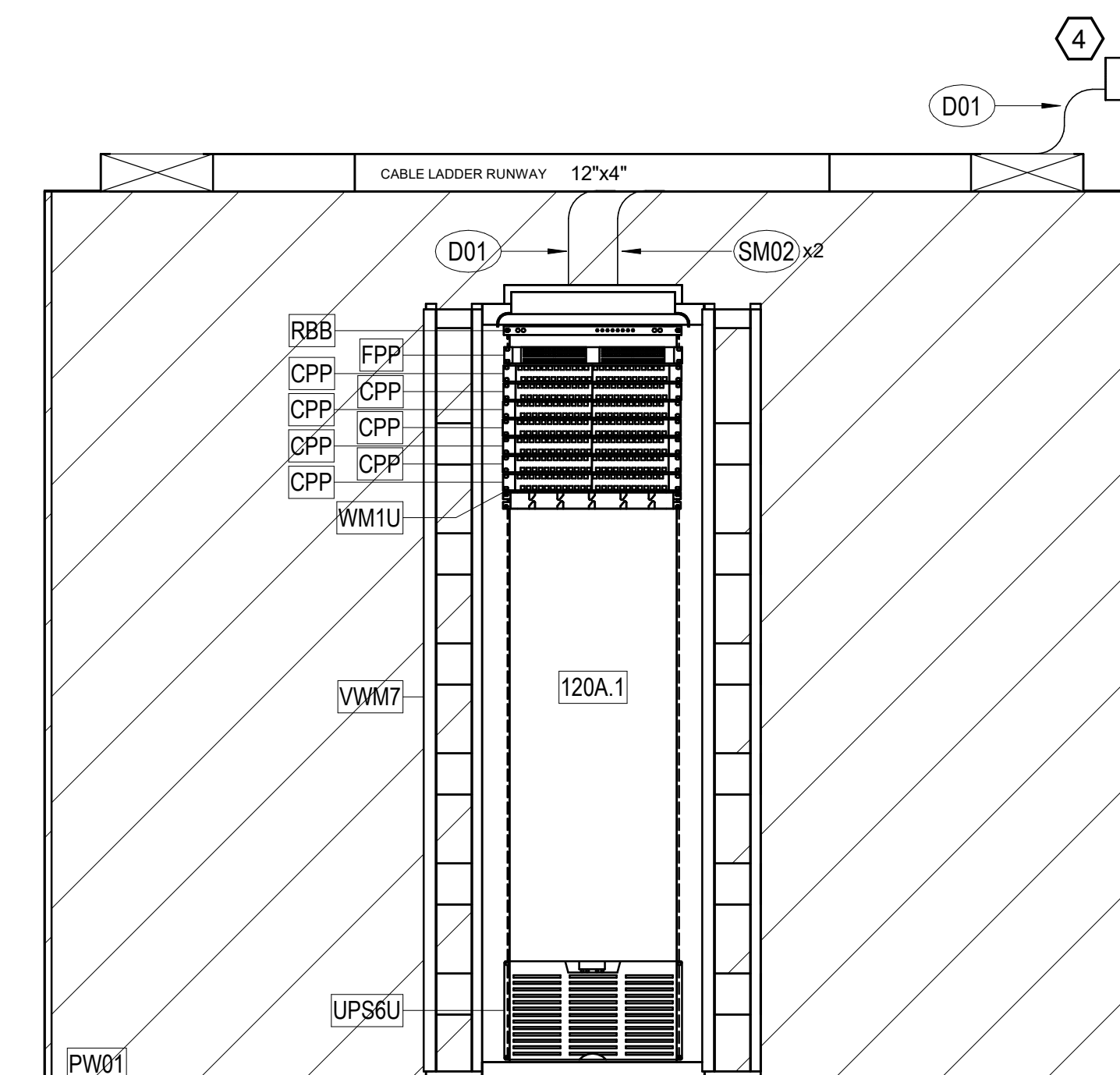
TR 120A EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
CHRK	12"x4" CABLE LADDER RUNWAY OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
SBB	ANSI/EIA/TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB).

TELECOM OUTLET SCHEDULE - LEVEL 01									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE U_1	CABLE U_2	CABLE C_1	CABLE C_2	CABLE COLOR
T1		UNCLASSIFIED	(1) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 120A	2	0	0	0	
T2		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 120A	4	0	0	0	
T2 WAP		UNCLASSIFIED	(2) CAT 6 UTP CABLES FOR UNCLASSIFIED NETWORK	TR 120A	18	0	0	0	
T3		UNCLASSIFIED	(3) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 120A	6	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 120A	200	0	9	0	
W		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 120A	28	0	0	0	
:72					258	0	0	0	
OUTLET TOTAL: 72					258	0	0	0	

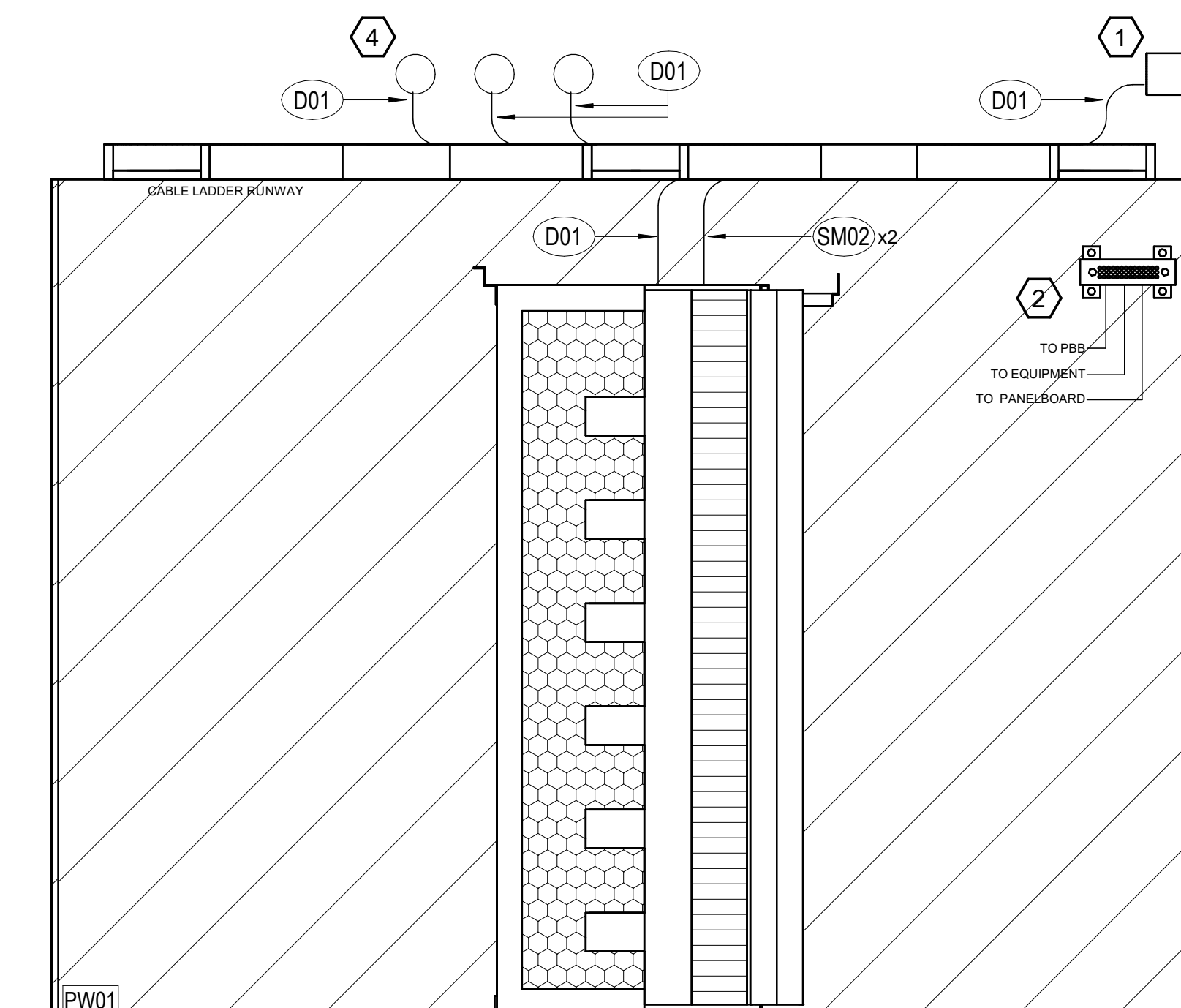
TR 120A EQUIPMENT RACK SCHEDULE						
RACK_ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
120A.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
120A.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
120A.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
120A.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
120A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
120A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
120A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
120A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
120A.1		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
120A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
120A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
120A.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
120A.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
120A.1		RBB			1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR 120A
SCALE: 1/2" = 1'-0"



F4 TR 120A RACK ELEVATION
SCALE: 3/4" = 1'-0"



F7 TR 120A RWEST WALL ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>CONSULTANT Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD Atriax, plc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title BLDG 135 - ENLARGED PLANS AND ELEV. - TR 120A</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>		
				<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number 135</p>		
						<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>	<p>Drawing Number TN436</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

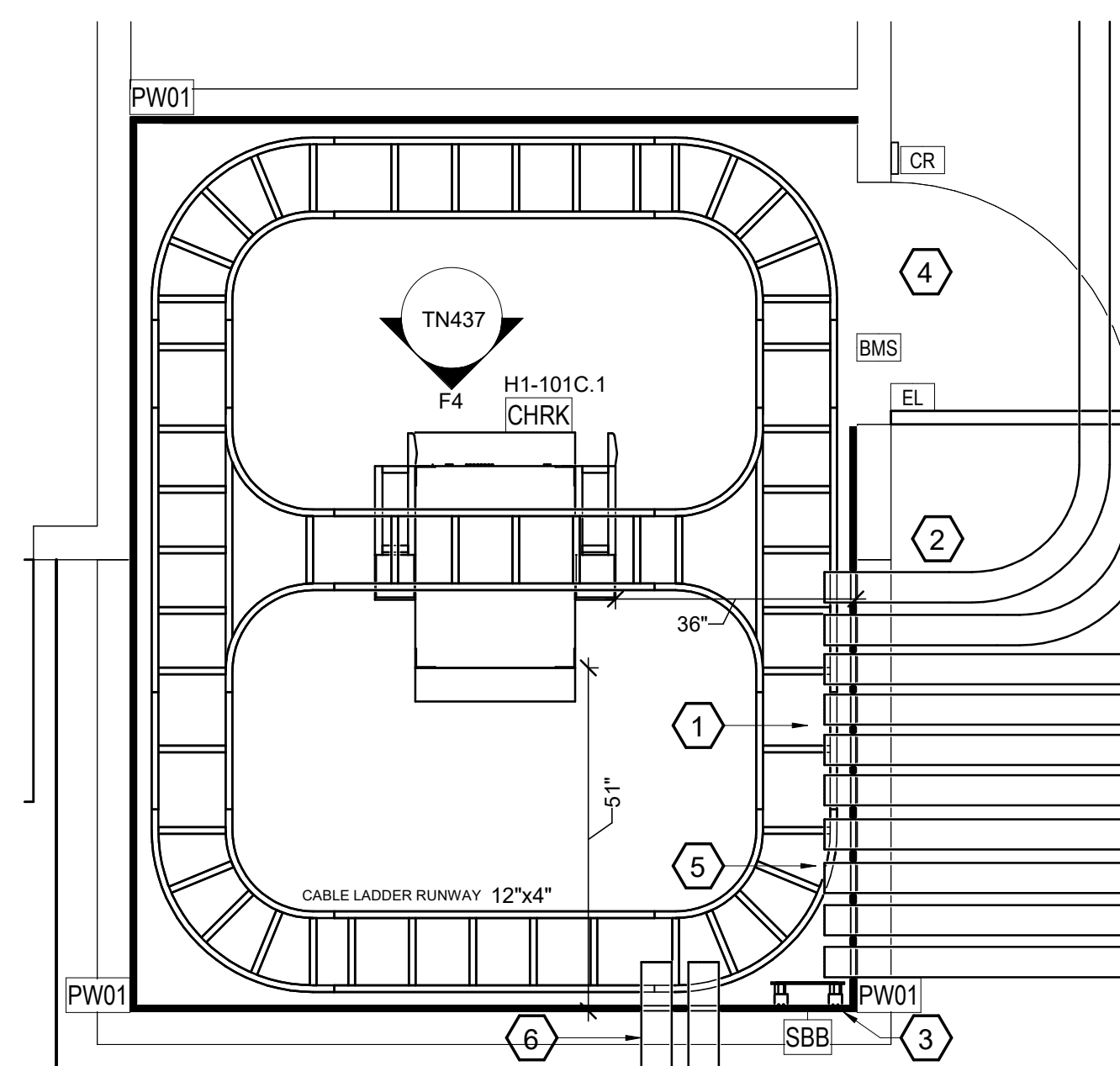
(#)KEYNOTES:

- 1. PROVIDE (4) 4" EMT CONDUITS ABOVE CEILING OF ROOM H1-100 FROM TR H1-101C TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. PROVIDE (2) 4" EMT CONDUITS ABOVE CEILING OF ROOM3 H1-101, H1-101A, AND H1-103 FROM TR H1-101C TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 3. SECONDARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 4. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACQUIS PCU LOCATION.
- 5. (4) 4" CONDUITS FROM TR H1-101C EXTENDED UP THROUGH CEILING DECK INTO SECOND FLOOR TR H2-103 FOR BACKBONE FIBER PATHWAY.
- 6. (2) 4" CONDUITS FROM HANDHOLE THH20 TO BUILDING 137 TELECOM ROOMS FOR FIBER BACKONE. SEE SITE PLAN FOR CONDUIT CONTINUATION.

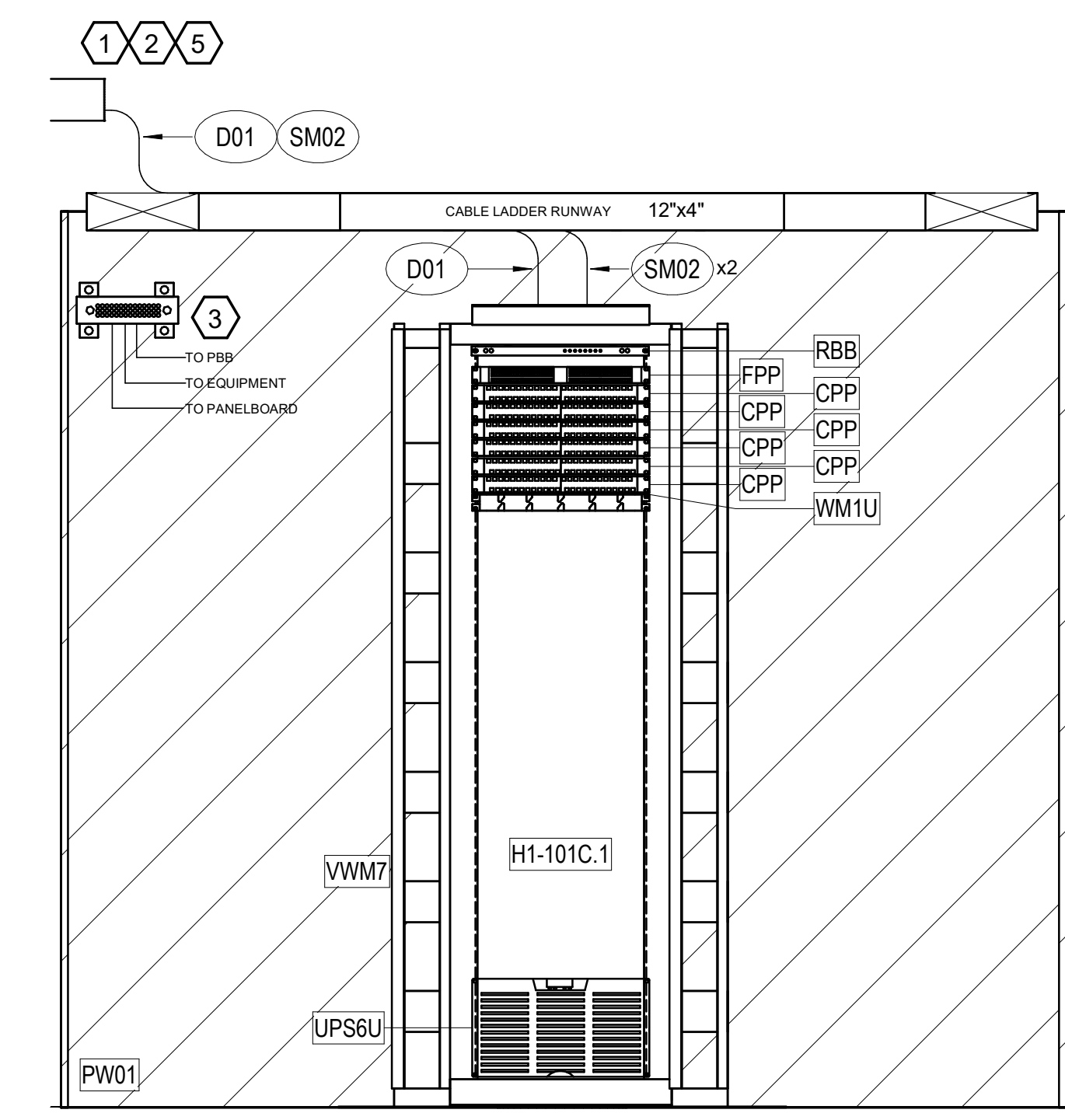
TR H1-101C EQUIPMENT SCHEDULE	
EQUIP TYPE	DESCRIPTION
	12"x4" CABLE LADDER RUNWAY
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1, WHITE FINISH OR EQUIVALENT.
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
SBB	ANSI/ EIA/ TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB).
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE

TR H1-101C TELECOM OUTLET SCHEDULE				
OUTLET TYPE	NETWORK_ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE_U_1
T1	UNCLASSIFIED	(1) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TELE H1-101C	2
T2	UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TELE H1-101C	8
T2 WAP	WIRELESS	(2) CAT 6 UTP CABLES FOR UNCLASSIFIED NETWORK	TELE H1-101C	30
T4	UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TELE H1-101C	152
W	UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TELE H1-101C	16
TELE H1-101C: 63				208
OUTLET TOTAL: 63				208

TR H1-101C EQUIPMENT RACK SCHEDULE				
RACK_ID	EQUIPMENT DESIGNATION	NETWORK	DESCRIPTION	RACK SPACES
H1-101C.1	CHRK	UNCLASSIFIED	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1, WHITE FINISH OR EQUIVALENT.	45
H1-101C.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES	1
H1-101C.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES	1
H1-101C.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES	1
H1-101C.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES	1
H1-101C.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES	1
H1-101C.1	FPP	UNCLASSIFIED	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
H1-101C.1	RBB		1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1
H1-101C.1	UPS6U	UNCLASSIFIED	5 KW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
H1-101C.1	VWM7		OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
H1-101C.1	VWM7		OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
H1-101C.1	WM1U	UNCLASSIFIED	WIRE MANAGEMENT - 1U HORIZONTAL	1



F1 ENLARGED PLAN - TR H1-101C
SCALE: 1/2" = 1'-0"



F4 TR H1-101C RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>CONSULTANT Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD Atriax, plc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>Office of Construction and Facilities Management U.S. Department of Veterans Affairs</p>	<p>Drawing Title BLDG 137 - ENLARGED PLANS & ELEV. - TR H1-101C</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>		
				<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number 137</p>		
						<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>	<p>Drawing Number TN437</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 90 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

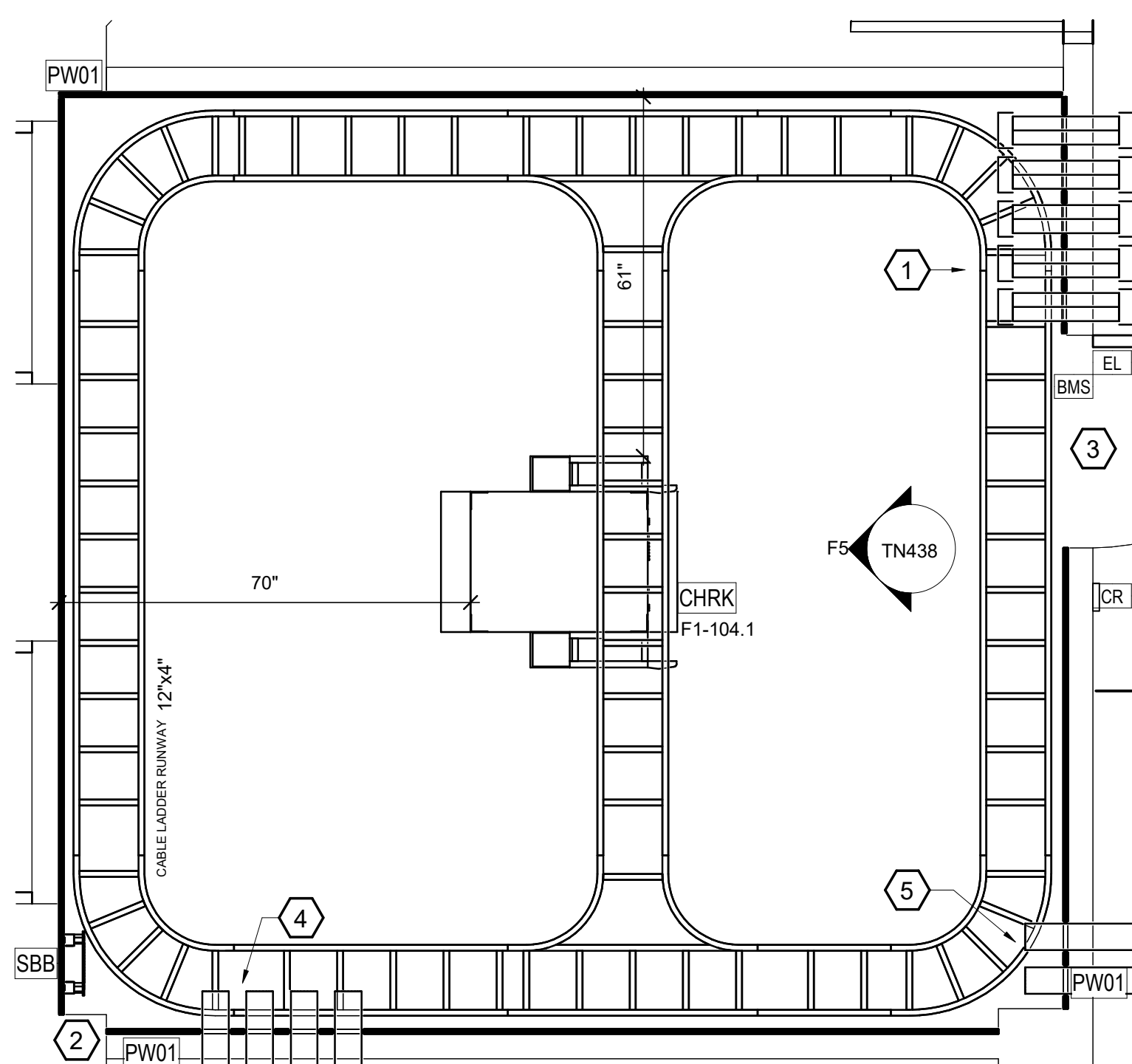
KEYNOTES:

- 1. PROVIDE (5) 4" EMT CONDUIT SLEEVES FROM TR F1-104 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. (4) 4" CONDUITS FROM TR F1-104 EXTENDED UP THROUGH CEILING DECK INTO SECOND FLOOR TR F2-106 FOR BACKBONE FIBER PATHWAY.
- 5. (2) 4" CONDUITS FROM HANDHOLE THH20 TO BUILDING 137 TELECOM ROOMS FOR FIBER BACKBONE. SEE SITE PLAN FOR CONDUIT CONTINUATION.

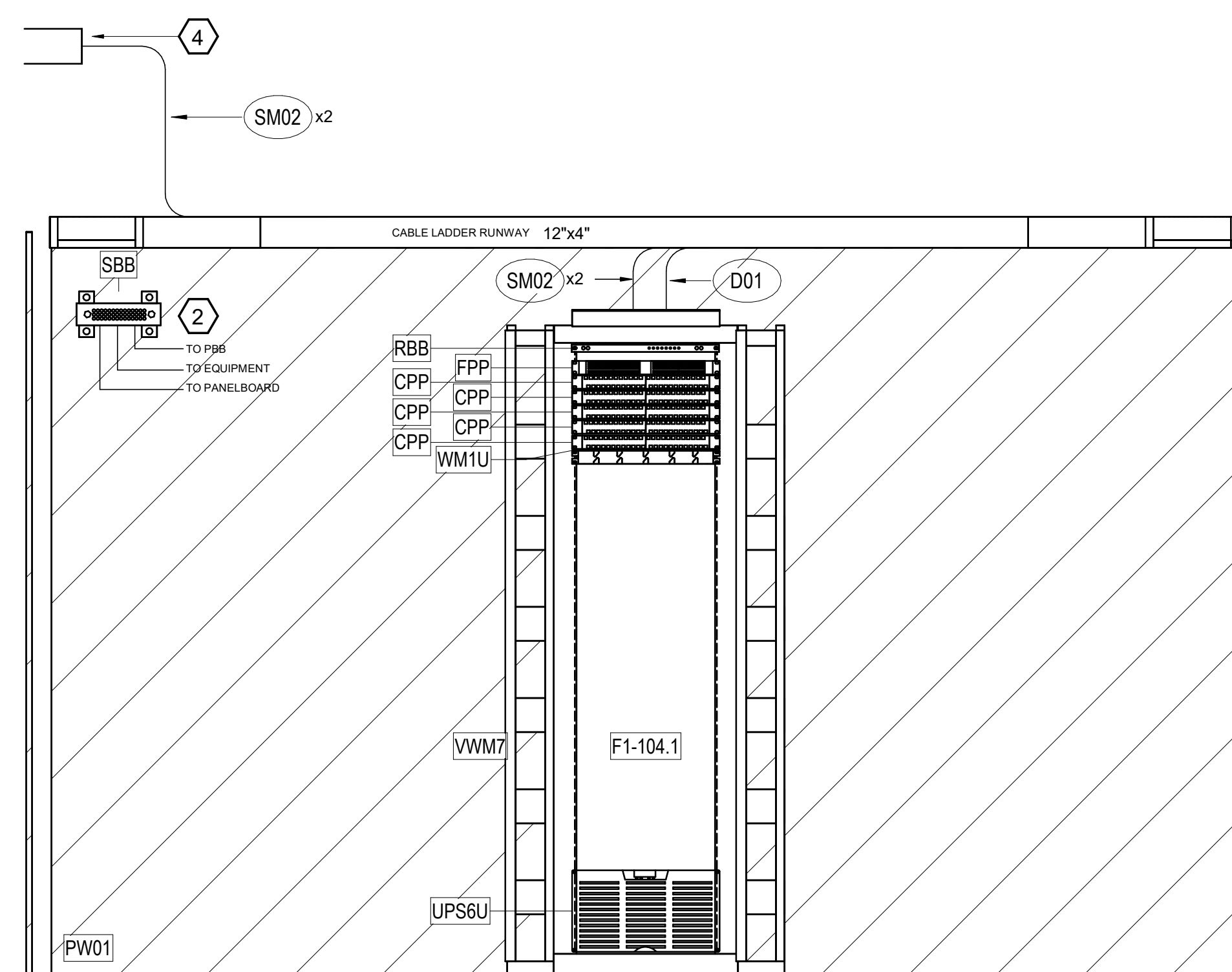
TR F1-104 EQUIPMENT SCHEDULE	
EQUIP TYPE	DESCRIPTION
CHRK	12"x4" CABLE LADDER RUNWAY
PW01	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
SBB	ANSI/ EIA/ TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB).
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE

TR F1-104 TELECOM OUTLET SCHEDULE				
OUTLET TYPE	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE U_1
T2	UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR F1-104	18
T2 WAP	WIRELESS	(2) CAT 6 UTP CABLES FOR UNCLASSIFIED NETWORK	TR F1-104	16
T3	UNCLASSIFIED	(3) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR F1-104	3
T4	UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR F1-104	144
TR F1-104: 64				181
OUTLET TOTAL: 54				181

TR F1-104 EQUIPMENT RACK SCHEDULE						
RACK_ID	EQUIPMENT DESIGNATION	NETWORK	DESCRIPTION	RACK SPACES	COPPER PORTS	FIBER STRANDS
F1-104.1	CHRK	UNCLASSIFIED	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45		
F1-104.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
F1-104.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
F1-104.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
F1-104.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
F1-104.1	FPP	UNCLASSIFIED	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
F1-104.1	RBB		1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1		
F1-104.1	UPS6U	UNCLASSIFIED	5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6		
F1-104.1	VWM7		OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE			
F1-104.1	VWM7		OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE			
F1-104.1	WM1U	UNCLASSIFIED	WIRE MANAGEMENT - 1U HORIZONTAL	1		



F1 ENLARGED PLAN - TR F1-104
SCALE: 1/2" = 1'-0"



F5 TR-F1-104 RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>Date:</p>	<p>CONSULTANT Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD STAMP Atriax, plc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title BLDG 137 - ENLARGED PLANS & ELEV. - TR F1-104</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>	
						<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number 137</p>	
						<p>Issue Date 03/08/2024</p>		<p>Checked JMM</p>	<p>Drawn JEH</p>	<p>Drawing Number TN438</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (IE OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 90 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

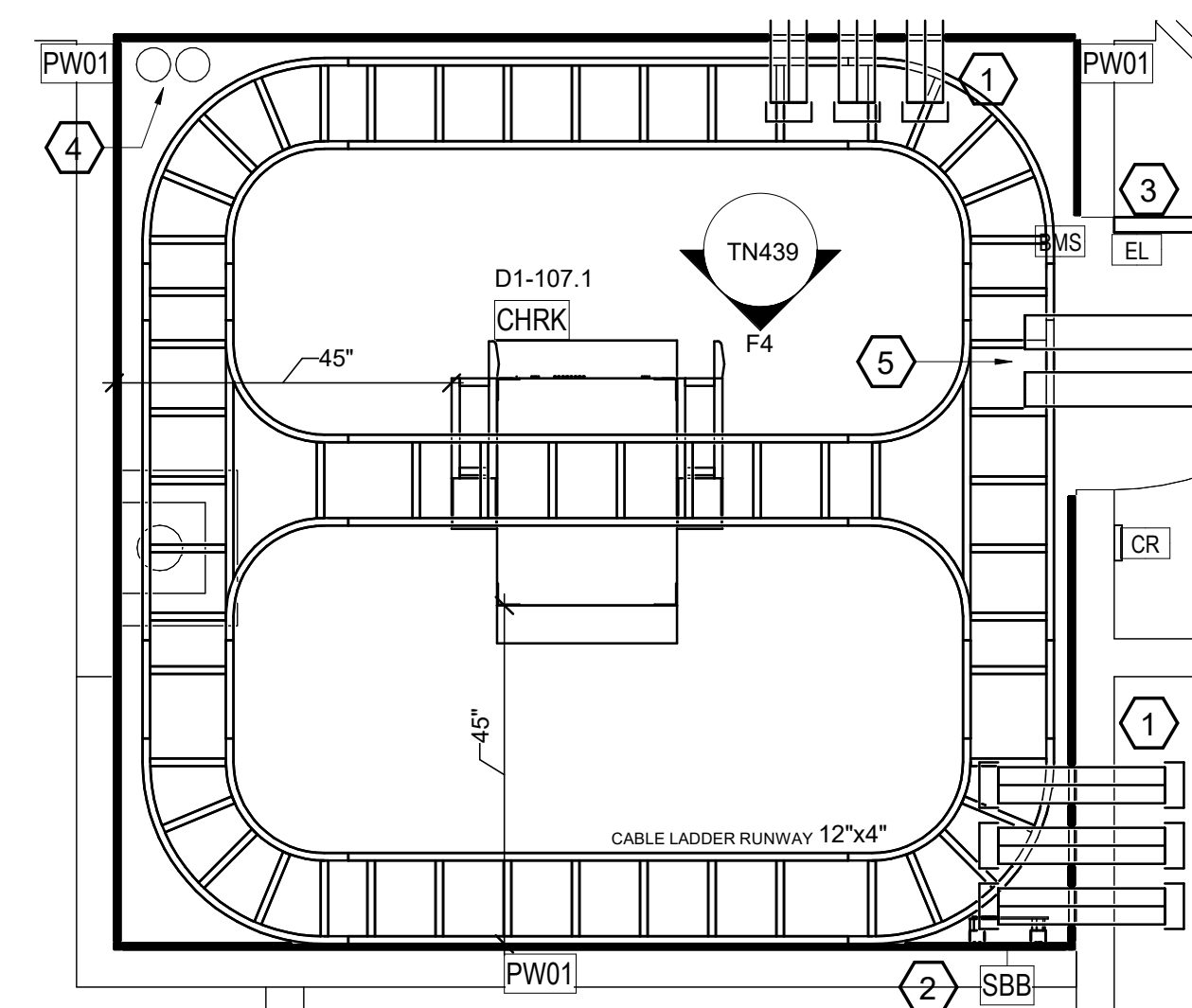
KEYNOTES:

- 1. PROVIDE (3) 4" EMT CONDUIT SLEEVES FROM TR D1-107 TO CABLE TRAY FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, EX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. (2) 4" SLEEVES THROUGH CEILING DECK INTO LEVEL 02 TR D2-114 FOR BACKBONE FIBER PATHWAY.
- 5. (2) 4" CONDUITS FROM HANDHOLE THH20 TO BUILDING 137 TELECOM ROOMS FOR FIBER BACKBONE. SEE SITE PLAN FOR CONDUIT CONTINUATION.

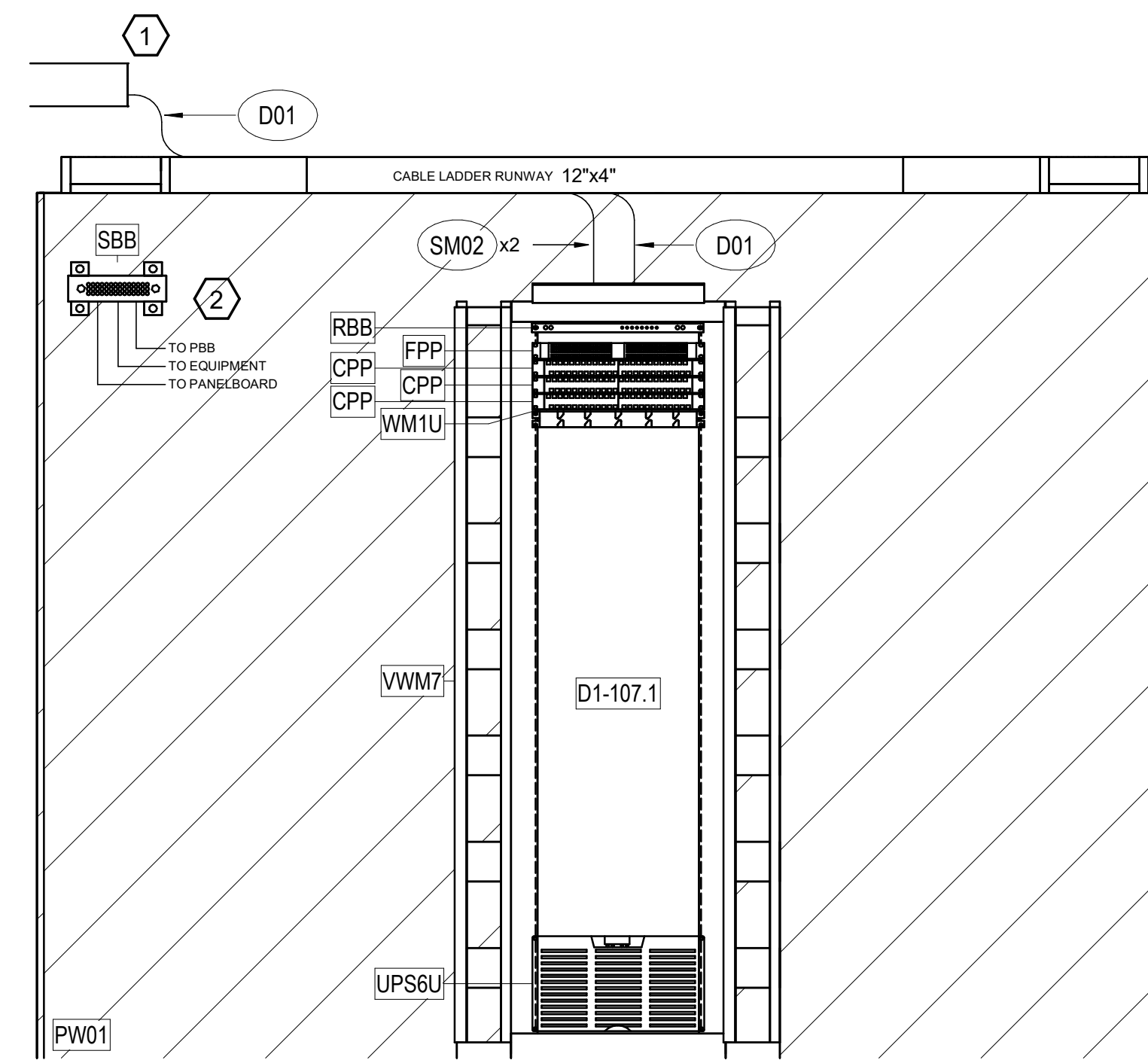
TR D1-107 EQUIPMENT SCHEDULE	
EQUIP TYPE	DESCRIPTION
CHRK	12"x4" CABLE LADDER RUNWAY OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
SBB	ANSI/ EIA/ TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB).
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE

TR D1-107 TELECOM OUTLET SCHEDULE				
OUTLET TYPE	NETWORK_ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE_U_1
T1	UNCLASSIFIED	(1) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR D1-107	4
T2 WAP	UNCLASSIFIED	(2) CAT 6 UTP CABLES FOR UNCLASSIFIED NETWORK	TR D1-107	26
T4	UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR D1-107	56
W	UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR D1-107	8
TR D1-107: 33				94
OUTLET TOTAL: 33				94

TR D1-107 EQUIPMENT RACK SCHEDULE						
RACK_ID	EQUIPMENT DESIGNATION	NETWORK	DESCRIPTION	RACK SPACES	COPPER PORTS	FIBER STRANDS
D1-107.1	CHRK	UNCLASSIFIED	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45		
D1-107.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
D1-107.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
D1-107.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
D1-107.1	FPP	UNCLASSIFIED	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS.	1	0	144
D1-107.1	RBB		1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1		
D1-107.1	UPS6U		5 kW 208V w/20A 5W IN/6W OUT, TWO INTERNAL BATTERY STRING	6		
D1-107.1	VWM7		OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE			
D1-107.1	VWM7		OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE			
D1-107.1	WM1U	UNCLASSIFIED	WIRE MANAGEMENT - 1U HORIZONTAL	1		



F1 ENLARGED PLAN - TR D1-107
SCALE: 1/2" = 1'-0"



F4 TR D1-107 RACK ELEVATION
SCALE: 3/4" = 1'-0"

Revisions:	Date:

CONSULTANT

WileyWilson
127 Nationwide Drive
Lynchburg, VA 24502
Phone: 434.947.1901
www.wileywilson.com

SPECIALIZED ENGINEERING SOLUTIONS
Specialized Engineering Solutions
1300 Baxter Street, Suite 355
Charlotte, NC 28204

ARCHITECT/ENGINEER OF RECORD

Atriax
www.atriaxgroup.com

Atriax, pllc
703 Main Avenue SW
PO Box 1629, Hickory, NC 28603
Phone: 828.315.9962
Fax: 828.315.9964

NC Engineering License No.: P-0214
NC Architectural License No.: 51254

Bicsi
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
RES-107-239534
EXPIRES 03-25
RCD 03/08/24

Office of Construction and Facilities Management

Drawing Title
BLDG 137 - ENLARGED PLANS & ELEV. - TR D1-107

Approved: Chief Engineer

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE UPGRADES

Project Number
679-20-104
Building Number
137

Location
TUSCALOOSA VAMC, TUSCALOOSA, AL.

Issue Date
03/08/2024

Checked
JMM

Drawn
JEH

Drawing Number
TN439

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 90 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

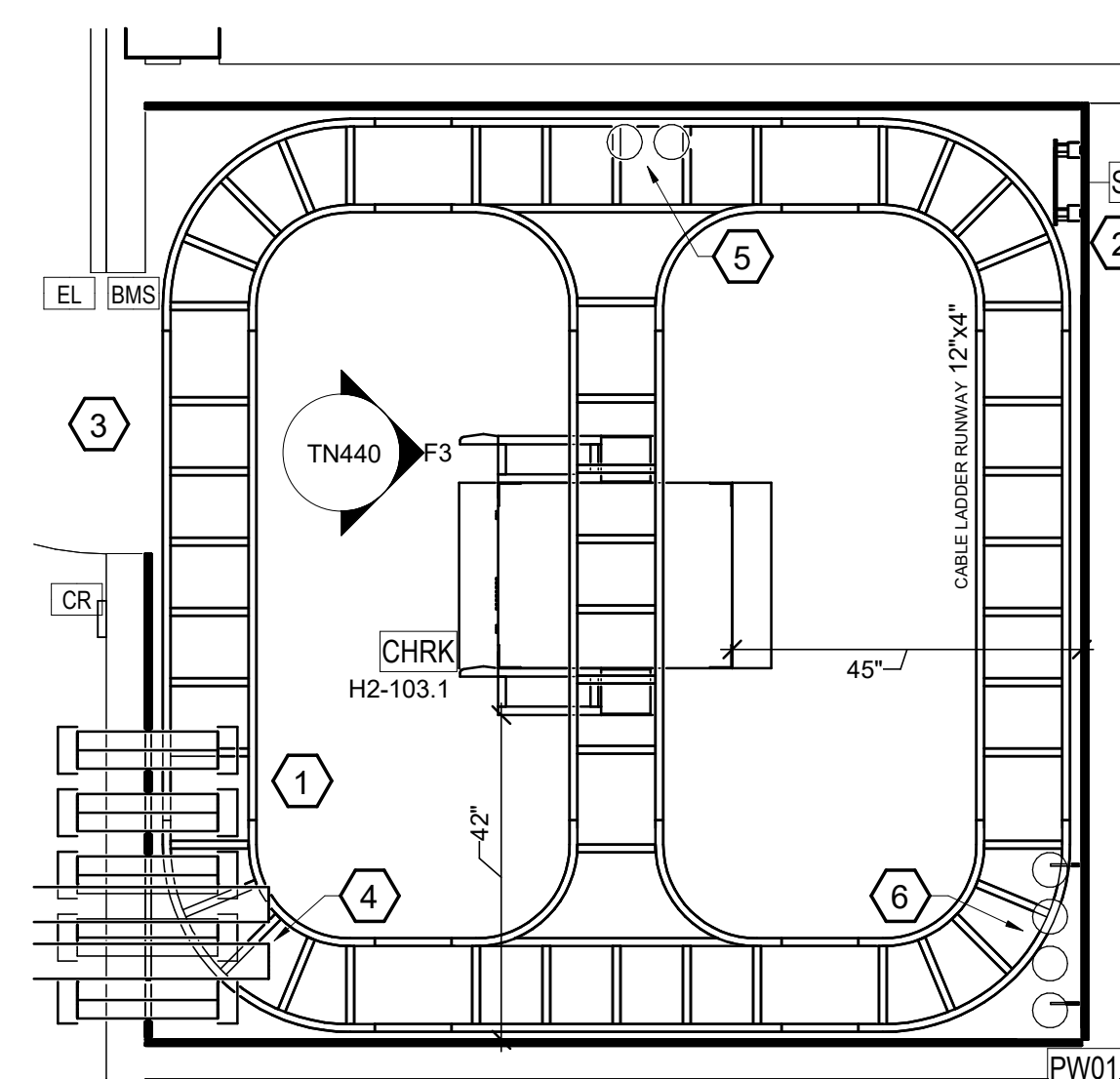
KEYNOTES:

- 1. PROVIDE (5) 4" EMT CONDUIT SLEEVES FROM TR H2-103 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. (2) 4" CONDUITS ROUTED THROUGH CORRIDORS FROM MANHOLE TMH31 TO BUILDING 137 TELECOM ROOMS FOR BACKBONE FIBER PATHWAY.
- 5. (2) 4" SLEEVES THROUGH CEILING DECK INTO LEVEL 03 TR H3-103 FOR BACKBONE FIBER PATHWAY.
- 6. (4) 4" CONDUITS THROUGH FLOOR AND ROUTED TO TR H1-101C FOR BACKBONE FIBER PATHWAY.

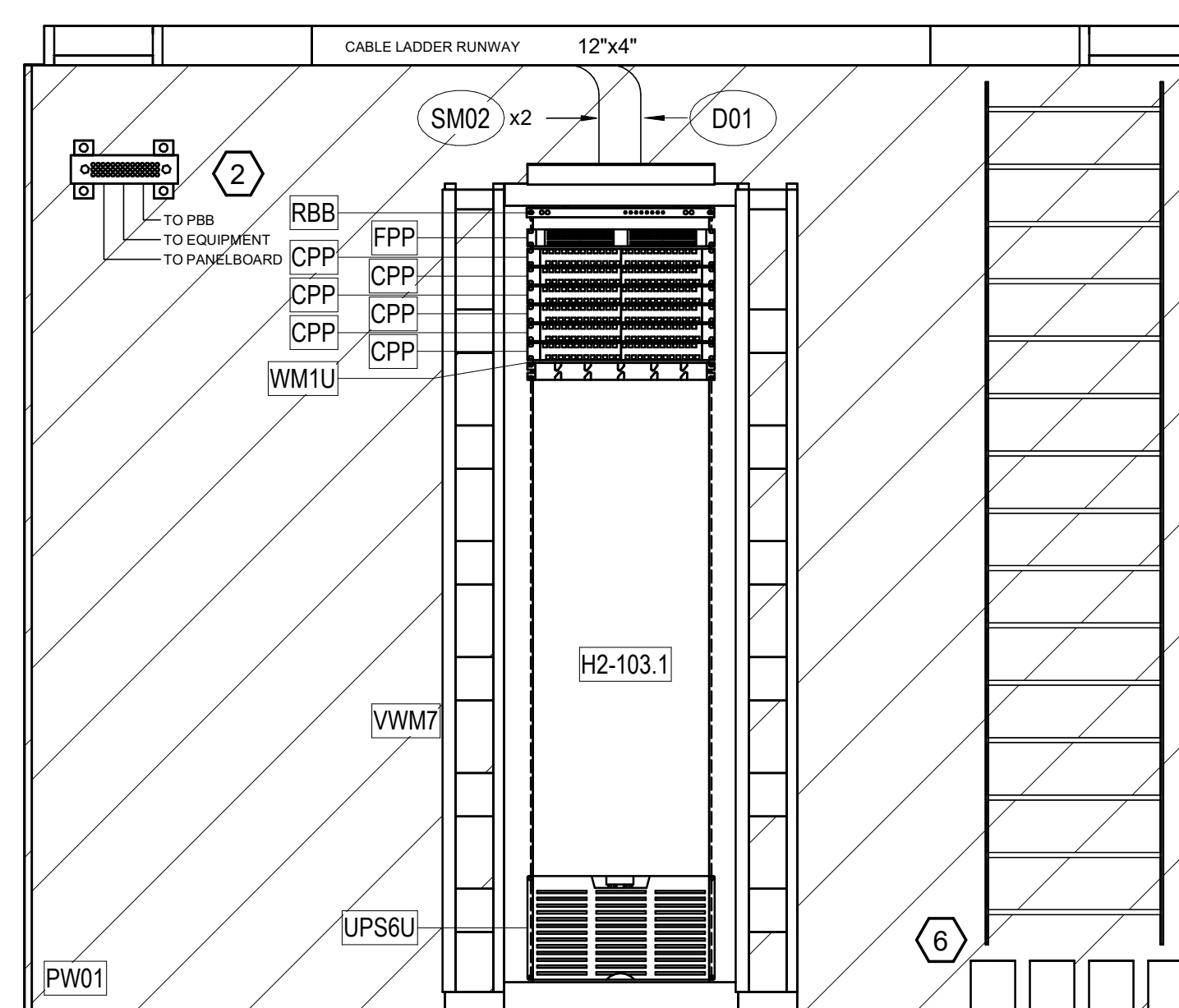
TR H2-103 EQUIPMENT SCHEDULE	
EQUIP TYPE	DESCRIPTION
CHRK	12"x4" CABLE LADDER RUNWAY
PW01	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1.
SBB	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
VWM7	ANSI/ EIA/ TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB).
	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE

TR H2-103 TELECOM OUTLET SCHEDULE				
OUTLET TYPE	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE U_1
T2	UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR H2-103	2
T2 WAP	WIRELESS	(2) CAT 6 UTP CABLES FOR UNCLASSIFIED NETWORK	TR H2-103	20
T4	UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR H2-103	176
W	UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR H2-103	4
TR H2-103: 56				202
OUTLET TOTAL: 56				202

TR H2-103 EQUIPMENT RACK SCHEDULE						
RACK_ID	EQUIPMENT DESIGNATION	NETWORK	DESCRIPTION	RACK SPACES	COPPER PORTS	FIBER STRANDS
H2-103.1	CHRK	UNCLASSIFIED	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45		
H2-103.1	CPP		CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
H2-103.1	CPP		CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
H2-103.1	CPP		CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
H2-103.1	CPP		CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
H2-103.1	CPP		CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
H2-103.1	CPP		CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
H2-103.1	FPP	UNCLASSIFIED	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
H2-103.1	RBB		1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1		
H2-103.1	UPS6U	UNCLASSIFIED	5 KW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6		
H2-103.1	VWM7		OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE			
H2-103.1	VWM7		OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE			
H2-103.1	WM1U		WIRE MANAGEMENT - 1U HORIZONTAL	1		



F1 ENLARGED PLAN - TR H2-103
SCALE: 1/2" = 1'-0"



F3 TR H2-103 RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD Atriax, plc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title BLDG 137 - ENLARGED PLANS & ELEV. - TR H2-103</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>		
				<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number 137</p>		
						<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>	<p>Drawing Number TN440</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

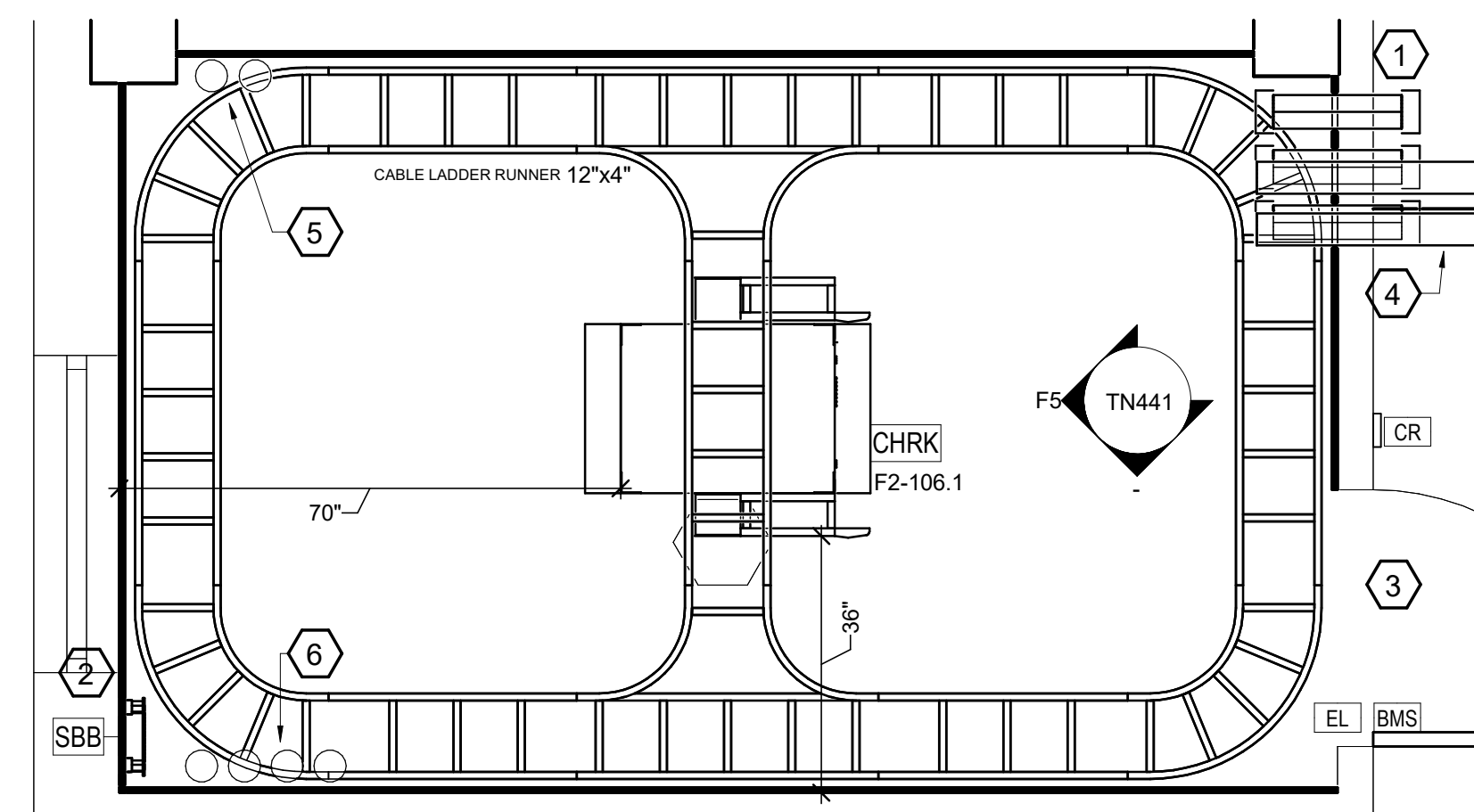
(#) KEYNOTES:

- 1. PROVIDE (3) 4" EMT CONDUIT SLEEVES FROM TR F2-106 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. PROVIDE (2) 4" CONDUITS ROUTED THROUGH CORRIDORS FROM MANHOLE TMH31 TO BUILDING 137 TELECOM ROOMS FOR BACKBONE FIBER PATHWAY. SEE SITE PLAN FOR CONDUIT ROUTE CONTINUATION.
- 5. (2) 4" SLEEVES THROUGH CEILING DECK INTO LEVEL 03 TR F3-106 FOR BACKBONE FIBER PATHWAY.
- 6. (4) 4" CONDUITS THROUGH FLOOR AND ROUTED TO LEVEL 01 TR F1-104 FOR BACKBONE FIBER PATHWAY.

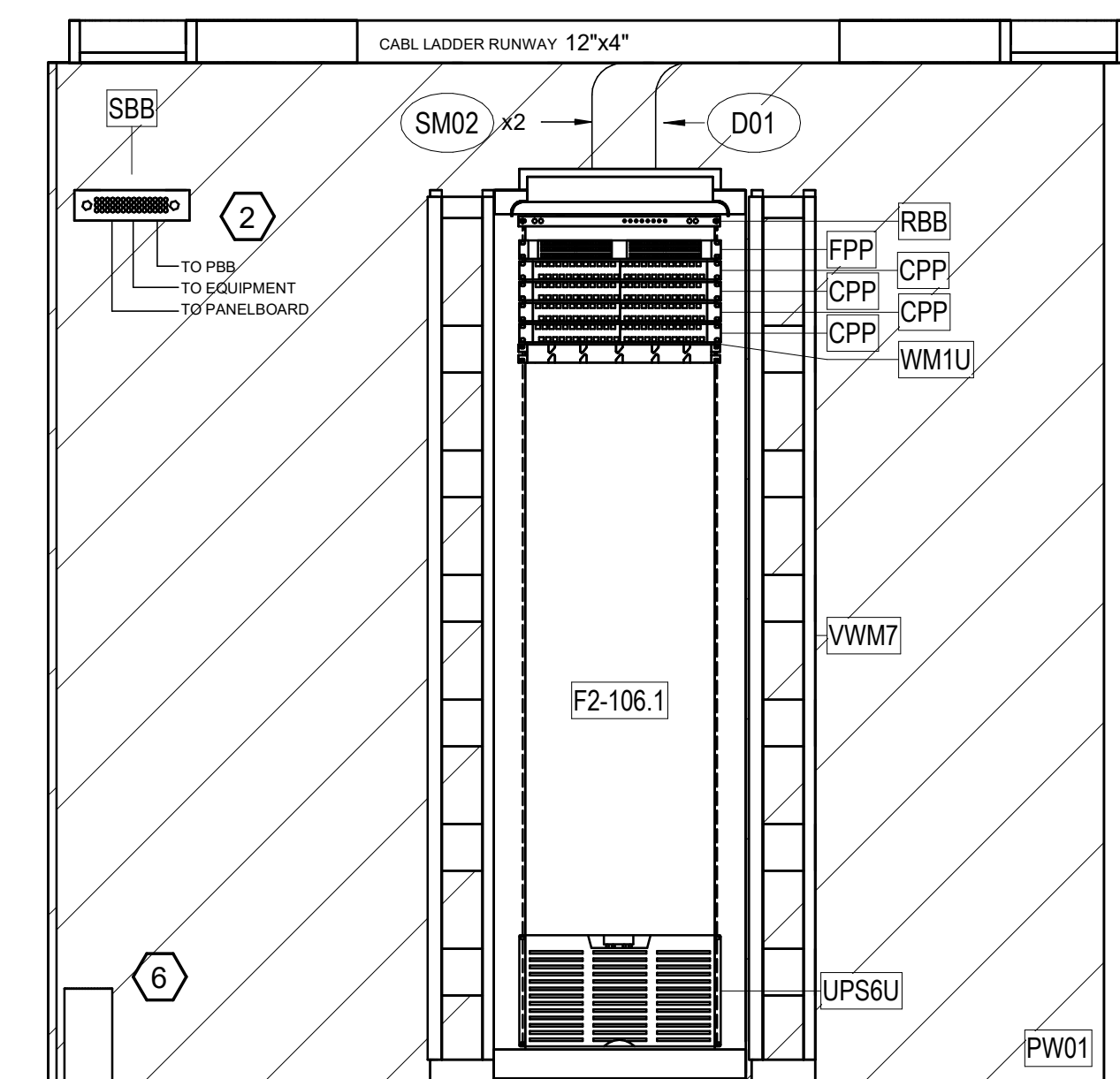
TR F2-106 EQUIPMENT SCHEDULE	
EQUIP TYPE	DESCRIPTION
	12"x4" CABLE LADDER RUNWAY
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1, WHITE FINISH OR EQUIVALENT.
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
SBB	ANSI/ EIA/ TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB).
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE

TR F2-106 TELECOM OUTLET SCHEDULE				
OUTLET TYPE	NETWORK ID	DESCRIPTION	ID/FTR ROOM NAME AND NUMBER	CABLE U_1
T2 WAP	WIRELESS	(2) CAT 6 UTP CABLES FOR UNCLASSIFIED NETWORK	TR F2-106	26
T4	UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR F2-106	84
W	UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR F2-106	12
TR F2-106: 37				122
OUTLET TOTAL: 37				122

TR F2-106 EQUIPMENT RACK SCHEDULE						
RACK ID	EQUIPMENT DESIGNATION	NETWORK	DESCRIPTION	RACK SPACES	COPPER PORTS	FIBER STRANDS
F2-106.1	CHRK	UNCLASSIFIED	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1, WHITE FINISH OR EQUIVALENT.	45		
F2-106.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
F2-106.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
F2-106.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
F2-106.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
F2-106.1	FPP	UNCLASSIFIED	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
F2-106.1	RBB		1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1		
F2-106.1	UPS6U	UNCLASSIFIED	5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6		
F2-106.1	VWM7		OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE			
F2-106.1	VWM7		OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE			
F2-106.1	WM1U	UNCLASSIFIED	WIRE MANAGEMENT - 1U HORIZONTAL	1		



F1 ENLARGED PLAN - TR F2-106
SCALE: 1/2" = 1'-0"



F5 TR F2-106 RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>Date:</p>	<p>CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICS1107823954 Expires 03/31/25 RCD 03/08/24</p>	<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title BLDG 137 - ENLARGED PLANS & ELEV. - TR F2-106</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>	
							<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number 137</p>	
								<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>	<p>Drawing Number TN441</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM IT'S TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR's SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

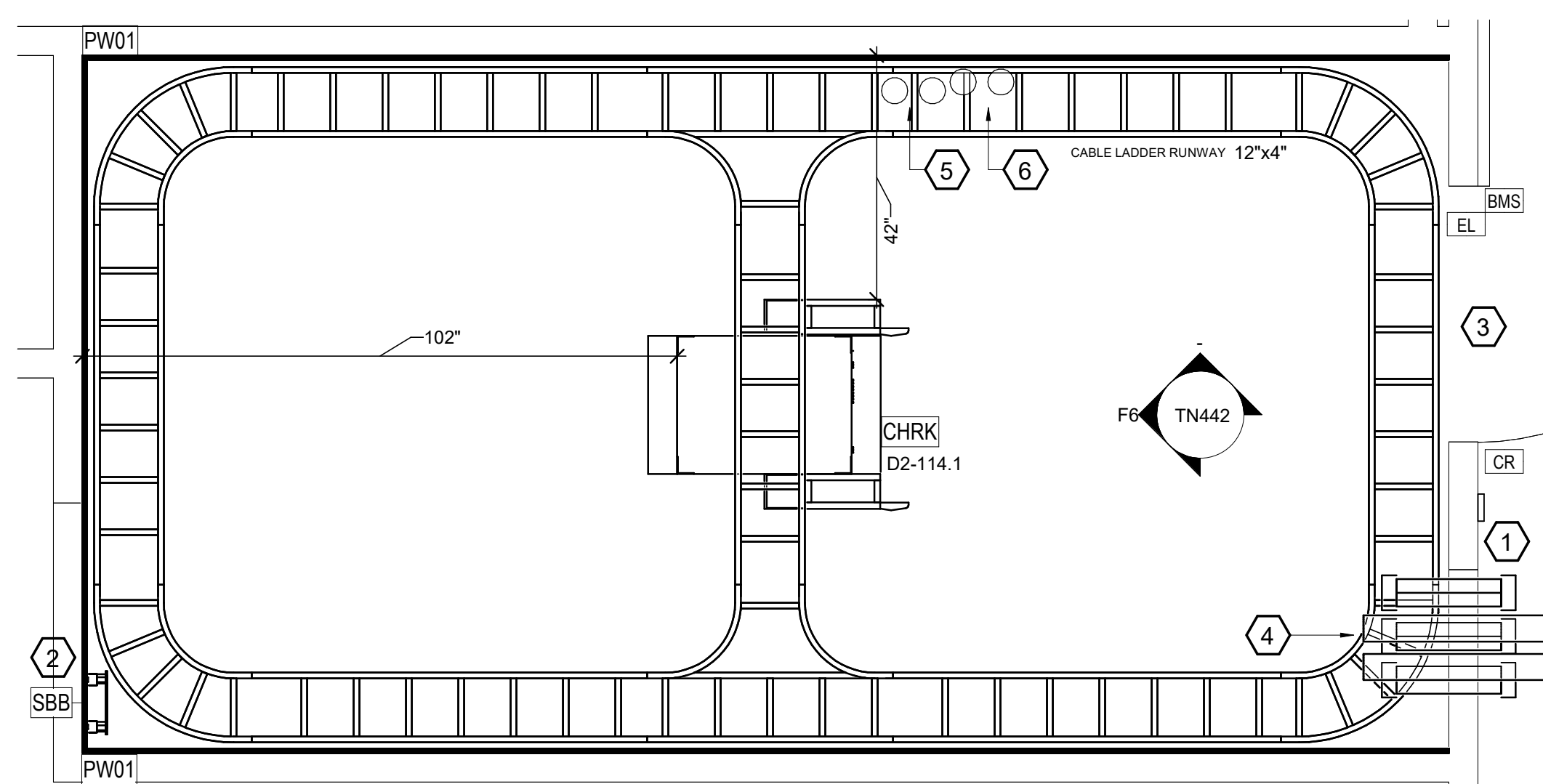
KEYNOTES:

- 1. PROVIDE (6) 4" EMT CONDUIT SLEEVES FROM TR D2-114 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. PROVIDE (2) 4" CONDUITS ROUTED THROUGH CORRIDORS FROM MANHOLE TMH31 TO BUILDING 137 TELECOM ROOMS FOR BACKBONE FIBER PATHWAY. SEE SITE PLAN FOR CONDUIT ROUTE CONTINUATION.
- 5. (2) 4" SLEEVES THROUGH CEILING DECK INTO LEVEL 03 TR D3-116 FOR BACKBONE FIBER PATHWAY.
- 6. (2) 4" SLEEVES THROUGH FLOOR INTO LEVEL 01 TR D1-107 FOR BACKBONE FIBER PATHWAY.

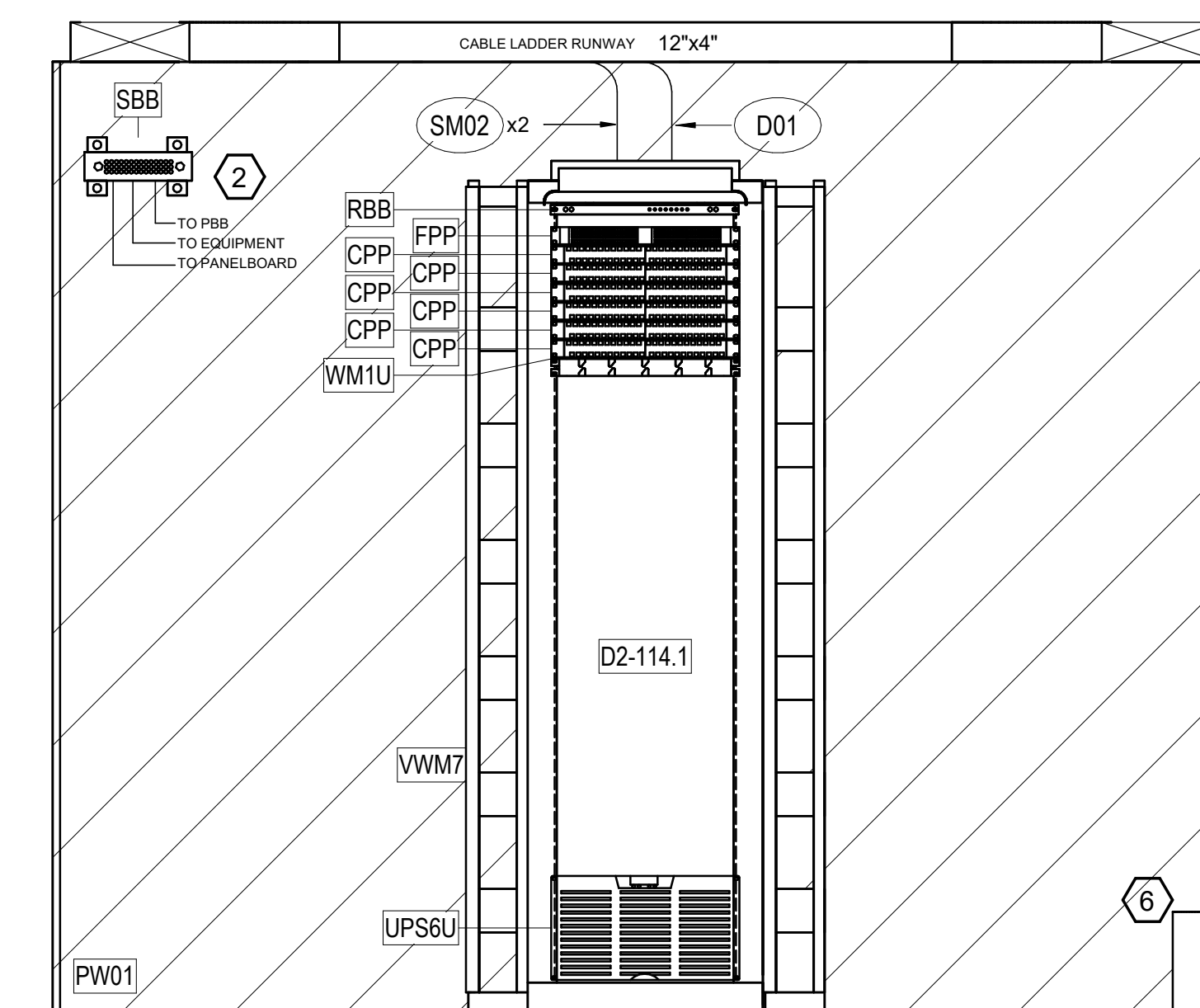
TR D2-114 EQUIPMENT SCHEDULE	
EQUIP TYPE	DESCRIPTION
CHRK	12"x4" CABLE LADDER RUNWAY OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
SBB	ANSI/ EIA/ TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB).
WWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE

TR D2-114 TELECOM OUTLET SCHEDULE				
OUTLET TYPE	NETWORK ID	DESCRIPTION	ID#/TR ROOM NAME AND NUMBER	CABLE U_1
T2 WAP	WIRELESS	(2) CAT 6 UTP CABLES FOR UNCLASSIFIED NETWORK	TR D2-114	26
T4	UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR D2-114	188
W	UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR D2-114	4
TR D2-114: 61				218
OUTLET TOTAL: 61				218

TR D2-114 EQUIPMENT RACK SCHEDULE						
RACK_ID	EQUIPMENT DESIGNATION	NETWORK	DESCRIPTION	RACK SPACES	COPPER PORTS	FIBER STRANDS
D2-114.1	CHRK	UNCLASSIFIED	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45		
D2-114.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
D2-114.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
D2-114.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
D2-114.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
D2-114.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
D2-114.1	FPP	UNCLASSIFIED	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
D2-114.1	RBB		1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1		
D2-114.1	UPS6U	UNCLASSIFIED	5 KW 208V w/20A 5W IN/SW OUT, TWO INTERNAL BATTERY STRING	6		
D2-114.1	WWM7		OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE			
D2-114.1	WWM7		OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE			
D2-114.1	WM1U	UNCLASSIFIED	WIRE MANAGEMENT - 1U HORIZONTAL	1		



F1 ENLARGED PLAN - TR D2-114
SCALE: 1/2" = 1'-0"



F6 TR D2-114 RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>DATE:</p>	<p>CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP REGISTERED COMMUNICATIONS DISTRIBUTION TECHNICIAN Bicsi 3000 W. Main St., Suite 200 Raleigh, NC 27604 03/08/24</p>	<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title BLDG 137 - ENLARGED PLANS & ELEV. - TR D2-114</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>	
							<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number 137</p>	
								<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>	<p>Drawing Number TN442</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

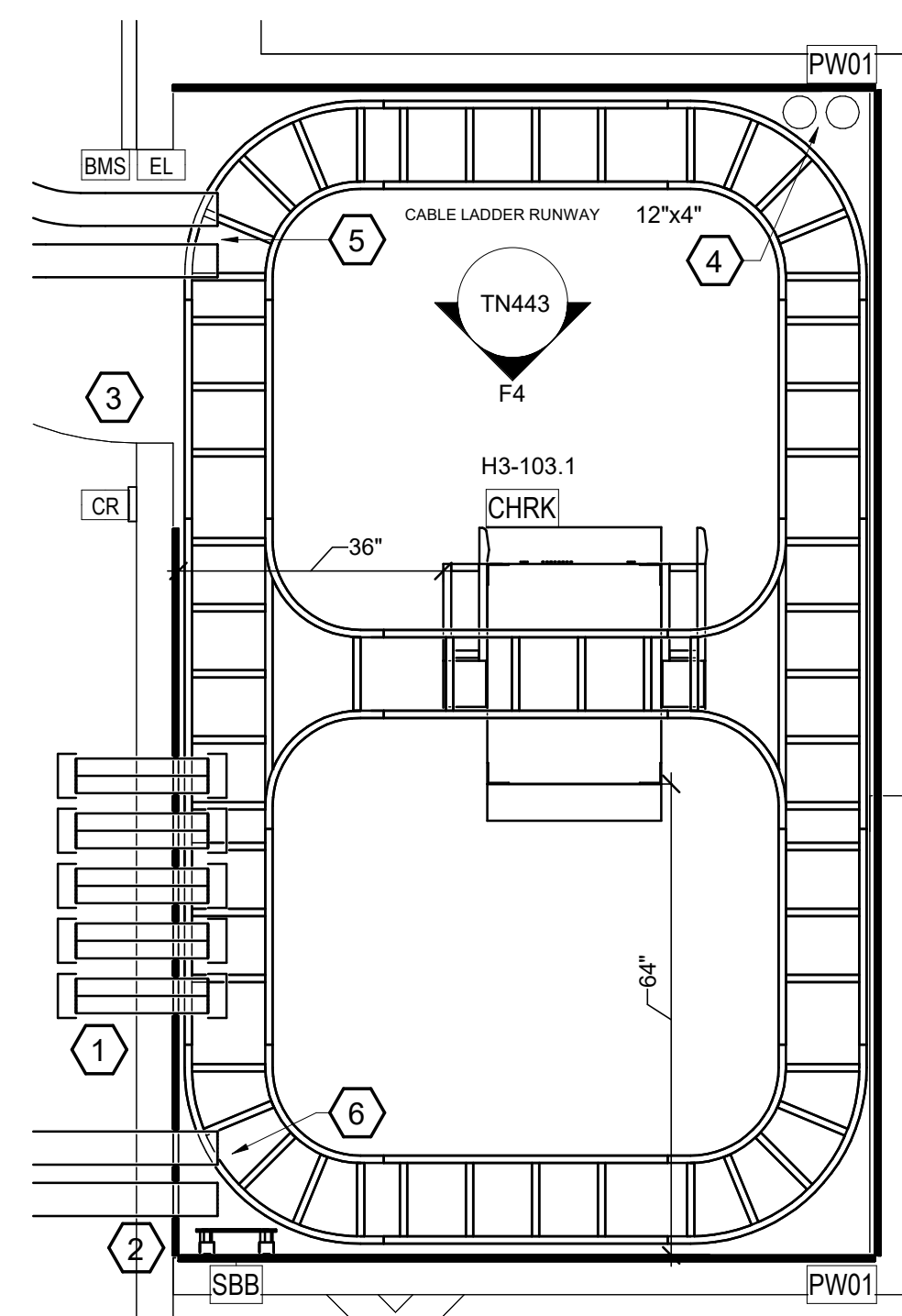
KEYNOTES:

- 1. PROVIDE (5) 4" EMT CONDUIT SLEEVES FROM TR H3-103 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR, SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. (2) 4" SLEEVES THROUGH FLOOR INTO LEVEL 02 TR H2-103 FOR BACKBONE FIBER PATHWAY.
- 5. EXTEND (2) 4" CONDUITS FROM TR H3-103 AND UP THROUGH CEILING DECK INTO LEVEL 04 TR J4-100 FOR BACKBONE FIBER PATHWAY.
- 6. EXTEND (2) 4" CONDUITS FROM TR H3-103 AND UP THROUGH CEILING DECK INTO LEVEL 04 TR J4-100 FOR BACKBONE FIBER PATHWAY.

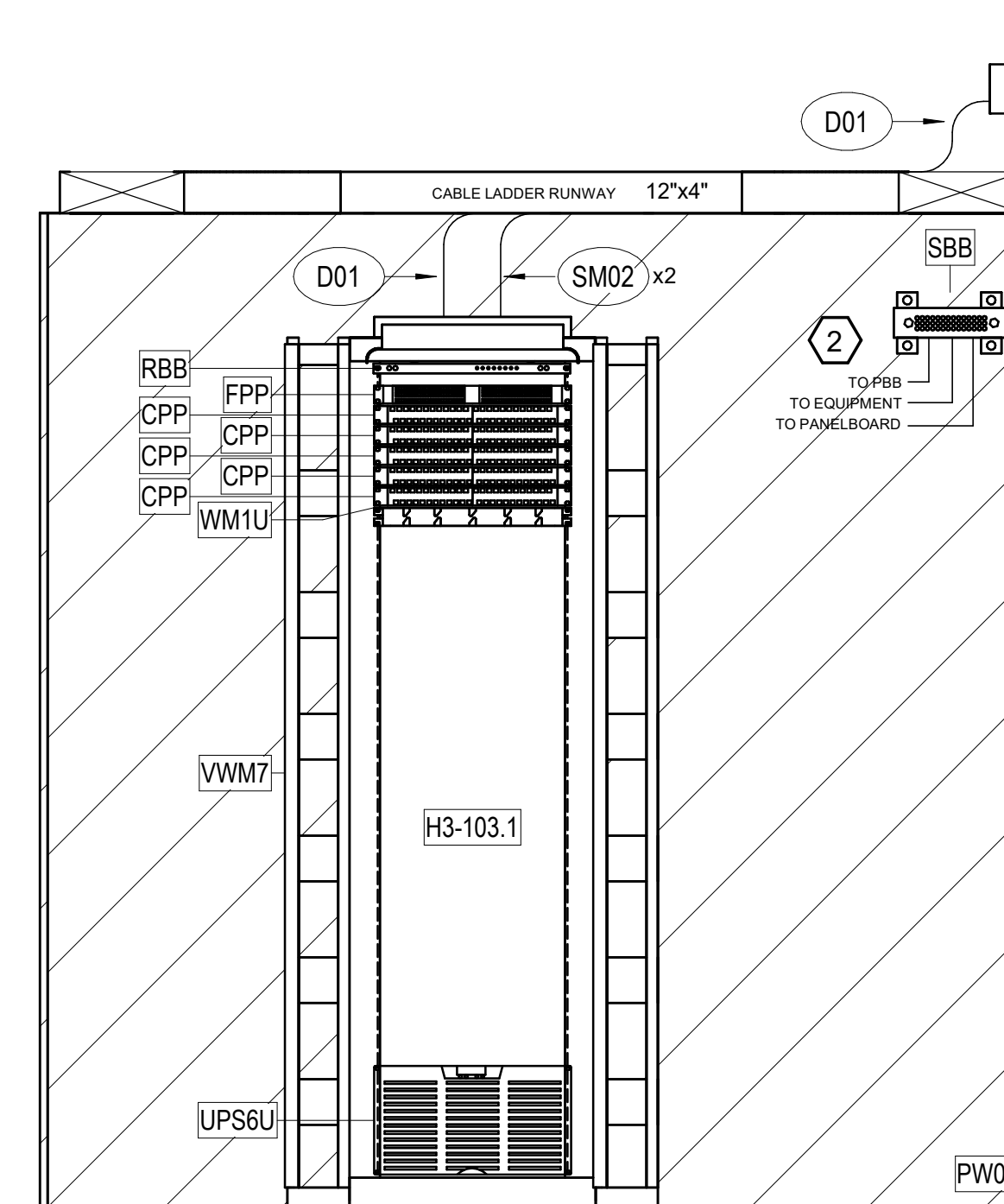
TR H3-103 TELECOM OUTLET SCHEDULE				
OUTLET TYPE	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE U. 1
T2 WAP	WIRELESS	(2) CAT 6 UTP CABLES FOR UNCLASSIFIED NETWORK	TR H3-103	10
T4	UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR H3-103	176
TR H3-103: 49				186
OUTLET TOTAL: 49				186

TR H3-103 EQUIPMENT SCHEDULE	
EQUIP TYPE	DESCRIPTION
CHRK	12"x4" CABLE LADDER RUNWAY OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
SBB	ANSI/ EIA/ TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB).
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE

TR H3-103 EQUIPMENT RACK SCHEDULE						
RACK ID	EQUIPMENT DESIGNATION	NETWORK	DESCRIPTION	RACK SPACES	COPPER PORTS	FIBER STRANDS
H3-103.1	CHRK	UNCLASSIFIED	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45		
H3-103.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
H3-103.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
H3-103.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
H3-103.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
H3-103.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
H3-103.1	FPP	UNCLASSIFIED	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
H3-103.1	RBB		1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1		
H3-103.1	UPS6U	UNCLASSIFIED	5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6		
H3-103.1	VWM7		OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE			
H3-103.1	VWM7		OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE			
H3-103.1	WM1U	UNCLASSIFIED	WIRE MANAGEMENT - 1U HORIZONTAL	1		



F1 ENLARGED PLAN - TR H3-103
SCALE: 1/2" = 1'-0"



F4 TR H3-103 RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>CONSULTANT</p> <p>WileyWilson</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax GROUP</p> <p>www.atriaxgroup.com</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964</p> <p>NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP</p> <p>Bicsi</p> <p>REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER</p> <p>03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>BLDG 137 - ENLARGED PLANS & ELEV. - TR H3-103</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>
					<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number</p> <p>137</p>
<p>Revisions:</p>	<p>Date:</p>	<p>Issue Date</p> <p>03/08/2024</p>	<p>Checked</p> <p>JMM</p>	<p>Drawn</p> <p>JEH</p>	<p>Drawing Number</p> <p>TN443</p>			

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

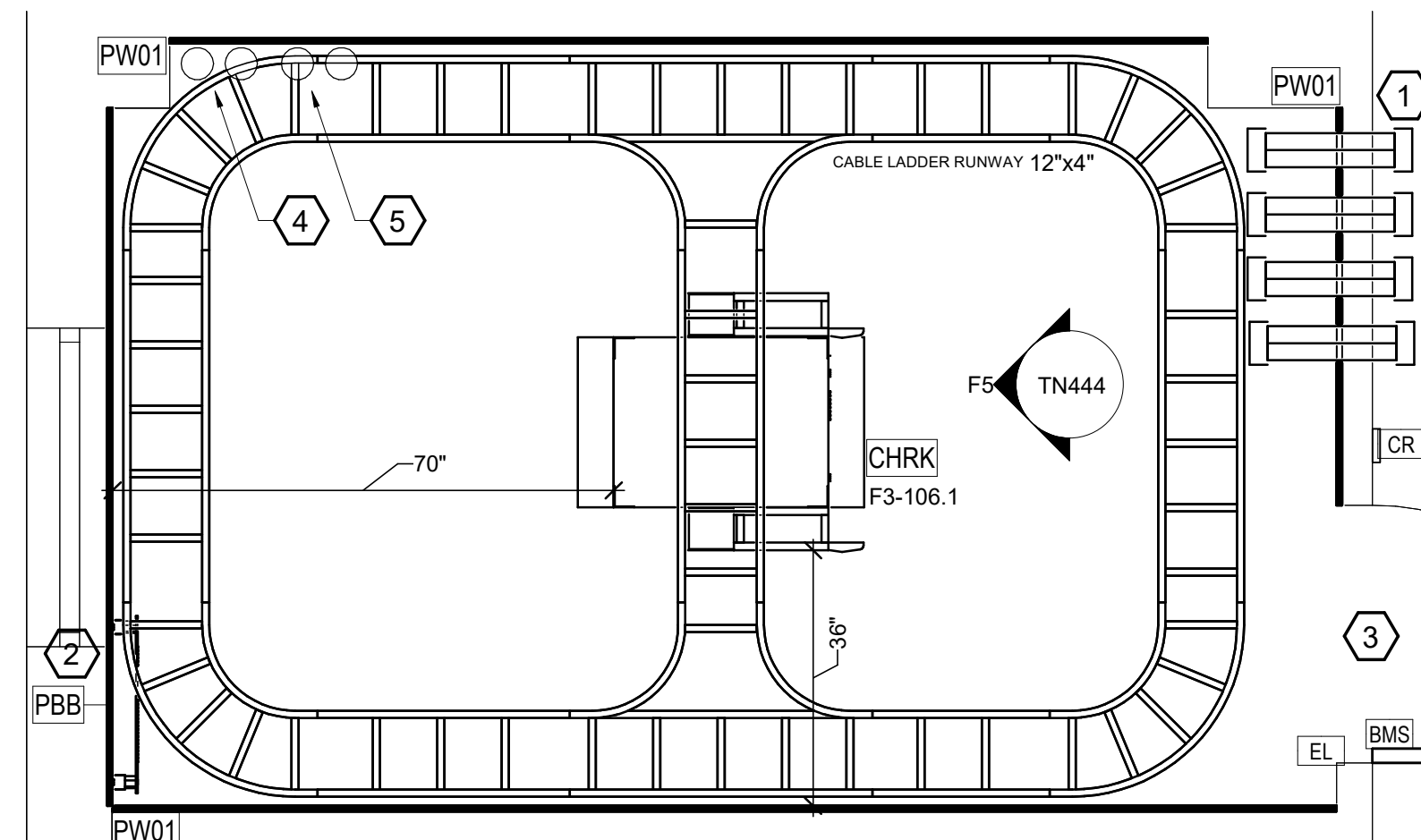
KEYNOTES:

- 1. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR F3-106 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. PRIMARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, RE, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. (2) 4" SLEEVES THROUGH FLOOR INTO LEVEL 02 TR F3-106 FOR BACKBONE FIBER PATHWAY.
- 5. (2) 4" SLEEVES THROUGH CEILING DECK INTO LEVEL 04 TR F4-106 FOR BACKBONE FIBER PATHWAY.

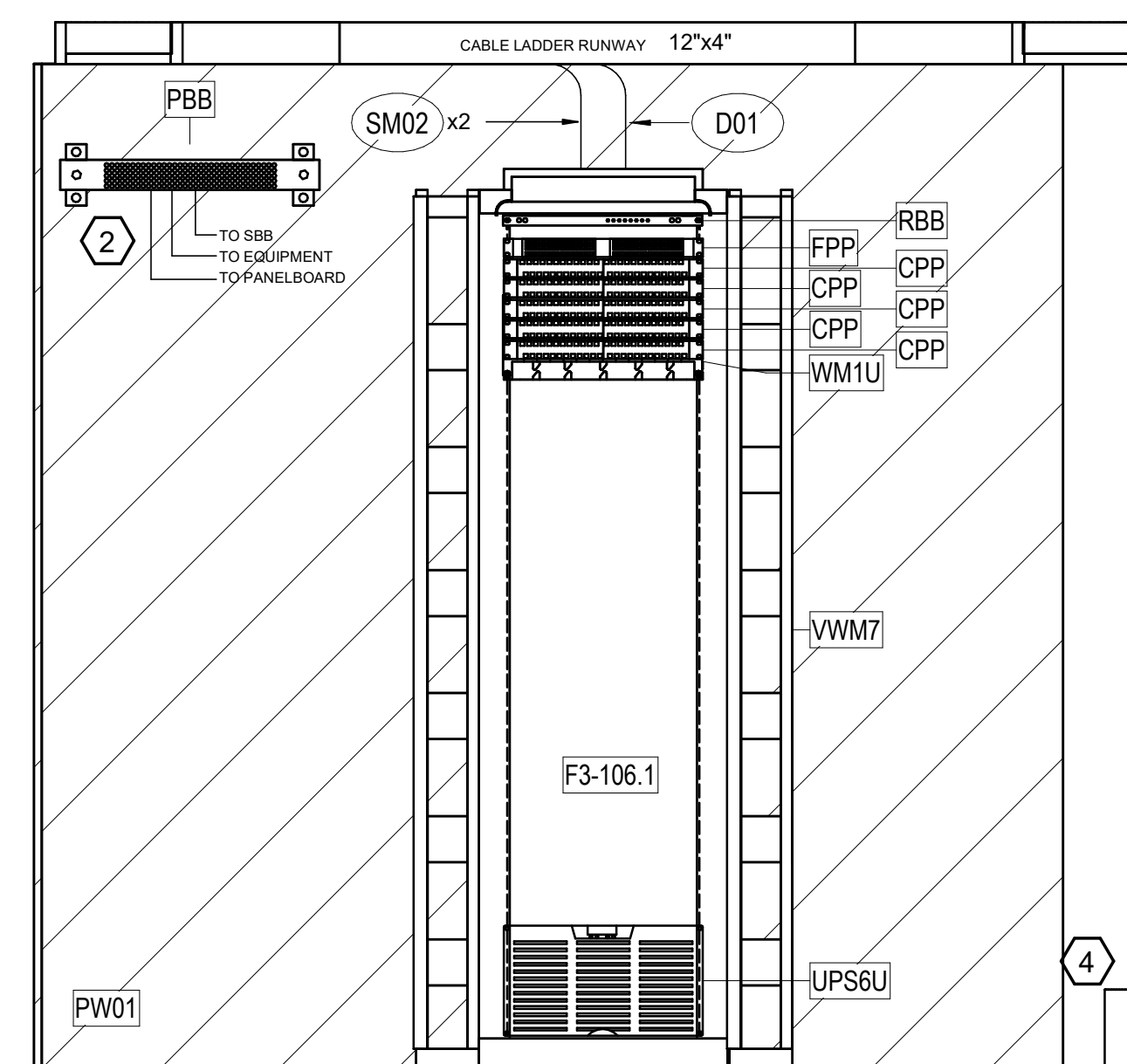
TR F3-106 EQUIPMENT SCHEDULE	
EQUIP TYPE	DESCRIPTION
CHRK	12"x4" CABLE LADDER RUNWAY
PBB	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
PBB	TELECOM PRIMARY BONDING BUSBAR.
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE

TR F3-106 TELECOM OUTLET SCHEDULE					
OUTLET TYPE	NETWORK_ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE_U_1	
T2 WAP	WIRELESS	(2) CAT 6 UTP CABLES FOR UNCLASSIFIED NETWORK	TR F3-106	18	
T4	UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR F3-106	144	
W	UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR F3-106	4	
TR F3-106: 46				166	
OUTLET TOTAL: 46				166	

TR F3-106 EQUIPMENT RACK SCHEDULE						
RACK_ID	EQUIPMENT DESIGNATION	NETWORK	DESCRIPTION	RACK SPACES	COPPER PORTS	FIBER STRANDS
F3-106.1	CHRK	UNCLASSIFIED	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45		
F3-106.1	CPP		CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
F3-106.1	CPP		CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
F3-106.1	CPP		CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
F3-106.1	CPP		CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
F3-106.1	FPP		ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
F3-106.1	FPP288		FIBER PATCH PANEL - 4U OPTICAL FIBER ENCLOSURE W/ (12) 24 STR ADAPTER PLATES.	4	0	144
F3-106.1	RBB		1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1		
F3-106.1	UPS6U		5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6		
F3-106.1	VWM7		OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE			
F3-106.1	VWM7		OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE			
F3-106.1	WM1U		WIRE MANAGEMENT - 1U HORIZONTAL	1		



F1 ENLARGED PLAN - TR F3-106
SCALE: 1/2" = 1'-0"



F5 TR F3-106 RACK ELEVATION
SCALE: 3/4" = 1'-0"

CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204		ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254		Office of Construction and Facilities Management U.S. Department of Veterans Affairs		Drawing Title BLDG 137 - ENLARGED PLANS & ELEV. - TR F3-106 Approved: Chief Engineer		Phase 100% CONSTRUCTION DOCUMENTS		Project Title EHRM INFRASTRUCTURE UPGRADES		Project Number 679-20-104	
Revisions:		Date:		Location TUSCALOOSA VAMC, TUSCALOOSA, AL.		Issue Date 03/08/2024		Checked JMM		Drawn JEH		Building Number 137			
								Fully Sprinklered				Drawing Number TN444			

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

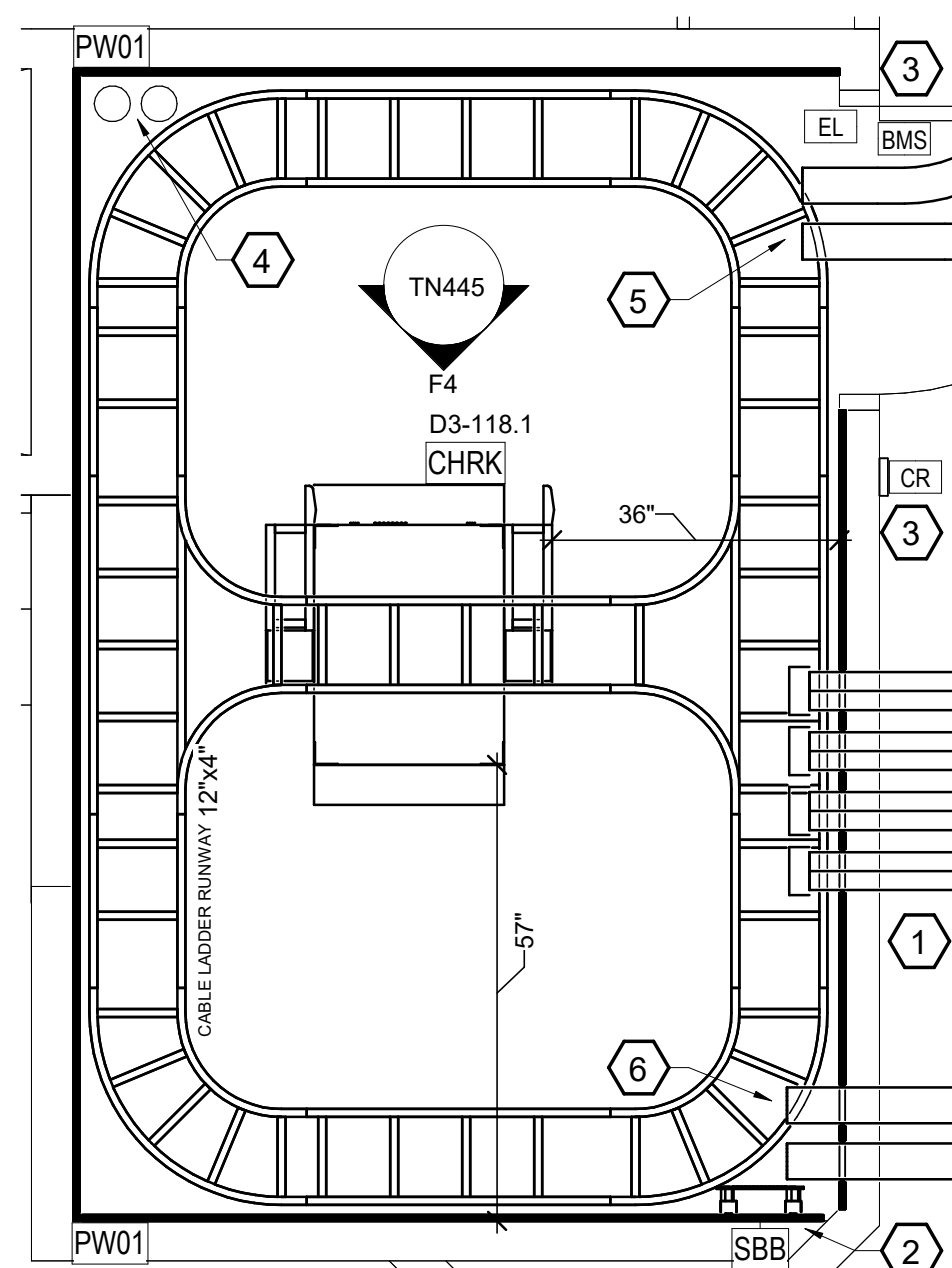
KEYNOTES:

- 1. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR D3-116 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR, SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. (2) 4" SLEEVES THROUGH FLOOR INTO LEVEL 02 TR D2-114 FOR BACKBONE FIBER PATHWAY.
- 5. EXTEND (2) 4" CONDUITS FROM TR D3-116 AND UP THROUGH CEILING DECK INTO LEVEL 04 TR B4-107 FOR BACKBONE FIBER PATHWAY.
- 6. EXTEND (2) 4" CONDUITS FROM TR D3-116 AND UP THROUGH CEILING DECK INTO LEVEL 04 TR B4-107 FOR BACKBONE FIBER PATHWAY.

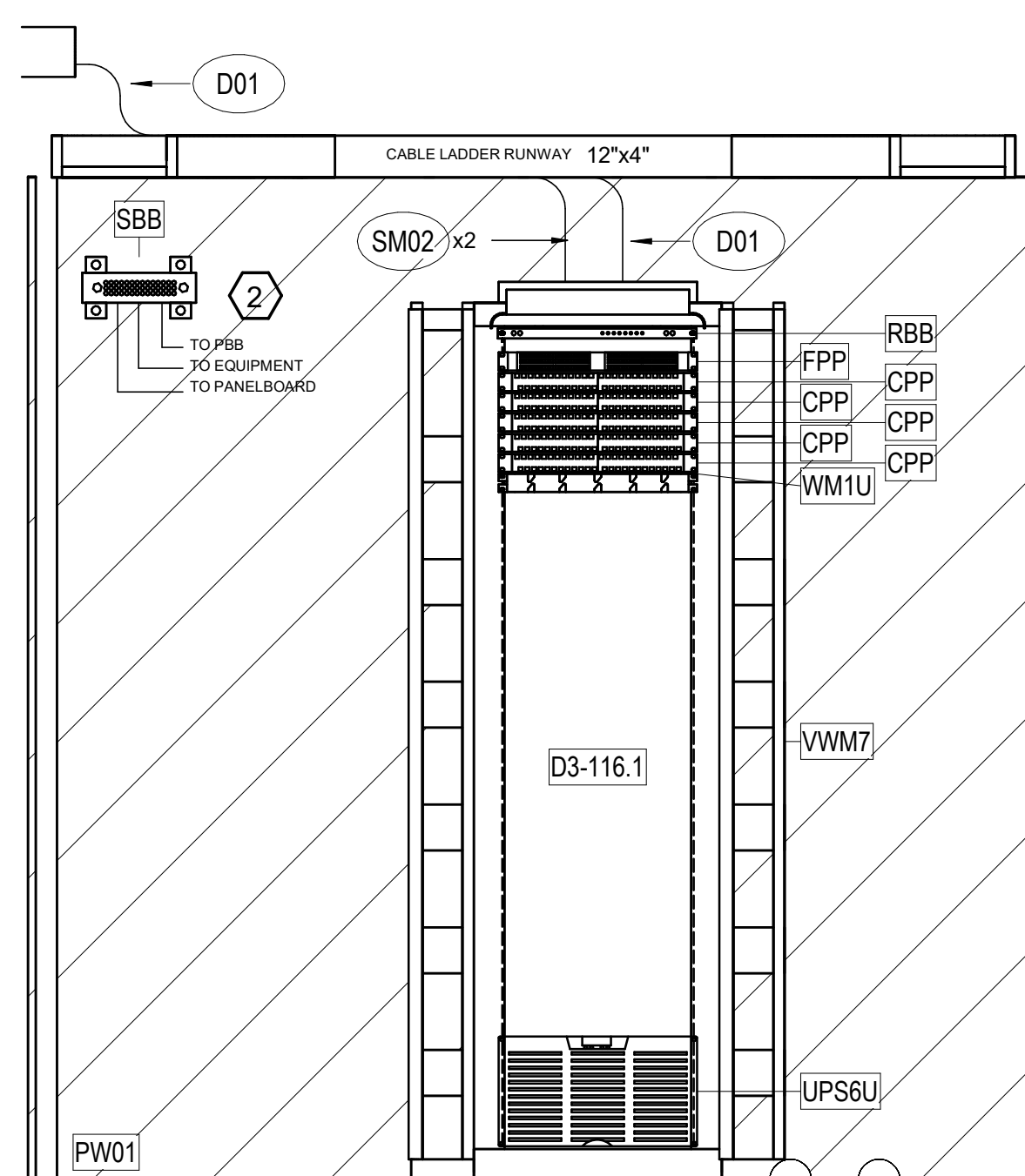
TR D3-116 EQUIPMENT SCHEDULE	
EQUIP TYPE	DESCRIPTION
CHRK	12"x4" CABLE LADDER RUNWAY OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
PW01	3/4" THICK, FIRE RATED, 3/4" X 4" X 8' AC GRADE PLYWOOD.
SBB	ANSI/ EIA/ TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB).
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE

TR D3-116 TELECOM OUTLET SCHEDULE				
OUTLET TYPE	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE U 1
T2 WAP	WIRELESS	(2) CAT 6 UTP CABLES FOR UNCLASSIFIED NETWORK	TR D3-116	6
T3	UNCLASSIFIED	(3) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR D3-116	105
T4	UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR D3-116	48
TR D3-116: 50				159
OUTLET TOTAL: 50				159

TR D3-116 EQUIPMENT RACK SCHEDULE						
RACK ID	EQUIPMENT DESIGNATION	NETWORK	DESCRIPTION	RACK SPACES	COPPER PORTS	FIBER STRANDS
D3-116.1	CHRK	UNCLASSIFIED	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45		
D3-116.1	CPP		CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
D3-116.1	CPP		CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
D3-116.1	CPP		CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
D3-116.1	CPP		CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
D3-116.1	FPP		ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
D3-116.1	RBB		1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1		
D3-116.1	UPS6U	UNCLASSIFIED	5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6		
D3-116.1	VWM7		OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE			
D3-116.1	VWM7		OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE			
D3-116.1	WM1U		WIRE MANAGEMENT - 1U HORIZONTAL	1		



F1 ENLARGED PLAN - TR D3-116
SCALE: 1/2" = 1'-0"



F4 TR D3-116 RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>CONSULTANT Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD Atriax, plc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP REGISTERED COMMUNICATIONS DISTRIBUTION TECHNICIAN Bicsi RES-1076-219954 Expires 03-25-25 RCD 03/08/24</p>	<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title BLDG 137 - ENLARGED PLANS & ELEV. - TR D3-116</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>		
					<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number 137</p>		
							<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>	<p>Drawing Number TN445</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (E.G. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

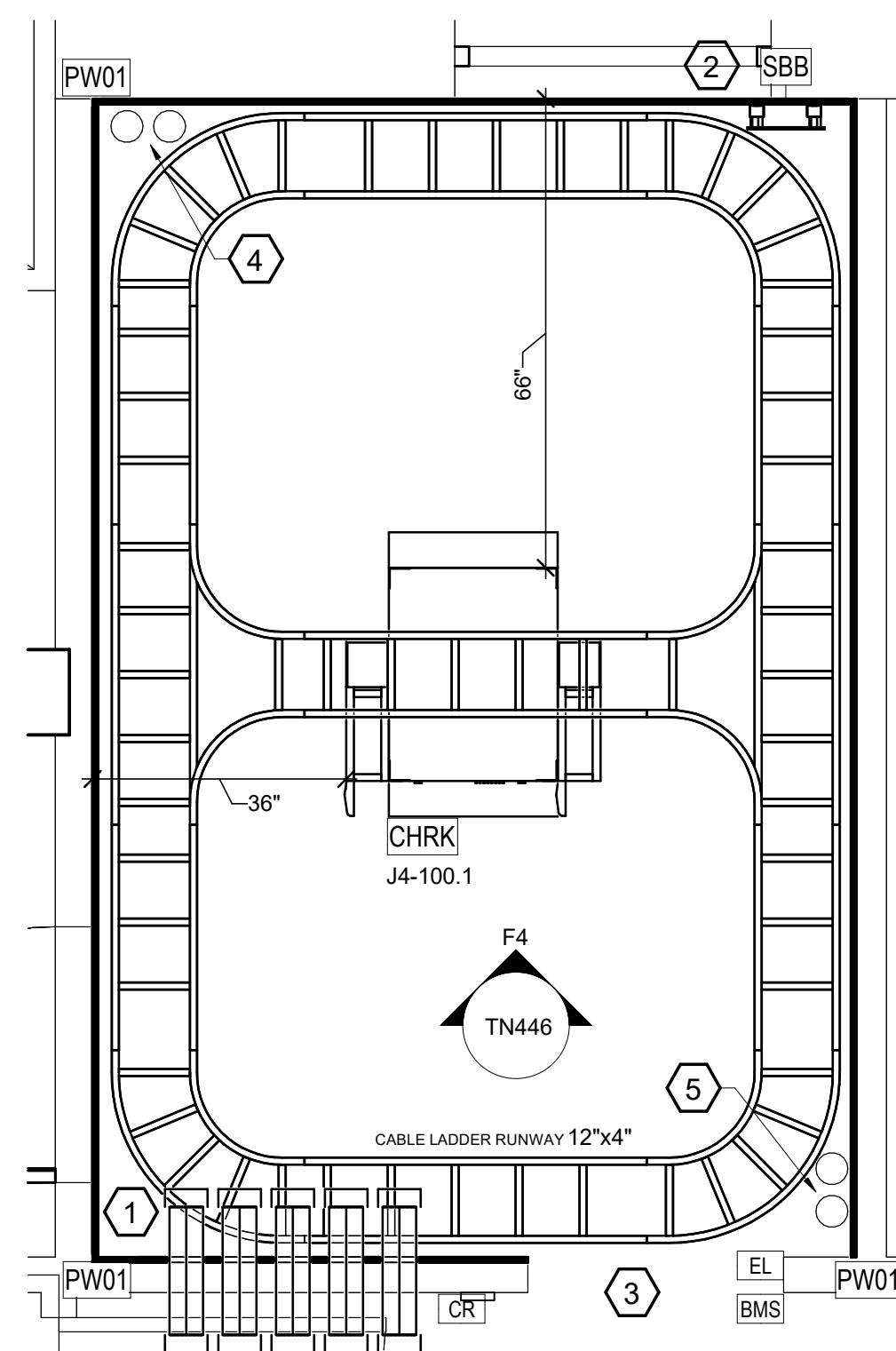
KEYNOTES:

- 1. PROVIDE (5) 4" EMT CONDUIT SLEEVES FROM TR J4-100 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. (2) 4" CONDUITS THROUGH FLOOR AND ROUTED TO LEVEL 03 TR H3-103 FOR BACKBONE FIBER PATHWAY.
- 5. (2) 4" CONDUITS THROUGH FLOOR AND ROUTED TO LEVEL 03 TR H3-103 FOR BACKBONE FIBER PATHWAY.

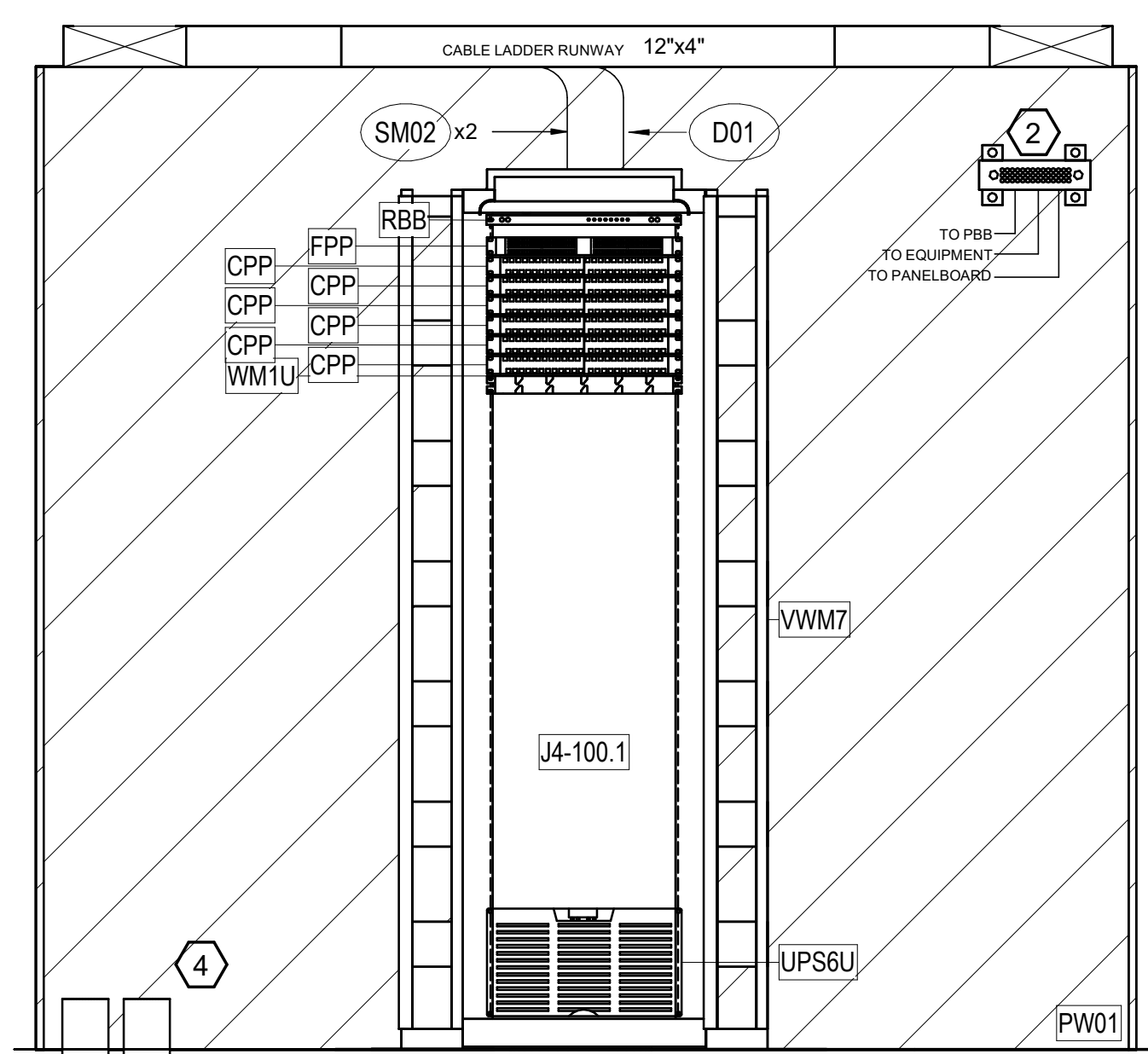
TR J4-100 EQUIPMENT SCHEDULE	
EQUIP TYPE	DESCRIPTION
CHRK	12"x4" CABLE LADDER RUNWAY OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
SBB	ANSI/ EIA/ TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB).
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE

TR J4-100 TELECOM OUTLET SCHEDULE				
OUTLET TYPE	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE U 1
T2 WAP	WIRELESS	(2) CAT 6 UTP CABLES FOR UNCLASSIFIED NETWORK	TR J4-100	20
T4	UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR J4-100	184
W	UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR J4-100	4
TR J4-100: 57				208
OUTLET TOTAL: 57				208

TR J4-100 EQUIPMENT RACK SCHEDULE						
RACK ID	EQUIPMENT DESIGNATION	NETWORK	DESCRIPTION	RACK SPACES	COPPER PORTS	FIBER STRANDS
J4-100.1	CHRK	UNCLASSIFIED	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45		
J4-100.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
J4-100.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
J4-100.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
J4-100.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
J4-100.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
J4-100.1	FPP	UNCLASSIFIED	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
J4-100.1	RBB		1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1		
J4-100.1	UPS6U	UNCLASSIFIED	5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6		
J4-100.1	VWM7		OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE			
J4-100.1	VWM7		OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE			
J4-100.1	WM1U	UNCLASSIFIED	WIRE MANAGEMENT - 1U HORIZONTAL	1		



F1 ENLARGED PLAN - TR J4-100
SCALE: 1/2" = 1'-0"



F4 TR J4-100 RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>Date:</p>	<p>CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD Atriax www.atriaxgroup.com Atriax, plc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION ENGINEER BICSI 107 239534 Expires 03-25-25 RCD 03/08/24</p>	<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title BLDG 137 - ENLARGED PLANS & ELEV. - TR J4-100</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>	
							<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number 137</p>	
								<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>	<p>Drawing Number TN446</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 90 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

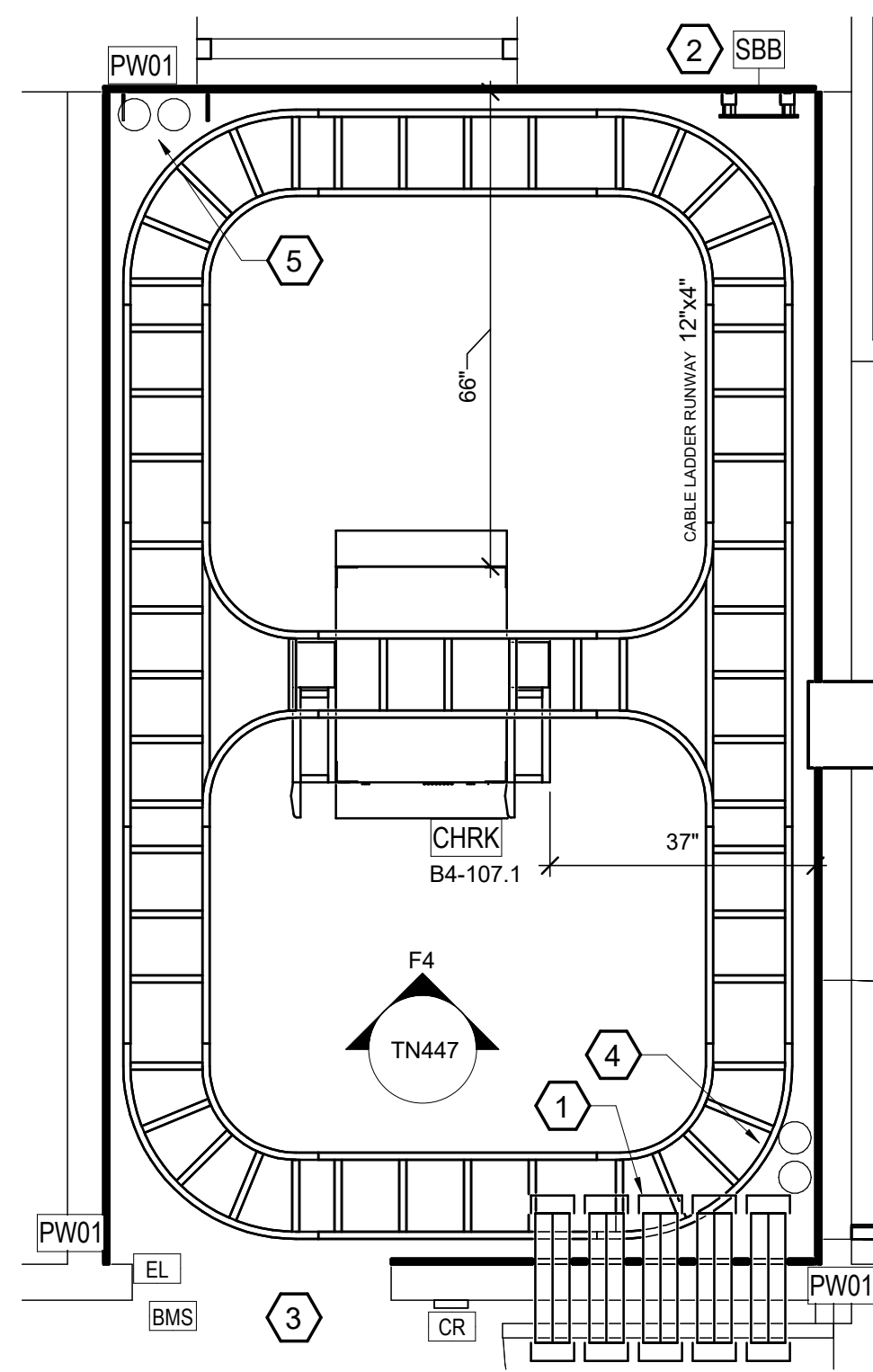
KEYNOTES:

- 1. PROVIDE (5) 4" EMT CONDUIT SLEEVES FROM TR B4-107 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR, SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. (2) 4" CONDUITS THROUGH FLOOR AND ROUTED TO LEVEL 03 TR D3-116 FOR BACKBONE FIBER PATHWAY.
- 5. (2) 4" CONDUITS THROUGH FLOOR AND ROUTED TO LEVEL 03 TR D3-116 FOR BACKBONE FIBER PATHWAY.

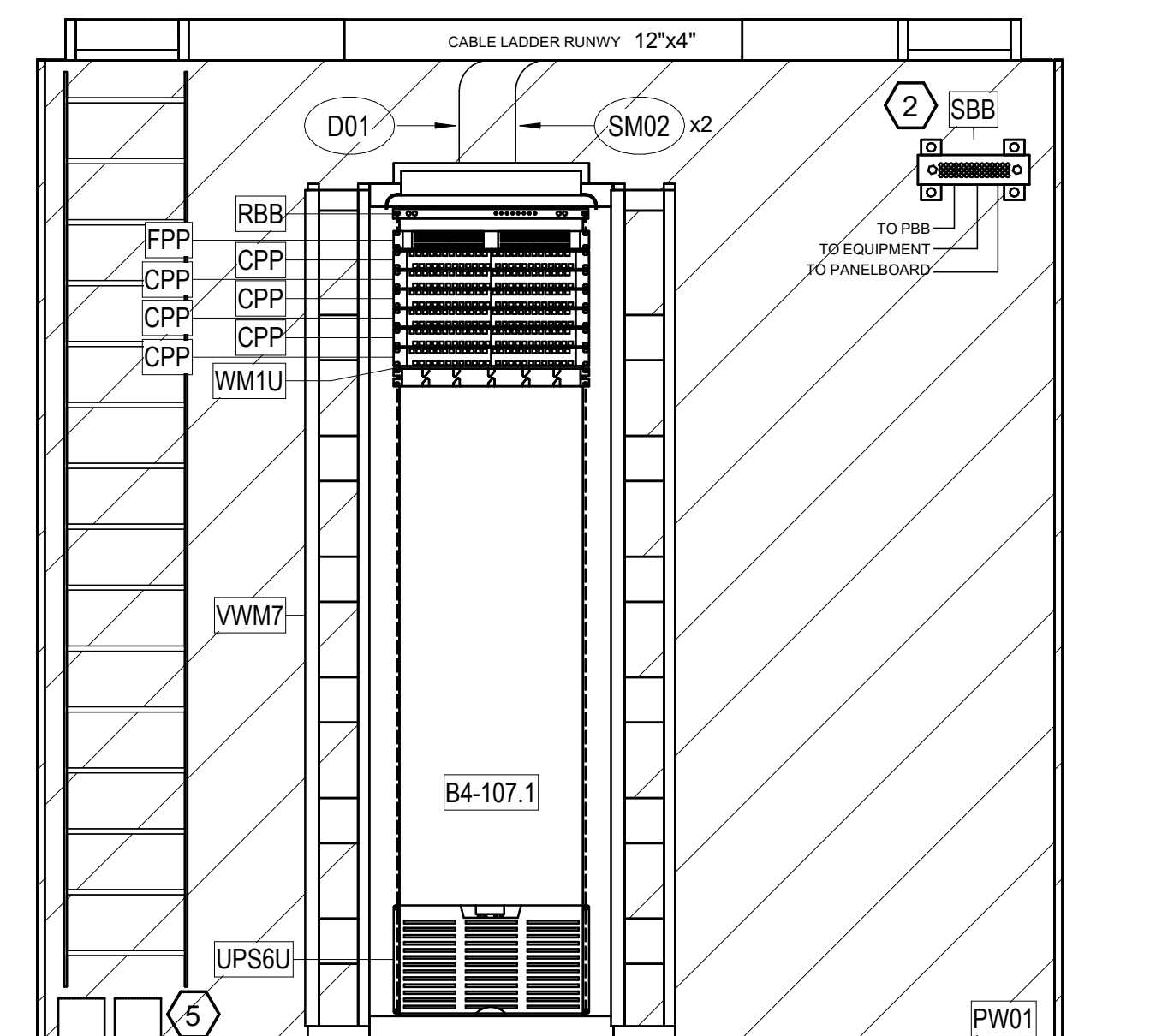
TR B4-107 EQUIPMENT SCHEDULE	
EQUIP TYPE	DESCRIPTION
CHRK	12"x4" CABLE LADDER RUNWAY
PW01	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1, WHITE FINISH OR EQUIVALENT.
SBB	ANSI/ EIA/ TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB).
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE

TR B4-107 TELECOM OUTLET SCHEDULE				
OUTLET TYPE	NETWORK_ID	DESCRIPTION	ID/FTR ROOM NAME AND NUMBER	CABLE_U_1
T1	UNCLASSIFIED	(1) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR B4-107	2
T2 WAP	WIRELESS	(2) CAT 6 UTP CABLES FOR UNCLASSIFIED NETWORK	TR B4-107	22
T4	UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR B4-107	172
W	UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR B4-107	4
TR B4-107: 57				200
OUTLET TOTAL: 57				200

TR B4-107 EQUIPMENT RACK SCHEDULE						
RACK_ID	EQUIPMENT DESIGNATION	NETWORK	DESCRIPTION	RACK SPACES	COPPER PORTS	FIBER STRANDS
B4-107.1	CHRK	UNCLASSIFIED	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1, WHITE FINISH OR EQUIVALENT.	45		
B4-107.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
B4-107.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
B4-107.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
B4-107.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
B4-107.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
B4-107.1	FPP	UNCLASSIFIED	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
B4-107.1	RBB		1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1		
B4-107.1	UPS6U	UNCLASSIFIED	5 kW 208V w/20A 5W IN/SW OUT, TWO INTERNAL BATTERY STRING	6		
B4-107.1	VWM7		OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE			
B4-107.1	VWM7		OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE			
B4-107.1	WM1U	UNCLASSIFIED	WIRE MANAGEMENT - 1U HORIZONTAL	1		



F1 ENLARGED PLAN - TR B4-107
SCALE: 1/2" = 1'-0"



F4 TR B4-107 RACK ELEVATION
SCALE: 3/4" = 1'-0"

Revisions:	Date:

CONSULTANT

WileyWilson
127 Nationwide Drive
Lynchburg, VA 24502
Phone: 434.947.1901
www.wileywilson.com

SPECIALIZED ENGINEERING SOLUTIONS
Specialized Engineering Solutions
1300 Baxter Street, Suite 355
Charlotte, NC 28204

ARCHITECT/ENGINEER OF RECORD

Atriax
www.atriaxgroup.com

Atriax, pllc
703 Main Avenue SW
PO Box 16229, Hickory, NC 28603
Phone: 828.315.9962
Fax: 828.315.9964

NC Engineering License No.: P-0214
NC Architectural License No.: 51254

Bicsi
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICS1101623954
Expires 03/31/25
RCDD
03/08/24

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
BLDG 137 - ENLARGED PLANS & ELEV. - TR B4-107

Approved: Chief Engineer

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE UPGRADES

Location
TUSCALOOSA VAMC, TUSCALOOSA, AL.

Issue Date
03/08/2024

Checked
JMM

Drawn
JEH

Project Number
679-20-104

Building Number
137

Drawing Number
TN447

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM IT'S TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

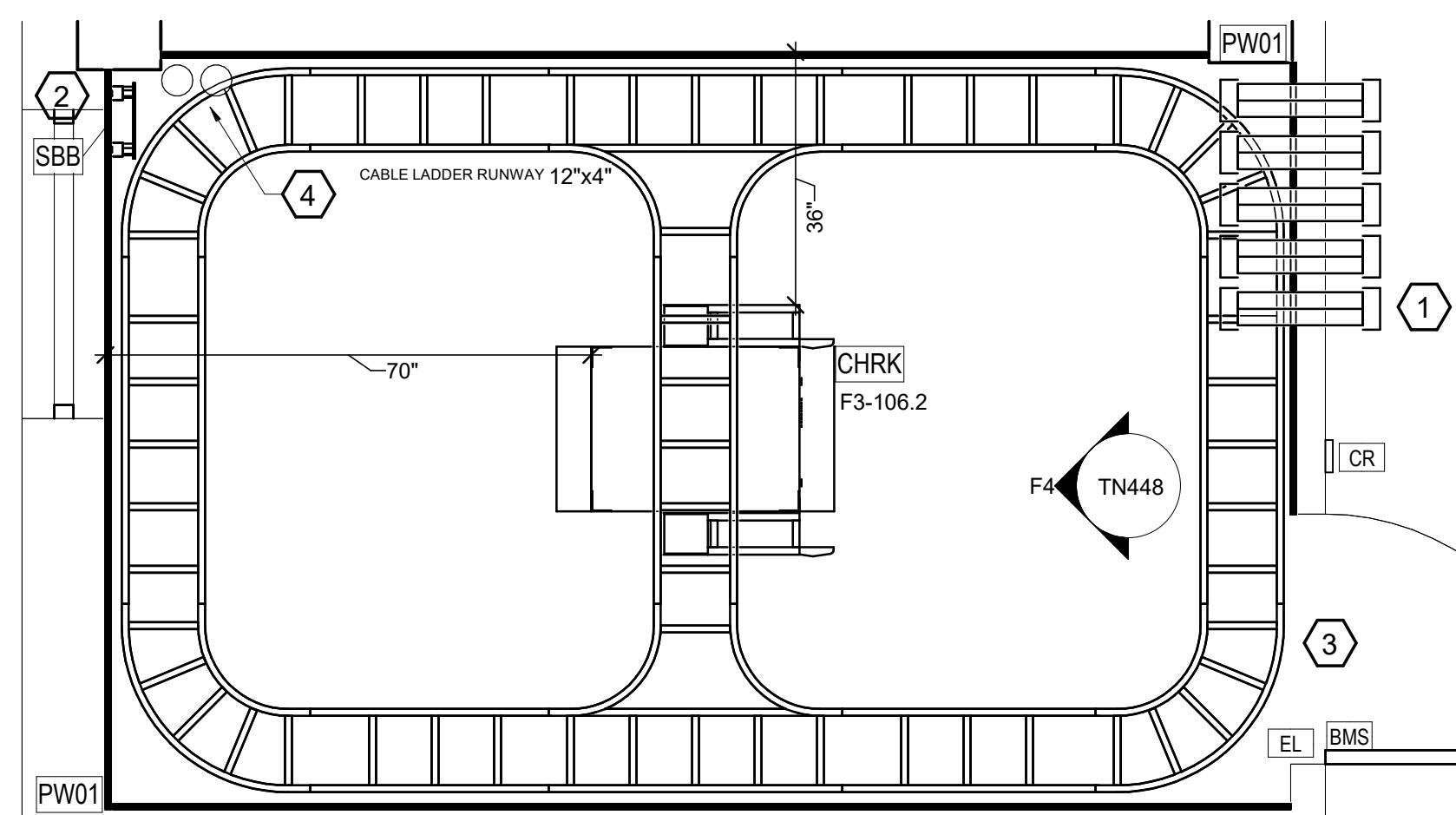
(#) KEYNOTES:

- 1. PROVIDE (5) 4" EMT CONDUIT SLEEVES FROM TR F3-106.2 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR, SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. (2) 4" SLEEVES THROUGH FLOOR INTO LEVEL 03 TR F3-106 FOR BACKBONE FIBER PATHWAY.

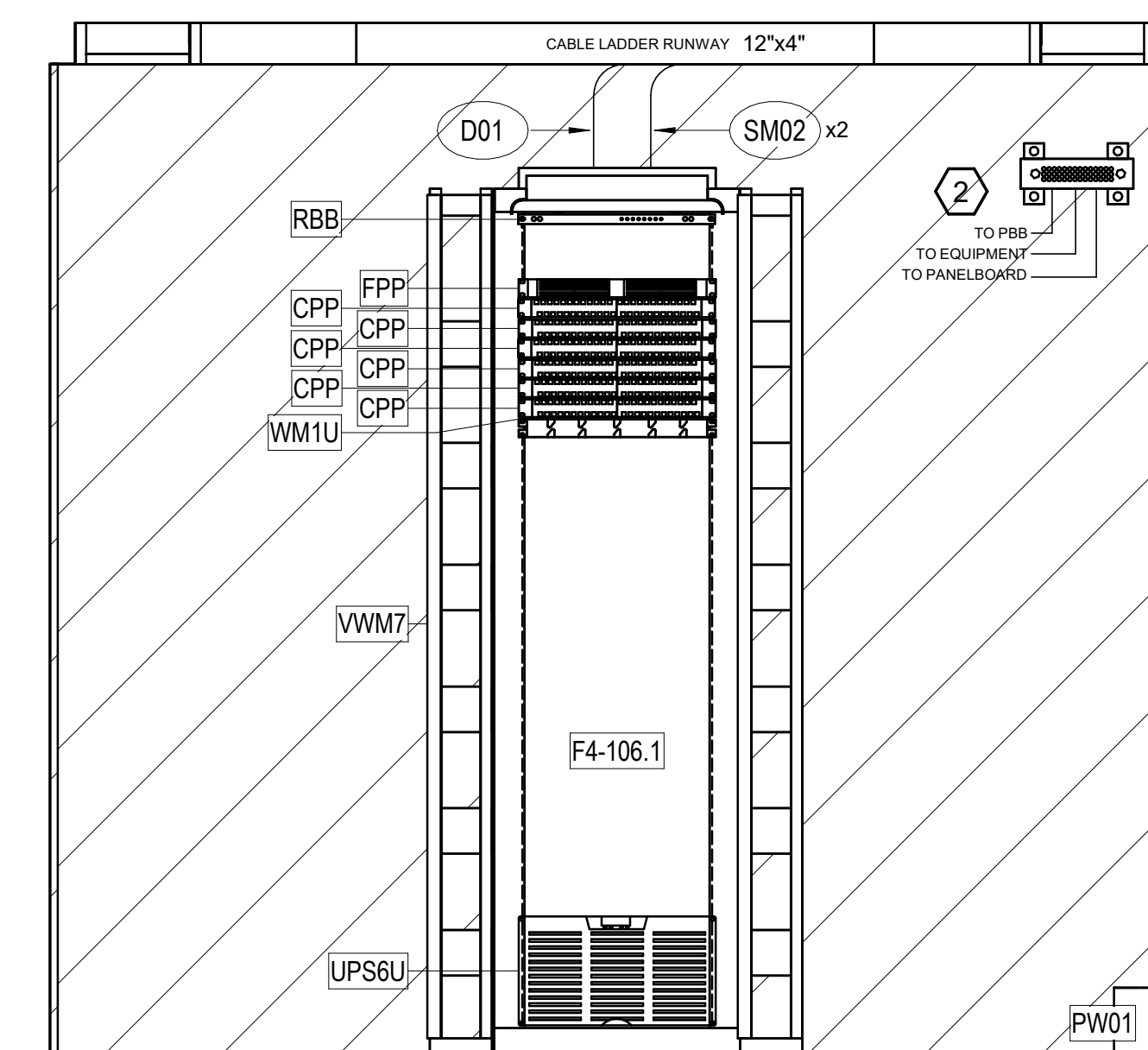
TR F3-106.2 TELECOM OUTLET SCHEDULE					
OUTLET TYPE	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE U. 1	
T2 WAP	WIRELESS	(2) CAT 6 UTP CABLES FOR UNCLASSIFIED NETWORK	TR F3-106.2	26	
T4	UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR F3-106.2	168	
W	UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR F3-106.2	4	
TR F3-106.2: 56				198	
OUTLET TOTAL: 56				198	

TR F4-106 EQUIPMENT SCHEDULE	
EQUIP TYPE	DESCRIPTION
CHRK	12"x4" CABLE LADDER RUNWAY OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
SBB	ANSI/EIA/TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB).
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE

TR F4-106 EQUIPMENT RACK SCHEDULE						
RACK ID	EQUIPMENT DESIGNATION	NETWORK	DESCRIPTION	RACK SPACES	COPPER PORTS	FIBER STRANDS
F4-106.1	CHRK	UNCLASSIFIED	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45		
F4-106.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
F4-106.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
F4-106.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
F4-106.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
F4-106.1	CPP	UNCLASSIFIED	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
F4-106.1	FPP	UNCLASSIFIED	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
F4-106.1	RBB		1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1		
F4-106.1	UPS6U	UNCLASSIFIED	5 KW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6		
F4-106.1	VWM7		OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE			
F4-106.1	VWM7		OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE			
F4-106.1	WM1U	UNCLASSIFIED	WIRE MANAGEMENT - 1U HORIZONTAL	1		



F1 ENLARGED PLAN - TR F4-106
SCALE: 1/2" = 1'-0"



F4 TR F4-106 RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION TECHNICIAN BICSI 107 23954 Expires 03-31-25 RCD 03/08/24</p>	<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title BLDG 137 - ENLARGED PLANS & ELEV. - TR F4-106</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>		
					<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number 137</p>		
							<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>	<p>Drawing Number TN448</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN00 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 900.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR's SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

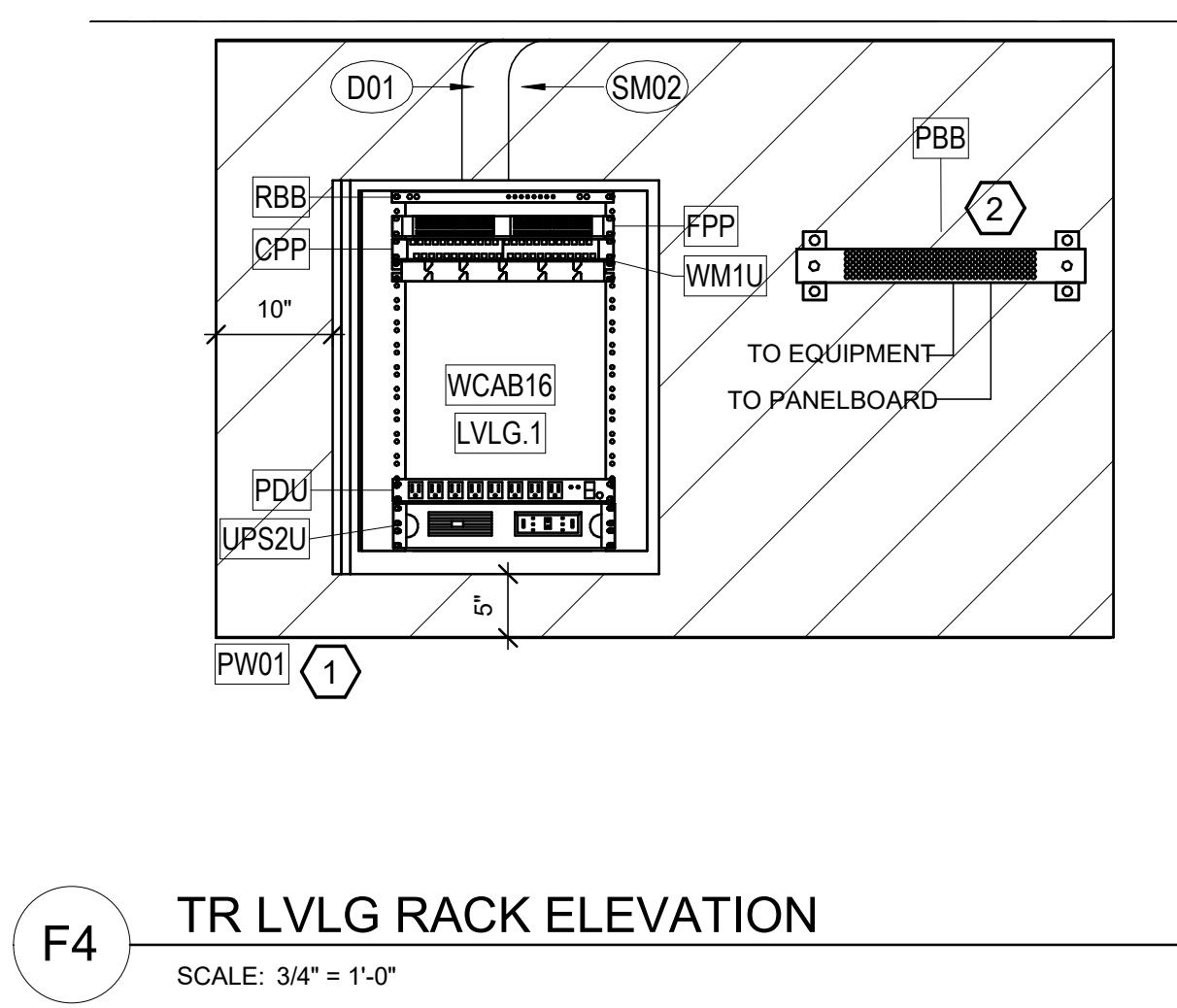
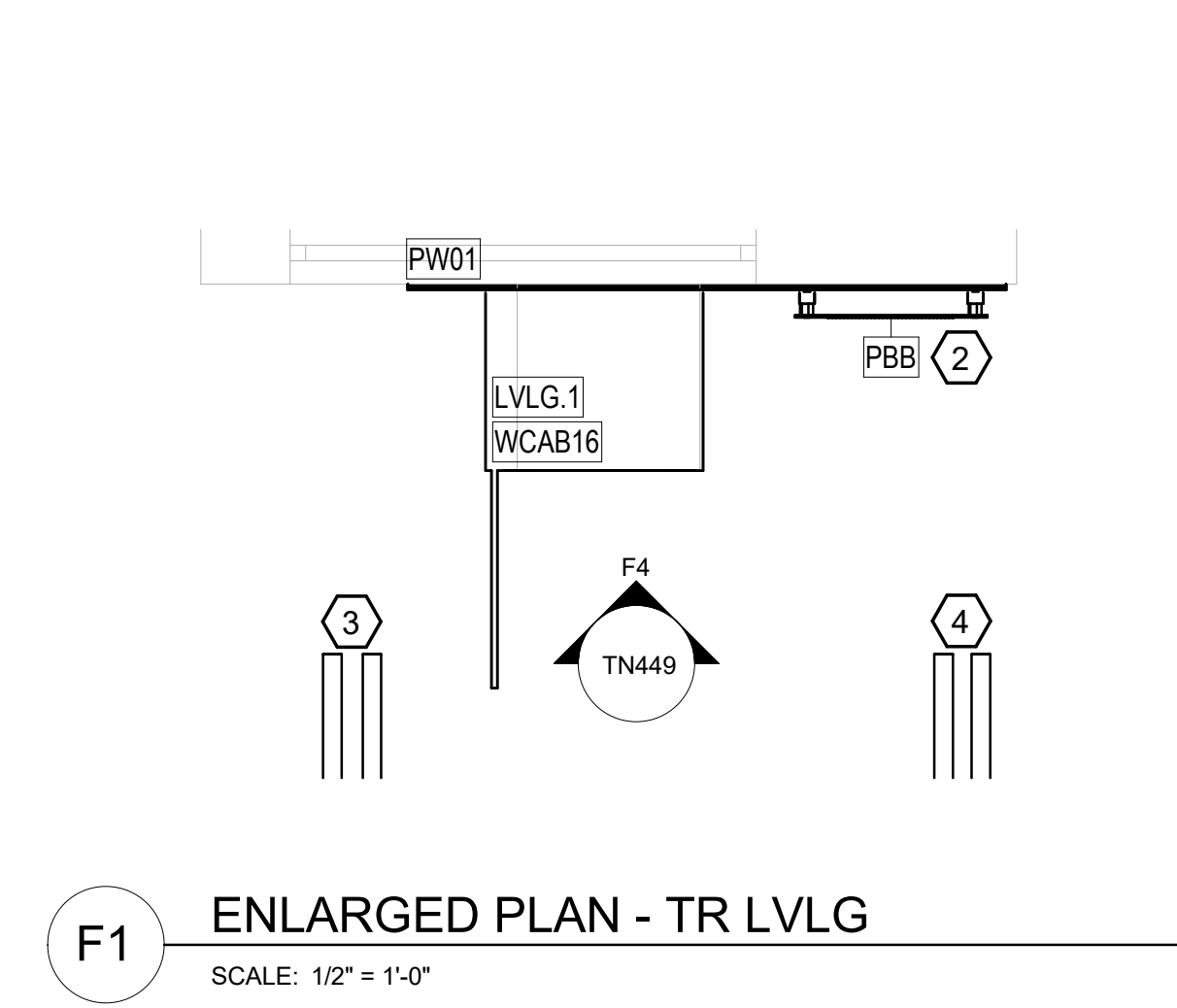
KEYNOTES:

- 1. PROVIDE 6"W X 4"H PLYWOOD PANEL FOR EQUIPMENT MOUNTING. PLYWOOD TO MOUNT ABOVE OFFICE WINDOW.
- 2. PRIMARY BONDING BUSBAR. SEE DETAIL F8 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. EXTEND (2) 4" CONDUITS TO TMH18 FOR BACKBONE FIBER PATHWAYS. SEE SHEET TN38.9 FOR CONDUIT CONTINUATION TO EXTERIOR OF BUILDING.
- 4. EXTEND (2) 4" CONDUITS TO TMH19 FOR BACKBONE FIBER PATHWAYS. SEE SHEET TN38.9 FOR CONDUIT CONTINUATION TO EXTERIOR OF BUILDING.

TR LVLG EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
WCAB16	WALL MOUNT CABINET - 16 RU SWING-OUT, W/ FANS, INTERNAL GROUND BUSBAR, HINGED AND LOCKABLE TRANSPARENT FRONT DOOR, SWING-OUT FRONT SECTION WITH VENTED REAR SECTION FIXED TO THE WALL, FULL HT FRONT AND REAR VERT. WIRE MGMT BOTH SIDES, SURGE PROTECTED 6 OUTLET (MIN.) HORIZONTAL POWER STRIP. CABINET MUST ADHERE TO SEISMIC REQUIREMENTS IN ACCORDANCE WITH ASCE 7-05 CHAPTER 13.
PBB	TELECOM PRIMARY BONDING BUSBAR.

TELECOM OUTLET SCHEDULE - GROUND LEVEL									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	ID#/TR ROOM NAME AND NUMBER	CABLE U_1	CABLE U_2	CABLE C_1	CABLE C_2	CABLE COLOR
T2		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	<varies>	4	0	0	0	
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	<varies>	8	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	<varies>	32	0	0	0	
14 OUTLET TOTAL: 14					44	0	0	0	
					44	0	0	0	

TR LVLG EQUIPMENT RACK SCHEDULE						
RACK_ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
LVLG.1		WCAB16			WALL MOUNT CABINET - 16 RU SWING-OUT, W/ FANS, INTERNAL GROUND BUSBAR, HINGED AND LOCKABLE TRANSPARENT FRONT DOOR, SWING-OUT FRONT SECTION WITH VENTED REAR SECTION FIXED TO THE WALL, FULL HT FRONT AND REAR VERT. WIRE MGMT BOTH SIDES, SURGE PROTECTED 6 OUTLET (MIN.) HORIZONTAL POWER STRIP. CABINET MUST ADHERE TO SEISMIC REQUIREMENTS IN ACCORDANCE WITH ASCE 7-05 CHAPTER 13.	16
LVLG.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
LVLG.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
LVLG.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
LVLG.1		UPS2U			UNINTERRUPTED POWER SUPPLY - 2U RACK MOUNTED	2
LVLG.1		RBB			1U RACK BONDING BUSBAR.	1
LVLG.1		PDU			RACK MOUNT PDU. L5-20 INPUT. NEMA 5-15 OUTPUT. 1 RU	1



<p>CONSULTANT</p> <p>WileyWilson</p> <p>127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p> <p>NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>BLDG 138 - ENLARGED PLANS AND ELEV. - TR LVLG</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>
			<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Drawing Number</p> <p>TN449</p>
<p>Revisions:</p>	<p>Date:</p>	<p>Issue Date</p> <p>03/08/2024</p>	<p>Checked</p> <p>JMM</p>	<p>Drawn</p> <p>JEH</p>	<p>Project Number</p> <p>679-20-104</p>	<p>Building Number</p> <p>138</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 1/2" INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 1/2" INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

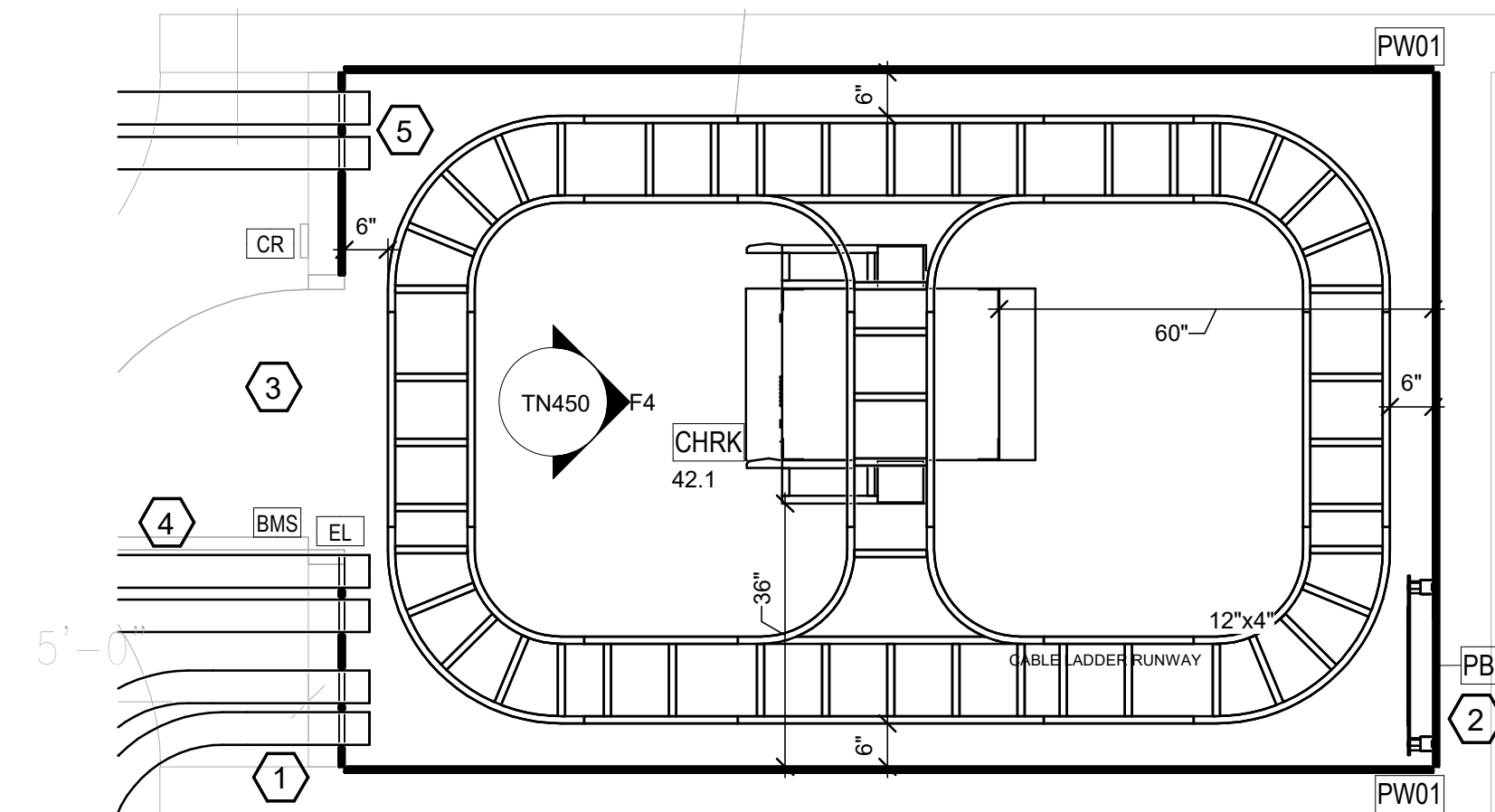
KEYNOTES:

- 1. PROVIDE (2) 1/2" EMT CONDUITS FROM TR 42 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. PRIMARY BONDING BUSBAR, SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACS/SIDS PCU LOCATION.
- 4. (2) 1/2" CONDUITS FROM TMH10 TO TR 42 FOR BACKBONE FIBER PATHWAY. REFER TO SITE PLAN FOR CONDUIT CONTINUATION.
- 5. (2) 1/2" CONDUITS FROM TMH07 TO TR 42 FOR BACKBONE FIBER PATHWAY. REFER TO SITE PLAN FOR CONDUIT CONTINUATION.

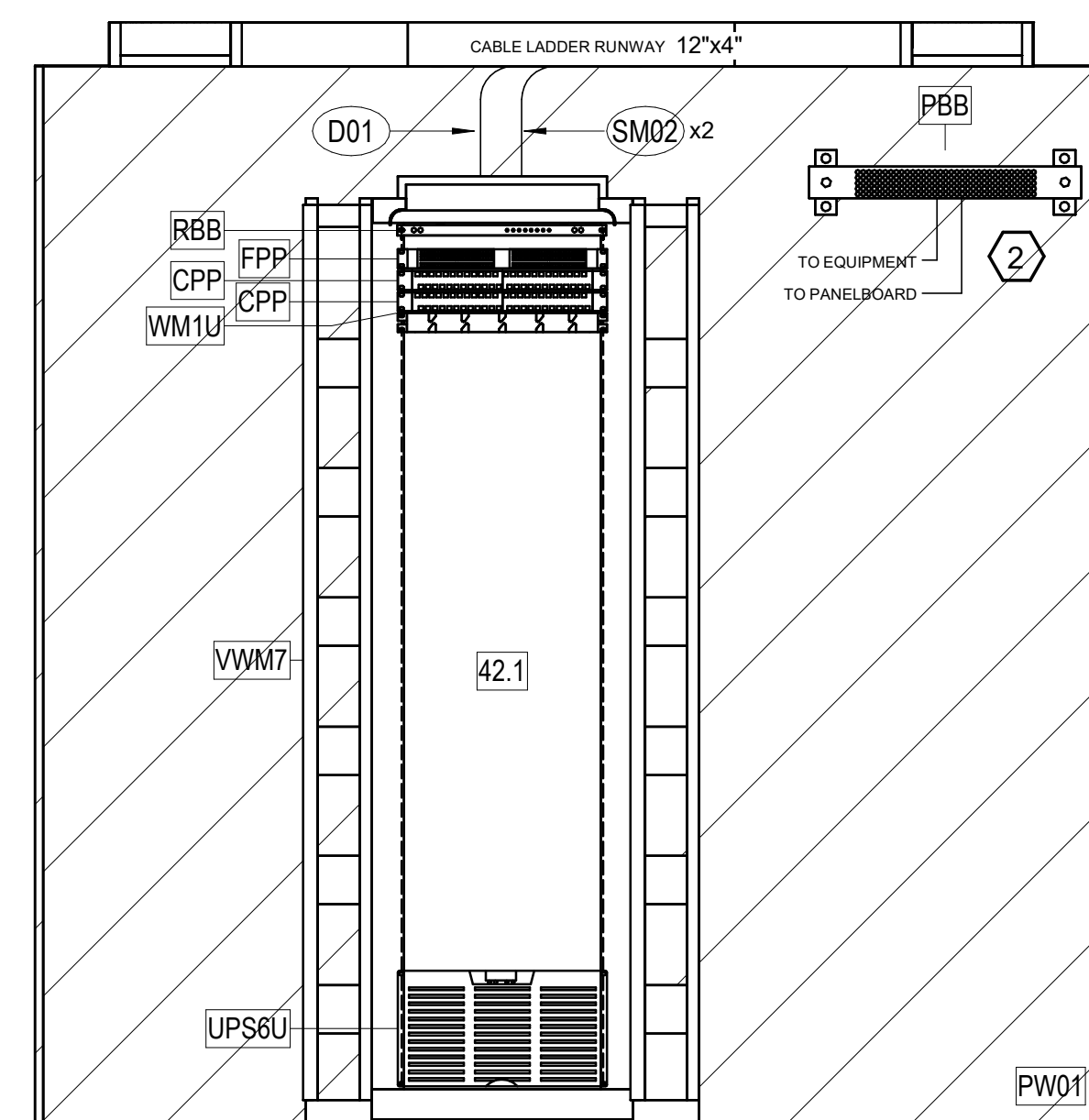
TR 42 EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
PBB	12"x4" CABLE LADDER RUNWAY TELECOM PRIMARY BONDING BUSBAR.

TELECOM OUTLET SCHEDULE - LEVEL 01									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE_U_1	CABLE_U_2	CABLE_C_1	CABLE_C_2	CABLE COLOR
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 42	10	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 42	52	0	0	0	
W		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 42	4	0	0	0	
19					66	0	0	0	
OUTLET TOTAL: 19					66	0	0	0	

TR 42 EQUIPMENT RACK SCHEDULE						
RACK_ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
42.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
42.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
42.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
42.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
42.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
42.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
42.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
42.1		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
42.1		RBB			1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR 42
SCALE: 1/2" = 1'-0"



F4 TR 42 RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>CONSULTANT</p> <p>WileyWilson</p> <p>127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 16229, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p> <p>NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP</p> <p>Bicsi</p> <p>REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER</p> <p>03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>BLDG 143 - ENLARGED PLANS AND ELEV. - TR 42</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>
					<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number</p> <p>143</p>
<p>Revisions:</p>		<p>Date:</p>		<p>Issue Date</p> <p>03/08/2024</p>		<p>Checked</p> <p>JMM</p>	<p>Drawn</p> <p>JEH</p>	<p>Drawing Number</p> <p>TN450</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

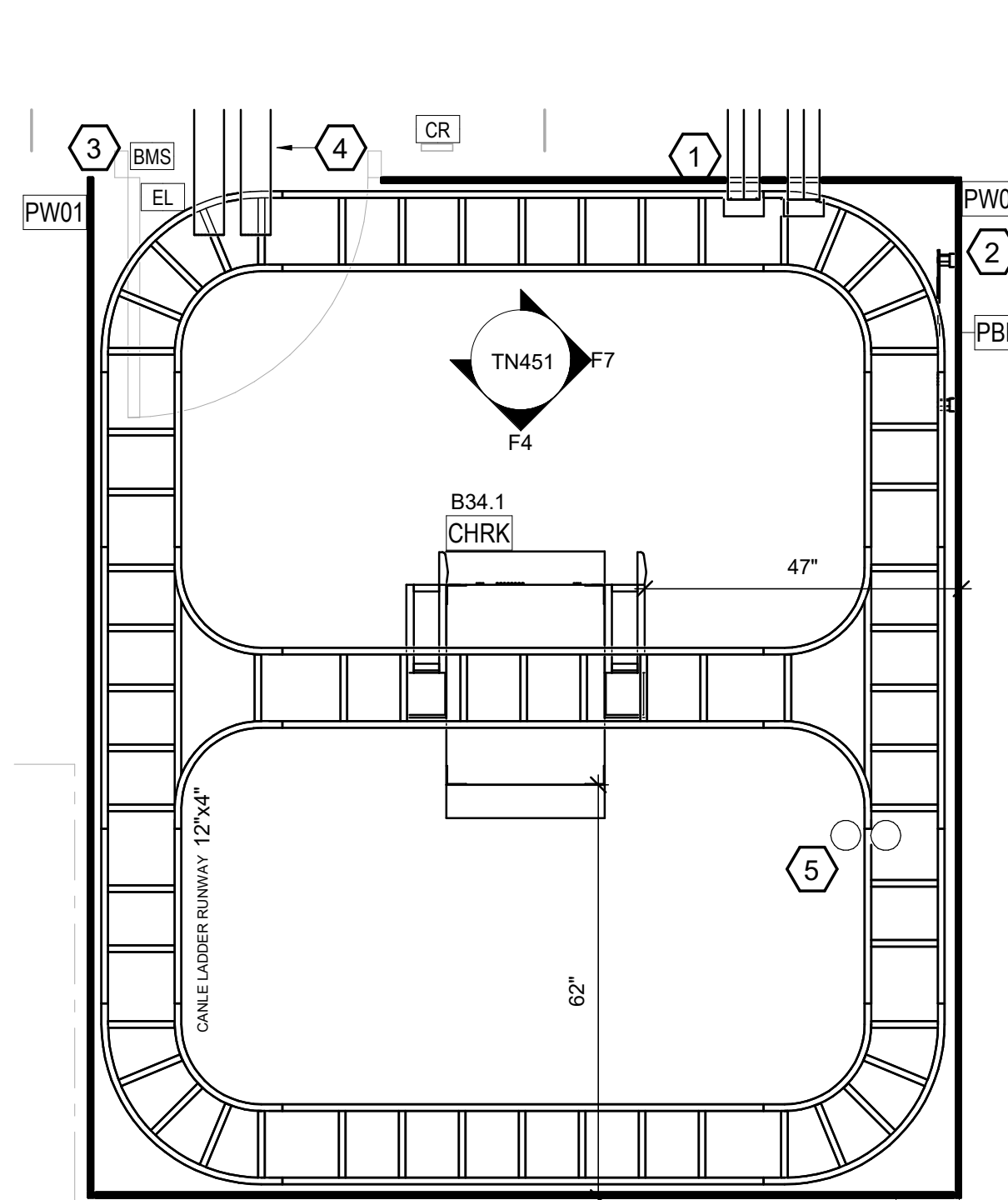
KEYNOTES:

- 1. PROVIDE (2) 4" EMT CONDUITS FROM TR B34 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. PRIMARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. EXTEND (2) 4" CONDUITS FROM TR B34 TO HANDHOLE THH02 FOR PATHWAY TO BUILDING 149 THROUGH THE COURTYARD FOR BACKBONE FIBER PATHWAY BETWEEN BUILDINGS 145 AND 149. REFER TO SITE PLAN FOR CONDUIT CONTINUATION.
- 5. PROVIDE (2) 4" CONDUIT SLEEVES THROUGH CEILING DECK FOR BACKBONE FIBER PATHWAY TO LEVEL 01 TR 129.

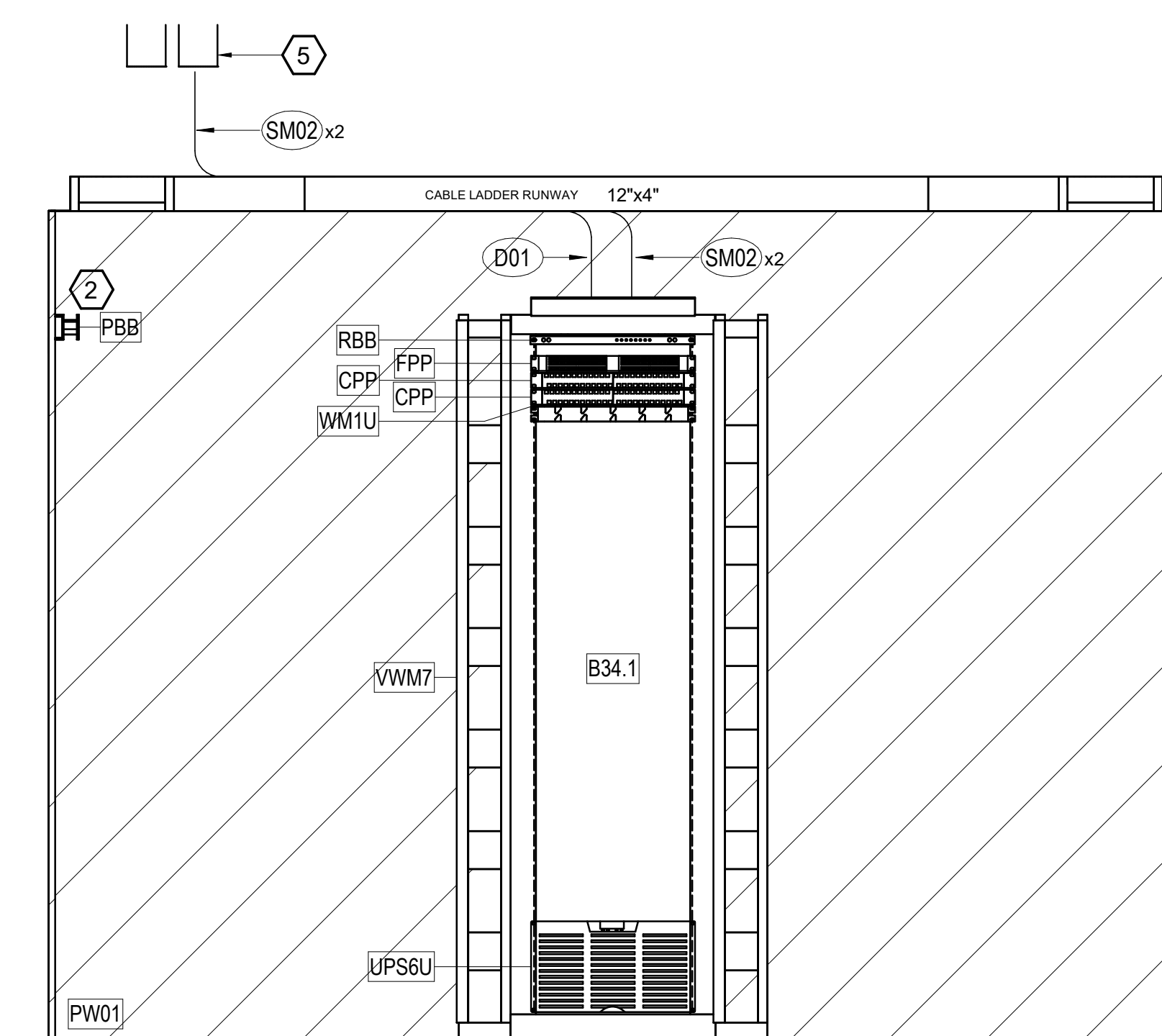
TR B34 EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
CHRK	12"x4" CABLE LADDER RUNWAY OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45' X 10.26' X 84" WHITE
PBB	TELECOM PRIMARY BONDING BUSBAR. 12"x4" CABLE LADDER RUNWAY

TELECOM OUTLET SCHEDULE - BASEMENT LEVEL									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE U_1	CABLE U_2	CABLE C_1	CABLE C_2	CABLE COLOR
		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR B34	6	0	0	0	
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR B34	6	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR B34	28	0	0	0	
W		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR B34	4	0	0	0	
OUTLET TOTAL: 15					46	0	0	0	

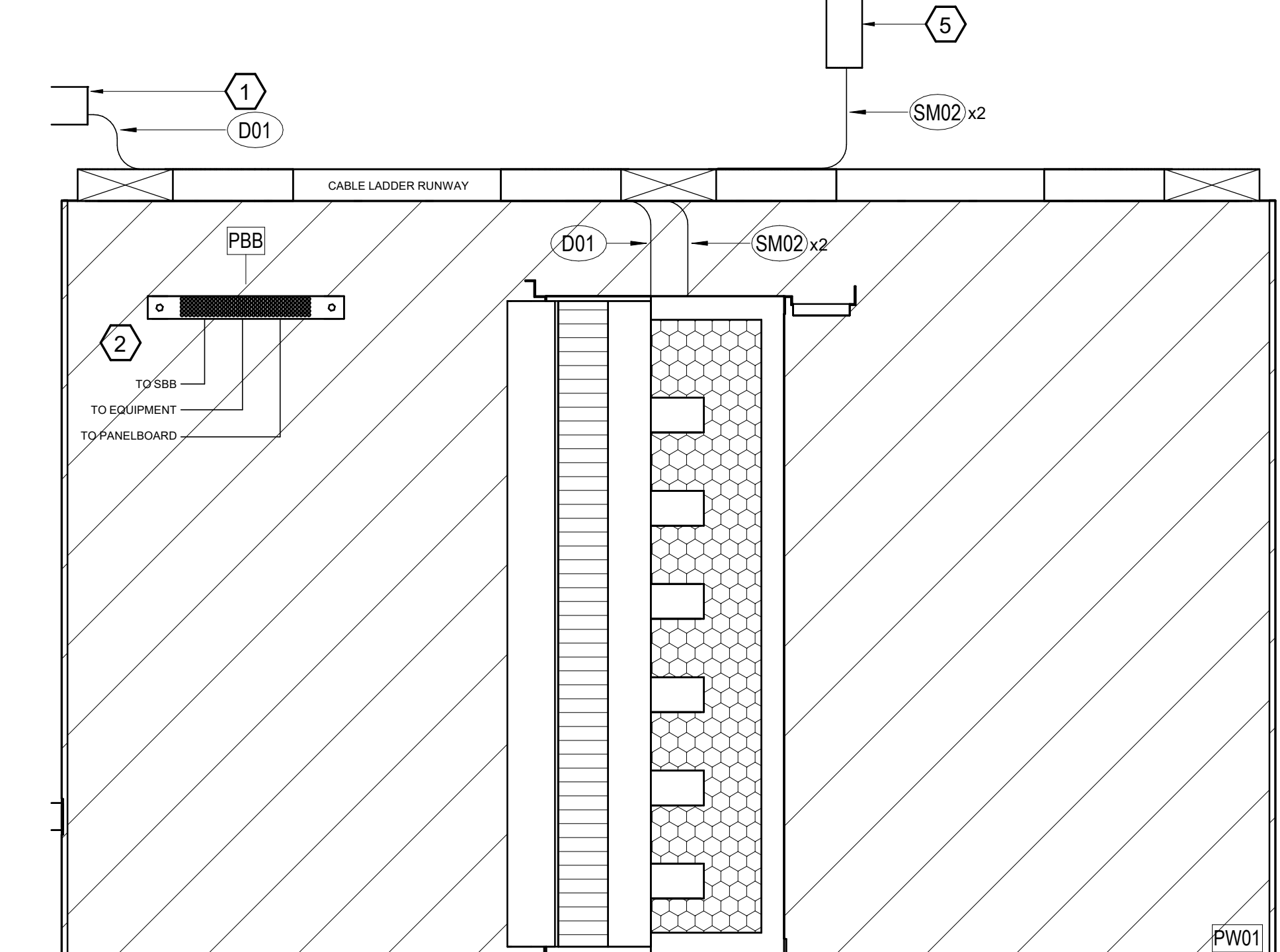
TR B34 EQUIPMENT RACK SCHEDULE						
RACK_ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
B34.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
B34.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45' X 10.26' X 84" WHITE	
B34.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45' X 10.26' X 84" WHITE	
B34.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
B34.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
B34.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
B34.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
B34.1		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
B34.1		RBB			1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR B34
SCALE: 1/2" = 1'-0"



F4 TR B34 RACK ELEVATION
SCALE: 3/4" = 1'-0"



F7 TR B34 EAST WALL ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>CONSULTANT</p> <p>WileyWilson</p> <p>127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>SES</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax</p> <p>www.atriaxgroup.com</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964</p> <p>NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP</p> <p>Bicsi</p> <p>REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER</p> <p>03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>BLDG 145 - ENLARGED PLANS AND ELEV. - TR B34</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>	
						<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number</p> <p>145</p>	
								<p>Issue Date</p> <p>03/08/2024</p>	<p>Drawn</p> <p>JEH</p>	<p>Drawing Number</p> <p>TN451</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM IT'S TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR's SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

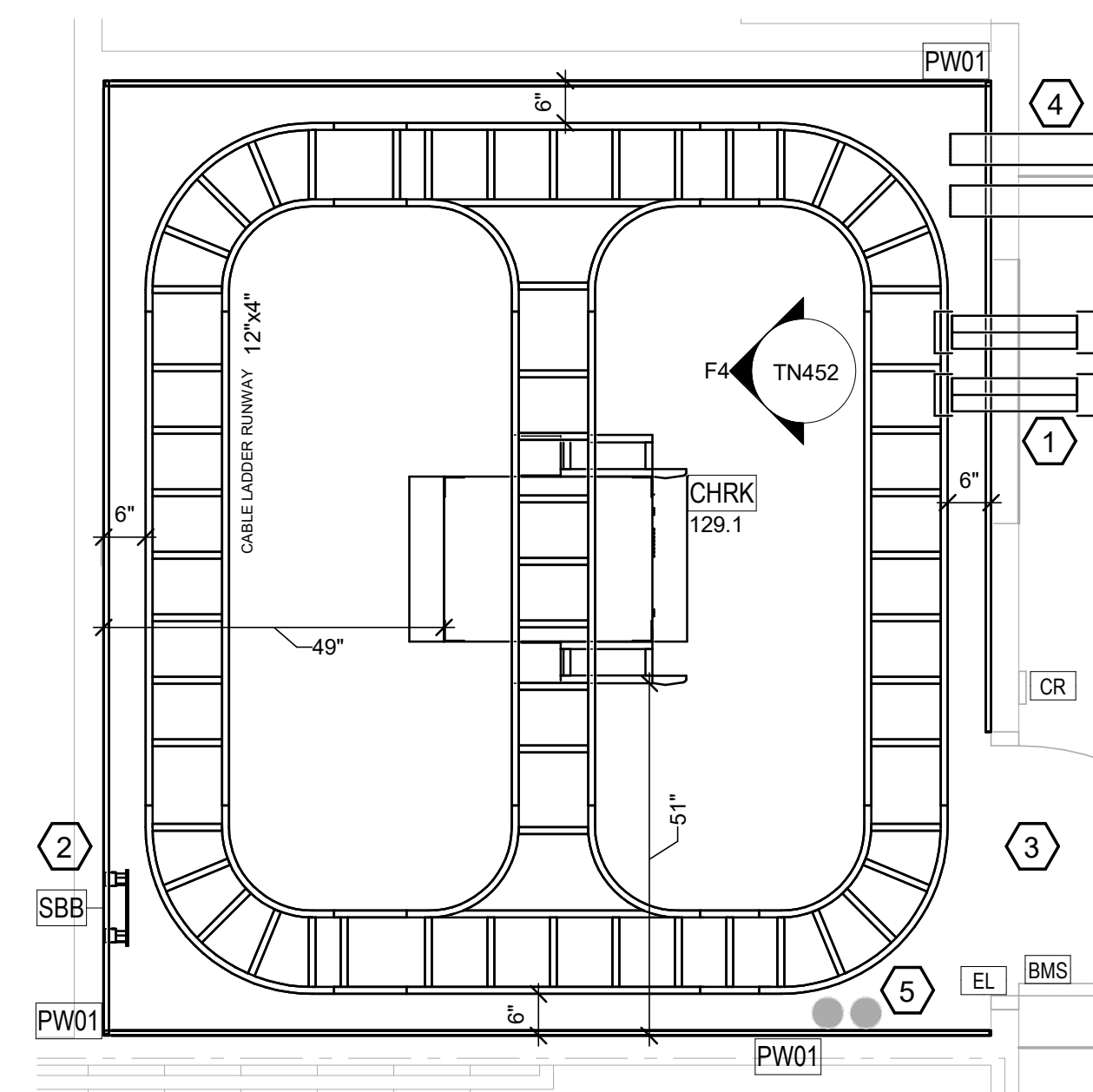
KEYNOTES:

- 1. PROVIDE (2) 4" EMT CONDUITS FROM TR 129 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. SECONDARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. (2) 4" CONDUITS FROM HANDHOLE THH34 TO TR 129 FOR BACKBONE FIBER PATHWAY.
- 5. (2) 4" CONDUIT SLEEVES THROUGH FLOOR FOR BACKBONE FIBER PATHWAY TO BASEMENT TR B34.

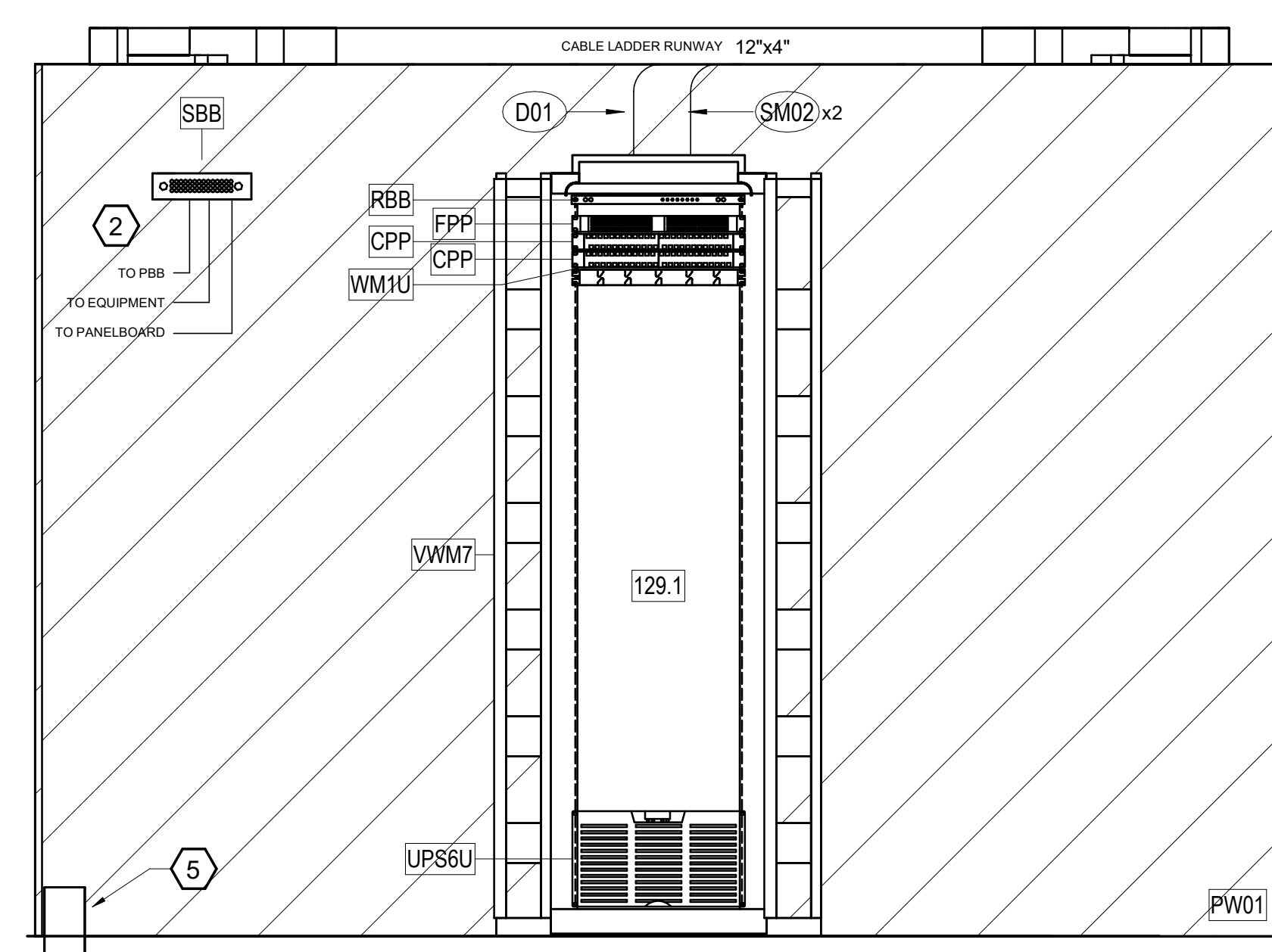
TR 129 EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE.
SBB	12"x4" CABLE LADDER RUNWAY ANSII/EIA/TIA COMPLIANT TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB).

TELECOM OUTLET SCHEDULE - LEVEL 01									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE_U_1	CABLE_U_2	CABLE_C_1	CABLE_C_2	CABLE COLOR
T2		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 129	12	0	0	0	
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 129	16	0	0	0	
T3		UNCLASSIFIED	(3) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 129	6	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 129	28	0	0	0	
W		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 129	8	0	0	0	
:25					70	0	0	0	
OUTLET TOTAL: 25					70	0	0	0	

TR 129 EQUIPMENT RACK SCHEDULE						
RACK_ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
129.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
129.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE.	
129.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE.	
129.1		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
129.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
129.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
129.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
129.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
129.1		RBB			1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR 129
SCALE: 1/2" = 1'-0"



F4 TR 129 RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>Date:</p>	<p>CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD Atriax www.atriaxgroup.com Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP REGISTERED COMMUNICATIONS DISTRIBUTION TECHNICIAN Bicsi BICSI ID # 219954 Expires 03-25-25 RCD 03/08/24</p>	<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title BLDG 145 - ENLARGED PLANS AND ELEV. - TR 129</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>	
							<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number 145</p>	
								<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>	<p>Drawing Number TN452</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM IT'S TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 90 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TRs SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

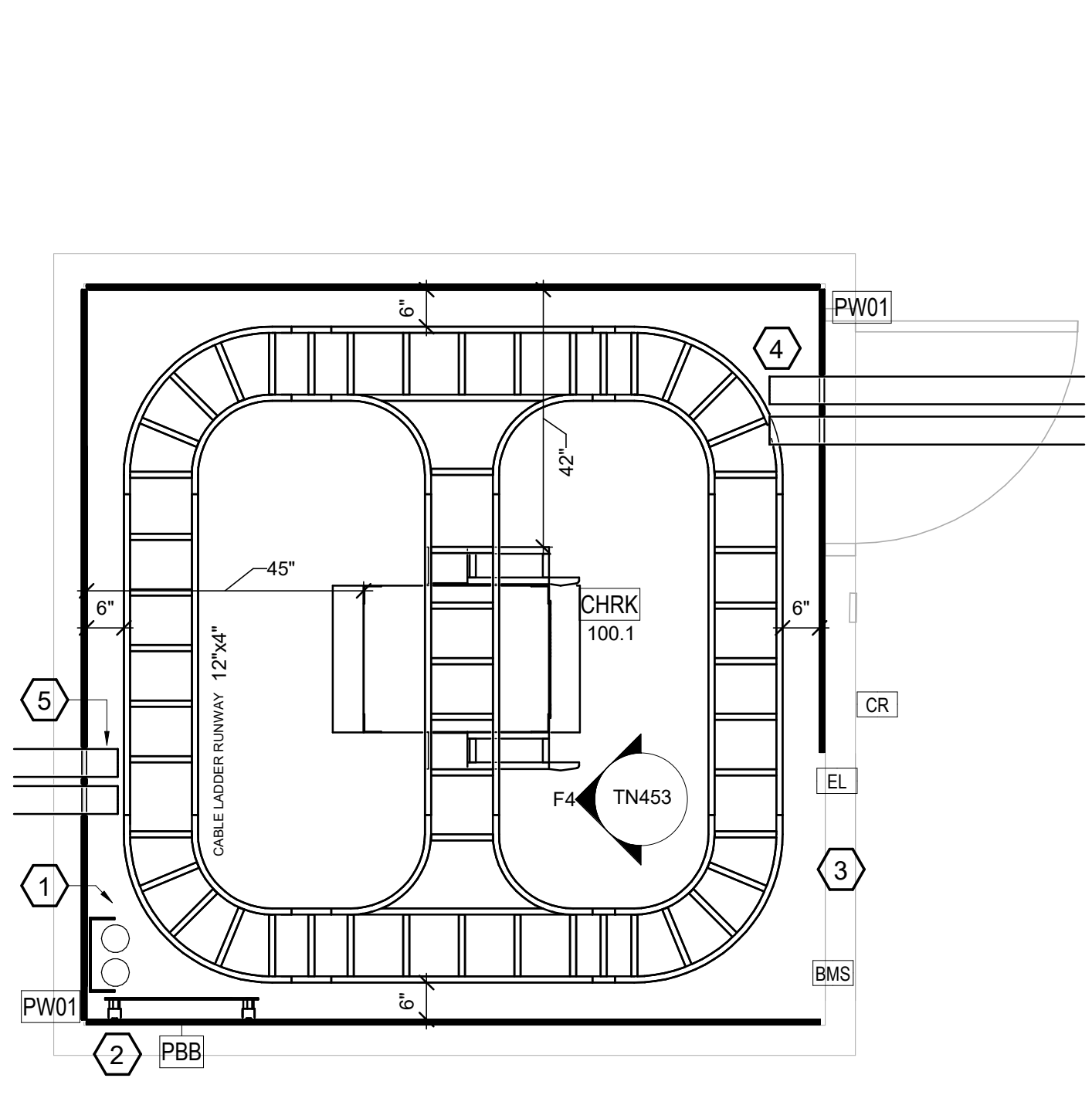
KEYNOTES:

- 1. PROVIDE (2) 4" EMT CONDUIT SLEEVES THROUGH FLOOR FROM TR ATTIC TO LEVEL 01 FOR VERTICAL STRUCTURED CABLING PATHWAY.
- 2. PRIMARY BONDING BUSBAR, SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, SSTV) TO NEW ACS/IDS PCU LOCATION.
- 4. PROVIDE (2) 4" CONDUITS FROM MANHOLE TMH34 TO TR100 FOR BACKBONE FIBER PATHWAY.
- 5. EXTEND (2) 4" CONDUITS FROM TR 100 TO HANDHOLE THH03 FOR PATHWAY TO BUILDING 147 THROUGH THE COURTYARD FOR BACKBONE FIBER PATHWAY BETWEEN BUILDINGS 146 AND 147.

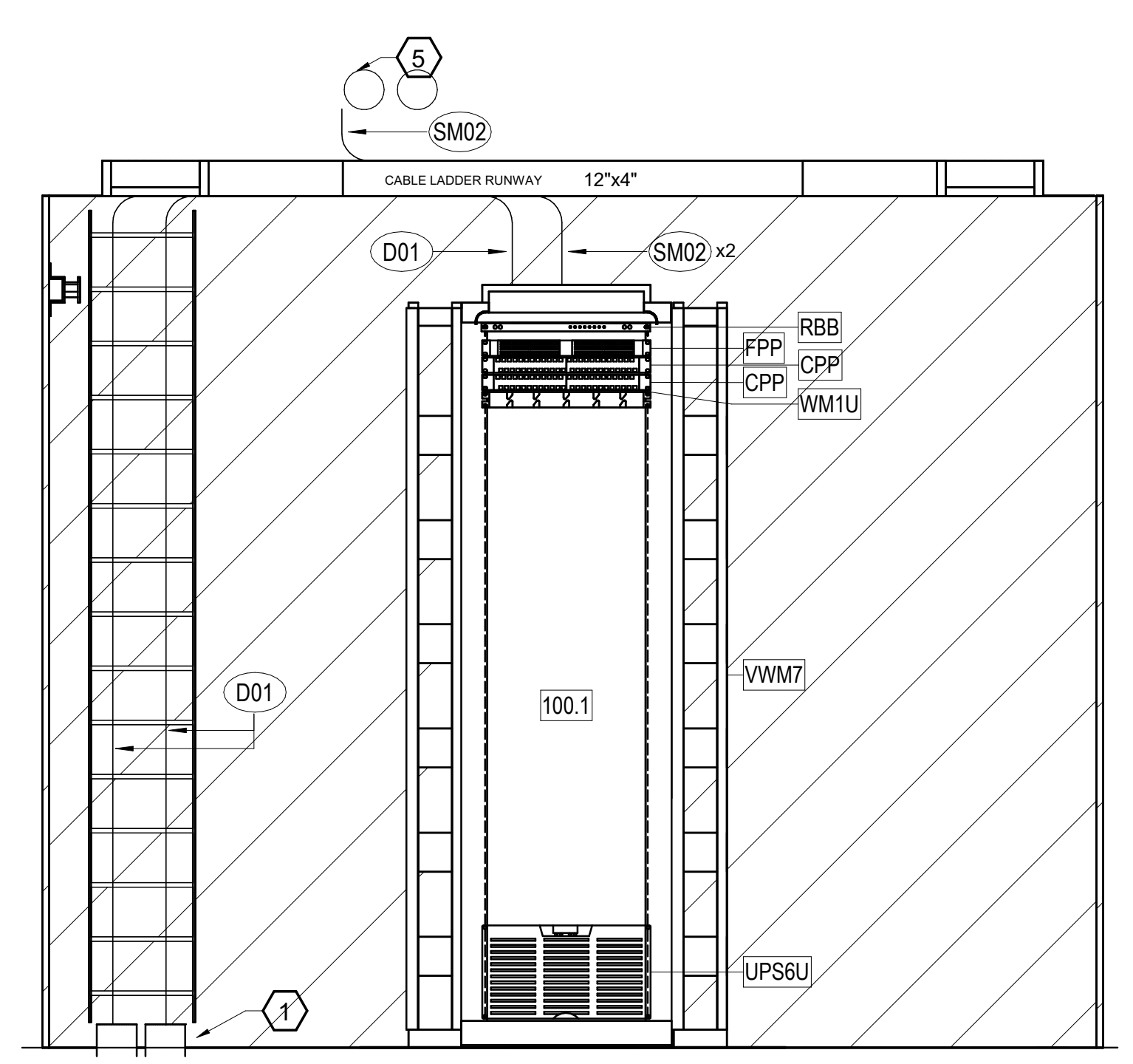
TR 100 EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
	12"x4" CABLE LADDER RUNWAY
PBB	TELECOM PRIMARY BONDING BUSBAR.

TELECOM OUTLET SCHEDULE - LEVEL 01									
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE_U_1	CABLE_U_2	CABLE_C_1	CABLE_C_2	CABLE COLOR
T1		UNCLASSIFIED	(1) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR ATTIC	3	0	0	0	
T2		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR ATTIC	24	0	0	0	
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR ATTIC	12	0	0	0	
T3		UNCLASSIFIED	(3) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR ATTIC	9	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR ATTIC	16	0	0	0	
W		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR ATTIC	4	0	0	0	
29					68	0	0	0	
OUTLET TOTAL: 29					68	0	0	0	

TR 100 EQUIPMENT RACK SCHEDULE						
RACK_ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
100.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
100.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
100.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
100.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
100.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
100.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
100.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
100.1		UPS6U			5 kW 208V w/20A SW IN/SW OUT, TWO INTERNAL BATTERY STRING	6
100.1		RBB			1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT.	1



F1 ENLARGED PLAN - TR 100
SCALE: 1/2" = 1'-0"



F4 TR 100 RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>Date:</p>	<p>CONSULTANT Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 16229, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICS1101623954 Expires 03-31-25 RCD 03/08/24</p>	<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title BLDG 146 - ENLARGED PLANS AND ELEV. TR 100</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>	
							<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number 146</p>	
								<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>	<p>Drawing Number TN453</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING IS INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

KEYNOTES:

- 1. PROVIDE (2) 4" EMT CONDUIT SLEEVES THROUGH FLOOR FROM TR ATTIC TO LEVEL 01 FOR VERTICAL STRUCTURED CABLING PATHWAY.
- 2. PRIMARY BONDING BUSBAR - SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW AC/DC/IS PCS LOCATION.
- 4. PROVIDE (2) 4" CONDUITS FROM MANHOLE THH04 TO TR100 FOR BACKBONE FIBER PATHWAY.
- 5. PROVIDE (2) 4" CONDUITS FROM TR 100 TO HANDHOLE THH04 FOR PATHWAY TO BUILDING 146 THROUGH THE COURTYARD FOR BACKBONE FIBER PATHWAY BETWEEN BUILDINGS 147 AND 146.

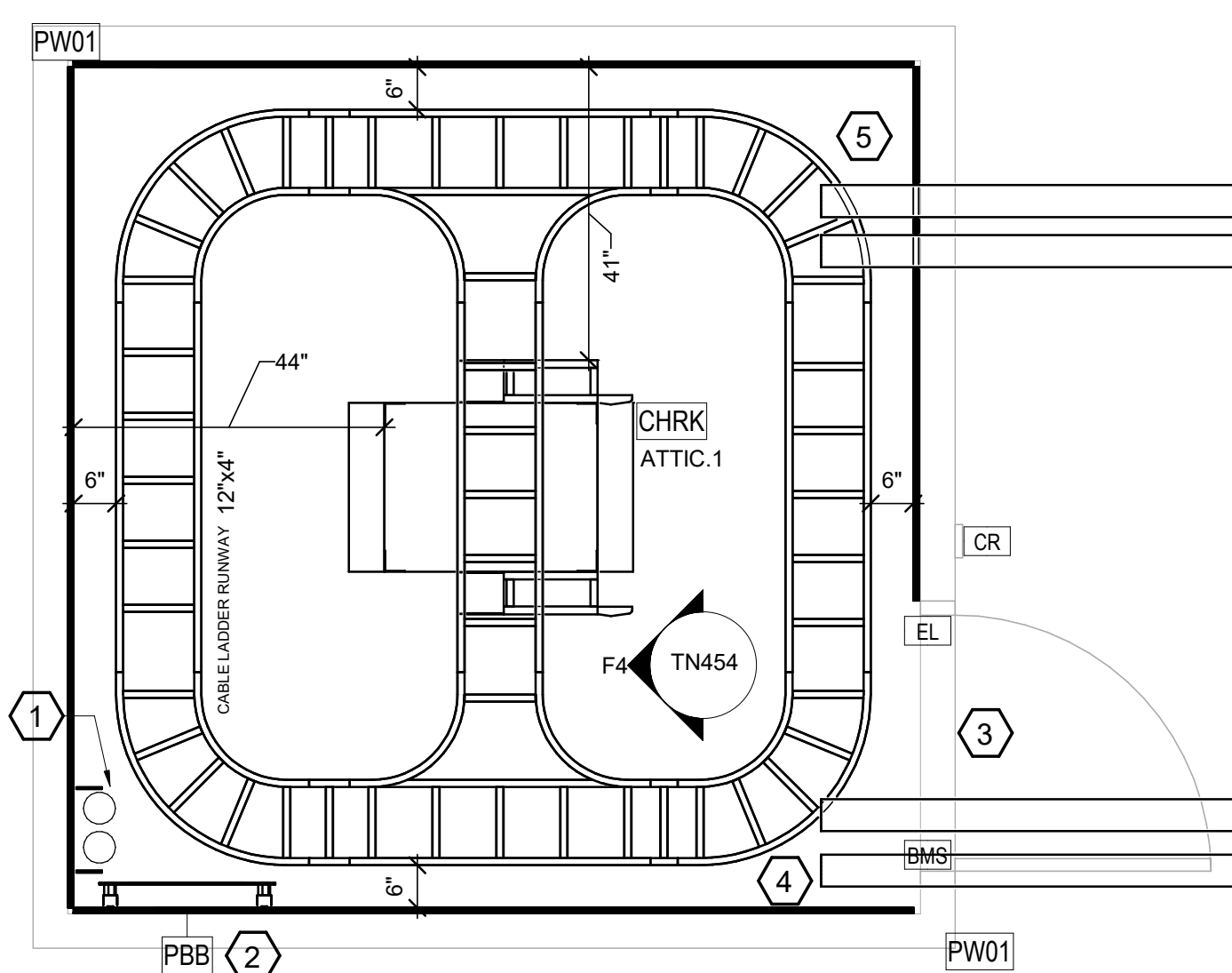
TR 100 EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
PBB	12"x4" CABLE LADDER RUNWAY TELECOM PRIMARY BONDING BUSBAR.

TELECOM OUTLET SCHEDULE - LEVEL 01

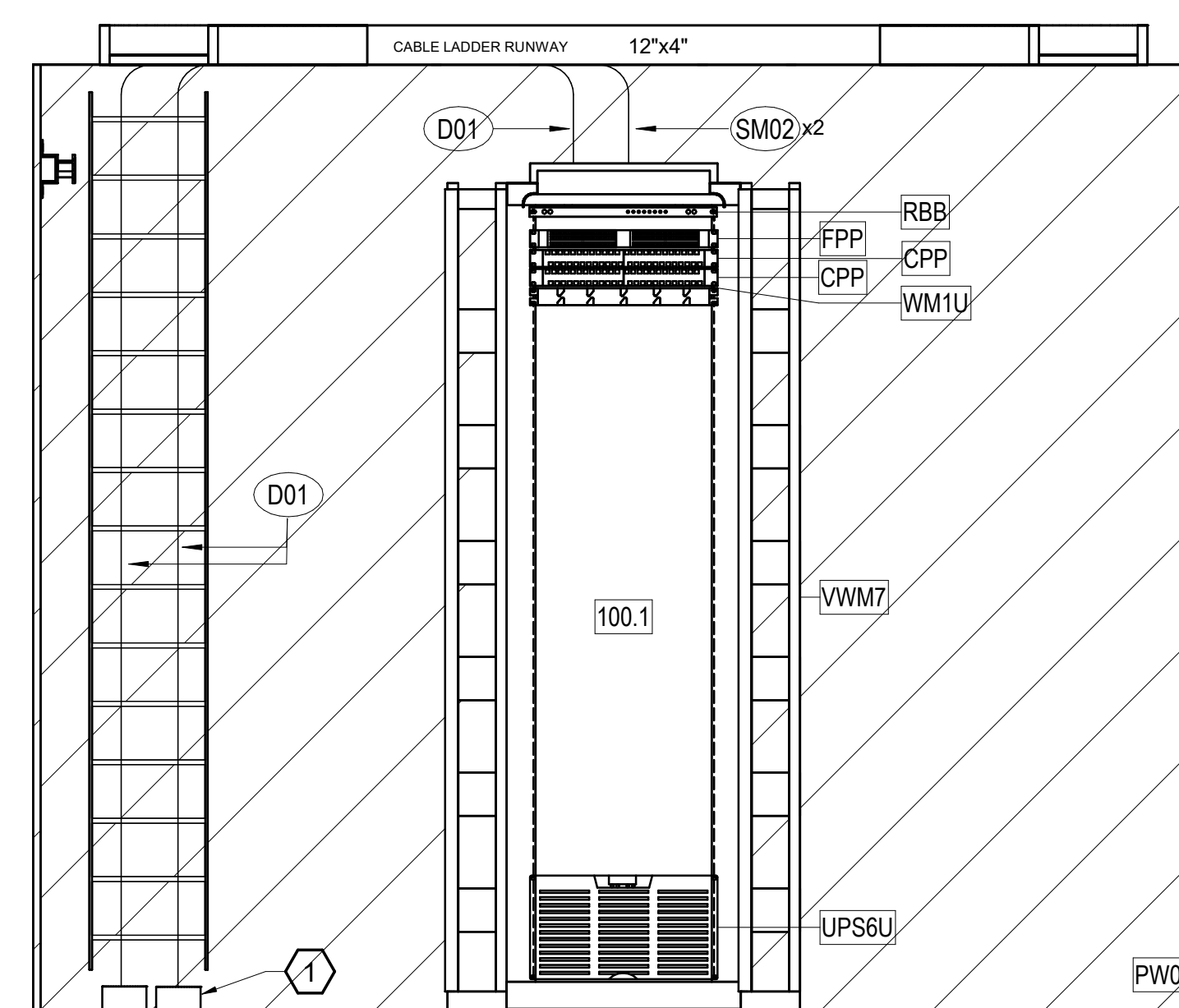
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	IDF/TR ROOM NAME AND NUMBER	CABLE_U_1	CABLE_U_2	CABLE_C_1	CABLE_C_2	CABLE COLOR
T1		UNCLASSIFIED	(1) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR ATTIC	3	0	0	0	
T2		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR ATTIC	24	0	0	0	
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR ATTIC	12	0	0	0	
T3		UNCLASSIFIED	(3) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR ATTIC	6	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR ATTIC	32	0	0	0	
: 31					77	0	0	0	
OUTLET TOTAL: 31					77	0	0	0	

TR 100 EQUIPMENT RACK SCHEDULE

RACK ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
100.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
100.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
100.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
100.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
100.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES	1
100.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
100.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
100.1		UPS6U			5 kW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
100.1		RBB			1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR 100
SCALE: 1/2" = 1'-0"



F4 TR 100 RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>CONSULTANT</p> <p>WileyWilson</p> <p>127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 16229, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p> <p>NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP</p> <p>Bicsi</p> <p>REGISTERED COMMUNICATIONS DISTRIBUTION ENGINEER</p> <p>03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>BLDG 147 - ENLARGED PLANS AND ELEV. - TR 100</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>
					<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number</p> <p>147</p>

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR ERM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR'S SHALL BE MOUNTED A MINIMUM DISTANCE OF 6" FROM TR WALLS.

KEYNOTES:

- 1. PROVIDE (4) 4" EMT CONDUIT SLEEVES FROM TR 58 TO CABLE TRAY IN CORRIDOR FOR STRUCTURED CABLING PATHWAY.
- 2. PRIMARY BONDING BUSBAR SEE DETAIL FR ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE MIN 1" CONDUIT FROM ALL SECURITY DEVICES (CR/ KP, BMS, EL, REX, SSTV) TO NEW ACUIDS PCU LOCATION.
- 4. PROVIDE (2) 4" CONDUITS FROM HANDHOLE THH01 TO TR 58 FOR BACKBONE FIBER PATHWAY.
- 5. PROVIDE (2) 4" CONDUIT TO HANDHOLE THH02 FOR PATHWAY TO BUILDING 145 THROUGH THE COURTYARD FOR BACKBONE FIBER PATHWAY BETWEEN BUILDINGS 145 AND 149.

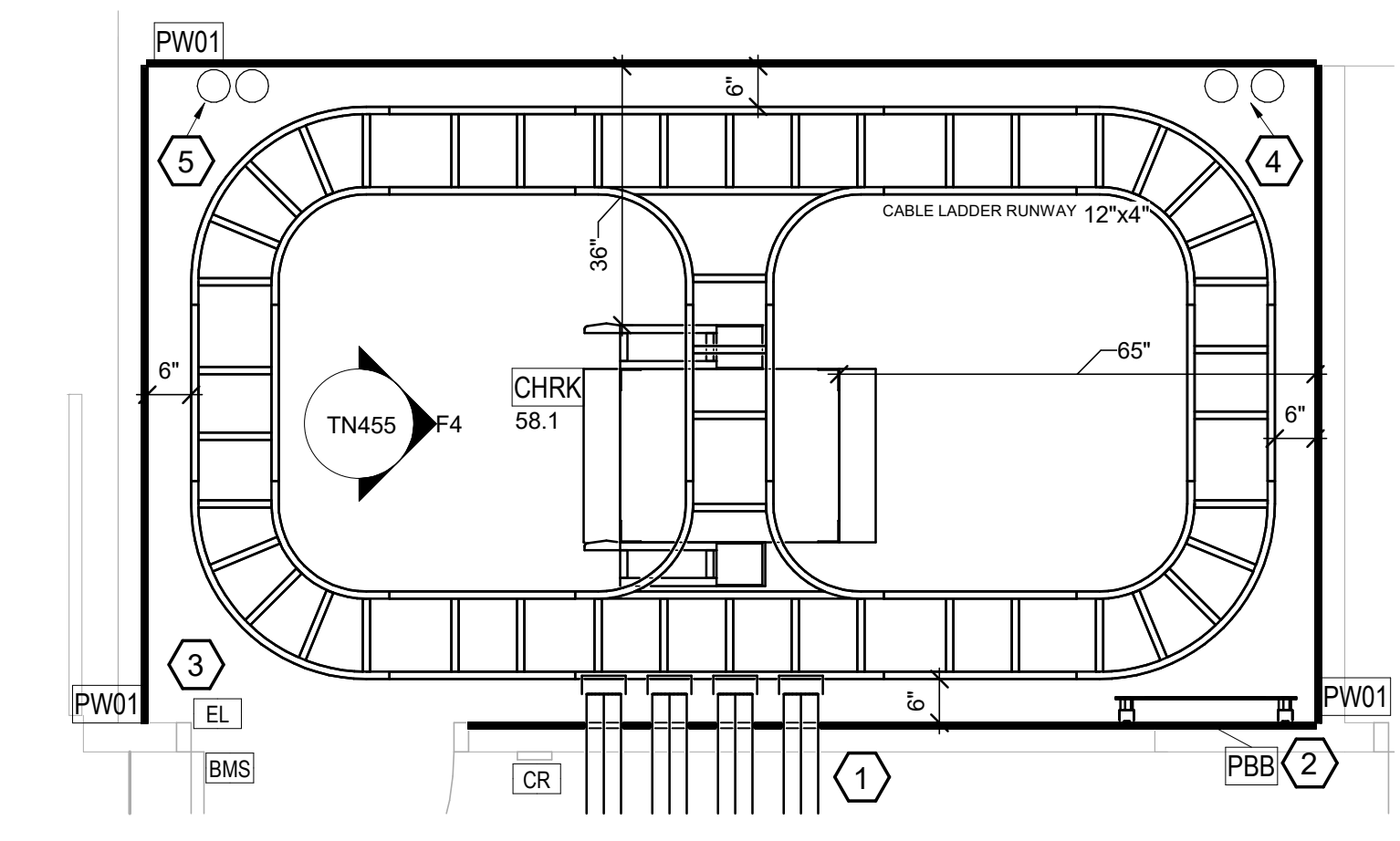
TR 58 EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
PW01	3/4" THICK FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
VWM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE
	12"x4" CABLE LADDER RUNWAY
PBB	TELECOM PRIMARY BONDING BUSBAR.

TELECOM OUTLET SCHEDULE -LEVEL 01

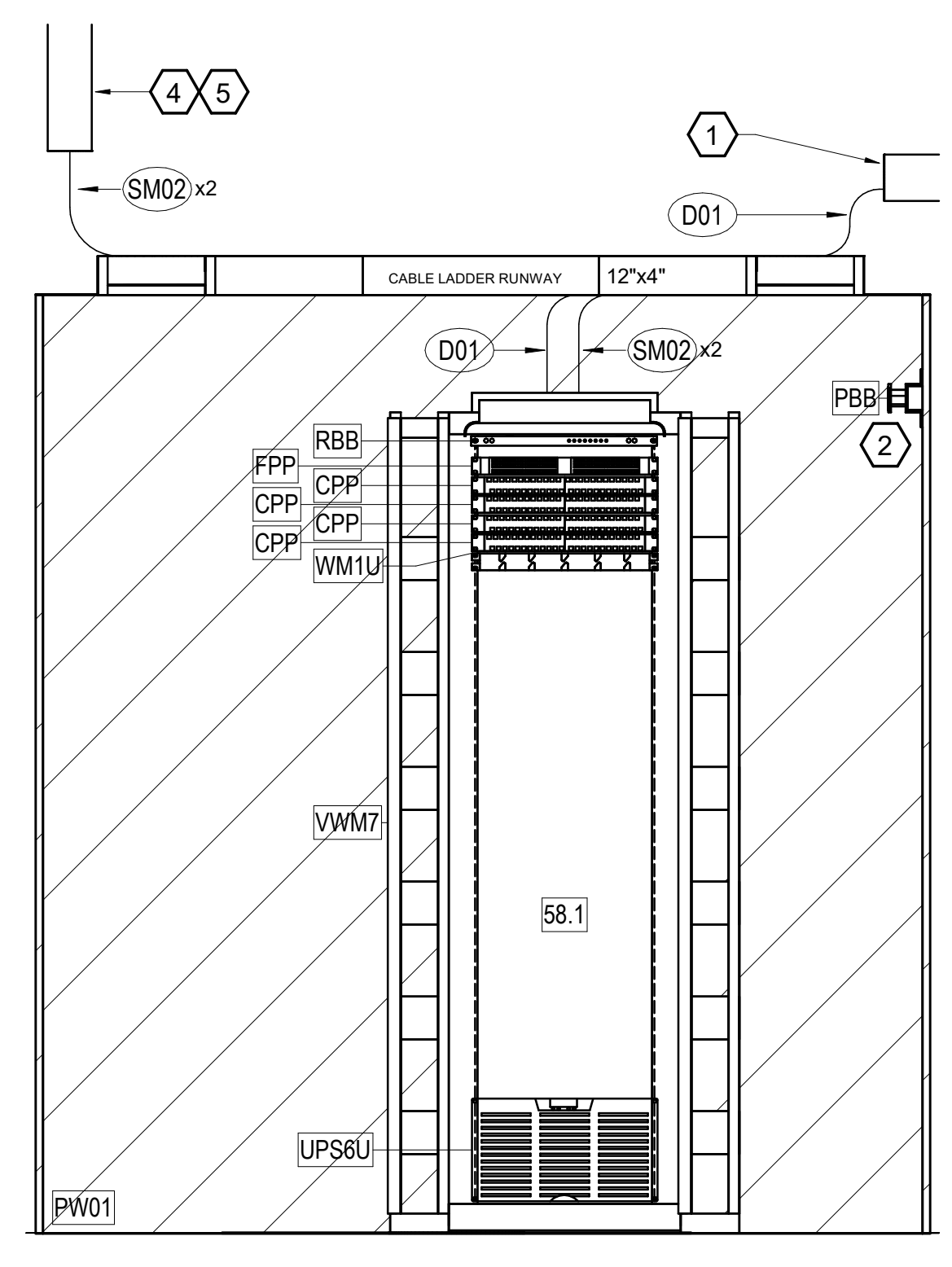
OUTLET TYPE	LOCATION	NETWORK ID	DESCRIPTION	ID/FTR ROOM NAME AND NUMBER	CABLE U_1	CABLE U_2	CABLE C_1	CABLE C_2	CABLE COLOR
T1		UNCLASSIFIED	(1) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 58	7	0	0	0	
T2		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 58	52	0	0	0	
T2 WAP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 58	28	0	0	0	
T3		UNCLASSIFIED	(3) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 58	12	0	0	0	
T4		UNCLASSIFIED	(4) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 58	40	0	0	0	
WP		UNCLASSIFIED	(2) CAT 6A UTP CABLES FOR UNCLASSIFIED NETWORK	TR 58	4	0	0	0	
: 62					143	0	0	0	
OUTLET TOTAL: 62					143	0	0	0	

TR 58 EQUIPMENT RACK SCHEDULE

RACK_ID	PATCH PANEL ID	EQUIPMENT DESIGNATION	RACK SPACE ID	NETWORK	DESCRIPTION	RACK SPACES
58.1		CHRK			OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.	45
58.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
58.1		VWM7			OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE	
58.1		FPP			ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1
58.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
58.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
58.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
58.1		CPP			CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1
58.1		WM1U			WIRE MANAGEMENT - 1U HORIZONTAL	1
58.1		UPS6U			5 KW 208V w/20A 5W IN/5W OUT, TWO INTERNAL BATTERY STRING	6
58.1		RBB			1U RACK BONDING BUSBAR TO BE MOUNTED ON BACK OF EQUIPMENT RACK.	1



F1 ENLARGED PLAN - TR 58
SCALE: 1/2" = 1'-0"



F4 TR 58 RACK ELEVATION
SCALE: 3/4" = 1'-0"

<p>Revisions:</p>	<p>CONSULTANT</p> <p>WileyWilson</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 16229, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p> <p>NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>BLDG 149 - ENLARGED PLANS AND ELEV. - TR 58</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>		
				<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number</p> <p>149</p>		
						<p>Issue Date</p> <p>03/08/2024</p>	<p>Checked</p> <p>JMM</p>	<p>Drawn</p> <p>JEH</p>	<p>Drawing Number</p> <p>TN455</p>

1 2 3 4 5 6 7 8 9 10

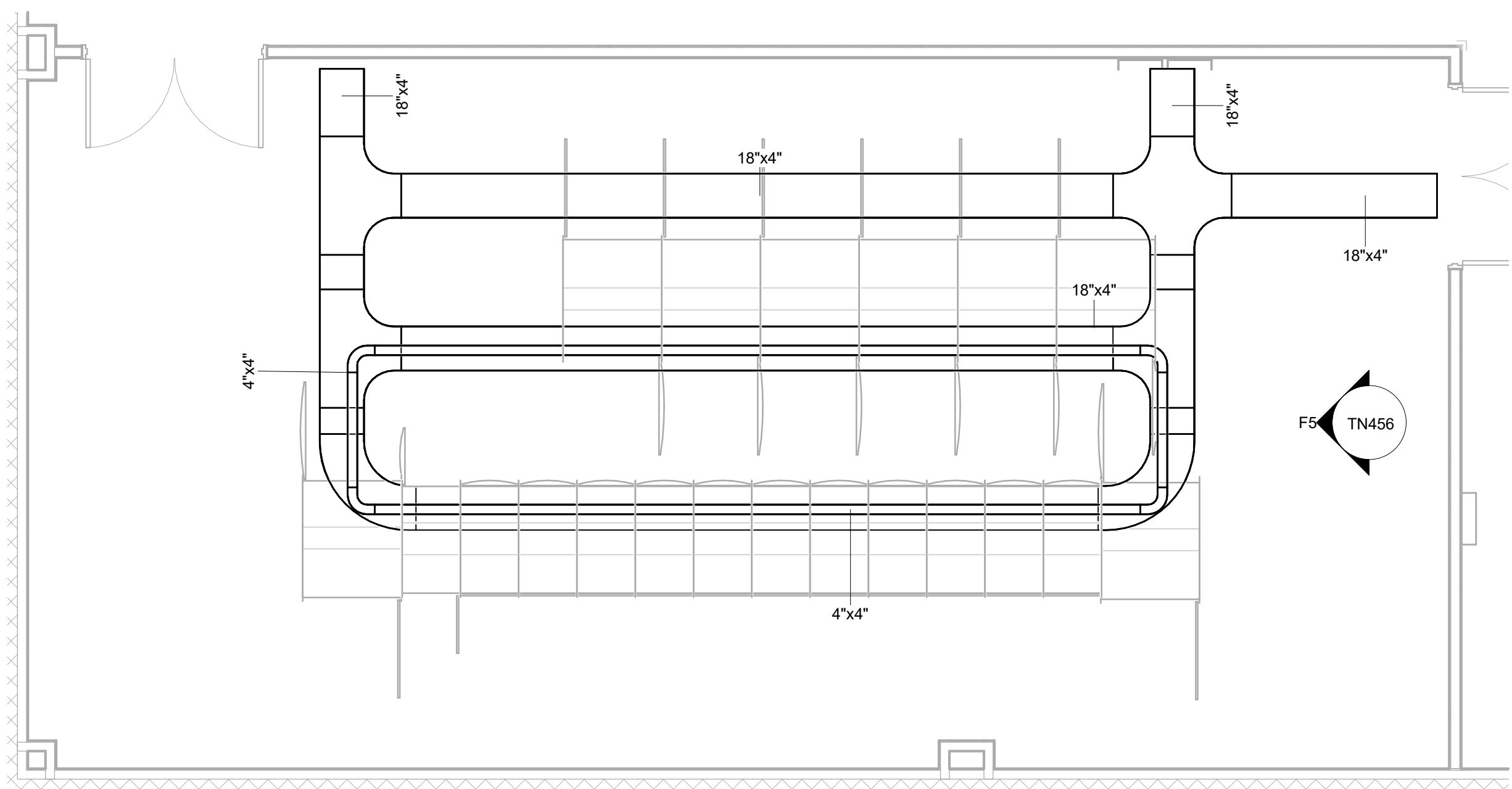
GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TN824 FOR DATA CENTER CABLING REQUIREMENTS TO EACH CABINET.
- C. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND REQUIREMENTS FOR POWER, UPS, AND HVAC EQUIPMENT.

KEYNOTES:

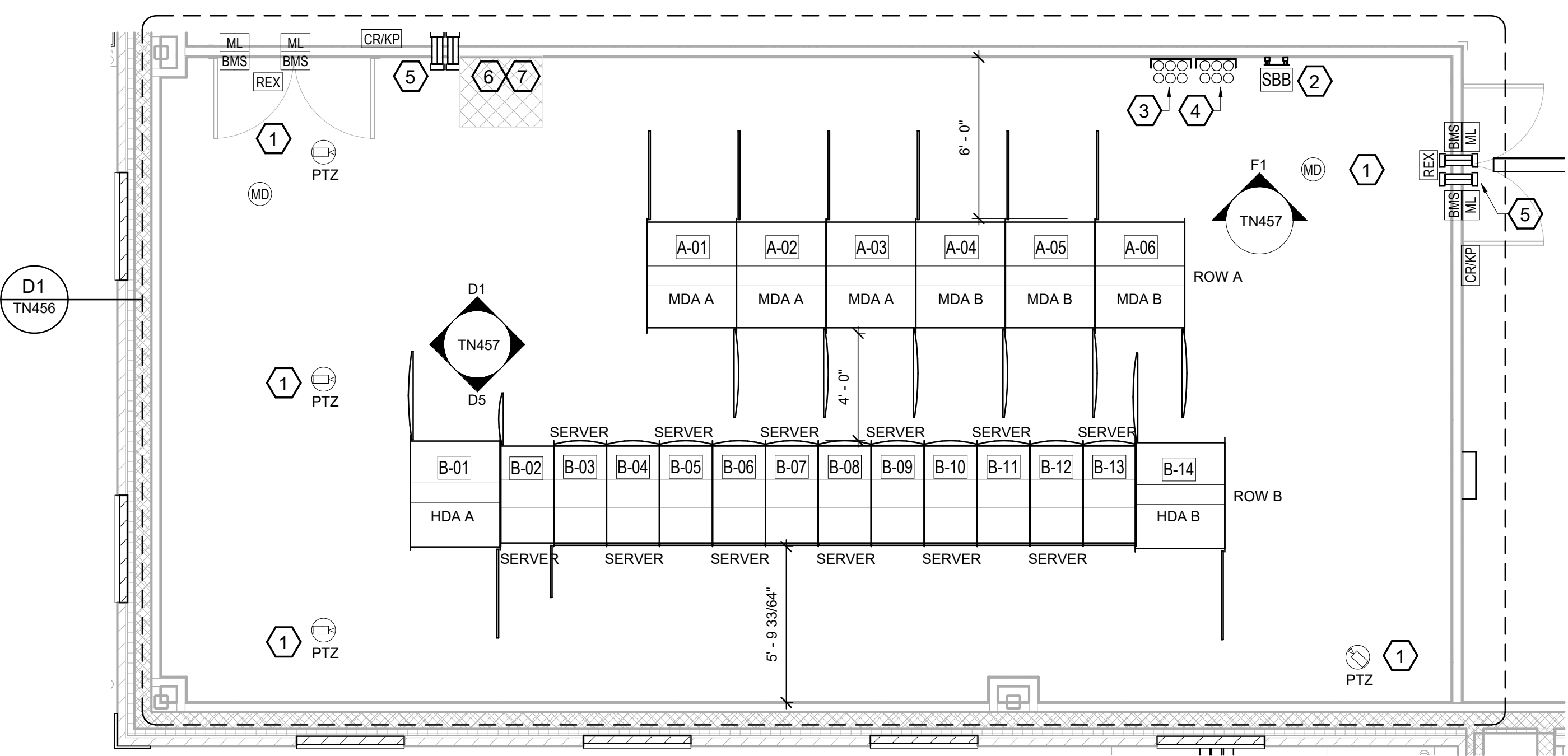
- 1. PROVIDE MIN. 1" CONDUIT FOR ALL SECURITY DEVICES (CR/KP, BMS, EL, REX, MD) TO NEW ACS/IDS PCU LOCATION.
- 2. SECONDARY BONDING BUSBAR, SEE DETAIL F8 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 3. PROVIDE (6) 4" UNDERGROUND CONCRETE ENCASED DUCTS TO MANHOLE TMH09 FOR FOR BACKBONE FIBER ROUTE TO SITE DUCTBACK. REFER TO SITE PLANS FOR DUCT ROUTE CONTINUATION.
- 4. PROVIDE (2) 4" CONDUIT SLEEVES TO CABLE TRAY IN CORRIDORS.
- 5. PROVIDE (6) 4" UNDERGROUND CONCRETE ENCASED DUCTS TO MANHOLE TMH07 FOR FOR BACKBONE FIBER ROUTE TO SITE DUCTBACK. REFER TO SITE PLANS FOR DUCT ROUTE CONTINUATION.
- 6. PROVIDE (2) 4" CONDUIT SLEEVES TO CABLE TRAY IN CORRIDORS.
- 7. PROVIDE (1) 8RU OPEN FRAME WALL MOUNT RACK WITH RACK MOUNTED FIBER ENCLOSURE AND COPPER PATCH PANEL FOR THE TERMINATION OF FIBER AND CAT 6A CABLES FOR CAMERAS.

SERVER ROOM EQUIPMENT SCHEDULE		
RACK_ID	Equipment Type (Filter Parameter)	Description
A-01	NTWK	CHATSWORTH NF8N-115C-E52-1 F-SERIES TERAFRAME GEN 3 CABINET SYSTEM, 45RU, 83.4" H, 40" W, 43.3" D, 20-34" VERTICAL EXHAUST DUCT SYSTEM, GLACIER WHITE, 2 SOLID SIDE PANEL, PERFORATED METAL FRONT DOOR, SINGLE SOLID METAL REAR DOOR, 6-SLIDE FRAME
A-02	NTWK	CHATSWORTH NF8N-115C-E52-1 F-SERIES TERAFRAME GEN 3 CABINET SYSTEM, 45RU, 83.4" H, 40" W, 43.3" D, 20-34" VERTICAL EXHAUST DUCT SYSTEM, GLACIER WHITE, 2 SOLID SIDE PANEL, PERFORATED METAL FRONT DOOR, SINGLE SOLID METAL REAR DOOR, 6-SLIDE FRAME
A-03	NTWK	CHATSWORTH NF8N-115C-E52-1 F-SERIES TERAFRAME GEN 3 CABINET SYSTEM, 45RU, 83.4" H, 40" W, 43.3" D, 20-34" VERTICAL EXHAUST DUCT SYSTEM, GLACIER WHITE, 2 SOLID SIDE PANEL, PERFORATED METAL FRONT DOOR, SINGLE SOLID METAL REAR DOOR, 6-SLIDE FRAME
A-04	NTWK	CHATSWORTH NF8N-115C-E52-1 F-SERIES TERAFRAME GEN 3 CABINET SYSTEM, 45RU, 83.4" H, 40" W, 43.3" D, 20-34" VERTICAL EXHAUST DUCT SYSTEM, GLACIER WHITE, 2 SOLID SIDE PANEL, PERFORATED METAL FRONT DOOR, SINGLE SOLID METAL REAR DOOR, 6-SLIDE FRAME
A-05	NTWK	CHATSWORTH NF8N-115C-E52-1 F-SERIES TERAFRAME GEN 3 CABINET SYSTEM, 45RU, 83.4" H, 40" W, 43.3" D, 20-34" VERTICAL EXHAUST DUCT SYSTEM, GLACIER WHITE, 2 SOLID SIDE PANEL, PERFORATED METAL FRONT DOOR, SINGLE SOLID METAL REAR DOOR, 6-SLIDE FRAME
A-06	NTWK	CHATSWORTH NF8N-115C-E52-1 F-SERIES TERAFRAME GEN 3 CABINET SYSTEM, 45RU, 83.4" H, 40" W, 43.3" D, 20-34" VERTICAL EXHAUST DUCT SYSTEM, GLACIER WHITE, 2 SOLID SIDE PANEL, PERFORATED METAL FRONT DOOR, SINGLE SOLID METAL REAR DOOR, 6-SLIDE FRAME
B-01	NTWK	CHATSWORTH NF8N-115C-E52-1 F-SERIES TERAFRAME GEN 3 CABINET SYSTEM, 45RU, 83.4" H, 40" W, 43.3" D, 20-34" VERTICAL EXHAUST DUCT SYSTEM, GLACIER WHITE, 2 SOLID SIDE PANEL, PERFORATED METAL FRONT DOOR, SINGLE SOLID METAL REAR DOOR, 6-SLIDE FRAME
B-02	SRVR	CHATSWORTH FF1N-111C-E52-B F-SERIES TERAFRAME GEN 3 CABINET SYSTEM, 45RU, 84.6" H, 23.6" W, 43.3" D, 14-20" VERTICAL EXHAUST DUCT SYSTEM, GLACIER WHITE, 2 SOLID SIDE PANEL, PERFORATED METAL FRONT DOOR, SINGLE SOLID METAL REAR DOOR, 6-SLIDE FRAME
B-03	SRVR	CHATSWORTH FF1N-111C-E52-B F-SERIES TERAFRAME GEN 3 CABINET SYSTEM, 45RU, 84.6" H, 23.6" W, 43.3" D, 14-20" VERTICAL EXHAUST DUCT SYSTEM, GLACIER WHITE, 2 SOLID SIDE PANEL, PERFORATED METAL FRONT DOOR, SINGLE SOLID METAL REAR DOOR, 6-SLIDE FRAME
B-04	SRVR	CHATSWORTH FF1N-111C-E52-B F-SERIES TERAFRAME GEN 3 CABINET SYSTEM, 45RU, 84.6" H, 23.6" W, 43.3" D, 14-20" VERTICAL EXHAUST DUCT SYSTEM, GLACIER WHITE, 2 SOLID SIDE PANEL, PERFORATED METAL FRONT DOOR, SINGLE SOLID METAL REAR DOOR, 6-SLIDE FRAME
B-05	SRVR	CHATSWORTH FF1N-111C-E52-B F-SERIES TERAFRAME GEN 3 CABINET SYSTEM, 45RU, 84.6" H, 23.6" W, 43.3" D, 14-20" VERTICAL EXHAUST DUCT SYSTEM, GLACIER WHITE, 2 SOLID SIDE PANEL, PERFORATED METAL FRONT DOOR, SINGLE SOLID METAL REAR DOOR, 6-SLIDE FRAME
B-06	SRVR	CHATSWORTH FF1N-111C-E52-B F-SERIES TERAFRAME GEN 3 CABINET SYSTEM, 45RU, 84.6" H, 23.6" W, 43.3" D, 14-20" VERTICAL EXHAUST DUCT SYSTEM, GLACIER WHITE, 2 SOLID SIDE PANEL, PERFORATED METAL FRONT DOOR, SINGLE SOLID METAL REAR DOOR, 6-SLIDE FRAME
B-07	SRVR	CHATSWORTH FF1N-111C-E52-B F-SERIES TERAFRAME GEN 3 CABINET SYSTEM, 45RU, 84.6" H, 23.6" W, 43.3" D, 14-20" VERTICAL EXHAUST DUCT SYSTEM, GLACIER WHITE, 2 SOLID SIDE PANEL, PERFORATED METAL FRONT DOOR, SINGLE SOLID METAL REAR DOOR, 6-SLIDE FRAME
B-08	SRVR	CHATSWORTH FF1N-111C-E52-B F-SERIES TERAFRAME GEN 3 CABINET SYSTEM, 45RU, 84.6" H, 23.6" W, 43.3" D, 14-20" VERTICAL EXHAUST DUCT SYSTEM, GLACIER WHITE, 2 SOLID SIDE PANEL, PERFORATED METAL FRONT DOOR, SINGLE SOLID METAL REAR DOOR, 6-SLIDE FRAME
B-09	SRVR	CHATSWORTH FF1N-111C-E52-B F-SERIES TERAFRAME GEN 3 CABINET SYSTEM, 45RU, 84.6" H, 23.6" W, 43.3" D, 14-20" VERTICAL EXHAUST DUCT SYSTEM, GLACIER WHITE, 2 SOLID SIDE PANEL, PERFORATED METAL FRONT DOOR, SINGLE SOLID METAL REAR DOOR, 6-SLIDE FRAME
B-10	SRVR	CHATSWORTH FF1N-111C-E52-B F-SERIES TERAFRAME GEN 3 CABINET SYSTEM, 45RU, 84.6" H, 23.6" W, 43.3" D, 14-20" VERTICAL EXHAUST DUCT SYSTEM, GLACIER WHITE, 2 SOLID SIDE PANEL, PERFORATED METAL FRONT DOOR, SINGLE SOLID METAL REAR DOOR, 6-SLIDE FRAME
B-11	SRVR	CHATSWORTH FF1N-111C-E52-B F-SERIES TERAFRAME GEN 3 CABINET SYSTEM, 45RU, 84.6" H, 23.6" W, 43.3" D, 14-20" VERTICAL EXHAUST DUCT SYSTEM, GLACIER WHITE, 2 SOLID SIDE PANEL, PERFORATED METAL FRONT DOOR, SINGLE SOLID METAL REAR DOOR, 6-SLIDE FRAME
B-12	SRVR	CHATSWORTH FF1N-111C-E52-B F-SERIES TERAFRAME GEN 3 CABINET SYSTEM, 45RU, 84.6" H, 23.6" W, 43.3" D, 14-20" VERTICAL EXHAUST DUCT SYSTEM, GLACIER WHITE, 2 SOLID SIDE PANEL, PERFORATED METAL FRONT DOOR, SINGLE SOLID METAL REAR DOOR, 6-SLIDE FRAME
B-13	SRVR	CHATSWORTH FF1N-111C-E52-B F-SERIES TERAFRAME GEN 3 CABINET SYSTEM, 45RU, 84.6" H, 23.6" W, 43.3" D, 14-20" VERTICAL EXHAUST DUCT SYSTEM, GLACIER WHITE, 2 SOLID SIDE PANEL, PERFORATED METAL FRONT DOOR, SINGLE SOLID METAL REAR DOOR, 6-SLIDE FRAME
B-14	NTWK	CHATSWORTH NF8N-115C-E52-1 F-SERIES TERAFRAME GEN 3 CABINET SYSTEM, 45RU, 83.4" H, 40" W, 43.3" D, 20-34" VERTICAL EXHAUST DUCT SYSTEM, GLACIER WHITE, 2 SOLID SIDE PANEL, PERFORATED METAL FRONT DOOR, SINGLE SOLID METAL REAR DOOR, 6-SLIDE FRAME



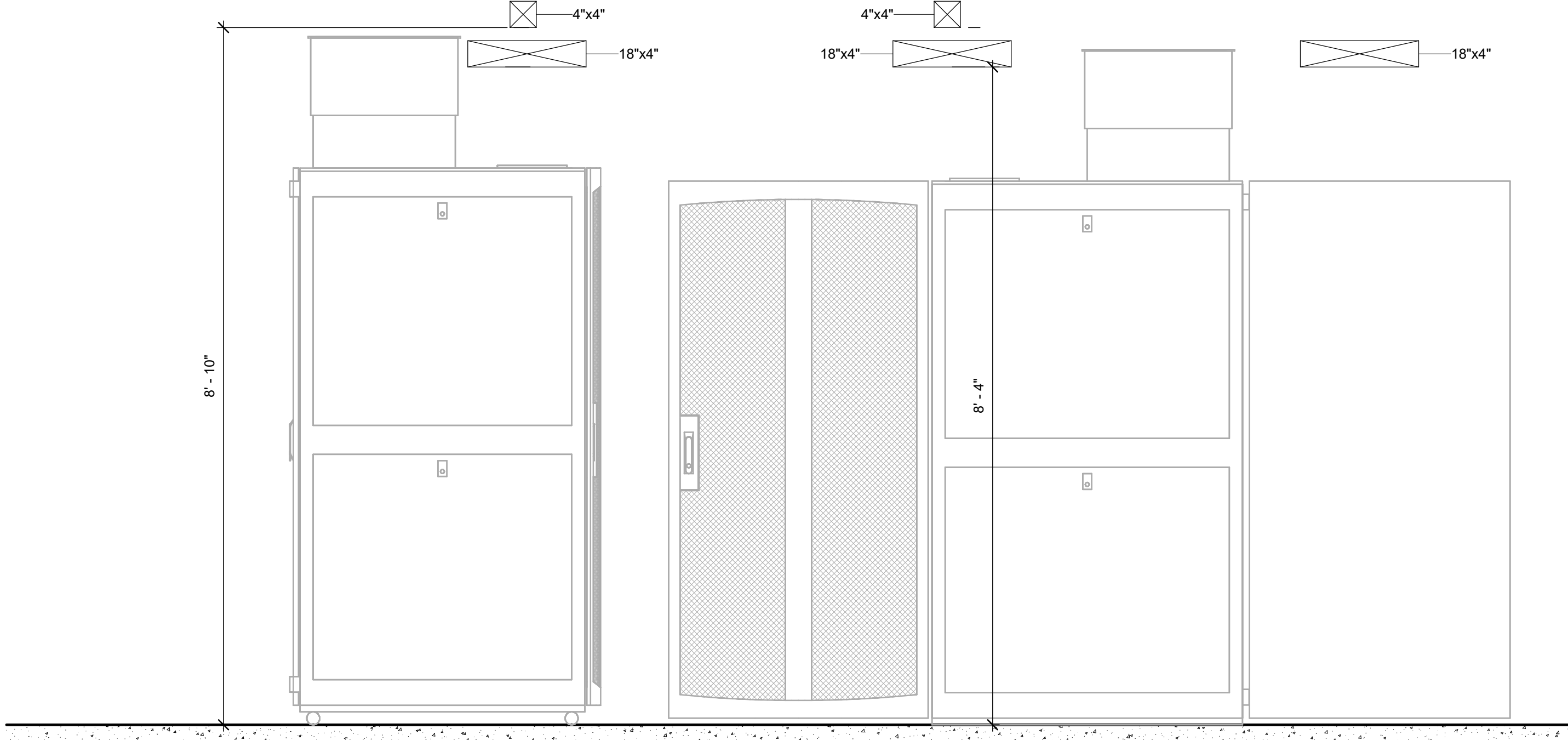
D1 CABLE TRAY PLAN - DATA CENTER

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



F1 BLDG 151 - ENLARGED PLANS AND ELEV. - DATA CENTER

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



F5 CABLE TRAY ELEVATION - DATA CENTER

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

<p>CONSULTANT</p> <p>WileyWilson</p> <p>127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax</p> <p>Atriax, plc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964</p> <p>www.atriaxgroup.com</p> <p>NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>BLDG 151 - ENLARGED PLANS AND ELEVATIONS</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>
			<p>Approved: Chief Engineer</p> <p>JMM</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Drawing Number</p> <p>TN456</p>
<p>Revisions:</p>	<p>Date:</p>	<p>Issue Date</p> <p>03/08/2024</p>	<p>Checked</p> <p>JMM</p>	<p>Drawn</p> <p>JH</p>	<p>Issue Date</p> <p>03/08/2024</p>	<p>Checked</p> <p>JMM</p>

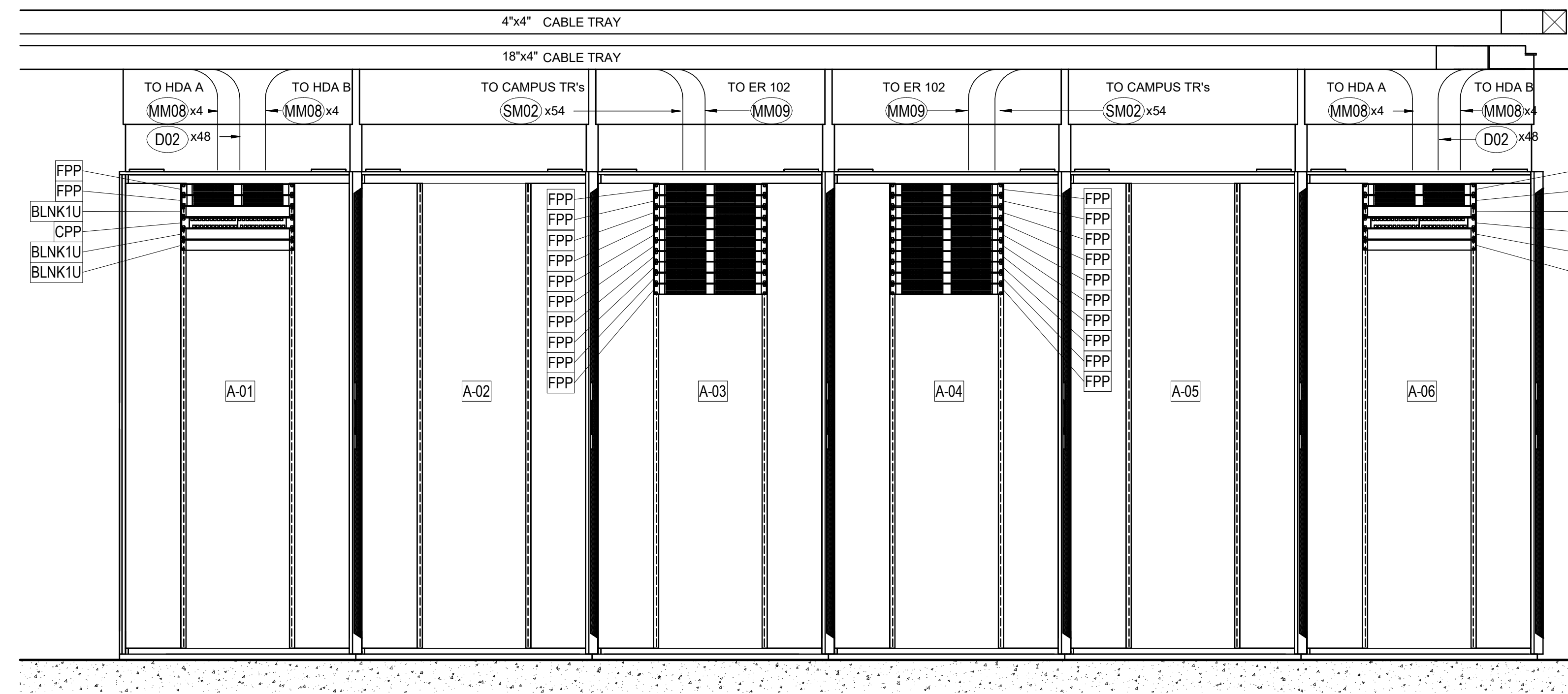
1 2 3 4 5 6 7 8 9 10

GENERAL NOTES:

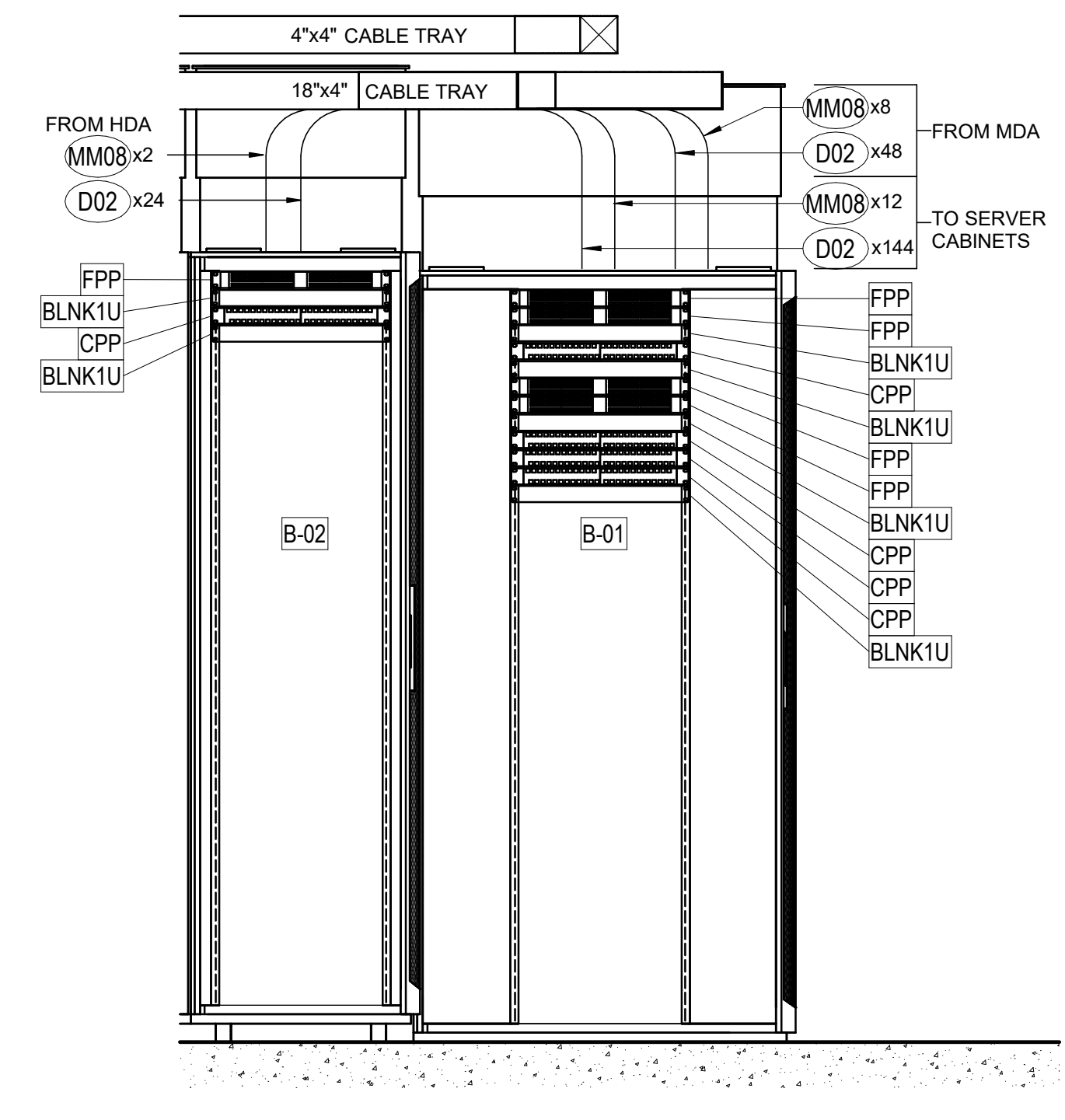
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TN624 FOR DATA CENTER CABLING REQUIREMENTS TO EACH CABINET.
- C. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND REQUIREMENTS FOR POWER, UPS, AND HVAC EQUIPMENT.

KEYNOTES:

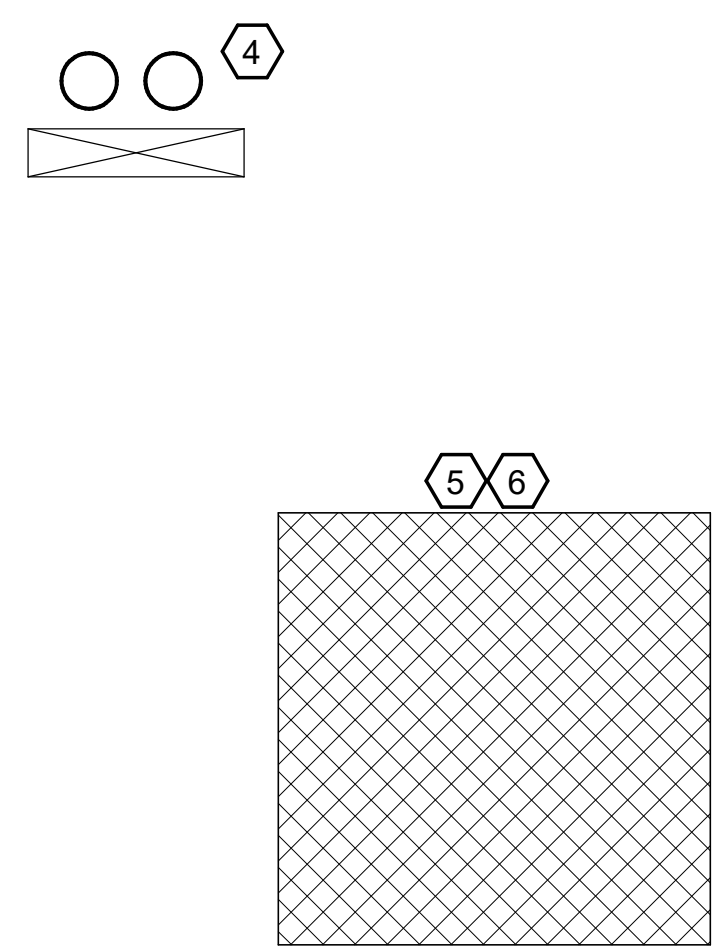
- 1. SECONDARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 2. PROVIDE (6) 4" UNDERGROUND CONCRETE ENCASED DUCTS TO MANHOLE TMH09 FOR FOR BACKBONE FIBER ROUTE TO SITE DUCTBACK. REFER TO SITE PLANS FOR DUCT ROUTE CONTINUATION.
- 3. PROVIDE (6) 4" UNDERGROUND CONCRETE ENCASED DUCTS TO MANHOLE TMH07 FOR FOR BACKBONE FIBER ROUTE TO SITE DUCTBACK. REFER TO SITE PLANS FOR DUCT ROUTE CONTINUATION.
- 4. PROVIDE (2) 4" CONDUIT SLEEVES TO CABLE TRAY IN COORIDOR.
- 5. PROVIDE 6 STRAND MULTI-MODE INDOOR/OUTDOOR RATED FIBER TO ROOM 010 OF BUILDING 99 FOR CONNECTION TO CCTV NETWORK.
- 6. PROVIDE (1) 8RU OPEN FRAME WALL MOUNT RACK WITH RACK MOUNTED FIBER ENCLOSURE AND COPPER PATCH PANEL FOR THE TERMINATION OF FIBER AND CAT 6A CABLES FOR CAMERAS.



D1 ROW A MDA CABINET ELEVATION
SCALE: 3/4" = 1'-0"



D5 TYPICAL HDA ROW NETWORK AND SERVER CABINET ELEVATION
SCALE: 3/4" = 1'-0"



F1 SERVER ROOM 101 - NORTH WALL - ELEVATION
SCALE: 3/4" = 1'-0"

TELECOM ROOM EQUIPMENT RACK SCHEDULE					
RACK ID	EQUIPMENT DESIGNATION	DESCRIPTION	RACK SPACES	COPPER PORTS	FIBER STRANDS
A-01	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
A-01	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
A-01	BLNK1U	BLANK FILLER PANEL			
A-01	CPP	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
A-01	BLNK1U	BLANK FILLER PANEL			
A-01	BLNK1U	BLANK FILLER PANEL			
A-03	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
A-03	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
A-03	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
A-03	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
A-03	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
A-03	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
A-03	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
A-03	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
A-03	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
A-03	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
A-03	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
A-04	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
A-04	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
A-04	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
A-04	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
A-04	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
A-04	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
A-04	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
A-04	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
A-04	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
A-06	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
A-06	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
A-06	BLNK1U	BLANK FILLER PANEL			
A-06	CPP	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
A-06	BLNK1U	BLANK FILLER PANEL			
A-06	BLNK1U	BLANK FILLER PANEL			
B-01	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
B-01	BLNK1U	BLANK FILLER PANEL			
B-01	CPP	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
B-01	BLNK1U	BLANK FILLER PANEL			
B-01	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
B-01	BLNK1U	BLANK FILLER PANEL			
B-01	CPP	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
B-01	CPP	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
B-01	CPP	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
B-01	BLNK1U	BLANK FILLER PANEL			
B-01	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
B-01	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
B-02	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
B-02	BLNK1U	BLANK FILLER PANEL			
B-02	CPP	CAT 6A ANGLED HIGH DENSITY PATCH PANEL, 48-PORT, 1U, ACCEPTS SHIELDED, UTP, AND FIBER CASSETTES.	1	48	0
B-02	BLNK1U	BLANK FILLER PANEL			

<p>CONSULTANT</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>Office of Construction and Facilities Management</p> <p>U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>BLDG 151 - ENLARGED PLANS AND ELEVATIONS</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>
			<p>Approved: Chief Engineer</p> <p>JMM</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Drawing Number</p> <p>TN457</p>
<p>Revisions:</p>	<p>Date:</p>	<p>Issue Date</p> <p>03/08/2024</p>	<p>Checked</p> <p>JMM</p>	<p>Drawn</p> <p>JH</p>		

GENERAL NOTES:

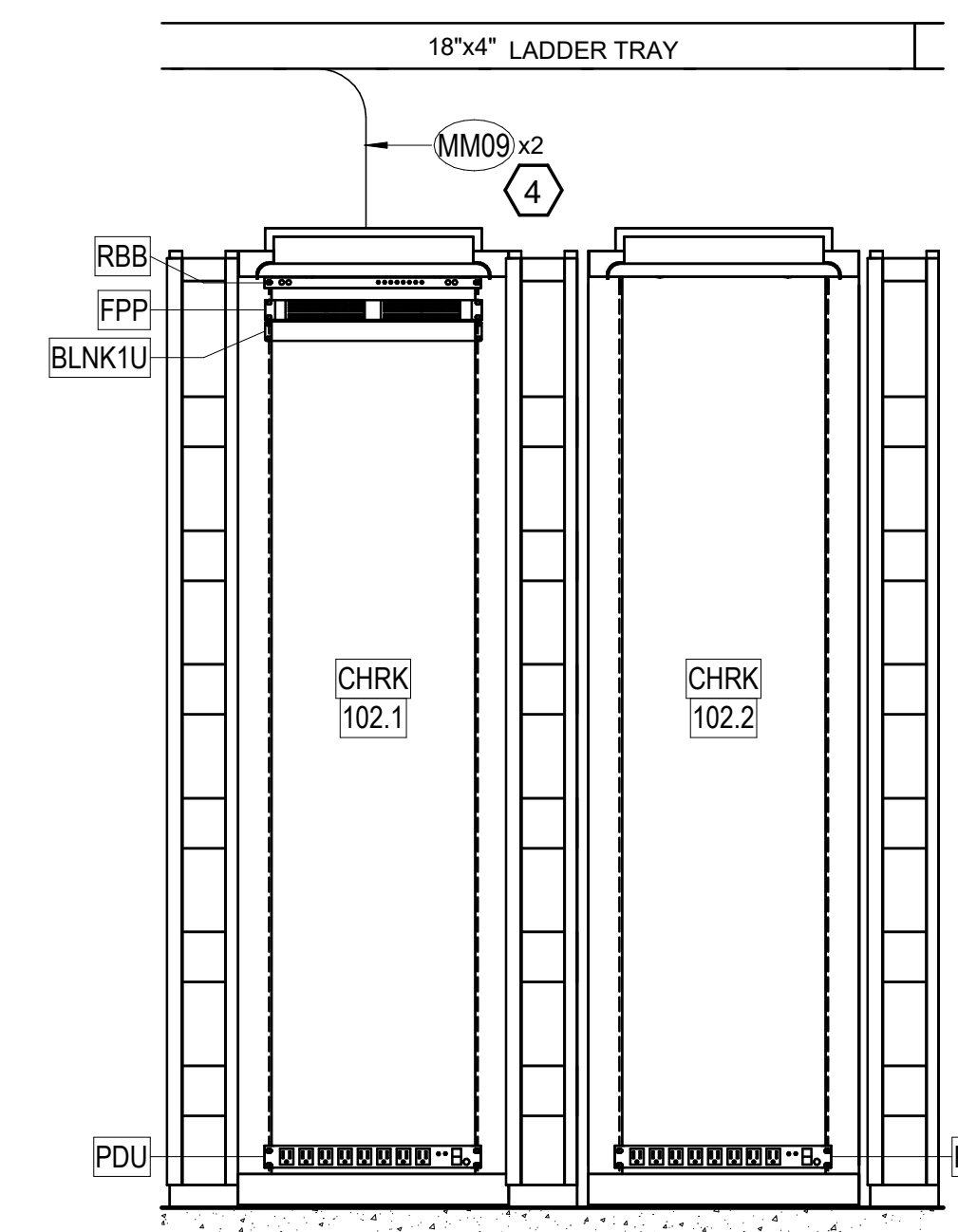
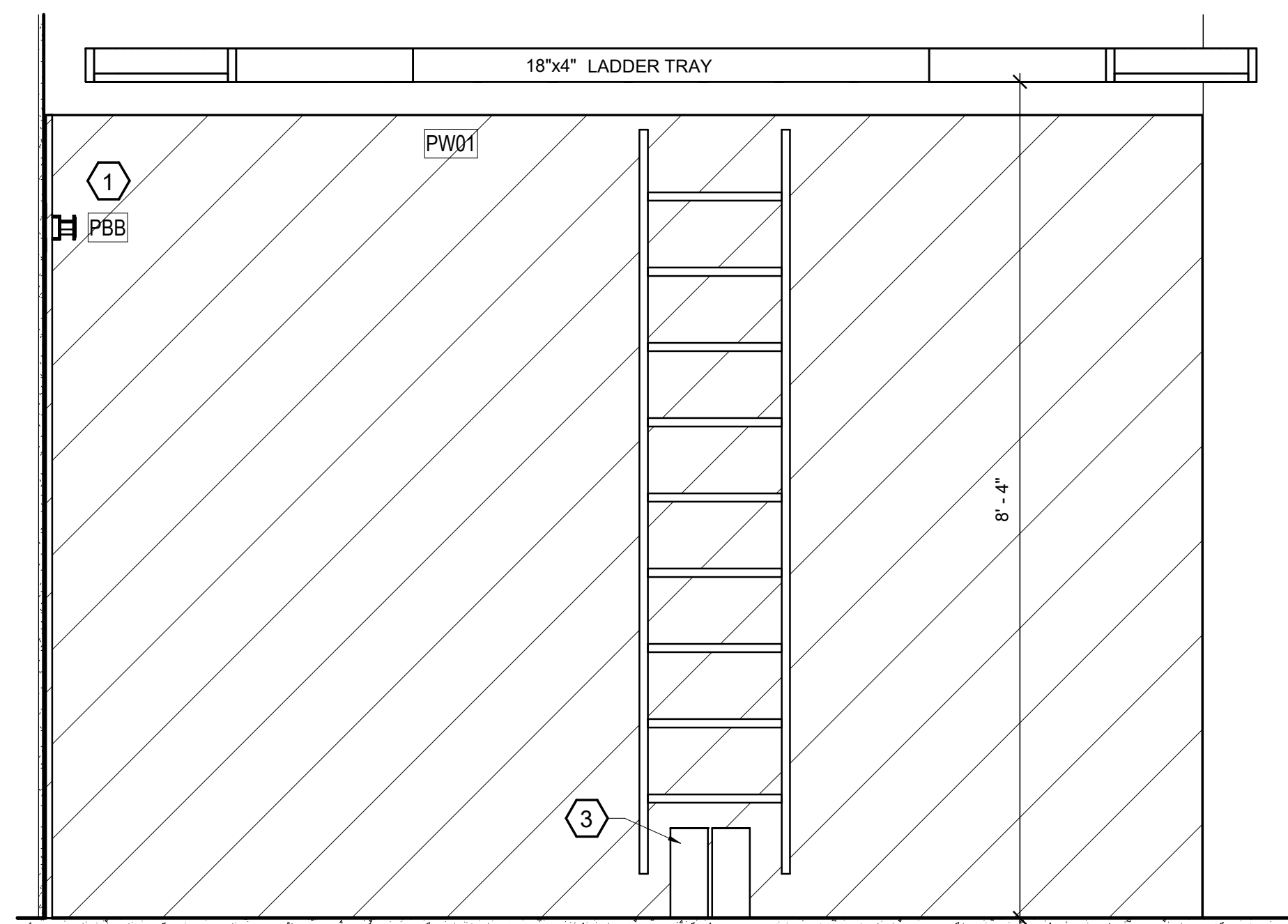
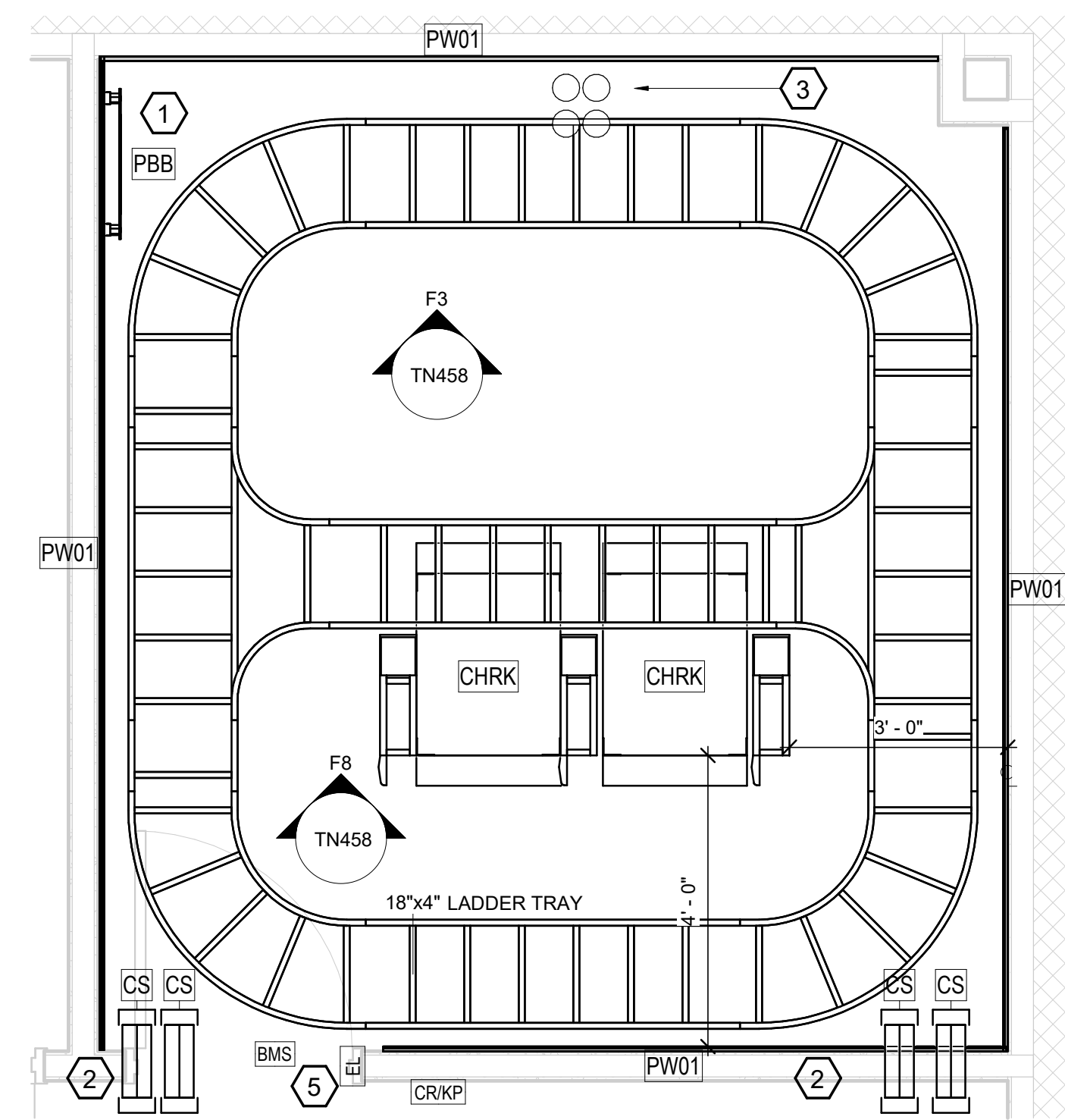
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. MAXIMUM DISTANCE BETWEEN JUNCTION BOXES OR PULL POINTS WITHIN BUILDINGS SHALL BE 100 FEET OR 360 DEGREES OF BEND.
- G. ALL TELECOM OUTLETS WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL BE PIPED TO THE NEAREST ACCESSIBLE CEILING.
- H. ALL CABLE LADDER RUNWAYS INSTALLED WITHIN TR's SHALL BE MOUNTED A MINIMUM DISTANCE OF 8" FROM TR WALLS.

KEYNOTES:

- 1. PRIMARY BONDING BUSBAR. SEE DETAIL F6 ON SHEET TG503 - DETAILS FOR REQUIRED CONNECTIONS AND SIZING OF TELECOMMUNICATIONS BONDING CONDUCTORS.
- 2. PROVIDE (2) 4" CONDUIT SLEEVES TO CABLE TRAY IN COORIDOR.
- 3. PROVIDE (4) 4" CONCRETE ENCASED DUCTS FROM ENTRANCE ROOM TO MANHOLE THUBS FOR SERVICE PROVIDER CONNECTION. REFER TO SITE PLANS FOR DUCT ROUTE CONTINUATION.
- 4. PROVIDE (2) 24 STRAND MULTIMODE FIBER CABLES TO SERVER ROOM 101 FOR SERVICE PROVIDER CROSS-CONNECT.
- 5. PROVIDE MIN. 1" CONDUIT FOR ALL SECURITY DEVICES (CRKP, BMS, EL, REX, MD) TO NEW ACS/IDS PCU LOCATION.

ENTRANCE ROOM EQUIPMENT SCHEDULE	
EQUIPMENT DESIGNATION	DESCRIPTION
CS	4" EMT SLEEVE (TYP)
PW01	3/4" THICK, FIRE RATED, 3/4" X 4' X 8' AC GRADE PLYWOOD.
PBB	TELECOM MAIN GROUNDING BUSBAR.
CHRK	OR-MM2073038-W OR EQUIVALENT 45RU, 7 FOOT HEIGHT, 30 INCH DEPTH, 23.75 INCH WIDTH, HIGH DENSITY RACKING SOLUTION WITH VERTICAL PDU AS DETAILED ON SHEET TG503 DETAIL F1. WHITE FINISH OR EQUIVALENT.
WVM7	OR-MM20VMD706 OR EQUIVALENT VERTICAL CABLE MANAGEMENT "CAGE" WITH DOOR, 6.45" X 10.26" X 84" WHITE

ENTRANCE ROOM EQUIPMENT RACK SCHEDULE					
RACK ID	EQUIPMENT DESIGNATION	DESCRIPTION	RACK SPACES	COPPER PORTS	FIBER STRANDS
102.1	FPP	ANGLED OPT-X UHDX FIBER ENCLOSURE WITH (12) HDX MTP CASSETTES WITH LC CONNECTORS	1	0	144
102.1	BLNK1U	BLANK FILLER PANEL			
102.1	PDU	RACK MOUNT PDU. L5-20 INPUT. NEMA 5-15 OUTPUT. 1 RU	1		
102.1	RBB	1U RACK BONDING BUSBAR TO BE MOUNTED ON THE BACK OF EQUIPMENT RACK.	1		
102.2	PDU	RACK MOUNT PDU. L5-20 INPUT. NEMA 5-15 OUTPUT. 1 RU	1		



F1 BLDG 151 - ENLARGED PLANS AND ELEV. - ER 102
SCALE: 1/2" = 1'-0"

F3 ENTRANCE ROOM 102 - NORTH WALL - ELEVATION
SCALE: 3/4" = 1'-0"

F8 ENTRANCE ROOM 102 - CABINET ELEVATION
SCALE: 3/4" = 1'-0"

Revisions:	Date:

CONSULTANT
 WileyWilson
 127 Nationwide Drive
 Lynchburg, VA 24502
 Phone: 434.947.1901
 www.wileywilson.com

SPECIALIZED ENGINEERING SOLUTIONS
 SPECIALIZED ENGINEERING SOLUTIONS
 Specialized Engineering Solutions
 1300 Baxter Street, Suite 355
 Charlotte, NC 28204

ARCHITECT/ENGINEER OF RECORD STAMP
 Atriax, pllc
 703 Main Avenue SW
 PO Box 1629, Hickory, NC 28603
 Phone: 828.315.9962
 Fax: 828.315.9964
 www.atriaxgroup.com
 NC Engineering License No.: P-0214
 NC Architectural License No.: 51254

Bicsi
 REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
 BICSI License # 239554
 Expires 03/31/25
 RCD 03/08/24

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

Drawing Title
BLDG 151 - ENLARGED PLANS AND ELEVATIONS

Phase
100% CONSTRUCTION DOCUMENTS

Project Title
EHRM INFRASTRUCTURE UPGRADES

Project Number
679-20-104

Building Number
151

Location
TUSCALOOSA VAMC, TUSCALOOSA, AL.

Issue Date
03/08/2024

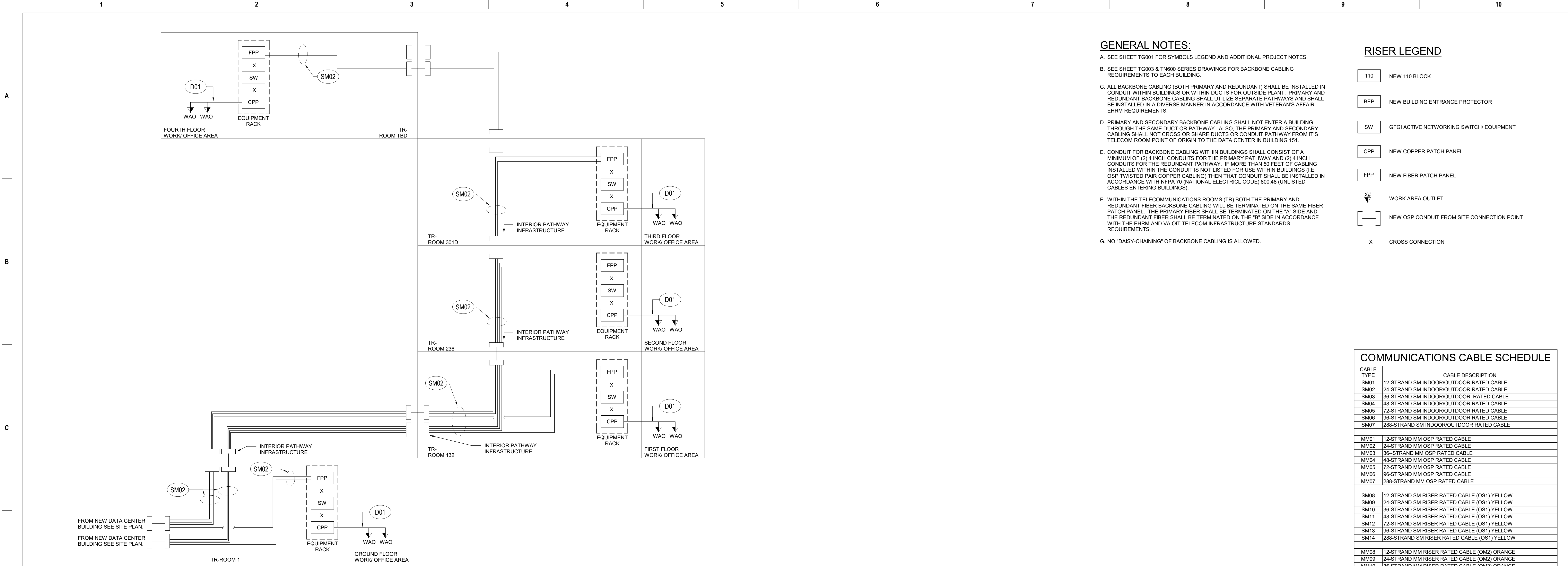
Checked
JMM

Drawn
JH

Approved: Chief Engineer
Approver

Drawing Number
TN458

FULLY SPRINKLERED



D1 BUILDING 001 FIBER RISER DIAGRAM
SCALE: NONE

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. WITHIN THE TELECOMMUNICATIONS ROOMS (TR) BOTH THE PRIMARY AND REDUNDANT FIBER BACKBONE CABLING WILL BE TERMINATED ON THE SAME FIBER PATCH PANEL. THE PRIMARY FIBER SHALL BE TERMINATED ON THE 'A' SIDE AND THE REDUNDANT FIBER SHALL BE TERMINATED ON THE 'B' SIDE IN ACCORDANCE WITH THE EHRM AND VA OIT TELECOM INFRASTRUCTURE STANDARDS REQUIREMENTS.
- G. NO 'DAISY-CHAINING' OF BACKBONE CABLING IS ALLOWED.

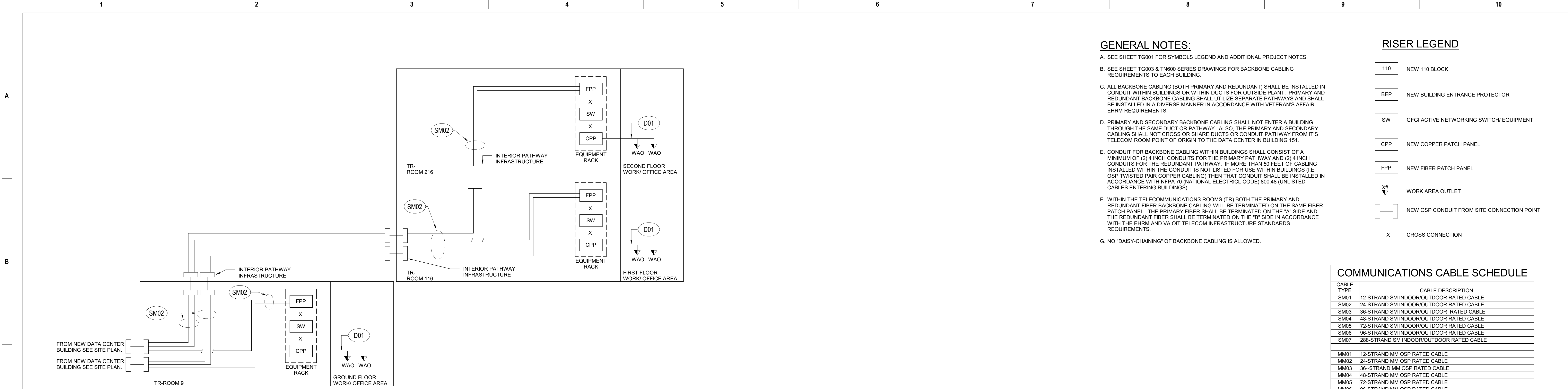
RISER LEGEND

- 110 NEW 110 BLOCK
- BEP NEW BUILDING ENTRANCE PROTECTOR
- SW GFGI ACTIVE NETWORKING SWITCH/ EQUIPMENT
- CPP NEW COPPER PATCH PANEL
- FPP NEW FIBER PATCH PANEL
- WAO WORK AREA OUTLET
- NEW OSP CONDUIT FROM SITE CONNECTION POINT
- X CROSS CONNECTION

COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM02	24-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM03	36-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM04	48-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM05	72-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM06	96-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM07	288-STRAND SM INDOOR/OUTDOOR RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	288-STRAND MM OSP RATED CABLE
SM08	12-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM09	24-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM10	36-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM11	48-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM12	72-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM13	96-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM14	288-STRAND SM RISER RATED CABLE (OS1) YELLOW
MM08	12-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM09	24-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM10	36-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM11	48-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM12	72-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM13	96-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM14	288-STRAND MM RISER RATED CABLE (OM2) ORANGE
SM15	2-STRAND (OS1) SM PLENUM RATED CABLE WITH LC CONNECTORS
MM15	2-STRAND (OM3) MM PLENUM RATED CABLE WITH LC CONNECTORS
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
C01	75 OHM COAX RG-6 CABLE
C02	75 OHM COAX RG-11 CABLE
D01	CAT6A UTP 4PR PLENUM RATED CABLE (SEE SPECIFICATIONS FOR COLOR)
D02	CAT6A STP - SELECTION OF CAT6A CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFC 3-580-01
G01	#6 AWG INSULATED CU
G02	#20 AWG INSULATED CU
G03	#30 AWG INSULATED CU

	<p>CONSULTANT</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p>	<p>STAMP</p> <p>REGISTERED COMMUNICATIONS DISTRIBUTOR DESIGNER Bicsi BICSI 107 # 219554 Expires 03/31/25 RCDD 03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>U.S. Department of Veterans Affairs</p>	<p>Drawing Title RISER DIAGRAMS - BUILDING 001</p> <p>Approved: Chief Engineer</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p> <p>FULLY SPRINKLERED</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p> <p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Project Number 679-20-104</p> <p>Building Number 001</p> <p>Drawing Number TN601</p>
<p>Revisions:</p>	<p>Date:</p>	<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>					



GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 1/4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 1/4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. WITHIN THE TELECOMMUNICATIONS ROOMS (TR) BOTH THE PRIMARY AND REDUNDANT FIBER BACKBONE CABLING WILL BE TERMINATED ON THE SAME FIBER PATCH PANEL. THE PRIMARY FIBER SHALL BE TERMINATED ON THE 'A' SIDE AND THE REDUNDANT FIBER SHALL BE TERMINATED ON THE 'B' SIDE IN ACCORDANCE WITH THE EHRM AND VA OIT TELECOM INFRASTRUCTURE STANDARDS REQUIREMENTS.
- G. NO 'DAISY-CHAINING' OF BACKBONE CABLING IS ALLOWED.

RISER LEGEND

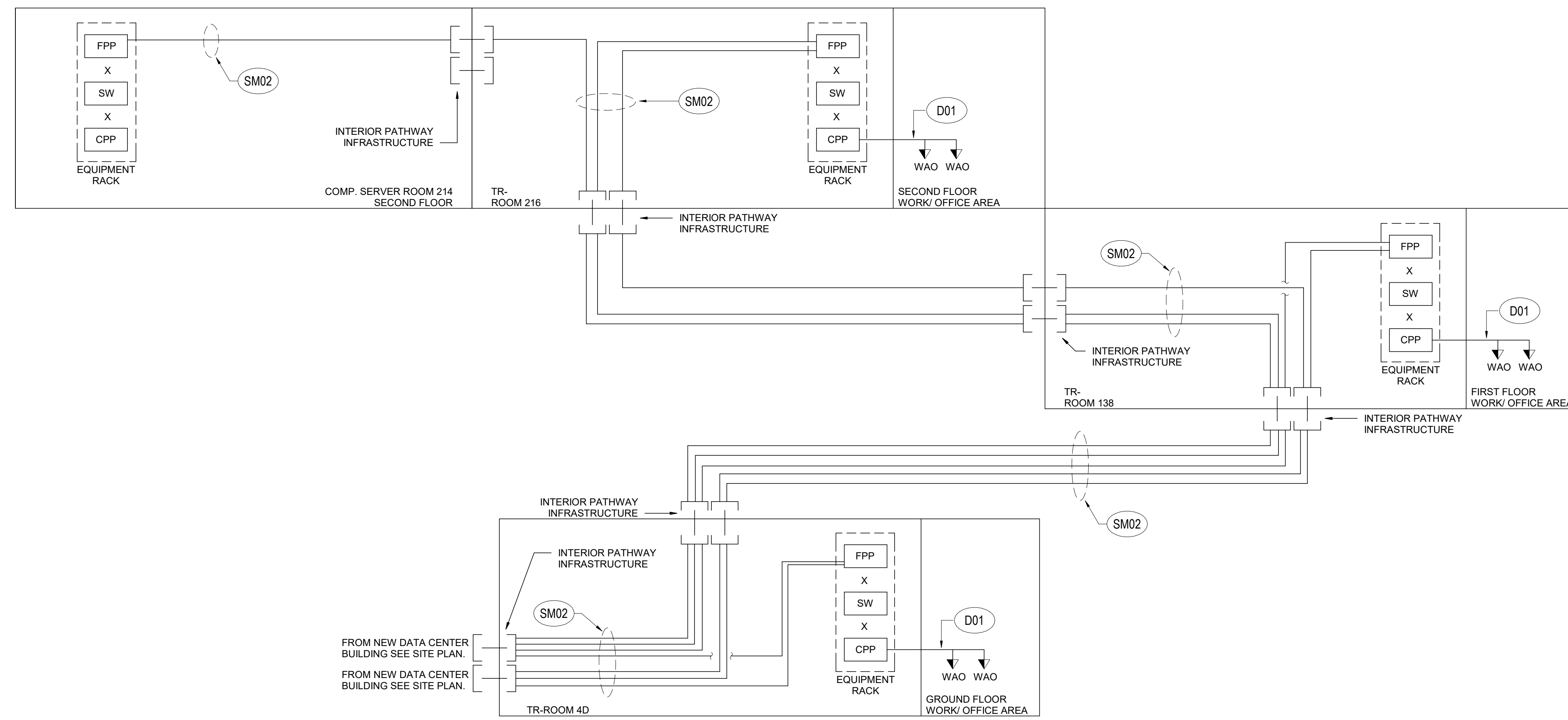
- 110 NEW 110 BLOCK
- BEP NEW BUILDING ENTRANCE PROTECTOR
- SW GFGI ACTIVE NETWORKING SWITCH/ EQUIPMENT
- CPP NEW COPPER PATCH PANEL
- FPP NEW FIBER PATCH PANEL
- X# WORK AREA OUTLET
- [] NEW OSP CONDUIT FROM SITE CONNECTION POINT
- X CROSS CONNECTION

COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM02	24-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM03	36-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM04	48-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM05	72-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM06	96-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM07	288-STRAND SM INDOOR/OUTDOOR RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	288-STRAND MM OSP RATED CABLE
SM08	12-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM09	24-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM10	36-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM11	48-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM12	72-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM13	96-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM14	288-STRAND SM RISER RATED CABLE (OS1) YELLOW
MM08	12-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM09	24-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM10	36-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM11	48-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM12	72-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM13	96-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM14	288-STRAND MM RISER RATED CABLE (OM2) ORANGE
SM15	2-STRAND (OS1) SM PLENUM RATED CABLE WITH LC CONNECTORS
MM15	2-STRAND (OM3) MM PLENUM RATED CABLE WITH LC CONNECTORS
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
C01	75 OHM COAX RG-6 CABLE
C01	75 OHM COAX RG-11 CABLE
D01	CAT6A UTP 4PR PLENUM RATED CABLE (SEE SPECIFICATIONS FOR COLOR)
D02	CAT6A STP - SELECTION OF CAT6A CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFC 3-580-01
G01	#6 AWG INSULATED CU
G02	#20 AWG INSULATED CU
G03	#30 AWG INSULATED CU

C1 BUILDING 002 FIBER RISER DIAGRAM
SCALE: NONE

	CONSULTANT <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	ARCHITECT/ENGINEER OF RECORD <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p>	STAMP <p>REGISTERED COMMUNICATIONS DISTRIBUTOR Bicsi 12000 Old Meigs Rd Batesville, TN 37025 Expires 03/31/25 RCDD 03/08/24</p>	Office of Construction and Facilities Management <p>U.S. Department of Veterans Affairs</p>	Drawing Title RISER DIAGRAMS - BUILDING 002 Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED	Project Title EHRM INFRASTRUCTURE UPGRADES Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024	Project Number 679-20-104 Building Number 002 Drawing Number TN602 Checked JMM Drawn JEH
--	--	---	--	---	---	--	--	---	--



GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. WITHIN THE TELECOMMUNICATIONS ROOMS (TR) BOTH THE PRIMARY AND REDUNDANT FIBER BACKBONE CABLING WILL BE TERMINATED ON THE SAME FIBER PATCH PANEL. THE PRIMARY FIBER SHALL BE TERMINATED ON THE 'A' SIDE AND THE REDUNDANT FIBER SHALL BE TERMINATED ON THE 'B' SIDE IN ACCORDANCE WITH THE EHRM AND VA OIT TELECOM INFRASTRUCTURE STANDARDS REQUIREMENTS.
- G. NO 'DAISY-CHAINING' OF BACKBONE CABLING IS ALLOWED.

RISER LEGEND

- 110 NEW 110 BLOCK
- BEP NEW BUILDING ENTRANCE PROTECTOR
- SW GFGI ACTIVE NETWORKING SWITCH/ EQUIPMENT
- CPP NEW COPPER PATCH PANEL
- FPP NEW FIBER PATCH PANEL
- X# WORK AREA OUTLET
- [Symbol] NEW OSP CONDUIT FROM SITE CONNECTION POINT
- X CROSS CONNECTION

COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM02	24-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM03	36-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM04	48-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM05	72-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM06	96-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM07	288-STRAND SM INDOOR/OUTDOOR RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	288-STRAND MM OSP RATED CABLE
SM08	12-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM09	24-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM10	36-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM11	48-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM12	72-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM13	96-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM14	288-STRAND SM RISER RATED CABLE (OS1) YELLOW
MM08	12-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM09	24-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM10	36-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM11	48-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM12	72-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM13	96-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM14	288-STRAND MM RISER RATED CABLE (OM2) ORANGE
SM15	2-STRAND (OS1) SM PLENUM RATED CABLE WITH LC CONNECTORS
MM15	2-STRAND (OM3) MM PLENUM RATED CABLE WITH LC CONNECTORS
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
C01	75 OHM COAX RG-6 CABLE
C01	75 OHM COAX RG-11 CABLE
D01	CAT6A UTP 4PR PLENUM RATED CABLE (SEE SPECIFICATIONS FOR COLOR)
D02	CAT6A STP - SELECTION OF CAT6A CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFC 3-580-01
G01	#6 AWG INSULATED CU
G02	#10 AWG INSULATED CU
G03	#10 AWG INSULATED CU

C1 BUILDING 003 FIBER RISER DIAGRAM
SCALE: NONE

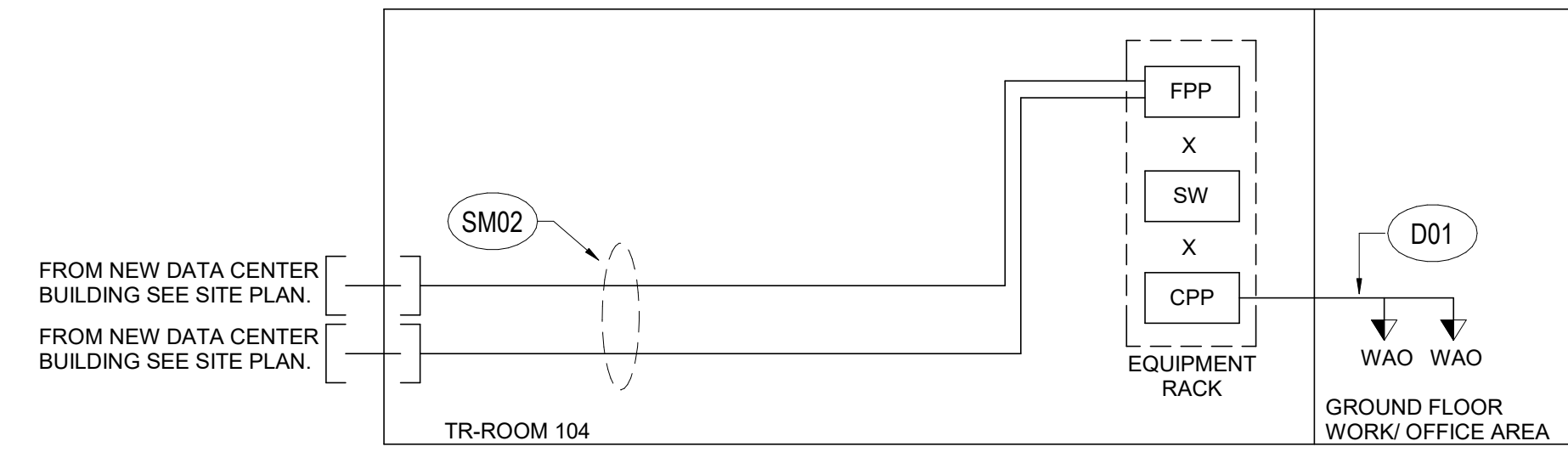
<p>CONSULTANT</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>		<p>SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>		<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax GROUP www.atriaxgroup.com</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964</p> <p>NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>		<p>STAMP</p> <p>Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICS11016239554 Expires 03/31/25 RCDD 03/08/24</p>		<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>		<p>Drawing Title RISER DIAGRAMS - BUILDING 003</p> <p>Approved: Chief Engineer</p>		<p>Phase 100% CONSTRUCTION DOCUMENTS</p> <p>FULLY SPRINKLERED</p>		<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p> <p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>		<p>Project Number 679-20-104</p> <p>Building Number 003</p> <p>Drawing Number TN603</p>	
<p>Revisions:</p>		<p>Date:</p>		<p>Issue Date: 03/08/2024</p>		<p>Checked: JMM</p>		<p>Drawn: JEH</p>		<p>Project Number: 679-20-104</p>		<p>Building Number: 003</p>		<p>Drawing Number: TN603</p>			

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. WITHIN THE TELECOMMUNICATIONS ROOMS (TR) BOTH THE PRIMARY AND REDUNDANT FIBER BACKBONE CABLING WILL BE TERMINATED ON THE SAME FIBER PATCH PANEL. THE PRIMARY FIBER SHALL BE TERMINATED ON THE 'A' SIDE AND THE REDUNDANT FIBER SHALL BE TERMINATED ON THE 'B' SIDE IN ACCORDANCE WITH THE EHRM AND VA OIT TELECOM INFRASTRUCTURE STANDARDS REQUIREMENTS.
- G. NO 'DAISY-CHAINING' OF BACKBONE CABLING IS ALLOWED.

RISER LEGEND

- 110 NEW 110 BLOCK
- BEP NEW BUILDING ENTRANCE PROTECTOR
- SW GFGI ACTIVE NETWORKING SWITCH/ EQUIPMENT
- CPP NEW COPPER PATCH PANEL
- FPP NEW FIBER PATCH PANEL
- X# WORK AREA OUTLET
- [---] NEW OSP CONDUIT FROM SITE CONNECTION POINT
- X CROSS CONNECTION

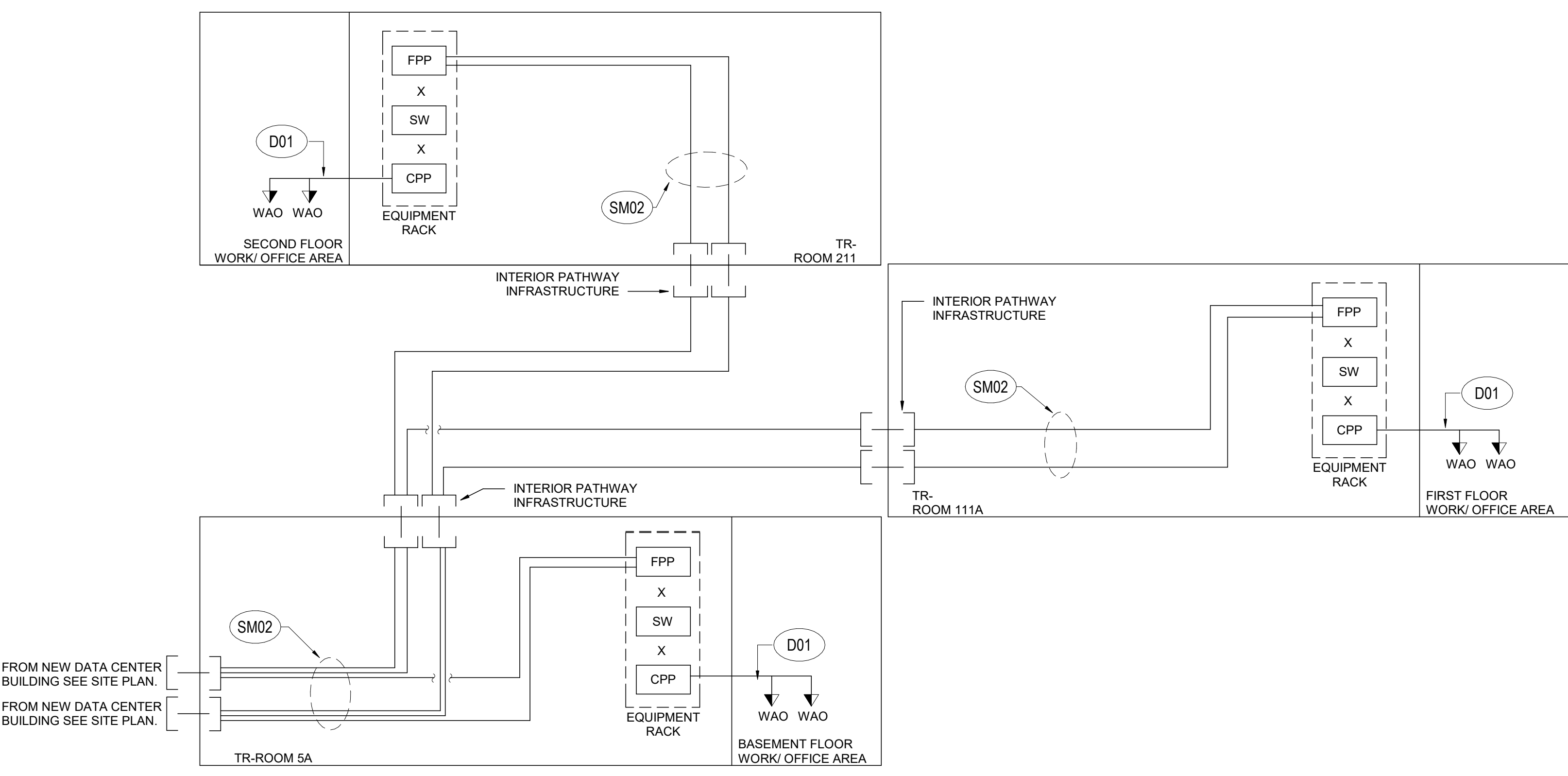


C1 BUILDING 004 FIBER RISER DIAGRAM
SCALE: NONE

COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM02	24-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM03	36-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM04	48-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM05	72-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM06	96-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM07	288-STRAND SM INDOOR/OUTDOOR RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	288-STRAND MM OSP RATED CABLE
SM08	12-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM09	24-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM10	36-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM11	48-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM12	72-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM13	96-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM14	288-STRAND SM RISER RATED CABLE (OS1) YELLOW
MM08	12-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM09	24-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM10	36-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM11	48-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM12	72-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM13	96-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM14	288-STRAND MM RISER RATED CABLE (OM2) ORANGE
SM15	2-STRAND (OS1) SM PLENUM RATED CABLE WITH LC CONNECTORS
MM15	2-STRAND (OM3) MM PLENUM RATED CABLE WITH LC CONNECTORS
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
C01	75 OHM COAX RG-6 CABLE
C01	75 OHM COAX RG-11 CABLE
D01	CAT6A UTP 4PR PLENUM RATED CABLE (SEE SPECIFICATIONS FOR COLOR)
D02	CAT6A STP - SELECTION OF CAT6A CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFC 3-580-01
G01	#6 AWG INSULATED CU
G02	#20 AWG INSULATED CU
G03	#30 AWG INSULATED CU

	<p>CONSULTANT</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p>	<p>STAMP</p> <p>RCDD 03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>U.S. Department of Veterans Affairs</p>	<p>Drawing Title RISER DIAGRAMS - BUILDING 004</p> <p>Approved: Chief Engineer</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p> <p>FULLY SPRINKLERED</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p> <p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p> <p>Issue Date 03/08/2024</p>	<p>Project Number 679-20-104</p> <p>Building Number 004</p> <p>Drawing Number TN604</p>
--	--	--	--	--	---	---	---	--	--



C1 BUILDING 005 FIBER RISER DIAGRAM
SCALE: NONE

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN800 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. WITHIN THE TELECOMMUNICATIONS ROOMS (TR) BOTH THE PRIMARY AND REDUNDANT FIBER BACKBONE CABLING WILL BE TERMINATED ON THE SAME FIBER PATCH PANEL. THE PRIMARY FIBER SHALL BE TERMINATED ON THE 'A' SIDE AND THE REDUNDANT FIBER SHALL BE TERMINATED ON THE 'B' SIDE IN ACCORDANCE WITH THE EHRM AND VA OIT TELECOM INFRASTRUCTURE STANDARDS REQUIREMENTS.
- G. NO 'DAISY-CHAINING' OF BACKBONE CABLING IS ALLOWED.

RISER LEGEND

- 110 NEW 110 BLOCK
- BEP NEW BUILDING ENTRANCE PROTECTOR
- SW GFGI ACTIVE NETWORKING SWITCH/ EQUIPMENT
- CPP NEW COPPER PATCH PANEL
- FPP NEW FIBER PATCH PANEL
- X# WORK AREA OUTLET
- NEW OSP CONDUIT FROM SITE CONNECTION POINT
- X CROSS CONNECTION

COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM02	24-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM03	36-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM04	48-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM05	72-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM06	96-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM07	288-STRAND SM INDOOR/OUTDOOR RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	288-STRAND MM OSP RATED CABLE
SM08	12-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM09	24-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM10	36-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM11	48-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM12	72-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM13	96-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM14	288-STRAND SM RISER RATED CABLE (OS1) YELLOW
MM08	12-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM09	24-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM10	36-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM11	48-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM12	72-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM13	96-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM14	288-STRAND MM RISER RATED CABLE (OM2) ORANGE
SM15	2-STRAND (OS1) SM PLENUM RATED CABLE WITH LC CONNECTORS
MM15	2-STRAND (OM3) MM PLENUM RATED CABLE WITH LC CONNECTORS
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
CO1	75 OHM COAX RG-6 CABLE
CO2	75 OHM COAX RG-11 CABLE
D01	CAT6A UTP 4PR PLENUM RATED CABLE (SEE SPECIFICATIONS FOR COLOR)
D02	CAT6A STP - SELECTION OF CAT6A CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFG 3-580-01
G01	#6 AWG INSULATED CU
G02	#2/0 AWG INSULATED CU
G03	#3/0 AWG INSULATED CU

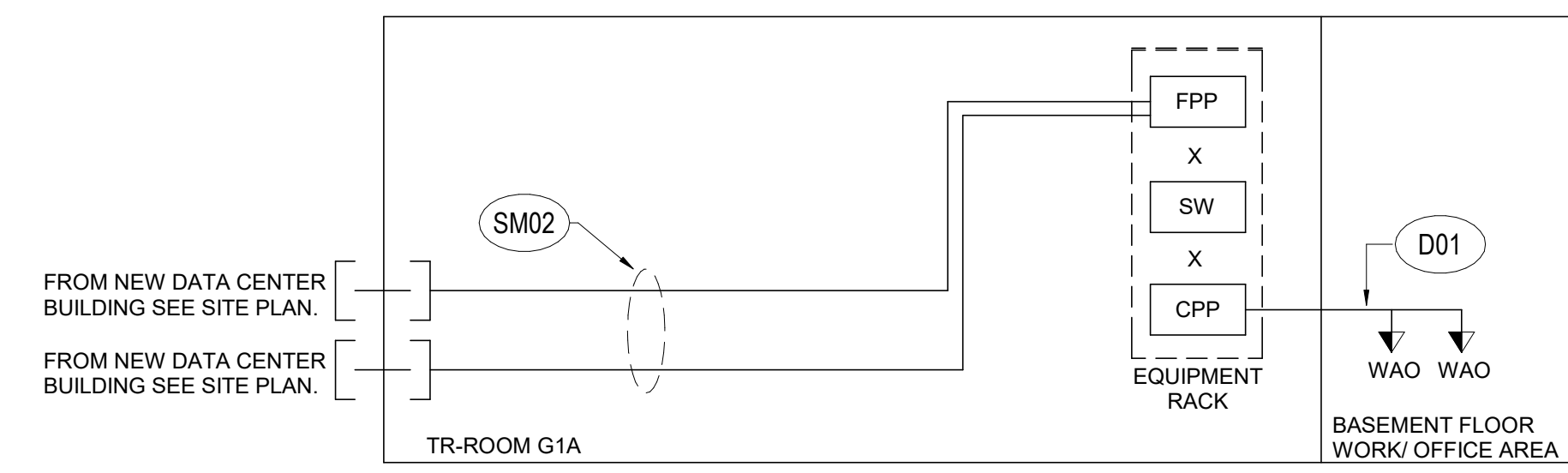
	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	 SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi Registered Communications Distributor BICSI ID # 219554 Expires 03/31/25 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title RISER DIAGRAMS - BUILDING 005 Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED	Project Title EHRM INFRASTRUCTURE UPGRADES Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024 Checked JMM Drawn JEH	Project Number 679-20-104 Building Number 005 Drawing Number TN605
--	---	---	---	---	---	---	---	--	--

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. WITHIN THE TELECOMMUNICATIONS ROOMS (TR) BOTH THE PRIMARY AND REDUNDANT FIBER BACKBONE CABLING WILL BE TERMINATED ON THE SAME FIBER PATCH PANEL. THE PRIMARY FIBER SHALL BE TERMINATED ON THE 'A' SIDE AND THE REDUNDANT FIBER SHALL BE TERMINATED ON THE 'B' SIDE IN ACCORDANCE WITH THE EHRM AND VA OIT TELECOM INFRASTRUCTURE STANDARDS REQUIREMENTS.
- G. NO 'DAISY-CHAINING' OF BACKBONE CABLING IS ALLOWED.

RISER LEGEND

- 110 NEW 110 BLOCK
- BEP NEW BUILDING ENTRANCE PROTECTOR
- SW GFGE ACTIVE NETWORKING SWITCH/EQUIPMENT
- CPP NEW COPPER PATCH PANEL
- FPP NEW FIBER PATCH PANEL
- X# WORK AREA OUTLET
- NEW OSP CONDUIT FROM SITE CONNECTION POINT
- X CROSS CONNECTION



C1 BUILDING 006 FIBER RISER DIAGRAM
SCALE: NONE

COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM02	24-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM03	36-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM04	48-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM05	72-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM06	96-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM07	288-STRAND SM INDOOR/OUTDOOR RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	288-STRAND MM OSP RATED CABLE
SM08	12-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM09	24-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM10	36-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM11	48-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM12	72-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM13	96-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM14	288-STRAND SM RISER RATED CABLE (OS1) YELLOW
MM08	12-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM09	24-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM10	36-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM11	48-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM12	72-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM13	96-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM14	288-STRAND MM RISER RATED CABLE (OM2) ORANGE
SM15	2-STRAND (OS1) SM PLENUM RATED CABLE WITH LC CONNECTORS
MM15	2-STRAND (OM3) MM PLENUM RATED CABLE WITH LC CONNECTORS
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
C01	75 OHM COAX RG-6 CABLE
C01	75 OHM COAX RG-11 CABLE
D01	CAT6A UTP 4PR PLENUM RATED CABLE (SEE SPECIFICATIONS FOR COLOR)
D02	CAT6A STP - SELECTION OF CAT6A CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFC 3-580-01
G01	#6 AWG INSULATED CU
G02	#20 AWG INSULATED CU
G03	#30 AWG INSULATED CU

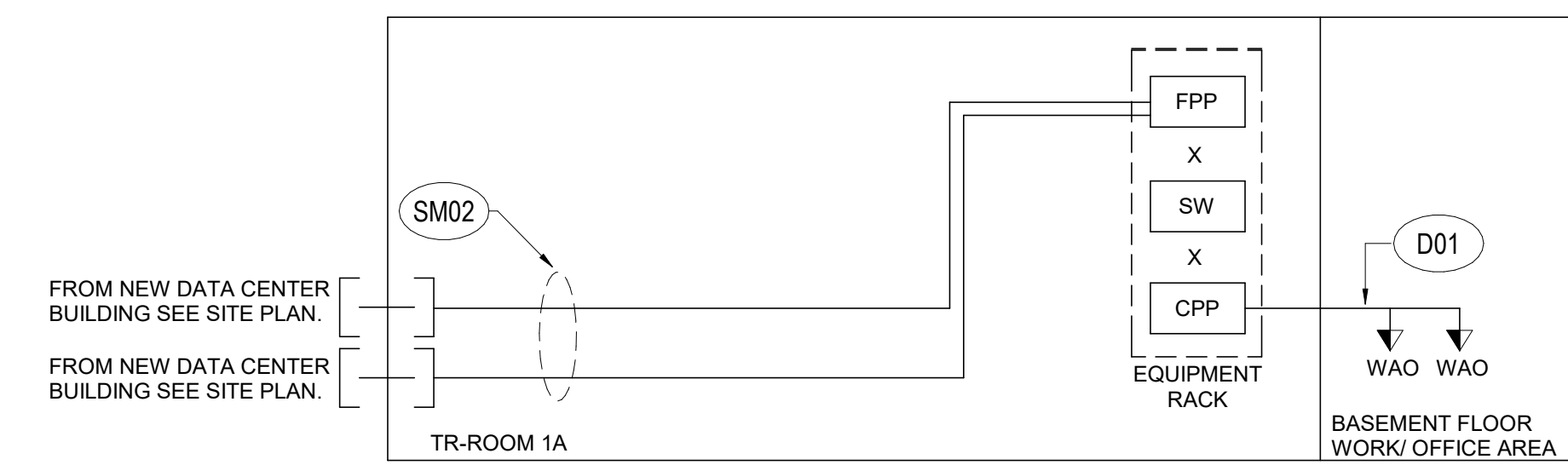
	<p>CONSULTANT</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p>	<p>STAMP</p> <p>REGISTERED COMMUNICATIONS DISTRIBUTOR Bicsi 30244 Main Ave, Suite 200 Batesville, TN 37020 Expires 03/31/25 RCDD 03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>U.S. Department of Veterans Affairs</p>	<p>Drawing Title RISER DIAGRAMS - BUILDING 006</p> <p>Approved: Chief Engineer</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p> <p>FULLY SPRINKLERED</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p> <p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p> <p>Issue Date 03/08/2024</p>	<p>Project Number 679-20-104</p> <p>Building Number 006</p> <p>Drawing Number TN606</p> <p>Checked JMM</p> <p>Drawn JEH</p>
--	--	--	--	--	---	--	---	--	--

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. WITHIN THE TELECOMMUNICATIONS ROOMS (TR) BOTH THE PRIMARY AND REDUNDANT FIBER BACKBONE CABLING WILL BE TERMINATED ON THE SAME FIBER PATCH PANEL. THE PRIMARY FIBER SHALL BE TERMINATED ON THE 'A' SIDE AND THE REDUNDANT FIBER SHALL BE TERMINATED ON THE 'B' SIDE IN ACCORDANCE WITH THE EHRM AND VA OIT TELECOM INFRASTRUCTURE STANDARDS REQUIREMENTS.
- G. NO "DAISY-CHAINING" OF BACKBONE CABLING IS ALLOWED.

RISER LEGEND

- 110 NEW 110 BLOCK
- BEP NEW BUILDING ENTRANCE PROTECTOR
- SW GFGI ACTIVE NETWORKING SWITCH/ EQUIPMENT
- CPP NEW COPPER PATCH PANEL
- FFP NEW FIBER PATCH PANEL
- X# WORK AREA OUTLET
- NEW OSP CONDUIT FROM SITE CONNECTION POINT
- X CROSS CONNECTION



C1 BUILDING 012 FIBER RISER DIAGRAM
SCALE: NONE

COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM02	24-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM03	36-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM04	48-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM05	72-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM06	96-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM07	288-STRAND SM INDOOR/OUTDOOR RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	288-STRAND MM OSP RATED CABLE
SM08	12-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM09	24-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM10	36-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM11	48-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM12	72-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM13	96-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM14	288-STRAND SM RISER RATED CABLE (OS1) YELLOW
MM08	12-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM09	24-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM10	36-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM11	48-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM12	72-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM13	96-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM14	288-STRAND MM RISER RATED CABLE (OM2) ORANGE
SM15	2-STRAND (OS1) SM PLENUM RATED CABLE WITH LC CONNECTORS
MM15	2-STRAND (OM3) MM PLENUM RATED CABLE WITH LC CONNECTORS
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
C01	75 OHM COAX RG-6 CABLE
D01	75 OHM COAX RG-11 CABLE
D02	CAT6A UTP 4PR PLENUM RATED CABLE (SEE SPECIFICATIONS FOR COLOR)
D03	CAT6A STP - SELECTION OF CAT6A CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFC 3-580-01
G01	#6 AWG INSULATED CU
G02	#20 AWG INSULATED CU
G03	#30 AWG INSULATED CU

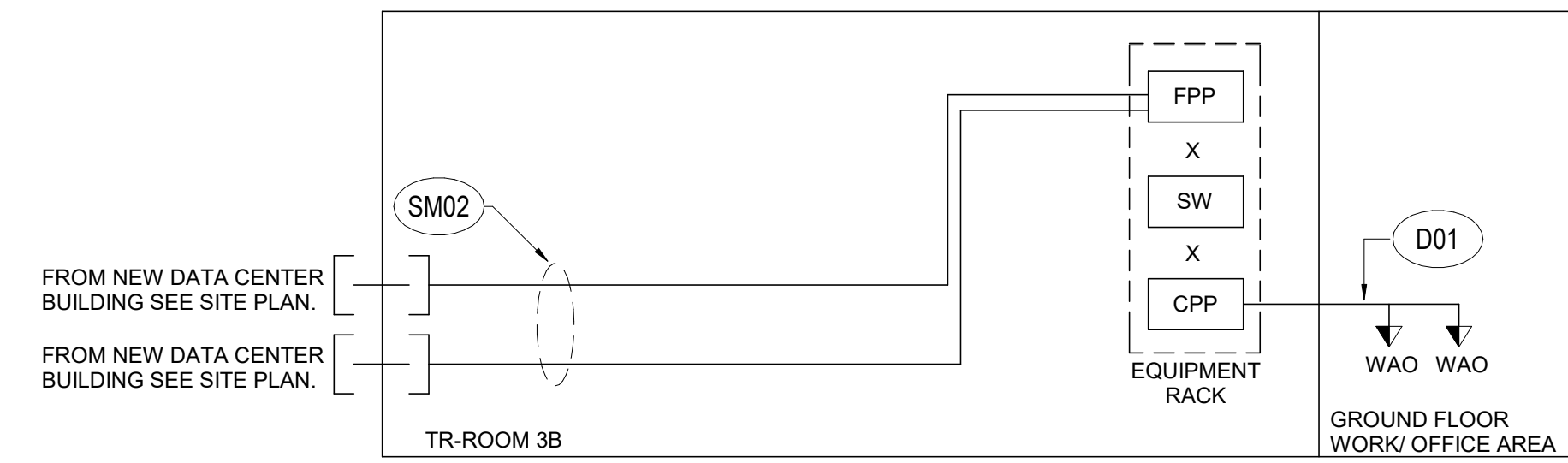
	<p>CONSULTANT</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p>	<p>STAMP</p> <p>Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICS11078 2/19/2024 Expires 2/19/25 RCD 03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>U.S. Department of Veterans Affairs</p>	<p>Drawing Title RISER DIAGRAMS - BUILDING 012</p> <p>Approved: Chief Engineer</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p> <p>FULLY SPRINKLERED</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p> <p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p> <p>Issue Date 03/08/2024</p> <p>Checked JMM</p> <p>Drawn JEH</p>	<p>Project Number 679-20-104</p> <p>Building Number 012</p> <p>Drawing Number TN607</p>
--	--	--	---	---	--	---	--	--

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. WITHIN THE TELECOMMUNICATIONS ROOMS (TR) BOTH THE PRIMARY AND REDUNDANT FIBER BACKBONE CABLING WILL BE TERMINATED ON THE SAME FIBER PATCH PANEL. THE PRIMARY FIBER SHALL BE TERMINATED ON THE 'A' SIDE AND THE REDUNDANT FIBER SHALL BE TERMINATED ON THE 'B' SIDE IN ACCORDANCE WITH THE EHRM AND VA OIT TELECOM INFRASTRUCTURE STANDARDS REQUIREMENTS.
- G. NO 'DAISY-CHAINING' OF BACKBONE CABLING IS ALLOWED.

RISER LEGEND

- 110 NEW 110 BLOCK
- BEP NEW BUILDING ENTRANCE PROTECTOR
- SW GFGI ACTIVE NETWORKING SWITCH/ EQUIPMENT
- CPP NEW COPPER PATCH PANEL
- PPP NEW FIBER PATCH PANEL
- X# WORK AREA OUTLET
- [] NEW OSP CONDUIT FROM SITE CONNECTION POINT
- X CROSS CONNECTION



C1 BUILDING 017 FIBER RISER DIAGRAM
SCALE: NONE

COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM02	24-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM03	36-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM04	48-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM05	72-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM06	96-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM07	288-STRAND SM INDOOR/OUTDOOR RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	288-STRAND MM OSP RATED CABLE
SM08	12-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM09	24-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM10	36-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM11	48-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM12	72-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM13	96-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM14	288-STRAND SM RISER RATED CABLE (OS1) YELLOW
MM08	12-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM09	24-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM10	36-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM11	48-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM12	72-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM13	96-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM14	288-STRAND MM RISER RATED CABLE (OM2) ORANGE
SM15	2-STRAND (OS1) SM PLENUM RATED CABLE WITH LC CONNECTORS
MM15	2-STRAND (OM3) MM PLENUM RATED CABLE WITH LC CONNECTORS
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
C01	75 OHM COAX RG-6 CABLE
C01	75 OHM COAX RG-11 CABLE
D01	CAT6A UTP 4PR PLENUM RATED CABLE (SEE SPECIFICATIONS FOR COLOR)
D02	CAT6A STP - SELECTION OF CAT6A CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFC 3-580-01
G01	#6 AWG INSULATED CU
G02	#20 AWG INSULATED CU
G03	#30 AWG INSULATED CU

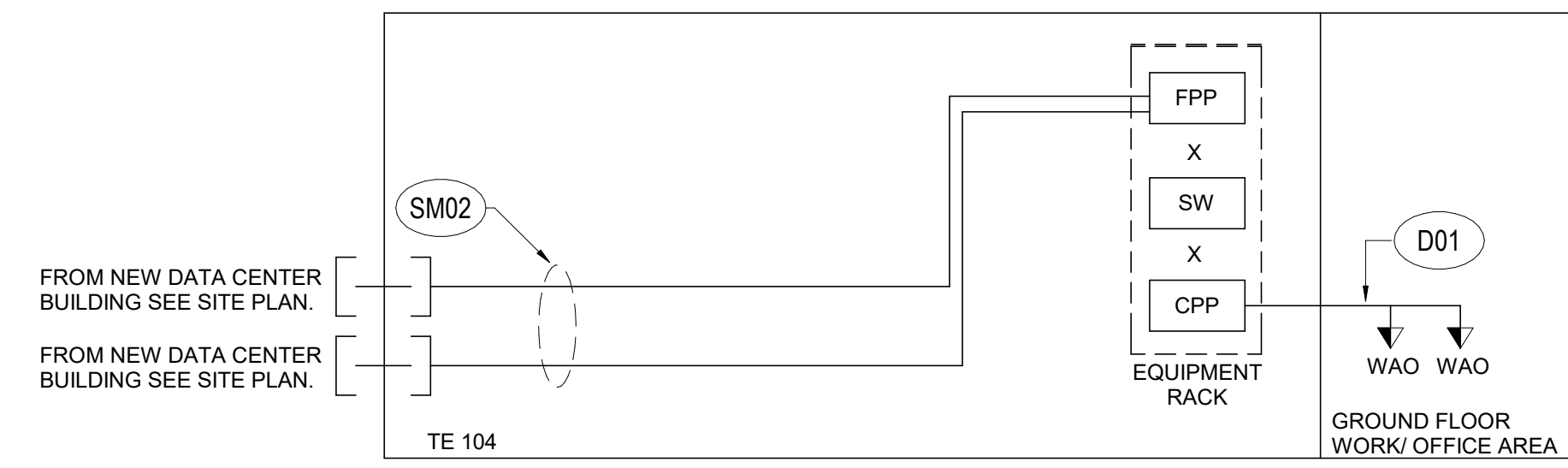
	<p>CONSULTANT</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p>	<p>STAMP</p> <p>Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER RES-10 # 219954 E-ENG-001-25 RCD 03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>U.S. Department of Veterans Affairs</p>	<p>Drawing Title RISER DIAGRAMS - BUILDING 017</p> <p>Approved: Chief Engineer</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p> <p>FULLY SPRINKLERED</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p> <p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p> <p>Issue Date 03/08/2024</p> <p>Checked JMM</p> <p>Drawn JEH</p>	<p>Project Number 679-20-104</p> <p>Building Number 017</p> <p>Drawing Number TN608</p>
--	--	--	--	--	---	--	---	--	--

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. WITHIN THE TELECOMMUNICATIONS ROOMS (TR) BOTH THE PRIMARY AND REDUNDANT FIBER BACKBONE CABLING WILL BE TERMINATED ON THE SAME FIBER PATCH PANEL. THE PRIMARY FIBER SHALL BE TERMINATED ON THE 'A' SIDE AND THE REDUNDANT FIBER SHALL BE TERMINATED ON THE 'B' SIDE IN ACCORDANCE WITH THE EHRM AND VA OIT TELECOM INFRASTRUCTURE STANDARDS REQUIREMENTS.
- G. NO 'DAISY-CHAINING' OF BACKBONE CABLING IS ALLOWED.

RISER LEGEND

- 110 NEW 110 BLOCK
- BEP NEW BUILDING ENTRANCE PROTECTOR
- SW GFGI ACTIVE NETWORKING SWITCH/ EQUIPMENT
- CPP NEW COPPER PATCH PANEL
- FPP NEW FIBER PATCH PANEL
- X# WORK AREA OUTLET
- NEW OSP CONDUIT FROM SITE CONNECTION POINT
- X CROSS CONNECTION



C1 BUILDING 018 FIBER RISER DIAGRAM
SCALE: NONE

COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM02	24-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM03	36-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM04	48-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM05	72-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM06	96-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM07	288-STRAND SM INDOOR/OUTDOOR RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	288-STRAND MM OSP RATED CABLE
SM08	12-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM09	24-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM10	36-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM11	48-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM12	72-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM13	96-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM14	288-STRAND SM RISER RATED CABLE (OS1) YELLOW
MM08	12-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM09	24-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM10	36-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM11	48-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM12	72-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM13	96-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM14	288-STRAND MM RISER RATED CABLE (OM2) ORANGE
SM15	2-STRAND (OS1) SM PLENUM RATED CABLE WITH LC CONNECTORS
MM15	2-STRAND (OM3) MM PLENUM RATED CABLE WITH LC CONNECTORS
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
C01	75 OHM COAX RG-6 CABLE
C01	75 OHM COAX RG-11 CABLE
D01	CAT6A UTP 4PR PLENUM RATED CABLE (SEE SPECIFICATIONS FOR COLOR)
D02	CAT6A STP - SELECTION OF CAT6A CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFC 3-580-01
G01	#6 AWG INSULATED CU
G02	#20 AWG INSULATED CU
G03	#30 AWG INSULATED CU

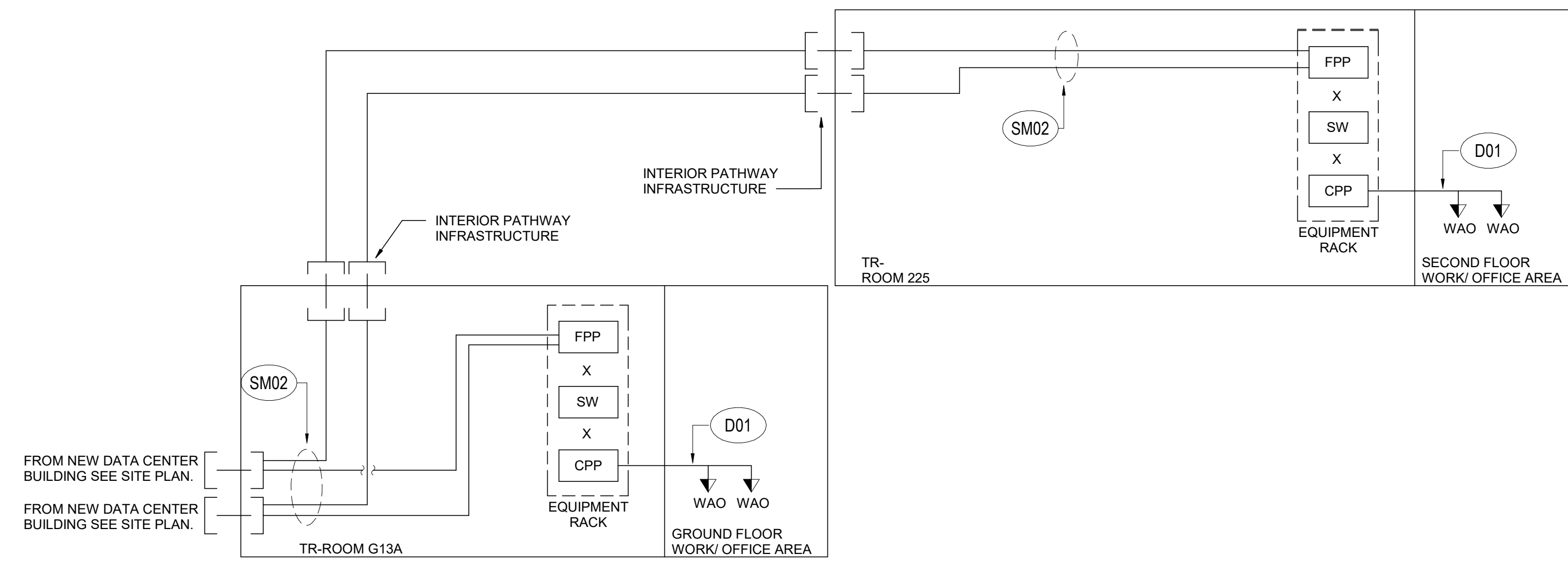
	<p>CONSULTANT</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p>	<p>STAMP</p>	<p>Office of Construction and Facilities Management</p> <p>U.S. Department of Veterans Affairs</p>	<p>Drawing Title RISER DIAGRAMS - BUILDING 018</p> <p>Approved: Chief Engineer</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p> <p>FULLY SPRINKLERED</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p> <p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Project Number 679-20-104</p> <p>Building Number 018</p> <p>Drawing Number TN609</p>
<p>Revisions:</p>	<p>Date:</p>	<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>					

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN800 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 1/4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 1/4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. WITHIN THE TELECOMMUNICATIONS ROOMS (TR) BOTH THE PRIMARY AND REDUNDANT FIBER BACKBONE CABLING WILL BE TERMINATED ON THE SAME FIBER PATCH PANEL. THE PRIMARY FIBER SHALL BE TERMINATED ON THE 'A' SIDE AND THE REDUNDANT FIBER SHALL BE TERMINATED ON THE 'B' SIDE IN ACCORDANCE WITH THE EHRM AND VA OIT TELECOM INFRASTRUCTURE STANDARDS REQUIREMENTS.
- G. NO 'DAISY-CHAINING' OF BACKBONE CABLING IS ALLOWED.

RISER LEGEND

- 110 NEW 110 BLOCK
- BEP NEW BUILDING ENTRANCE PROTECTOR
- SW GFGI ACTIVE NETWORKING SWITCH/ EQUIPMENT
- CPP NEW COPPER PATCH PANEL
- FFP NEW FIBER PATCH PANEL
- X# WORK AREA OUTLET
- NEW OSP CONDUIT FROM SITE CONNECTION POINT
- X CROSS CONNECTION



C1 BUILDING 038 FIBER RISER DIAGRAM
SCALE: NONE

COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM02	24-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM03	36-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM04	48-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM05	72-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM06	96-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM07	288-STRAND SM INDOOR/OUTDOOR RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	288-STRAND MM OSP RATED CABLE
SM08	12-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM09	24-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM10	36-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM11	48-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM12	72-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM13	96-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM14	288-STRAND SM RISER RATED CABLE (OS1) YELLOW
MM08	12-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM09	24-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM10	36-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM11	48-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM12	72-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM13	96-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM14	288-STRAND MM RISER RATED CABLE (OM2) ORANGE
SM15	2-STRAND (OS1) SM PLENUM RATED CABLE WITH LC CONNECTORS
MM15	2-STRAND (OM3) MM PLENUM RATED CABLE WITH LC CONNECTORS
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
C01	75 OHM COAX RG-6 CABLE
D01	CAT6A UTP 4PR PLENUM RATED CABLE (SEE SPECIFICATIONS FOR COLOR)
D02	CAT6A STP - SELECTION OF CAT6A CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFC 3-580-01
G01	#6 AWG INSULATED CU
G02	#20 AWG INSULATED CU
G03	#30 AWG INSULATED CU

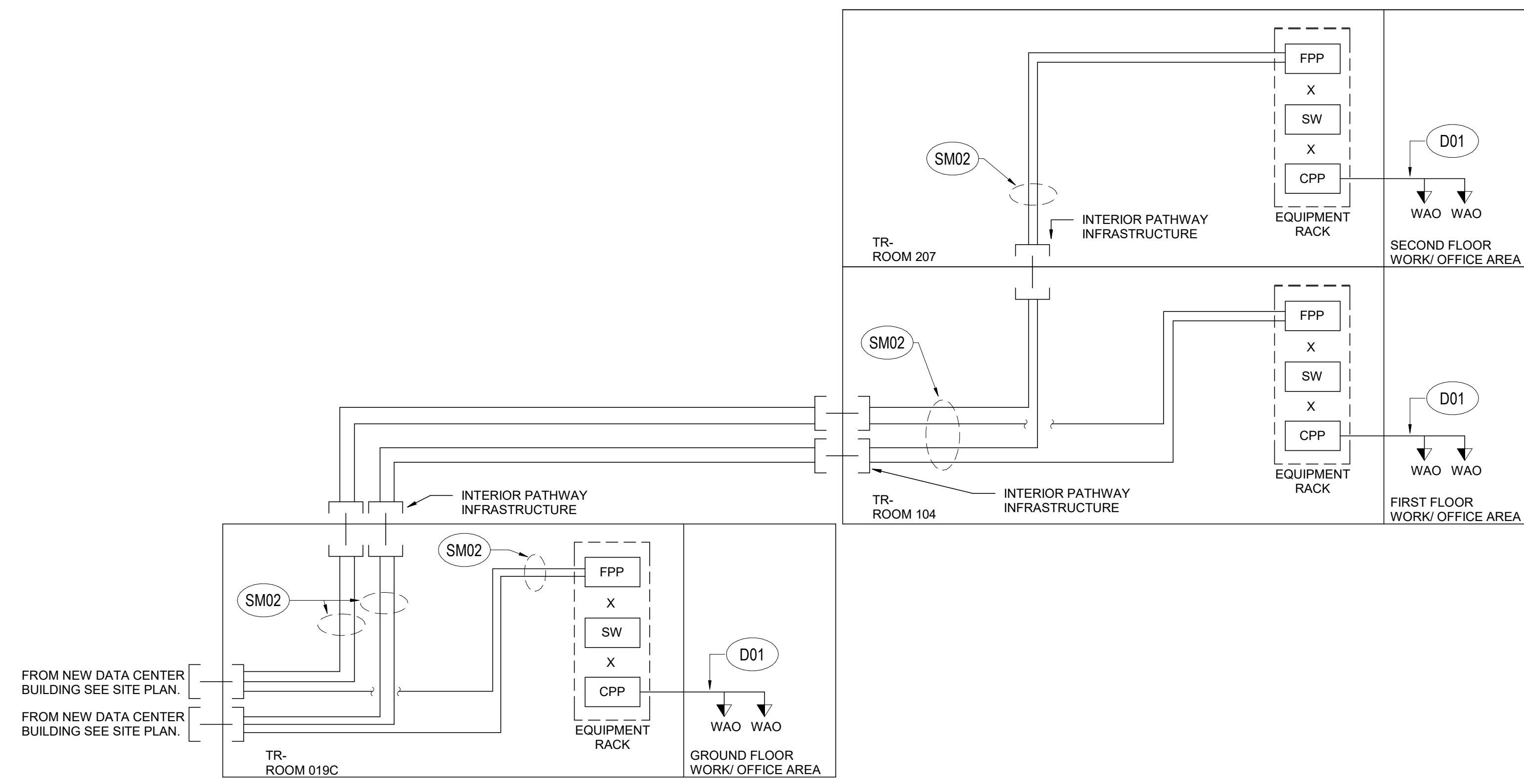
	<p>CONSULTANT</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p>	<p>STAMP</p> <p>Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICS11076 2/28/2024 Expires 2/28/25 RCD 03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>U.S. Department of Veterans Affairs</p>	<p>Drawing Title RISER DIAGRAMS - BUILDING 038</p> <p>Approved: Chief Engineer</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p> <p>FULLY SPRINKLERED</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p> <p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Project Number 679-20-104</p> <p>Building Number 038</p> <p>Drawing Number TN610</p>
<p>Revisions:</p>	<p>Date:</p>	<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>					

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN800 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. WITHIN THE TELECOMMUNICATIONS ROOMS (TR) BOTH THE PRIMARY AND REDUNDANT FIBER BACKBONE CABLING WILL BE TERMINATED ON THE SAME FIBER PATCH PANEL. THE PRIMARY FIBER SHALL BE TERMINATED ON THE 'A' SIDE AND THE REDUNDANT FIBER SHALL BE TERMINATED ON THE 'B' SIDE IN ACCORDANCE WITH THE EHRM AND VA OIT TELECOM INFRASTRUCTURE STANDARDS REQUIREMENTS.
- G. NO "DAISY-CHAINING" OF BACKBONE CABLING IS ALLOWED.

RISER LEGEND

- 110 NEW 110 BLOCK
- BEP NEW BUILDING ENTRANCE PROTECTOR
- SW GFGI ACTIVE NETWORKING SWITCH/ EQUIPMENT
- CPP NEW COPPER PATCH PANEL
- FPP NEW FIBER PATCH PANEL
- WAO WORK AREA OUTLET
- NEW OSP CONDUIT FROM SITE CONNECTION POINT
- X CROSS CONNECTION



C1 BUILDING 039 FIBER RISER DIAGRAM
SCALE: NONE

COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM02	24-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM03	36-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM04	48-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM05	72-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM06	96-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM07	288-STRAND SM INDOOR/OUTDOOR RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	288-STRAND MM OSP RATED CABLE
SM08	12-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM09	24-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM10	36-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM11	48-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM12	72-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM13	96-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM14	288-STRAND SM RISER RATED CABLE (OS1) YELLOW
MM08	12-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM09	24-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM10	36-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM11	48-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM12	72-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM13	96-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM14	288-STRAND MM RISER RATED CABLE (OM2) ORANGE
SM15	2-STRAND (OS1) SM PLENUM RATED CABLE WITH LC CONNECTORS
MM15	2-STRAND (OM3) MM PLENUM RATED CABLE WITH LC CONNECTORS
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
C01	75 OHM COAX RG-6 CABLE
C01	75 OHM COAX RG-11 CABLE
D01	CAT6A UTP 4PR PLENUM RATED CABLE (SEE SPECIFICATIONS FOR COLOR)
D02	CAT6A STP - SELECTION OF CAT6A CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFC 3-580-01
G01	#6 AWG INSULATED CU
G02	#20 AWG INSULATED CU
G03	#30 AWG INSULATED CU

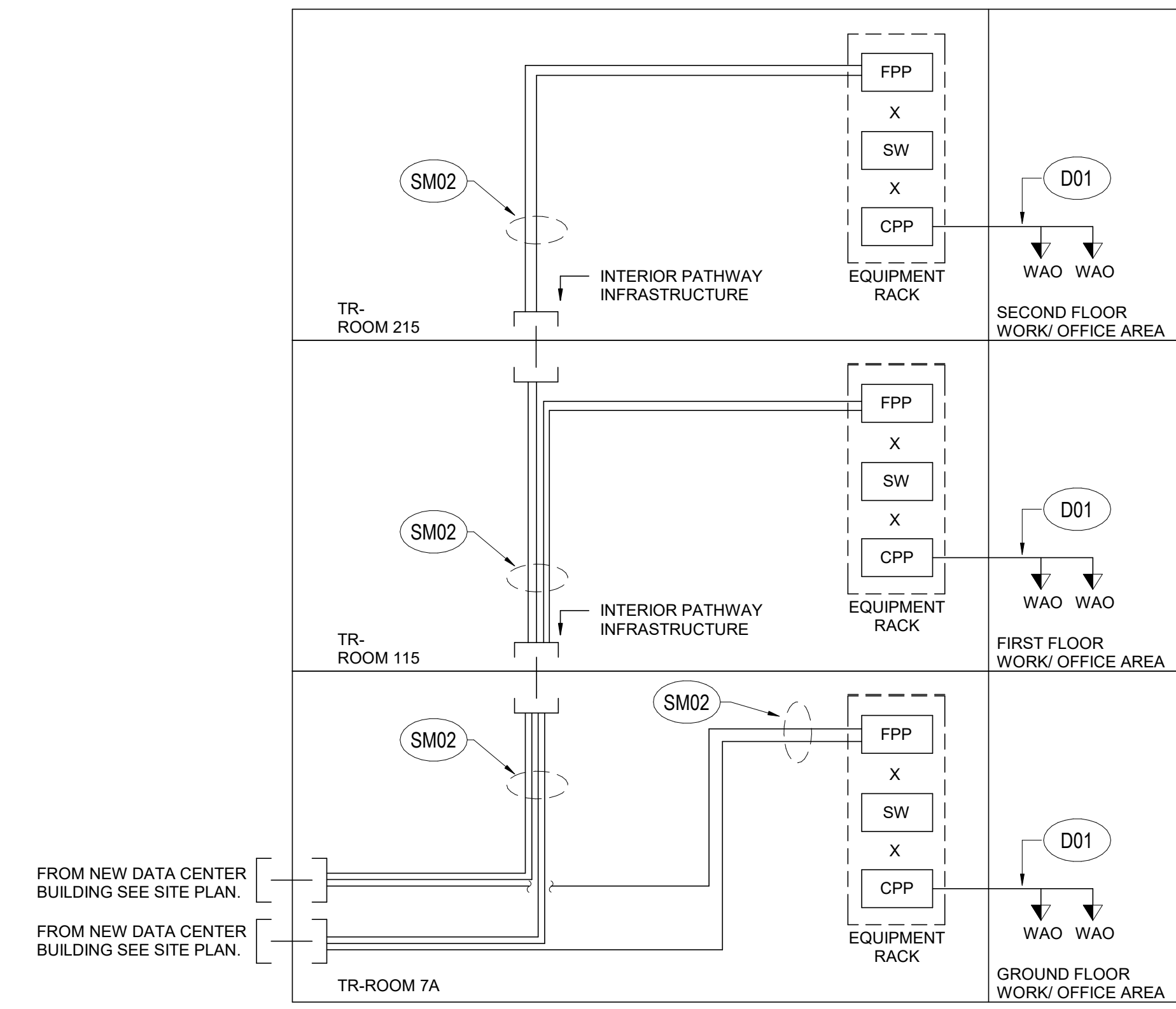
	CONSULTANT <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	ARCHITECT/ENGINEER OF RECORD <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	STAMP <p>REGISTERED COMMUNICATIONS DISTRIBUTOR Bicsi 2024-08-01 to 2025-08-01 BICSI ID # 219954 Expires 08-01-25 RCD 03/08/24</p>	Office of Construction and Facilities Management <p>U.S. Department of Veterans Affairs</p>	Drawing Title RISER DIAGRAMS - BUILDING 039 Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED	Project Title EHRM INFRASTRUCTURE UPGRADES Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024 Checked JMM Drawn JEH	Project Number 679-20-104 Building Number 039 Drawing Number TN611
--	--	---	---	---	---	---	---	--	--

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. WITHIN THE TELECOMMUNICATIONS ROOMS (TR) BOTH THE PRIMARY AND REDUNDANT FIBER BACKBONE CABLING WILL BE TERMINATED ON THE SAME FIBER PATCH PANEL. THE PRIMARY FIBER SHALL BE TERMINATED ON THE 'A' SIDE AND THE REDUNDANT FIBER SHALL BE TERMINATED ON THE 'B' SIDE IN ACCORDANCE WITH THE EHRM AND VA OIT TELECOM INFRASTRUCTURE STANDARDS REQUIREMENTS.
- G. NO "DAISY-CHAINING" OF BACKBONE CABLING IS ALLOWED.

RISER LEGEND

- 110 NEW 110 BLOCK
- BEP NEW BUILDING ENTRANCE PROTECTOR
- SW GF/GI ACTIVE NETWORKING SWITCH/ EQUIPMENT
- CPP NEW COPPER PATCH PANEL
- FPP NEW FIBER PATCH PANEL
- W# WORK AREA OUTLET
- NEW OSP CONDUIT FROM SITE CONNECTION POINT
- X CROSS CONNECTION



C1 BUILDING 040 FIBER RISER DIAGRAM
SCALE: NONE

COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM02	24-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM03	36-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM04	48-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM05	72-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM06	96-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM07	288-STRAND SM INDOOR/OUTDOOR RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	288-STRAND MM OSP RATED CABLE
SM08	12-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM09	24-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM10	36-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM11	48-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM12	72-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM13	96-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM14	288-STRAND SM RISER RATED CABLE (OS1) YELLOW
MM08	12-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM09	24-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM10	36-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM11	48-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM12	72-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM13	96-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM14	288-STRAND MM RISER RATED CABLE (OM2) ORANGE
SM15	2-STRAND (OS1) SM PLENUM RATED CABLE WITH LC CONNECTORS
MM15	2-STRAND (OM3) MM PLENUM RATED CABLE WITH LC CONNECTORS
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
C01	75 OHM COAX RG-6 CABLE
C01	75 OHM COAX RG-11 CABLE
D01	CAT6A UTP 4PR PLENUM RATED CABLE (SEE SPECIFICATIONS FOR COLOR)
D02	CAT6A STP - SELECTION OF CAT6A CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFC 3-580-01
G01	#6 AWG INSULATED CU
G02	#2/0 AWG INSULATED CU
G03	#3/0 AWG INSULATED CU

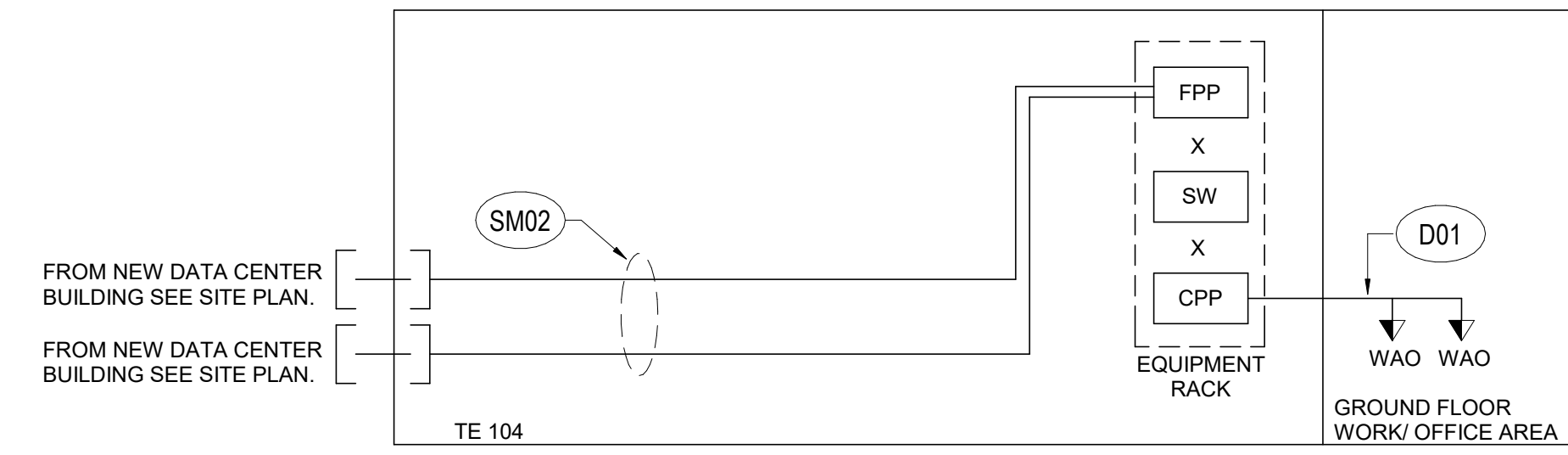
	CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	 SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP Bicsi Registered Communications Distributor 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title RISER DIAGRAMS - BUILDING 040 Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED	Project Title EHRM INFRASTRUCTURE UPGRADES Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024 Checked JMM Drawn JEH	Project Number 679-20-104 Building Number 040 Drawing Number TN612
--	---	---	---	--	---	---	---	---	--

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 90 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. WITHIN THE TELECOMMUNICATIONS ROOMS (TR) BOTH THE PRIMARY AND REDUNDANT FIBER BACKBONE CABLING WILL BE TERMINATED ON THE SAME FIBER PATCH PANEL. THE PRIMARY FIBER SHALL BE TERMINATED ON THE "A" SIDE AND THE REDUNDANT FIBER SHALL BE TERMINATED ON THE "B" SIDE IN ACCORDANCE WITH THE EHRM AND VA OTI TELECOM INFRASTRUCTURE STANDARDS REQUIREMENTS.
- G. NO "DAISY-CHAINING" OF BACKBONE CABLING IS ALLOWED.

RISER LEGEND

- 110 NEW 110 BLOCK
- BEP NEW BUILDING ENTRANCE PROTECTOR
- SW GFGI ACTIVE NETWORKING SWITCH/ EQUIPMENT
- CPP NEW COPPER PATCH PANEL
- FPP NEW FIBER PATCH PANEL
- X# WORK AREA OUTLET
- [] NEW OSP CONDUIT FROM SITE CONNECTION POINT
- X CROSS CONNECTION



C1 BUILDING 041 FIBER RISER DIAGRAM
SCALE: NONE

COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM02	24-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM03	36-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM04	48-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM05	72-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM06	96-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM07	288-STRAND SM INDOOR/OUTDOOR RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	288-STRAND MM OSP RATED CABLE
SM08	12-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM09	24-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM10	36-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM11	48-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM12	72-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM13	96-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM14	288-STRAND SM RISER RATED CABLE (OS1) YELLOW
MM08	12-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM09	24-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM10	36-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM11	48-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM12	72-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM13	96-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM14	288-STRAND MM RISER RATED CABLE (OM2) ORANGE
SM15	2-STRAND (OS1) SM PLENUM RATED CABLE WITH LC CONNECTORS
MM15	2-STRAND (OM3) MM PLENUM RATED CABLE WITH LC CONNECTORS
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
C01	75 OHM COAX RG-6 CABLE
C01	75 OHM COAX RG-11 CABLE
D01	CAT6A UTP 4PR PLENUM RATED CABLE (SEE SPECIFICATIONS FOR COLOR)
D02	CAT6A STP - SELECTION OF CAT6A CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFC 3-580-01
G01	#6 AWG INSULATED CU
G02	#20 AWG INSULATED CU
G03	#30 AWG INSULATED CU

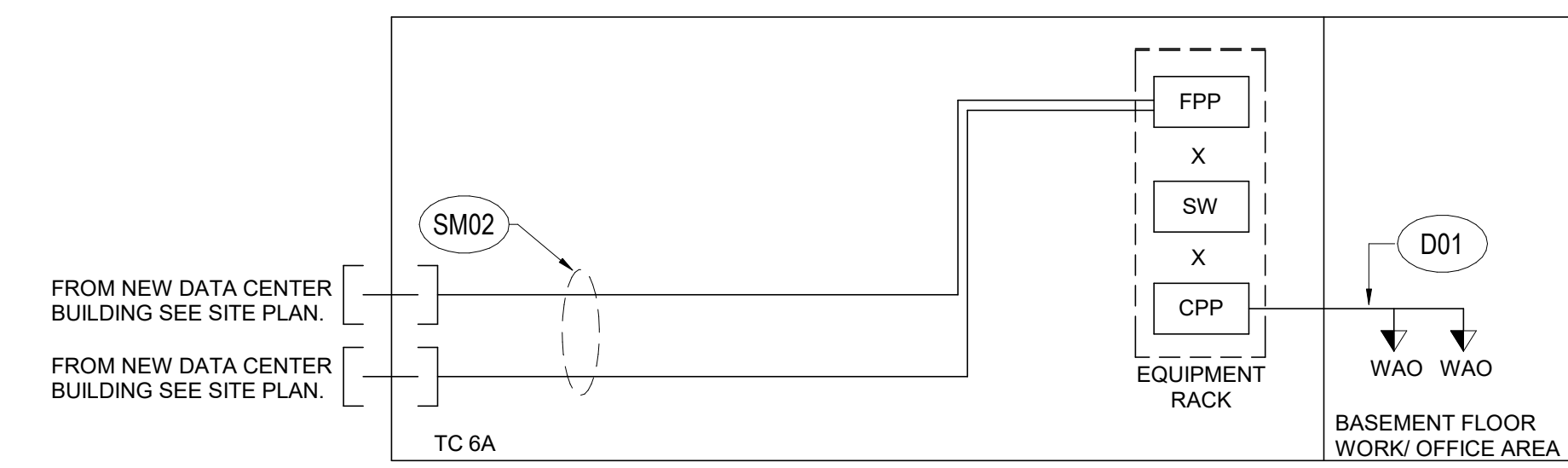
	<p>CONSULTANT</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p>	<p>STAMP</p>	<p>Office of Construction and Facilities Management</p> <p>U.S. Department of Veterans Affairs</p>	<p>Drawing Title RISER DIAGRAMS - BUILDING 041</p> <p>Approved: Chief Engineer</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p> <p>FULLY SPRINKLERED</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p> <p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p> <p>Issue Date 03/08/2024</p>	<p>Project Number 679-20-104</p> <p>Building Number 041</p> <p>Drawing Number TN613</p>
--	--	--	--	---------------------	---	--	---	--	--

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN800 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. WITHIN THE TELECOMMUNICATIONS ROOMS (TR) BOTH THE PRIMARY AND REDUNDANT FIBER BACKBONE CABLING WILL BE TERMINATED ON THE SAME FIBER PATCH PANEL. THE PRIMARY FIBER SHALL BE TERMINATED ON THE 'A' SIDE AND THE REDUNDANT FIBER SHALL BE TERMINATED ON THE 'B' SIDE IN ACCORDANCE WITH THE EHRM AND VA OIT TELECOM INFRASTRUCTURE STANDARDS REQUIREMENTS.
- G. NO "DAISY-CHAINING" OF BACKBONE CABLING IS ALLOWED.

RISER LEGEND

- 110 NEW 110 BLOCK
- BEP NEW BUILDING ENTRANCE PROTECTOR
- SW GFGI ACTIVE NETWORKING SWITCH/ EQUIPMENT
- CPP NEW COPPER PATCH PANEL
- FPP NEW FIBER PATCH PANEL
- X# WORK AREA OUTLET
- [] NEW OSP CONDUIT FROM SITE CONNECTION POINT
- X CROSS CONNECTION



C1 BUILDING 046 FIBER RISER DIAGRAM
SCALE: NONE

COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM02	24-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM03	36-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM04	48-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM05	72-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM06	96-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM07	288-STRAND SM INDOOR/OUTDOOR RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	288-STRAND MM OSP RATED CABLE
SM08	12-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM09	24-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM10	36-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM11	48-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM12	72-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM13	96-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM14	288-STRAND SM RISER RATED CABLE (OS1) YELLOW
MM08	12-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM09	24-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM10	36-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM11	48-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM12	72-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM13	96-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM14	288-STRAND MM RISER RATED CABLE (OM2) ORANGE
SM15	2-STRAND (OS1) SM PLENUM RATED CABLE WITH LC CONNECTORS
MM15	2-STRAND (OM3) MM PLENUM RATED CABLE WITH LC CONNECTORS
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
C01	75 OHM COAX RG-6 CABLE
C01	75 OHM COAX RG-11 CABLE
D01	CAT6A UTP 4PR PLENUM RATED CABLE (SEE SPECIFICATIONS FOR COLOR)
D02	CAT6A STP - SELECTION OF CAT6A CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFC 3-580-01
G01	#6 AWG INSULATED CU
G02	#20 AWG INSULATED CU
G03	#30 AWG INSULATED CU

	<p>CONSULTANT</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p>	<p>STAMP</p> <p>Bicsi REGISTERED COMMUNICATIONS DISTRIBUTOR BICSI 107 # 219554 Expires 03-25 RCD 03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>U.S. Department of Veterans Affairs</p>	<p>Drawing Title RISER DIAGRAMS - BUILDING 046</p> <p>Approved: Chief Engineer</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p> <p>FULLY SPRINKLERED</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p> <p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p> <p>Issue Date 03/08/2024</p>	<p>Project Number 679-20-104</p> <p>Building Number 046</p> <p>Drawing Number TN614</p> <p>Checked JMM</p> <p>Drawn JEH</p>
--	--	--	--	--	---	--	---	--	--

1 2 3 4 5 6 7 8 9 10

A

B

C

D

E

F

GENERAL NOTES:

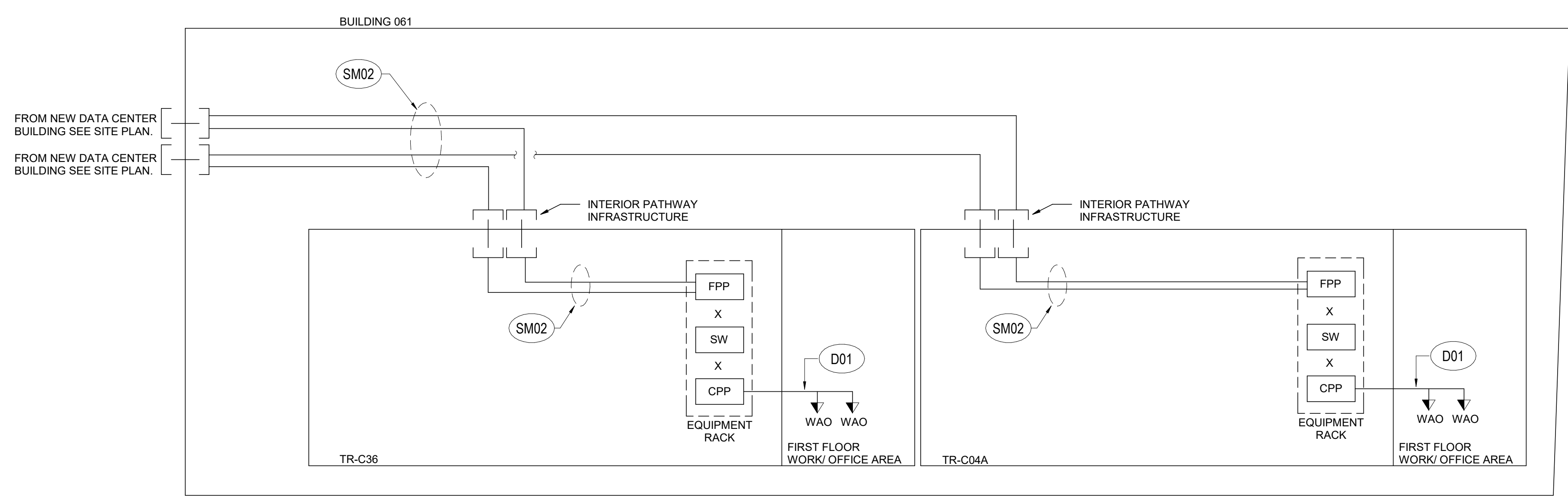
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN800 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. WITHIN THE TELECOMMUNICATIONS ROOMS (TR) BOTH THE PRIMARY AND REDUNDANT FIBER BACKBONE CABLING WILL BE TERMINATED ON THE SAME FIBER PATCH PANEL. THE PRIMARY FIBER SHALL BE TERMINATED ON THE 'A' SIDE AND THE REDUNDANT FIBER SHALL BE TERMINATED ON THE 'B' SIDE IN ACCORDANCE WITH THE EHRM AND VA OIT TELECOM INFRASTRUCTURE STANDARDS REQUIREMENTS.
- G. NO 'DAISY-CHAINING' OF BACKBONE CABLING IS ALLOWED.

RISER LEGEND

- 110 NEW 110 BLOCK
- BEP NEW BUILDING ENTRANCE PROTECTOR
- SW GFGI ACTIVE NETWORKING SWITCH/ EQUIPMENT
- CPP NEW COPPER PATCH PANEL
- FPP NEW FIBER PATCH PANEL
- WAO WORK AREA OUTLET
- NEW OSP CONDUIT FROM SITE CONNECTION POINT
- X CROSS CONNECTION

COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM02	24-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM03	36-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM04	48-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM05	72-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM06	96-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM07	288-STRAND SM INDOOR/OUTDOOR RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	288-STRAND MM OSP RATED CABLE
SM08	12-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM09	24-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM10	36-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM11	48-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM12	72-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM13	96-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM14	288-STRAND SM RISER RATED CABLE (OS1) YELLOW
MM08	12-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM09	24-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM10	36-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM11	48-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM12	72-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM13	96-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM14	288-STRAND MM RISER RATED CABLE (OM2) ORANGE
SM15	2-STRAND (OS1) SM PLENUM RATED CABLE WITH LC CONNECTORS
MM15	2-STRAND (OM3) MM PLENUM RATED CABLE WITH LC CONNECTORS
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
C01	75 OHM COAX RG-6 CABLE
C01	75 OHM COAX RG-11 CABLE
D01	CAT6A UTP 4PR PLENUM RATED CABLE (SEE SPECIFICATIONS FOR COLOR)
D02	CAT6A STP - SELECTION OF CAT6A CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFC 3-580-01
G01	#6 AWG INSULATED CU
G02	#20 AWG INSULATED CU
G03	#30 AWG INSULATED CU



C1 BUILDING 061 FIBER RISER DIAGRAM
SCALE: NONE

<p>Revisions:</p>	<p>Date:</p>	<p>CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD Atriax www.atriaxgroup.com Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Bicsi 03/08/24</p>	<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title RISER DIAGRAMS - BUILDING 061</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>	
							<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number 061</p>	
								<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>	<p>Building Number TN615</p>

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

GENERAL NOTES:

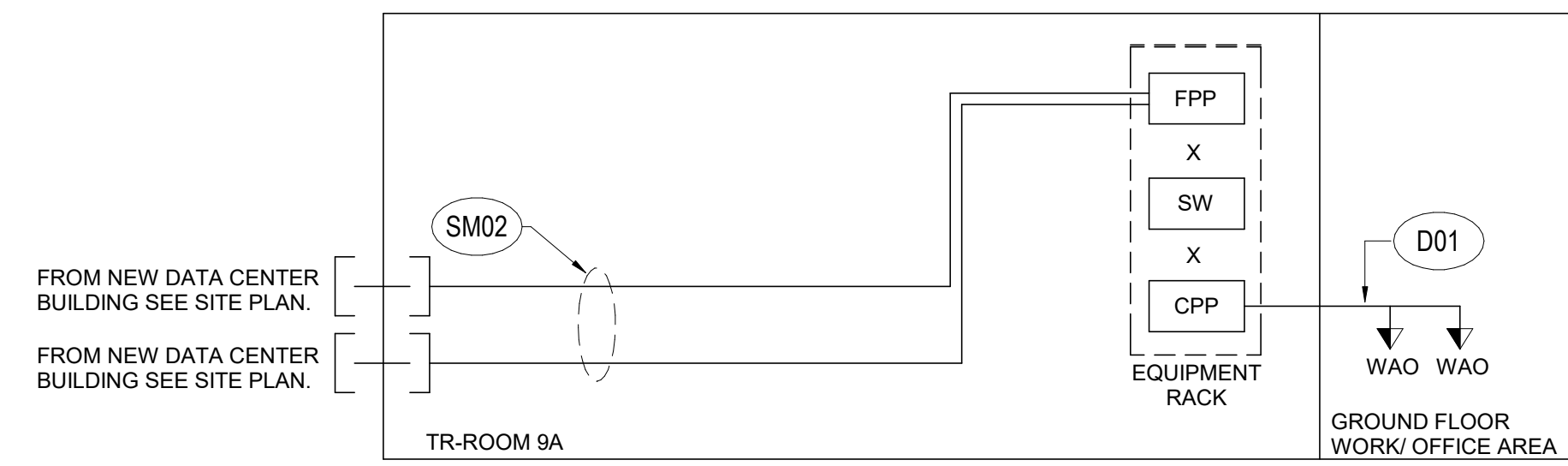
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. WITHIN THE TELECOMMUNICATIONS ROOMS (TR) BOTH THE PRIMARY AND REDUNDANT FIBER BACKBONE CABLING WILL BE TERMINATED ON THE SAME FIBER PATCH PANEL. THE PRIMARY FIBER SHALL BE TERMINATED ON THE 'A' SIDE AND THE REDUNDANT FIBER SHALL BE TERMINATED ON THE 'B' SIDE IN ACCORDANCE WITH THE EHRM AND VA OIT TELECOM INFRASTRUCTURE STANDARDS REQUIREMENTS.
- G. NO "DAISY-CHAINING" OF BACKBONE CABLING IS ALLOWED.

RISER LEGEND

- 110 NEW 110 BLOCK
- BEP NEW BUILDING ENTRANCE PROTECTOR
- SW GFGI ACTIVE NETWORKING SWITCH/ EQUIPMENT
- CPP NEW COPPER PATCH PANEL
- FPP NEW FIBER PATCH PANEL
- X# WORK AREA OUTLET
- [] NEW OSP CONDUIT FROM SITE CONNECTION POINT
- X CROSS CONNECTION

COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM02	24-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM03	36-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM04	48-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM05	72-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM06	96-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM07	288-STRAND SM INDOOR/OUTDOOR RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	288-STRAND MM OSP RATED CABLE
SM08	12-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM09	24-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM10	36-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM11	48-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM12	72-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM13	96-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM14	288-STRAND SM RISER RATED CABLE (OS1) YELLOW
MM08	12-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM09	24-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM10	36-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM11	48-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM12	72-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM13	96-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM14	288-STRAND MM RISER RATED CABLE (OM2) ORANGE
SM15	2-STRAND (OS1) SM PLENUM RATED CABLE WITH LC CONNECTORS
MM15	2-STRAND (OM3) MM PLENUM RATED CABLE WITH LC CONNECTORS
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
C01	75 OHM COAX RG-6 CABLE
C01	75 OHM COAX RG-11 CABLE
D01	CAT6A UTP 4PR PLENUM RATED CABLE (SEE SPECIFICATIONS FOR COLORS)
D02	CAT6A STP - SELECTION OF CAT6A CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFC 3-580-01
G01	#6 AWG INSULATED CU
G02	#10 AWG INSULATED CU
G03	#10 AWG INSULATED CU



C1 BUILDING 063 FIBER RISER DIAGRAM
SCALE: NONE

1 2 3 4 5 6 7 8 9 10

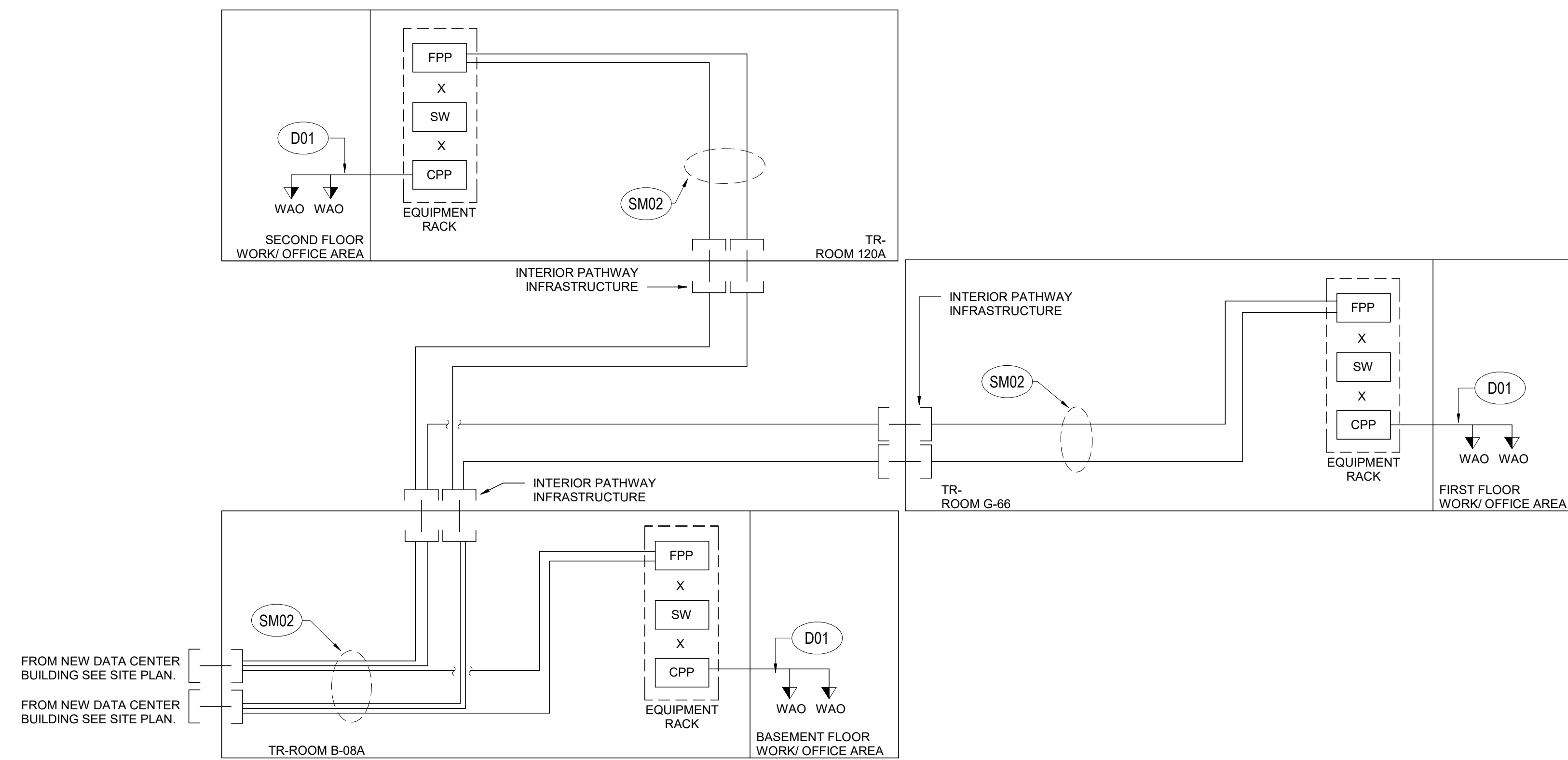
	<p>CONSULTANT</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p>	<p>STAMP</p>	<p>Office of Construction and Facilities Management</p> <p>U.S. Department of Veterans Affairs</p>	<p>Drawing Title RISER DIAGRAMS - BUILDING 063</p> <p>Approved: Chief Engineer</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p> <p>FULLY SPRINKLERED</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p> <p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Project Number 679-20-104</p> <p>Building Number 063</p> <p>Drawing Number TN616</p>	
Revisions:	Date:									

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 1/4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 1/4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. WITHIN THE TELECOMMUNICATIONS ROOMS (TR) BOTH THE PRIMARY AND REDUNDANT FIBER BACKBONE CABLING WILL BE TERMINATED ON THE SAME FIBER PATCH PANEL. THE PRIMARY FIBER SHALL BE TERMINATED ON THE 'A' SIDE AND THE REDUNDANT FIBER SHALL BE TERMINATED ON THE 'B' SIDE IN ACCORDANCE WITH THE EHRM AND VA OIT TELECOM INFRASTRUCTURE STANDARDS REQUIREMENTS.
- G. NO 'DAISY-CHAINING' OF BACKBONE CABLING IS ALLOWED.

RISER LEGEND

- 110 NEW 110 BLOCK
- BEP NEW BUILDING ENTRANCE PROTECTOR
- SW GFGI ACTIVE NETWORKING SWITCH EQUIPMENT
- CPP NEW COPPER PATCH PANEL
- FPP NEW FIBER PATCH PANEL
- X# WORK AREA OUTLET
- NEW OSP CONDUIT FROM SITE CONNECTION POINT
- X CROSS CONNECTION

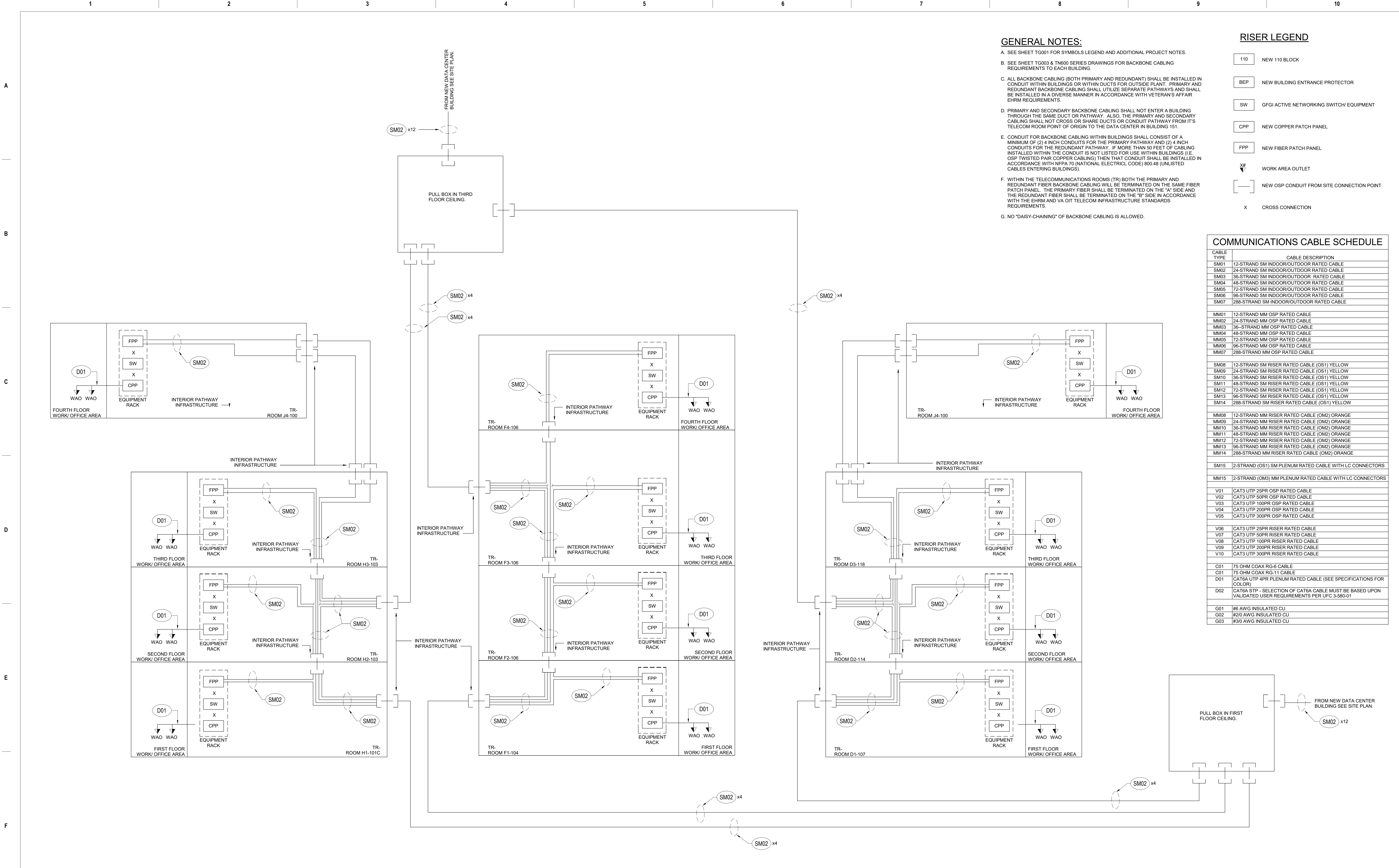


C1 BUILDING 135 FIBER RISER DIAGRAM
SCALE: NONE

COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM02	24-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM03	36-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM04	48-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM05	72-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM06	96-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM07	288-STRAND SM INDOOR/OUTDOOR RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	288-STRAND MM OSP RATED CABLE
SM08	12-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM09	24-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM10	36-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM11	48-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM12	72-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM13	96-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM14	288-STRAND SM RISER RATED CABLE (OS1) YELLOW
MM08	12-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM09	24-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM10	36-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM11	48-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM12	72-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM13	96-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM14	288-STRAND MM RISER RATED CABLE (OM2) ORANGE
SM15	2-STRAND (OS1) SM PLENUM RATED CABLE WITH LC CONNECTORS
MM15	2-STRAND (OM3) MM PLENUM RATED CABLE WITH LC CONNECTORS
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
C01	75 OHM COAX RG-6 CABLE
C01	75 OHM COAX RG-11 CABLE
D01	CAT6A UTP 4PR PLENUM RATED CABLE (SEE SPECIFICATIONS FOR COLOR)
D02	CAT6A STP - SELECTION OF CAT6A CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFC 3-580-01
G01	#6 AWG INSULATED CU
G02	#20 AWG INSULATED CU
G03	#30 AWG INSULATED CU

<p>Revisions:</p>	<p>Date:</p>	<p>CONSULTANT WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p> <p>SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD Atriax www.atriaxgroup.com</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Bicsi 03/08/24</p>	<p>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title RISER DIAGRAMS - BUILDING 135</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number 679-20-104</p>
						<p>Approved: Chief Engineer</p>	<p>FULLY SPRINKLERED</p>	<p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number 135</p>
						<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>	<p>Drawing Number TN617</p>



- GENERAL NOTES:**
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
 - B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
 - C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERANS AFFAIR EHRM REQUIREMENTS.
 - D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
 - E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 900.46 (UNLISTED CABLES ENTERING BUILDINGS).
 - F. WITHIN THE TELECOMMUNICATIONS ROOMS (TR) BOTH THE PRIMARY AND REDUNDANT FIBER BACKBONE CABLING WILL BE TERMINATED ON THE SAME FIBER PATCH PANEL. THE PRIMARY FIBER SHALL BE TERMINATED ON THE "A" SIDE AND THE REDUNDANT FIBER SHALL BE TERMINATED ON THE "B" SIDE IN ACCORDANCE WITH THE EHRM AND VA OIT TELECOM INFRASTRUCTURE STANDARDS REQUIREMENTS.
 - G. NO "DAISY-CHAINING" OF BACKBONE CABLING IS ALLOWED.

RISER LEGEND

110	NEW 110 BLOCK
BEP	NEW BUILDING ENTRANCE PROTECTOR
SW	GFGI ACTIVE NETWORKING SWITCH/ EQUIPMENT
CPP	NEW COPPER PATCH PANEL
FPP	NEW FIBER PATCH PANEL
WAO	WORK AREA OUTLET
[Symbol]	NEW OSP CONDUIT FROM SITE CONNECTION POINT
X	CROSS CONNECTION

COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM02	24-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM03	36-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM04	48-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM05	72-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM06	96-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM07	288-STRAND SM INDOOR/OUTDOOR RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	288-STRAND MM OSP RATED CABLE
SM08	12-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM09	24-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM10	36-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM11	48-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM12	72-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM13	96-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM14	288-STRAND SM RISER RATED CABLE (OS1) YELLOW
MM08	12-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM09	24-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM10	36-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM11	48-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM12	72-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM13	96-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM14	288-STRAND MM RISER RATED CABLE (OM2) ORANGE
SM15	2-STRAND (OS1) SM PLENUM RATED CABLE WITH LC CONNECTORS
MM15	2-STRAND (OM3) MM PLENUM RATED CABLE WITH LC CONNECTORS
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
C01	75 OHM COAX RG-6 CABLE
C01	75 OHM COAX RG-11 CABLE
D01	CAT6A UTP 4PR PLENUM RATED CABLE (SEE SPECIFICATIONS FOR COLOR)
D02	CAT6A STP - SELECTION OF CAT6A CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFC 3-580-01
G01	#6 AWG INSULATED CU
G02	#20 AWG INSULATED CU
G03	#30 AWG INSULATED CU

F1 BUILDING 137 FIBER RISER DIAGRAM
SCALE: 12" = 1'-0"

<p>CONSULTANT</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p>	<p>STAMP</p> <p>REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Bicsi 202404161019 BICS11016239554 Ergon020-25 RCD 03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>RISER DIAGRAMS - BUILDING 137</p> <p>Approved: Chief Engineer</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>
					<p>Revisions:</p>	<p>Date:</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>

GENERAL NOTES:

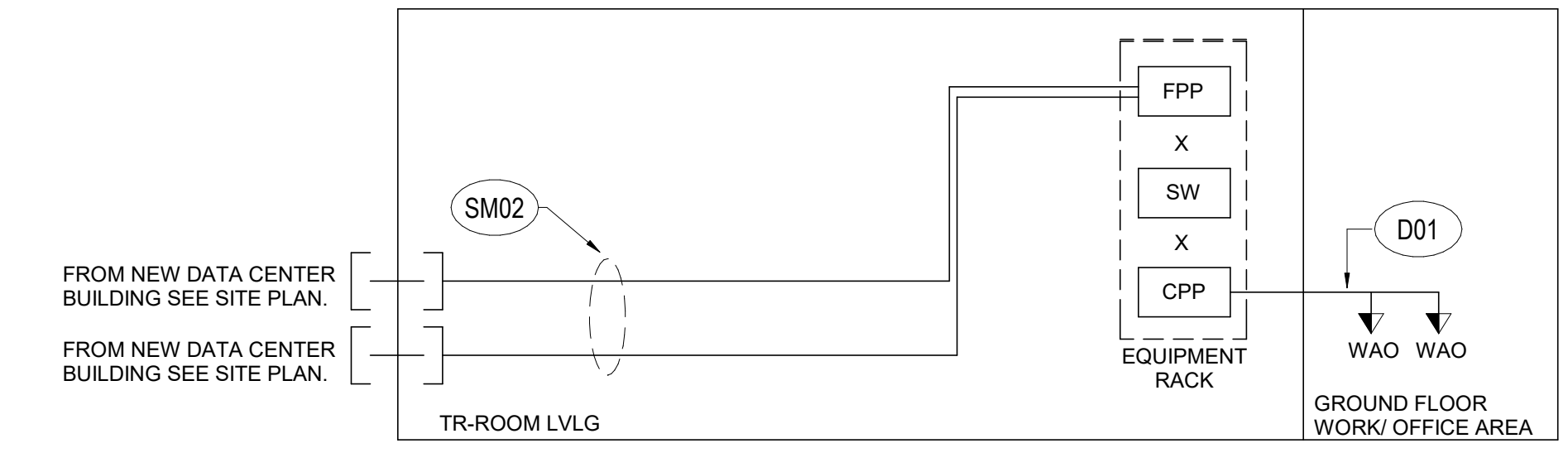
- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN800 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. WITHIN THE TELECOMMUNICATIONS ROOMS (TR) BOTH THE PRIMARY AND REDUNDANT FIBER BACKBONE CABLING WILL BE TERMINATED ON THE SAME FIBER PATCH PANEL. THE PRIMARY FIBER SHALL BE TERMINATED ON THE 'A' SIDE AND THE REDUNDANT FIBER SHALL BE TERMINATED ON THE 'B' SIDE IN ACCORDANCE WITH THE EHRM AND VA OIT TELECOM INFRASTRUCTURE STANDARDS REQUIREMENTS.
- G. NO "DAISY-CHAINING" OF BACKBONE CABLING IS ALLOWED.

RISER LEGEND

- 110 NEW 110 BLOCK
- BEP NEW BUILDING ENTRANCE PROTECTOR
- SW GFGI ACTIVE NETWORKING SWITCH/ EQUIPMENT
- CPP NEW COPPER PATCH PANEL
- FPP NEW FIBER PATCH PANEL
- X# WORK AREA OUTLET
- NEW OSP CONDUIT FROM SITE CONNECTION POINT
- X CROSS CONNECTION

COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM02	24-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM03	36-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM04	48-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM05	72-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM06	96-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM07	288-STRAND SM INDOOR/OUTDOOR RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	288-STRAND MM OSP RATED CABLE
SM08	12-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM09	24-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM10	36-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM11	48-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM12	72-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM13	96-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM14	288-STRAND SM RISER RATED CABLE (OS1) YELLOW
MM08	12-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM09	24-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM10	36-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM11	48-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM12	72-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM13	96-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM14	288-STRAND MM RISER RATED CABLE (OM2) ORANGE
SM15	2-STRAND (OS1) SM PLENUM RATED CABLE WITH LC CONNECTORS
MM15	2-STRAND (OM3) MM PLENUM RATED CABLE WITH LC CONNECTORS
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
C01	75 OHM COAX RG-6 CABLE
C01	75 OHM COAX RG-11 CABLE
D01	CAT6A UTP 4PR PLENUM RATED CABLE (SEE SPECIFICATIONS FOR COLOR)
D02	CAT6A STP - SELECTION OF CAT6A CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFC 3-580-01
G01	#6 AWG INSULATED CU
G02	#20 AWG INSULATED CU
G03	#30 AWG INSULATED CU



C1 BUILDING 138 FIBER RISER DIAGRAM
SCALE: NONE

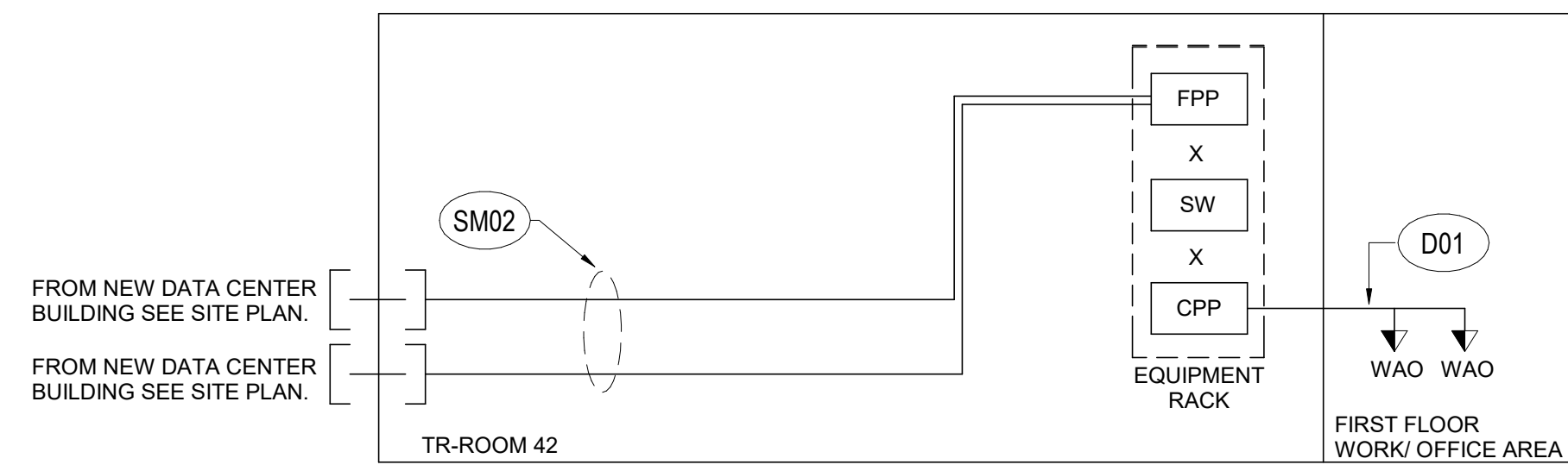
	CONSULTANT WILEY WILSON 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	 SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	ARCHITECT/ENGINEER OF RECORD Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP REGISTERED COMMUNICATIONS DISTRIBUTOR Bicsi 3804 J.M. McInnis BICSI 107th St 2199524 Evansville, IN 47917-2199 RCD 03/08/24	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title RISER DIAGRAMS - BUILDING 138 Approved: Chief Engineer	Phase 100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED	Project Title EHRM INFRASTRUCTURE UPGRADES Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024 Checked JMM Drawn JEH	Project Number 679-20-104 Building Number 138 Drawing Number TN619
--	--	---	---	---	---	---	---	---	--

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN600 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 1/4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 1/4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. WITHIN THE TELECOMMUNICATIONS ROOMS (TR) BOTH THE PRIMARY AND REDUNDANT FIBER BACKBONE CABLING WILL BE TERMINATED ON THE SAME FIBER PATCH PANEL. THE PRIMARY FIBER SHALL BE TERMINATED ON THE 'A' SIDE AND THE REDUNDANT FIBER SHALL BE TERMINATED ON THE 'B' SIDE IN ACCORDANCE WITH THE EHRM AND VA OIT TELECOM INFRASTRUCTURE STANDARDS REQUIREMENTS.
- G. NO 'DAISY-CHAINING' OF BACKBONE CABLING IS ALLOWED.

RISER LEGEND

- 110 NEW 110 BLOCK
- BEP NEW BUILDING ENTRANCE PROTECTOR
- SW GF/GI ACTIVE NETWORKING SWITCH/ EQUIPMENT
- CPP NEW COPPER PATCH PANEL
- FPP NEW FIBER PATCH PANEL
- WAO WORK AREA OUTLET
- NEW OSP CONDUIT FROM SITE CONNECTION POINT
- X CROSS CONNECTION



C1 BUILDING 143 FIBER RISER DIAGRAM
SCALE: NONE

COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM02	24-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM03	36-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM04	48-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM05	72-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM06	96-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM07	288-STRAND SM INDOOR/OUTDOOR RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	288-STRAND MM OSP RATED CABLE
SM08	12-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM09	24-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM10	36-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM11	48-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM12	72-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM13	96-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM14	288-STRAND SM RISER RATED CABLE (OS1) YELLOW
MM08	12-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM09	24-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM10	36-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM11	48-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM12	72-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM13	96-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM14	288-STRAND MM RISER RATED CABLE (OM2) ORANGE
SM15	2-STRAND (OS1) SM PLENUM RATED CABLE WITH LC CONNECTORS
MM15	2-STRAND (OM3) MM PLENUM RATED CABLE WITH LC CONNECTORS
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
C01	75 OHM COAX RG-6 CABLE
C01	75 OHM COAX RG-11 CABLE
D01	CAT6A UTP 4PR PLENUM RATED CABLE (SEE SPECIFICATIONS FOR COLORS)
D02	CAT6A STP - SELECTION OF CAT6A CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFC 3-580-01
G01	#6 AWG INSULATED CU
G02	#20 AWG INSULATED CU
G03	#30 AWG INSULATED CU

	<p>CONSULTANT</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p>	<p>STAMP</p> <p>Bicsi REGISTERED COMMUNICATIONS DISTRIBUTOR BICSI 107 # 219554 E-verify 03-25 RCD 03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>U.S. Department of Veterans Affairs</p>	<p>Drawing Title RISER DIAGRAMS - BUILDING 143</p> <p>Approved: Chief Engineer</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p> <p>FULLY SPRINKLERED</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p> <p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Project Number 679-20-104</p> <p>Building Number 143</p> <p>Drawing Number TN620</p>
<p>Revisions:</p>	<p>Date:</p>							

1 2 3 4 5 6 7 8 9 10

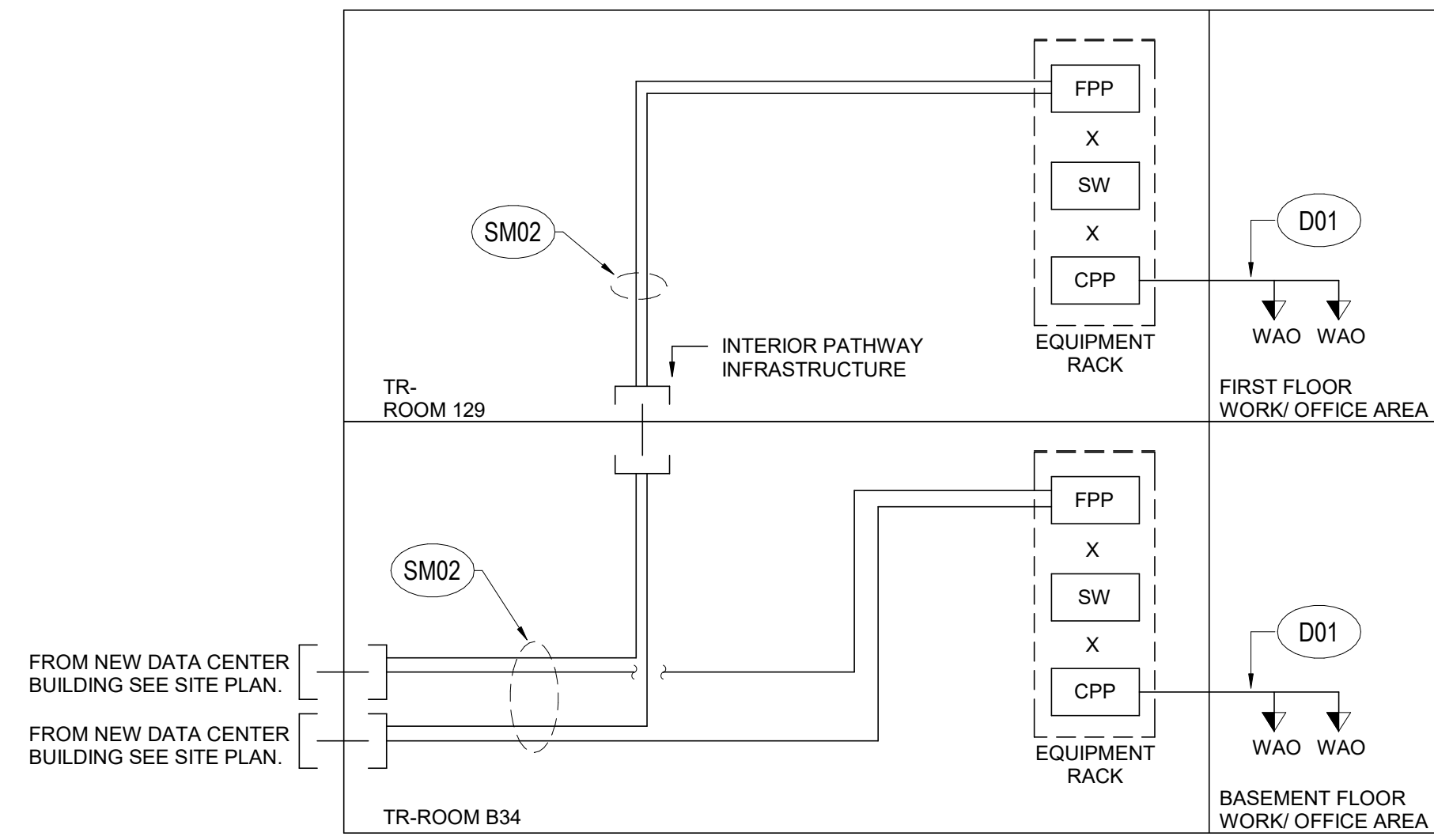
A
B
C
D
E
F

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN800 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. WITHIN THE TELECOMMUNICATIONS ROOMS (TR) BOTH THE PRIMARY AND REDUNDANT FIBER BACKBONE CABLING WILL BE TERMINATED ON THE SAME FIBER PATCH PANEL. THE PRIMARY FIBER SHALL BE TERMINATED ON THE 'A' SIDE AND THE REDUNDANT FIBER SHALL BE TERMINATED ON THE 'B' SIDE IN ACCORDANCE WITH THE EHRM AND VA OIT TELECOM INFRASTRUCTURE STANDARDS REQUIREMENTS.
- G. NO 'DAISY-CHAINING' OF BACKBONE CABLING IS ALLOWED.

RISER LEGEND

- 110 NEW 110 BLOCK
- BEP NEW BUILDING ENTRANCE PROTECTOR
- SW FGFI ACTIVE NETWORKING SWITCH/ EQUIPMENT
- CPP NEW COPPER PATCH PANEL
- PPP NEW FIBER PATCH PANEL
- WAO WORK AREA OUTLET
- NEW OSP CONDUIT FROM SITE CONNECTION POINT
- X CROSS CONNECTION



COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM02	24-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM03	36-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM04	48-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM05	72-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM06	96-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM07	288-STRAND SM INDOOR/OUTDOOR RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	288-STRAND MM OSP RATED CABLE
SM08	12-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM09	24-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM10	36-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM11	48-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM12	72-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM13	96-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM14	288-STRAND SM RISER RATED CABLE (OS1) YELLOW
MM08	12-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM09	24-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM10	36-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM11	48-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM12	72-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM13	96-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM14	288-STRAND MM RISER RATED CABLE (OM2) ORANGE
SM15	2-STRAND (OS1) SM PLENUM RATED CABLE WITH LC CONNECTORS
MM15	2-STRAND (OM3) MM PLENUM RATED CABLE WITH LC CONNECTORS
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
C01	75 OHM COAX RG-6 CABLE
C01	75 OHM COAX RG-11 CABLE
D01	CAT6A UTP 4PR PLENUM RATED CABLE (SEE SPECIFICATIONS FOR COLOR)
D02	CAT6A STP - SELECTION OF CAT6A CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFC 3-580-01
G01	#6 AWG INSULATED CU
G02	#20 AWG INSULATED CU
G03	#30 AWG INSULATED CU

C1 BUILDING 145 FIBER RISER DIAGRAM
SCALE: NONE

<p>CONSULTANT</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>		<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p>		<p>STAMP</p> <p>Bicsi REGISTERED COMMUNICATIONS DISTRIBUTOR BICSI 1078 219954 Expires 03-25-25 RCD0 03/08/24</p>		<p>Office of Construction and Facilities Management</p> <p>U.S. Department of Veterans Affairs</p>		<p>Drawing Title RISER DIAGRAMS - BUILDING 145</p> <p>Approved: Chief Engineer</p>		<p>Phase 100% CONSTRUCTION DOCUMENTS</p> <p>FULLY SPRINKLERED</p>		<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p> <p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>		<p>Project Number 679-20-104</p> <p>Building Number 145</p> <p>Drawing Number TN621</p>	
<p>Revisions:</p>		<p>Date:</p>		<p>Issue Date 03/08/2024</p>		<p>Checked JMM</p>		<p>Drawn JEH</p>							

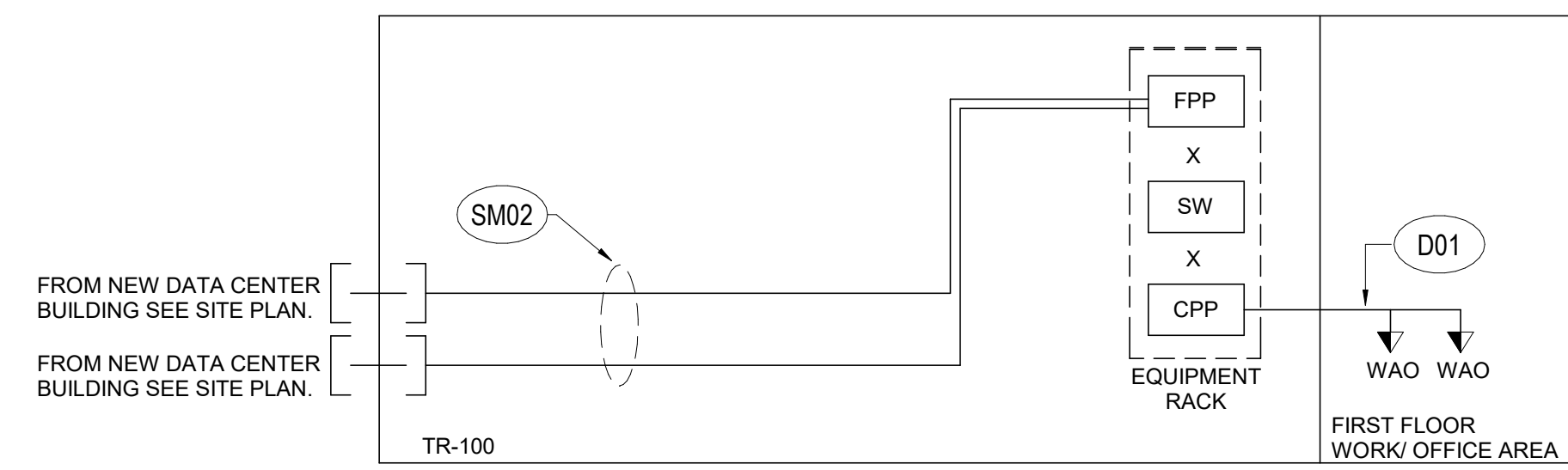
1 2 3 4 5 6 7 8 9 10

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN800 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 1/2 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 1/2 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. WITHIN THE TELECOMMUNICATIONS ROOMS (TR) BOTH THE PRIMARY AND REDUNDANT FIBER BACKBONE CABLING WILL BE TERMINATED ON THE SAME FIBER PATCH PANEL. THE PRIMARY FIBER SHALL BE TERMINATED ON THE 'A' SIDE AND THE REDUNDANT FIBER SHALL BE TERMINATED ON THE 'B' SIDE IN ACCORDANCE WITH THE EHRM AND VA OIT TELECOM INFRASTRUCTURE STANDARDS REQUIREMENTS.
- G. NO "DAISY-CHAINING" OF BACKBONE CABLING IS ALLOWED.

RISER LEGEND

- 110 NEW 110 BLOCK
- BEP NEW BUILDING ENTRANCE PROTECTOR
- SW GFGI ACTIVE NETWORKING SWITCH/ EQUIPMENT
- CPP NEW COPPER PATCH PANEL
- FPP NEW FIBER PATCH PANEL
- X# WORK AREA OUTLET
- NEW OSP CONDUIT FROM SITE CONNECTION POINT
- X CROSS CONNECTION



C1 BUILDING 146 FIBER RISER DIAGRAM
SCALE: NONE

COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM02	24-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM03	36-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM04	48-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM05	72-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM06	96-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM07	288-STRAND SM INDOOR/OUTDOOR RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	288-STRAND MM OSP RATED CABLE
SM08	12-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM09	24-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM10	36-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM11	48-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM12	72-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM13	96-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM14	288-STRAND SM RISER RATED CABLE (OS1) YELLOW
MM08	12-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM09	24-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM10	36-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM11	48-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM12	72-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM13	96-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM14	288-STRAND MM RISER RATED CABLE (OM2) ORANGE
SM15	2-STRAND (OS1) SM PLENUM RATED CABLE WITH LC CONNECTORS
MM15	2-STRAND (OM3) MM PLENUM RATED CABLE WITH LC CONNECTORS
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
C01	75 OHM COAX RG-6 CABLE
C01	75 OHM COAX RG-11 CABLE
D01	CAT6A UTP 4PR PLENUM RATED CABLE (SEE SPECIFICATIONS FOR COLOR)
D02	CAT6A STP - SELECTION OF CAT6A CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFC 3-580-01
G01	#6 AWG INSULATED CU
G02	#20 AWG INSULATED CU
G03	#30 AWG INSULATED CU

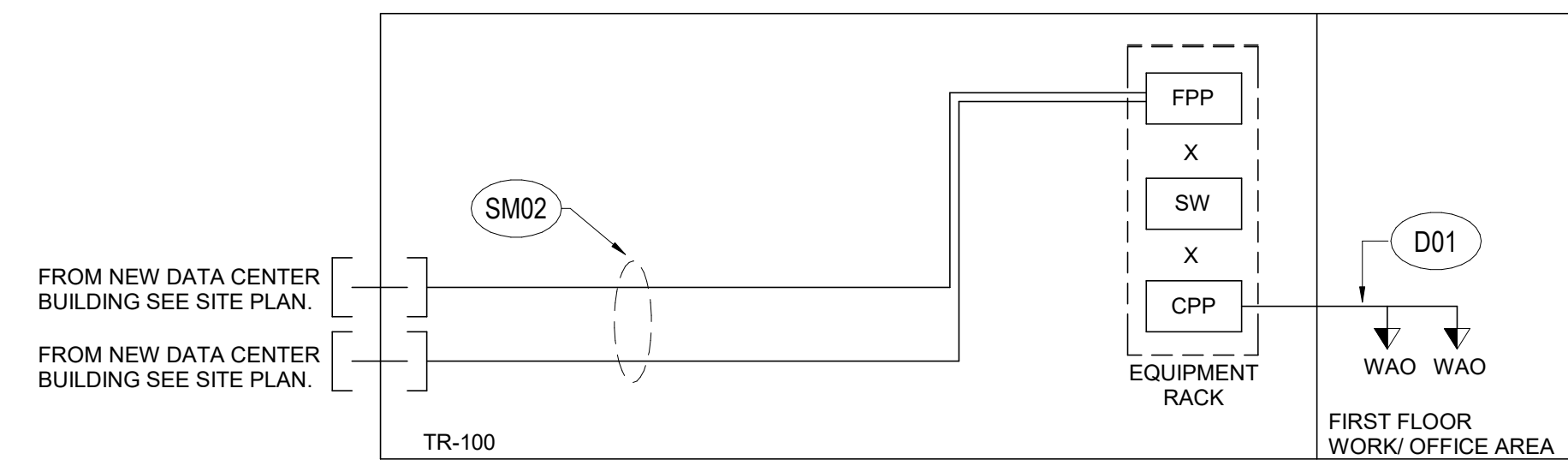
	<p>CONSULTANT</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p>	<p>STAMP</p> <p>Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION ENGINEER BICS11016 2/19/2024 Expires 2/19/25 RCD 03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>U.S. Department of Veterans Affairs</p>	<p>Drawing Title RISER DIAGRAMS - BUILDING 146</p> <p>Approved: Chief Engineer</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p> <p>FULLY SPRINKLERED</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p> <p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p> <p>Issue Date 03/08/2024</p>	<p>Project Number 679-20-104</p> <p>Building Number 146</p> <p>Drawing Number TN622</p>
--	--	--	---	---	--	---	--	--

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN800 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. WITHIN THE TELECOMMUNICATIONS ROOMS (TR) BOTH THE PRIMARY AND REDUNDANT FIBER BACKBONE CABLING WILL BE TERMINATED ON THE SAME FIBER PATCH PANEL. THE PRIMARY FIBER SHALL BE TERMINATED ON THE 'A' SIDE AND THE REDUNDANT FIBER SHALL BE TERMINATED ON THE 'B' SIDE IN ACCORDANCE WITH THE EHRM AND VA OIT TELECOM INFRASTRUCTURE STANDARDS REQUIREMENTS.
- G. NO "DAISY-CHAINING" OF BACKBONE CABLING IS ALLOWED.

RISER LEGEND

- 110 NEW 110 BLOCK
- BEP NEW BUILDING ENTRANCE PROTECTOR
- SW GFGI ACTIVE NETWORKING SWITCH/ EQUIPMENT
- CPP NEW COPPER PATCH PANEL
- FPP NEW FIBER PATCH PANEL
- X# WORK AREA OUTLET
- NEW OSP CONDUIT FROM SITE CONNECTION POINT
- X CROSS CONNECTION



C1 BUILDING 147 FIBER RISER DIAGRAM
SCALE: NONE

COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM02	24-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM03	36-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM04	48-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM05	72-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM06	96-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM07	288-STRAND SM INDOOR/OUTDOOR RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	288-STRAND MM OSP RATED CABLE
SM08	12-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM09	24-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM10	36-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM11	48-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM12	72-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM13	96-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM14	288-STRAND SM RISER RATED CABLE (OS1) YELLOW
MM08	12-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM09	24-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM10	36-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM11	48-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM12	72-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM13	96-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM14	288-STRAND MM RISER RATED CABLE (OM2) ORANGE
SM15	2-STRAND (OS1) SM PLENUM RATED CABLE WITH LC CONNECTORS
MM15	2-STRAND (OM3) MM PLENUM RATED CABLE WITH LC CONNECTORS
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
C01	75 OHM COAX RG-6 CABLE
D01	CAT6A UTP 4PR PLENUM RATED CABLE (SEE SPECIFICATIONS FOR COLOR)
D02	CAT6A STP - SELECTION OF CAT6A CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFC 3-580-01
G01	#6 AWG INSULATED CU
G02	#10 AWG INSULATED CU
G03	#12 AWG INSULATED CU

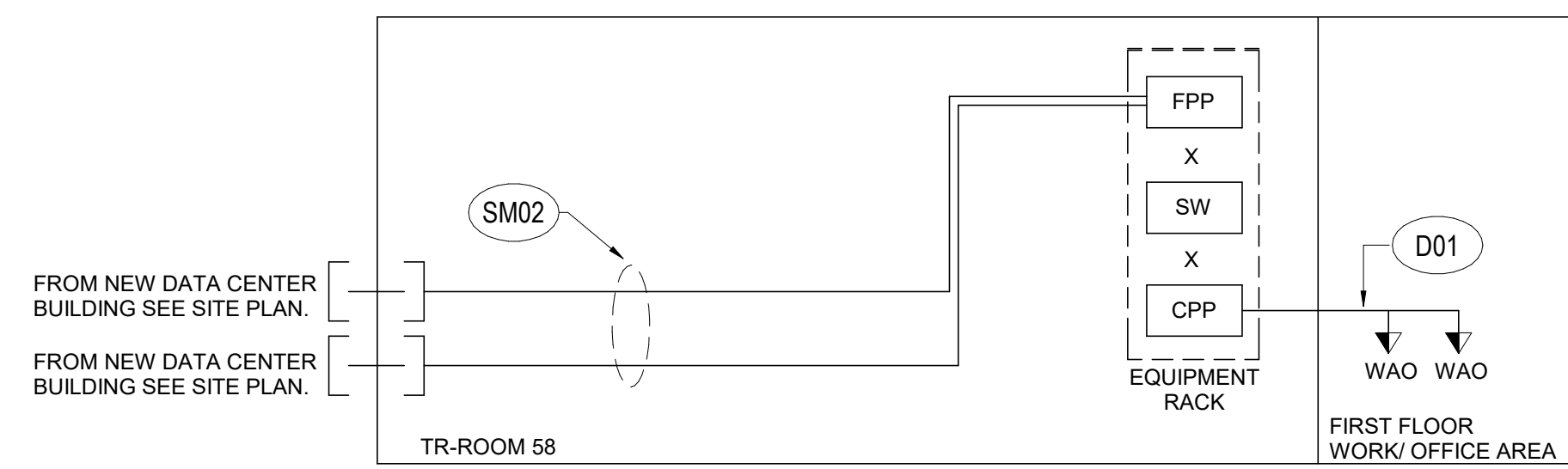
	<p>CONSULTANT</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p>	<p>STAMP</p> <p>Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION ENGINEER RESIDUAL MEMBER BICS1101623954 Expires 03/31/25 RCD0 03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>U.S. Department of Veterans Affairs</p>	<p>Drawing Title RISER DIAGRAMS - BUILDING 147</p> <p>Approved: Chief Engineer</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p> <p>FULLY SPRINKLERED</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p> <p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p> <p>Issue Date 03/08/2024</p>	<p>Project Number 679-20-104</p> <p>Building Number 147</p> <p>Drawing Number TN623</p>
--	--	--	--	---	--	---	--	--

GENERAL NOTES:

- A. SEE SHEET TG001 FOR SYMBOLS LEGEND AND ADDITIONAL PROJECT NOTES.
- B. SEE SHEET TG003 & TN000 SERIES DRAWINGS FOR BACKBONE CABLING REQUIREMENTS TO EACH BUILDING.
- C. ALL BACKBONE CABLING (BOTH PRIMARY AND REDUNDANT) SHALL BE INSTALLED IN CONDUIT WITHIN BUILDINGS OR WITHIN DUCTS FOR OUTSIDE PLANT. PRIMARY AND REDUNDANT BACKBONE CABLING SHALL UTILIZE SEPARATE PATHWAYS AND SHALL BE INSTALLED IN A DIVERSE MANNER IN ACCORDANCE WITH VETERAN'S AFFAIR EHRM REQUIREMENTS.
- D. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT ENTER A BUILDING THROUGH THE SAME DUCT OR PATHWAY. ALSO, THE PRIMARY AND SECONDARY CABLING SHALL NOT CROSS OR SHARE DUCTS OR CONDUIT PATHWAY FROM ITS TELECOM ROOM POINT OF ORIGIN TO THE DATA CENTER IN BUILDING 151.
- E. CONDUIT FOR BACKBONE CABLING WITHIN BUILDINGS SHALL CONSIST OF A MINIMUM OF (2) 4 INCH CONDUITS FOR THE PRIMARY PATHWAY AND (2) 4 INCH CONDUITS FOR THE REDUNDANT PATHWAY. IF MORE THAN 50 FEET OF CABLING INSTALLED WITHIN THE CONDUIT IS NOT LISTED FOR USE WITHIN BUILDINGS (I.E. OSP TWISTED PAIR COPPER CABLING) THEN THAT CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRICAL CODE) 800.48 (UNLISTED CABLES ENTERING BUILDINGS).
- F. WITHIN THE TELECOMMUNICATIONS ROOMS (TR) BOTH THE PRIMARY AND REDUNDANT FIBER BACKBONE CABLING WILL BE TERMINATED ON THE SAME FIBER PATCH PANEL. THE PRIMARY FIBER SHALL BE TERMINATED ON THE 'A' SIDE AND THE REDUNDANT FIBER SHALL BE TERMINATED ON THE 'B' SIDE IN ACCORDANCE WITH THE EHRM AND VA OIT TELECOM INFRASTRUCTURE STANDARDS REQUIREMENTS.
- G. NO 'DAISY-CHAINING' OF BACKBONE CABLING IS ALLOWED.

RISER LEGEND

- 110 NEW 110 BLOCK
- BEP NEW BUILDING ENTRANCE PROTECTOR
- SW GFGI ACTIVE NETWORKING SWITCH/ EQUIPMENT
- CPP NEW COPPER PATCH PANEL
- FPP NEW FIBER PATCH PANEL
- X# WORK AREA OUTLET
- NEW OSP CONDUIT FROM SITE CONNECTION POINT
- X CROSS CONNECTION



C1 BUILDING 149 FIBER RISER DIAGRAM
SCALE: NONE

COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM02	24-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM03	36-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM04	48-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM05	72-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM06	96-STRAND SM INDOOR/OUTDOOR RATED CABLE
SM07	288-STRAND SM INDOOR/OUTDOOR RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	288-STRAND MM OSP RATED CABLE
SM08	12-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM09	24-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM10	36-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM11	48-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM12	72-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM13	96-STRAND SM RISER RATED CABLE (OS1) YELLOW
SM14	288-STRAND SM RISER RATED CABLE (OS1) YELLOW
MM08	12-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM09	24-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM10	36-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM11	48-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM12	72-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM13	96-STRAND MM RISER RATED CABLE (OM2) ORANGE
MM14	288-STRAND MM RISER RATED CABLE (OM2) ORANGE
SM15	2-STRAND (OS1) SM PLENUM RATED CABLE WITH LC CONNECTORS
MM15	2-STRAND (OM3) MM PLENUM RATED CABLE WITH LC CONNECTORS
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
C01	75 OHM COAX RG-6 CABLE
C01	75 OHM COAX RG-11 CABLE
D01	CAT6A UTP 4PR PLENUM RATED CABLE (SEE SPECIFICATIONS FOR COLOR)
D02	CAT6A STP - SELECTION OF CAT6A CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFC 3-580-01
G01	#6 AWG INSULATED CU
G02	#20 AWG INSULATED CU
G03	#30 AWG INSULATED CU

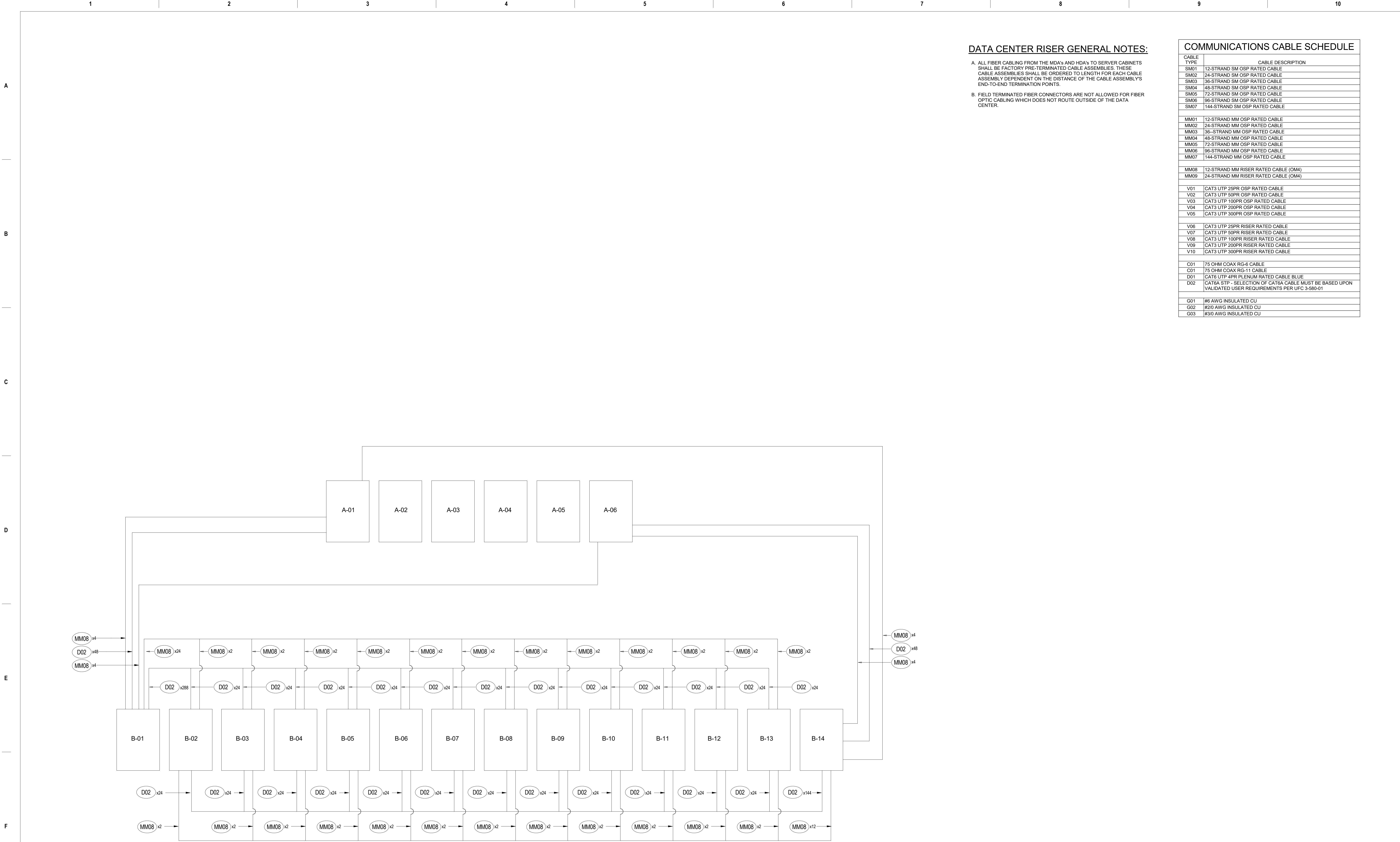
	<p>CONSULTANT</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</p>	<p>STAMP</p> <p>Bicsi REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICS11016 2/19/24 Expires 02/25 RCD0 03/08/24</p>	<p>Office of Construction and Facilities Management</p> <p>U.S. Department of Veterans Affairs</p>	<p>Drawing Title RISER DIAGRAMS - BUILDING 149</p> <p>Approved: Chief Engineer</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p> <p>FULLY SPRINKLERED</p>	<p>Project Title EHRM INFRASTRUCTURE UPGRADES</p> <p>Location TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Project Number 679-20-104</p> <p>Building Number 149</p> <p>Drawing Number TN624</p>
<p>Revisions:</p>	<p>Date:</p>	<p>Issue Date 03/08/2024</p>	<p>Checked JMM</p>	<p>Drawn JEH</p>					

DATA CENTER RISER GENERAL NOTES:

- A. ALL FIBER CABLING FROM THE MDA'S AND HDX'S TO SERVER CABINETS SHALL BE FACTORY PRE-TERMINATED CABLE ASSEMBLIES. THESE CABLE ASSEMBLIES SHALL BE ORDERED TO LENGTH FOR EACH CABLE ASSEMBLY DEPENDENT ON THE DISTANCE OF THE CABLE ASSEMBLY'S END-TO-END TERMINATION POINTS.
- B. FIELD TERMINATED FIBER CONNECTORS ARE NOT ALLOWED FOR FIBER OPTIC CABLING WHICH DOES NOT ROUTE OUTSIDE OF THE DATA CENTER.

COMMUNICATIONS CABLE SCHEDULE

CABLE TYPE	CABLE DESCRIPTION
SM01	12-STRAND SM OSP RATED CABLE
SM02	24-STRAND SM OSP RATED CABLE
SM03	36-STRAND SM OSP RATED CABLE
SM04	48-STRAND SM OSP RATED CABLE
SM05	72-STRAND SM OSP RATED CABLE
SM06	96-STRAND SM OSP RATED CABLE
SM07	144-STRAND SM OSP RATED CABLE
MM01	12-STRAND MM OSP RATED CABLE
MM02	24-STRAND MM OSP RATED CABLE
MM03	36-STRAND MM OSP RATED CABLE
MM04	48-STRAND MM OSP RATED CABLE
MM05	72-STRAND MM OSP RATED CABLE
MM06	96-STRAND MM OSP RATED CABLE
MM07	144-STRAND MM OSP RATED CABLE
MM08	12-STRAND MM RISER RATED CABLE (OM4)
MM09	24-STRAND MM RISER RATED CABLE (OM4)
V01	CAT3 UTP 25PR OSP RATED CABLE
V02	CAT3 UTP 50PR OSP RATED CABLE
V03	CAT3 UTP 100PR OSP RATED CABLE
V04	CAT3 UTP 200PR OSP RATED CABLE
V05	CAT3 UTP 300PR OSP RATED CABLE
V06	CAT3 UTP 25PR RISER RATED CABLE
V07	CAT3 UTP 50PR RISER RATED CABLE
V08	CAT3 UTP 100PR RISER RATED CABLE
V09	CAT3 UTP 200PR RISER RATED CABLE
V10	CAT3 UTP 300PR RISER RATED CABLE
C01	75 OHM COAX RG-6 CABLE
C01	75 OHM COAX RG-11 CABLE
D01	CAT6 UTP 4PR PLENUM RATED CABLE BLUE
D02	CAT6 STP - SELECTION OF CAT6 CABLE MUST BE BASED UPON VALIDATED USER REQUIREMENTS PER UFC 3-580-01
G01	#6 AWG INSULATED CU
G02	#20 AWG INSULATED CU
G03	#30 AWG INSULATED CU



f1 DATA CENTER RISER DIAGRAM
SCALE: NONE

<p>CONSULTANT</p> <p>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</p>	<p>SPECIALIZED ENGINEERING SOLUTIONS</p> <p>Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Atriax, pllc 703 Main Avenue SW PO Box 16229, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254</p>	<p>STAMP</p> <p>Bicsi REGISTERED COMMUNICATIONS DISTRIBUTOR BICS11078239554 Expires 03/31/25 RCDD 03/08/24</p>	<p>Office of Construction and Facilities Management</p>	<p>Drawing Title</p> <p>RISER DIAGRAMS - BUILDING 151</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title</p> <p>EHRM INFRASTRUCTURE UPGRADES</p>	<p>Project Number</p> <p>679-20-104</p>
					<p>Approved: Chief Engineer</p> <p>Approver</p>	<p>FULLY SPRINKLERED</p>	<p>Location</p> <p>TUSCALOOSA VAMC, TUSCALOOSA, AL.</p>	<p>Building Number</p> <p>151</p>
<p>Revisions:</p>	<p>Date:</p>	<p>Issue Date</p> <p>03/08/2024</p>	<p>Checked</p> <p>JMM</p>	<p>Drawn</p> <p>JH</p>	<p>Drawing Number</p> <p>TN625</p>			