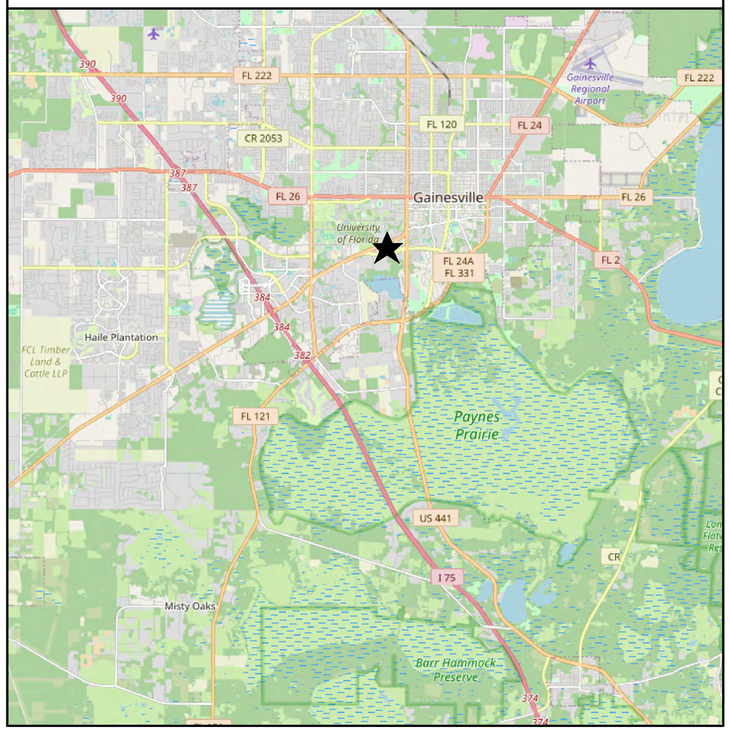
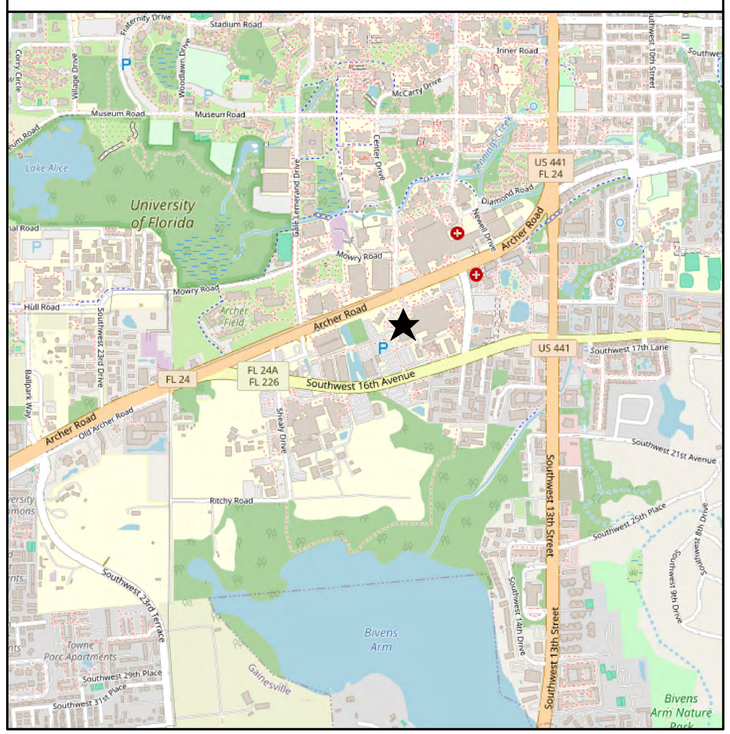
GENERAL LOCATION MAP



GENERAL AREA MAP



IR EQUIPMENT REPLACEMENT
ROOM C246-1
PHILIPS AZURION BI-PLANE

MALCOM RANDALL VA MEDICAL CENTER
1601 SOUTHWEST ARCHER ROAD,
GAINESVILLE, FLORIDA 32608

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ELECTRICAL ENGINEERING

INDEX TO DRAWINGS

ATTACHED TO THESE DOCUMENTS IS ONE SET OF DRAWINGS #N-SOU250567 RevA DATED 8/26/2025 WITH (23) DRAWING SHEETS AS PREPARED BY PHILIPS. THESE DRAWINGS PROVIDE DETAILED INFORMATION CONCERNING SITE PREPARATION FOR THEIR IR IMAGING EQUIPMENT. USE OF THESE DRAWINGS IS REQUIRED FOR REFERENCE AND FOR ADDITIONAL INFORMATION.

ABBREVIATIONS

AFF.	ABOVE FINISH FLOOR
AL.	ALUMINUM
B.O.	BY OTHERS
BD.	BOARD
BLDG.	BUILDING
BLK.	BLOCK
C.G.	CORNER GUARD
C.J.	CONTROL JOINT
CLG.	CEILING
CONT.	CONTINUOUS
DIA.	DIAMETER
DR.	DOOR
D.S.	DOWNSPOUT
ELEC.	ELECTRIC
ELEV.	ELEVATION
EQ.	EQUAL
EWC.	ELECTRIC WATER COOLER
EXH.	EXHAUST
EXT.	EXTERIOR
F.D.	FLOOR DRAIN
F.E.	FIRE EXTINGUISHER
FL.	FLOOR
GA.	GAUGE
G.C.	GENERAL CONTRACTOR
GL.	GLASS
GYP. BD.	GYPSUM BOARD
H.C.	HANDICAP
HDW.	HARDWARE
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
I.D.	INSIDE DIAMETER
INSUL.	INSULATION
INT.	INTERIOR
MATL.	MATERIAL
MECH.	MECHANICAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
MTL.	METAL
N/A	NOT APPLICABLE
N.E.C.	NATIONAL ELECTRIC CODE
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OPNG.	OPENING
PL.	PLATE
PLAS. LAM.	PLASTIC LAMINATE
PLYWD.	PLYWOOD
REINF.	REINFORCING
REQ'D.	REQUIRED
REV.	REVISION
RM.	ROOM
R.O.	ROUGH OPENING
S.F.	SQUARE FEET
SPEC.	SPECIFICATION
SS.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
SUSP.	SUSPENDED
TEL.	TELEPHONE
T.O.S.	TOP OF STEEL
TYP.	TYPICAL
VERT.	VERTICAL
V.T.	VINYL TILE
V.W.C.	VINYL WALL COVERING
W/	WITH
W.W.F.	WELDED WIRE FABRIC
WD.	WOOD

CODES

HTTPS://WWW.CFM.VA.GOV/TIL/SPEC.ASP - MASTER CONSTRUCTION SPECIFICATIONS (PG-18-1)

NFPA 13 - STANDARD for the INSTALLATION of SPRINKLER SYSTEMS, 2022 EDITION

NFPA 70 - NATIONAL ELECTRIC CODE, 2023 EDITION

NFPA 90A - STANDARD for the INSTALLATION of AIR-CONDITIONING and VENTILATING SYSTEMS, 2024 EDITION

NFPA 99 - STANDARDS FOR HEALTH CARE FACILITIES, 2021 EDITION

NFPA 101 - LIFE SAFETY CODE, 2021 EDITION

NFPA NATIONAL FIRE CODES (EXCEPT NFPA 5000 NFPA 900)

INTERNATIONAL BUILDING CODE, 2021 EDITION

INTERNATIONAL MECHANICAL CODE, 2021 EDITION

INTERNATIONAL PLUMBING CODE, 2021 EDITION

FGI GUIDELINES FOR DESIGN AND CONSTRUCTION OF HOSPITALS, 2022 EDITION

ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARDS (ABAAS) WITH VA SUPPLEMENT, BARRIER FREE DESIGN GUIDE PG-18-13

SEISMIC CATEGORY PER H-18-8 "LOW", JULY 2023

DESIGN CRITERIA

OCCUPANCY CLASSIFICATION - HEALTH CARE OCCUPANCY, INSTITUTIONAL GROUP I-2

CONSTRUCTION TYPE - TYPE II (222) - PROTECTED, AUTOMATIC SPRINKLER SYSTEM, 4 OR MORE STORIES

MAXIMUM TRAVEL DISTANCE TO AN EXIT - 200 FEET

MAXIMUM DEAD END CORRIDOR LENGTH - 50 FEET

MINIMUM OCCUPANT LOAD:
NO CHANGES

MEANS OF EGRESS
NO CHANGES

EXIT WIDTH REQUIRED
NO CHANGES

NOTE:

NO ADDITIONAL SQUARE FOOTAGE IS BEING ADDED
NO ADDITIONAL BEDS ARE BEING ADDED
OCCUPANCY CLASSIFICATION IS NOT BEING CHANGED
HAZARD RATING IS NOT BEING CHANGED
SMOKE AND FIRE ZONES ARE NOT BEING CHANGED OR EFFECTED

PERMITTING

MALCOM RANDALL VA MEDICAL CENTER
FACILITIES MANAGEMENT SERVICE
1601 SOUTHWEST ARCHER ROAD,
GAINESVILLE, FLORIDA 32608

MATTHEW GUSTAFSON
PHONE: 352-283-1206

SCOPE OF WORK

THE GENERAL SCOPE OF WORK INCLUDES ALL GENERAL TRADES, MECHANICAL AND ELECTRICAL WORK TO ALTER AN EXISTING AREA AT THE MALCOM RANDALL VA MEDICAL CENTER, GAINESVILLE, FLORIDA FOR NEW PHILIPS IR IMAGING EQUIPMENT. THERE ARE NO CHANGES TO USE, OCCUPANCY CLASSIFICATION, BUILDING AREA, FIRE OR SMOKE COMPARTMENTS, OR MEANS OF EGRESS.

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FL LICENSE NO. AR-0018524

Digitally signed by DONALD H BERG
Date: 2025.09.06 16:52:37 -04'00'

IR EQUIPMENT REPLACEMENT
ROOM C246-1
PHILIPS AZURION BI-PLANE

MALCOM RANDALL VA MEDICAL CENTER
1601 SOUTHWEST ARCHER ROAD,
GAINESVILLE, FLORIDA 32608

REVISIONS

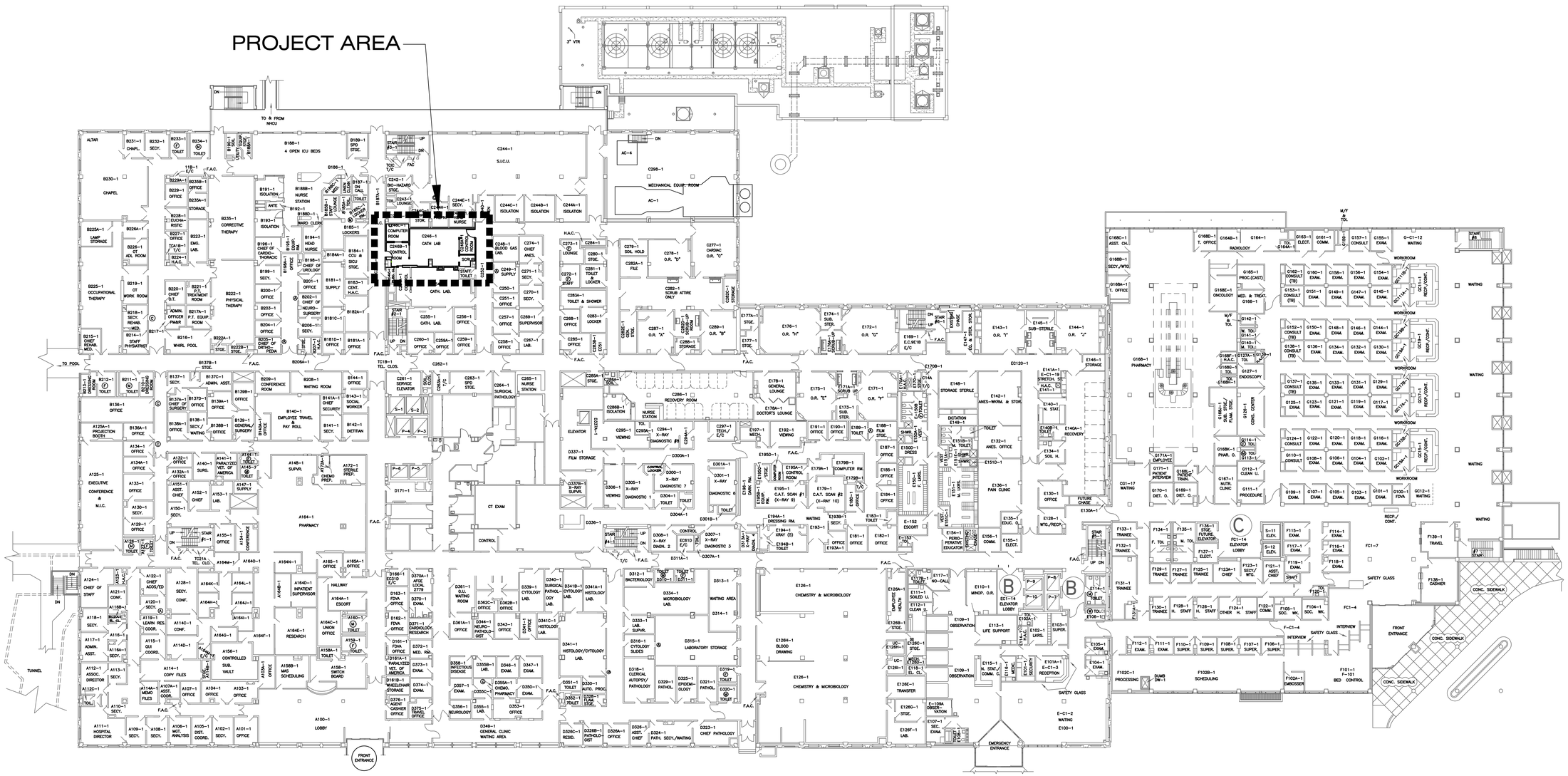
ISSUED FOR:	DATE:
☐	
☐	
☐ REVIEW	08/08/25
☐ BIDDING	
☐ PERMIT	
■ CONSTRUCTION	09/03/25

SHEET TITLE
COVER

DATE
AUGUST 8, 2025

PROJECT NO.
0625-02

SHEET NO.
COVER



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PERMIT	
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SHEET TITLE
ORIENTATION & REF PLAN

DATE
AUGUST 8, 2025

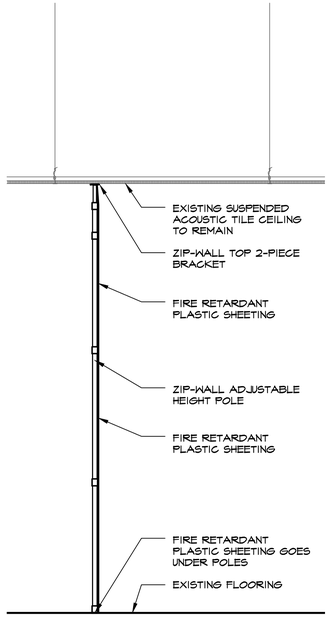
PROJECT NO.
0623-02

SHEET NO.
A-1

ORIENTATION / REFERENCE - 1st FLOOR PLAN

SCALE
N/A

1

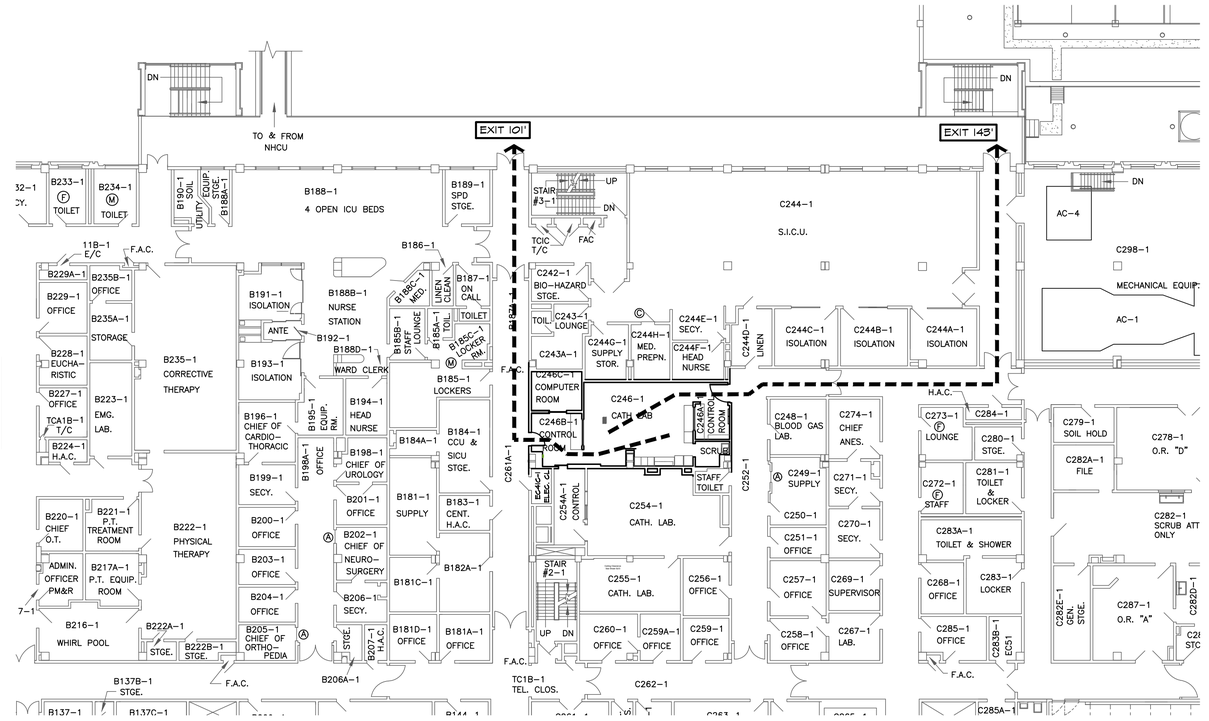


ZIP-WALL DUST PARTITION

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

SITE ACCESS PATH DURING CONSTRUCTION.

1. EMERGENCY EGRESS FOR CONSTRUCTION CREW - EXISTING EMERGENCY EGRESS EXITS FOR STAFF / PATIENTS ARE NOT AFFECTED.



ILSM PLAN

SCALE 3/32" = 1'-0" | 2

DUST CONTROL NOTES:

1. FILTRATION MACHINE SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE AND MEET THE FOLLOWING:
   - PORTABLE FILTRATION AIR MACHINE WITH PRIMARY FILTER, SECONDARY FILTER AND HEPA FILTER; 2-SPEED AND 12"ø INTAKE COLLAR.
   - FILTER AND RECIRCULATE AIR 6 TIMES PER HOUR.
   - COVER NEGATIVE AIR MACHINE INLET WITH CARBON FILTER.
   - FILTRATION AIR WILL BE CONNECTED TO THE EXISTING EXHAUST DUCT LOCATED WITHIN ROOM.
2. CLOSE OPEN DUCTS WITH 6-MIL POLYETHYLENE AND SEAL WITH DUCT TAPE (NOT SHOWN).

DUST PARTITION NOTES:

AA - PLASTIC SHEETING WITH ZIPPERED DOOR OPENING INSIDE DOOR FRAME (CORRIDOR SIDE). PROVIDE SEALING TAPE AT ALL EDGES.
BB - ZIP-WALL DUST PARTITION WITH ZIPPERED DOOR - SEE DETAIL 1A-2 ABOVE.
CC - WALK-OFF STICKY MATS (24" x 36") ON BOTH SIDES OF DOOR.

INSTRUCTIONS - INFECTION CONTROL RISK ASSESSMENT

BASED UPON THE TYPE OF CONSTRUCTION ACTIVITY AND THE PATIENT RISK GROUP, IT IS THE ARCHITECT'S OPINION THAT THE REQUIRED INFECTION CONTROL PRECAUTIONS WILL BE TYPE C, CLASS III. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL VERIFY WITH HOSPITAL SAFETY PERSONNEL THAT THEY AGREE WITH THIS ASSESSMENT.

CLASS III REQUIREMENTS DURING CONSTRUCTION ARE:

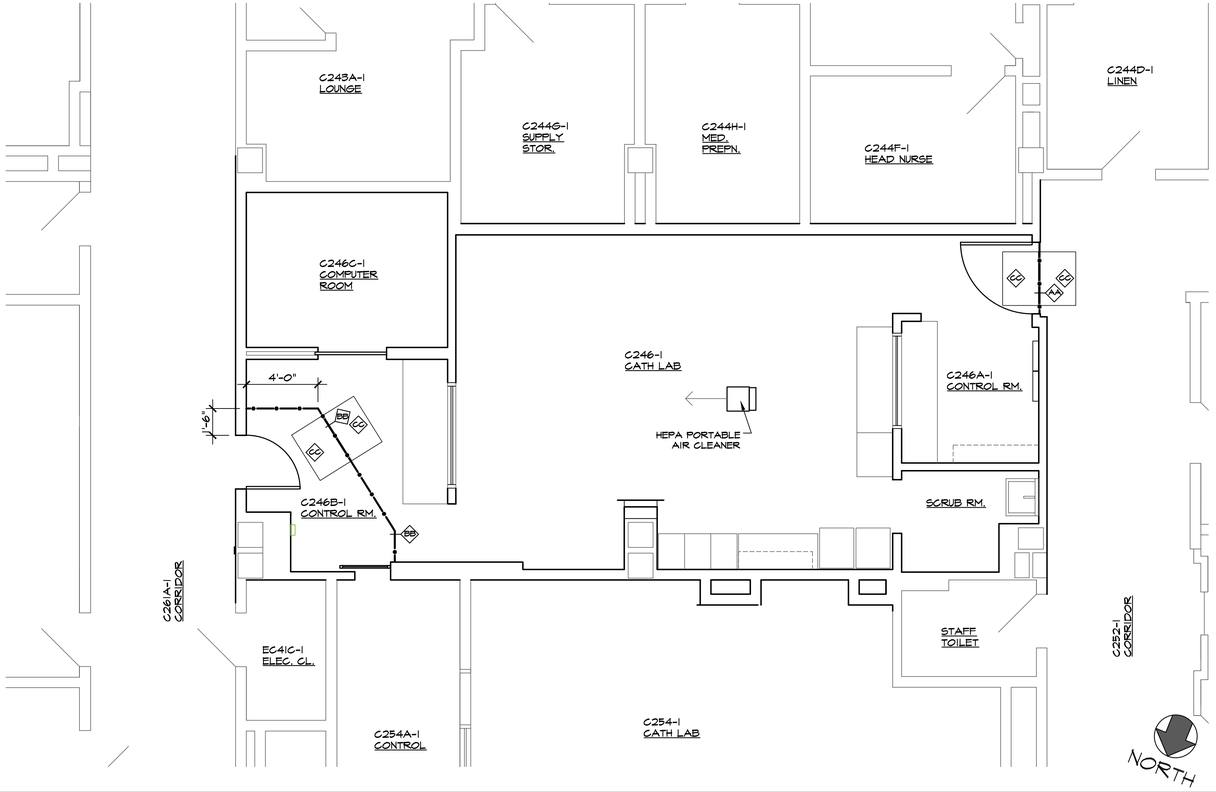
1. REMOVE OR ISOLATE HVAC SYSTEM IN AREAS WHERE WORK IS BEING DONE TO PREVENT CONTAMINATION OF DUCT SYSTEM.
2. COMPLETE CRITICAL BARRIERS, IE. SHEETROCK, PLYWOOD, PLASTIC, TO SEAL AREA FROM NON WORK AREA OR IMPLEMENT CONTROL CUBE METHOD (CART, WITH PLASTIC COVERING AND SEAL CONNECTION TO WORK SITE WITH HEPA VACUUM OR VACUUMING PRIOR TO EXIT) BEFORE CONSTRUCTION BEGINS.
3. MAINTAIN NEGATIVE PRESSURE WITHIN WORK SITE UTILIZING HEPA EQUIPPED FILTRATION UNITS.
4. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS.
5. COVER TRANSPORT RECEPTACLES OR CARTS. TAPE COVERING UNLESS SOLID LID IS UTILIZED.

CLASS III REQUIREMENTS UPON COMPLETION OF PROJECT ARE:

1. DO NOT REMOVE BARRIERS FROM WORK AREA UNTIL COMPLETED PROJECT IS INSPECTED BY THE SAFETY DEPARTMENT AND INFECTION CONTROL DEPARTMENT AND THOROUGHLY CLEANED BY THE ENVIRONMENTAL SERVICES DEPARTMENT.
2. REMOVE BARRIER MATERIALS CAREFULLY TO MINIMIZE SPREAD OF DIRT AND DEBRIS ASSOCIATED WITH CONSTRUCTION.
3. VACUUM WORK AREA WITH FILTERED VACUUMS.
4. WET MOP AREA WITH DISINFECTANT..
5. REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK IS BEING PERFORMED.

SEQUENCE FOR ILSM / ICRA PLAN:

1. INSTALL DUSTPROOF BARRIER IN AREAS WHERE SHOWN.
2. INSTALL WALK-OFF MATS AND HEPA AIR MACHINES VENTED INTO DEDICATED EXHAUST DUCT. CORRIDOR FLOORS WILL BE MOPPED CLEAN DAILY TO REMOVE ANY DUST GENERATED BY THE WORK. NOTE - WALK-OFF MATS AND HEPA AIR MACHINES WILL BE INSPECTED AND MAINTAINED BY THE FIELD SUPERVISOR ON A DAILY BASIS.
3. POST ALL SIGNAGE AND POSTERS IN A CLEAR VISIBLE AREA (I.E. DANGER DO NOT ENTER - CONSTRUCTION, EMERGENCY CALL NUMBERS, OSHA POSTERS, ETC.).
4. ITEMS 1 - 3 WILL BE INSPECTED AND ACCEPTED BY THE HOSPITAL SAFETY AND INFECTION CONTROL STAFF PRIOR TO DEMOLITION. DEMOLITION AND CONSTRUCTION CAN COMMENCE ONCE THE ABOVE ITEMS ARE COMPLETE AND ACCEPTED BY THE HOSPITAL. ITEMS 1 - 3 WILL BE INSPECTED ON A DAILY BASIS BY THE FIELD SUPERVISOR.



ICRA PLAN

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

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IR EQUIPMENT REPLACEMENT
ROOM C246-1
PHILIPS AZURION BI-PLANE
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1601 SOUTHWEST ARCHER ROAD,
GAINESVILLE, FLORIDA 32608

REVISIONS

ISSUED FOR:	DATE:
REVIEW	08/08/25
BIDDING	
PERMIT	
CONSTRUCTION	09/03/25

SHEET TITLE: ILSM and ICRA PLANS

DATE: AUGUST 8, 2025

PROJECT NO.: 0623-02

SHEET NO.: A-2

DEMOLITION CEILING PLAN NOTES:

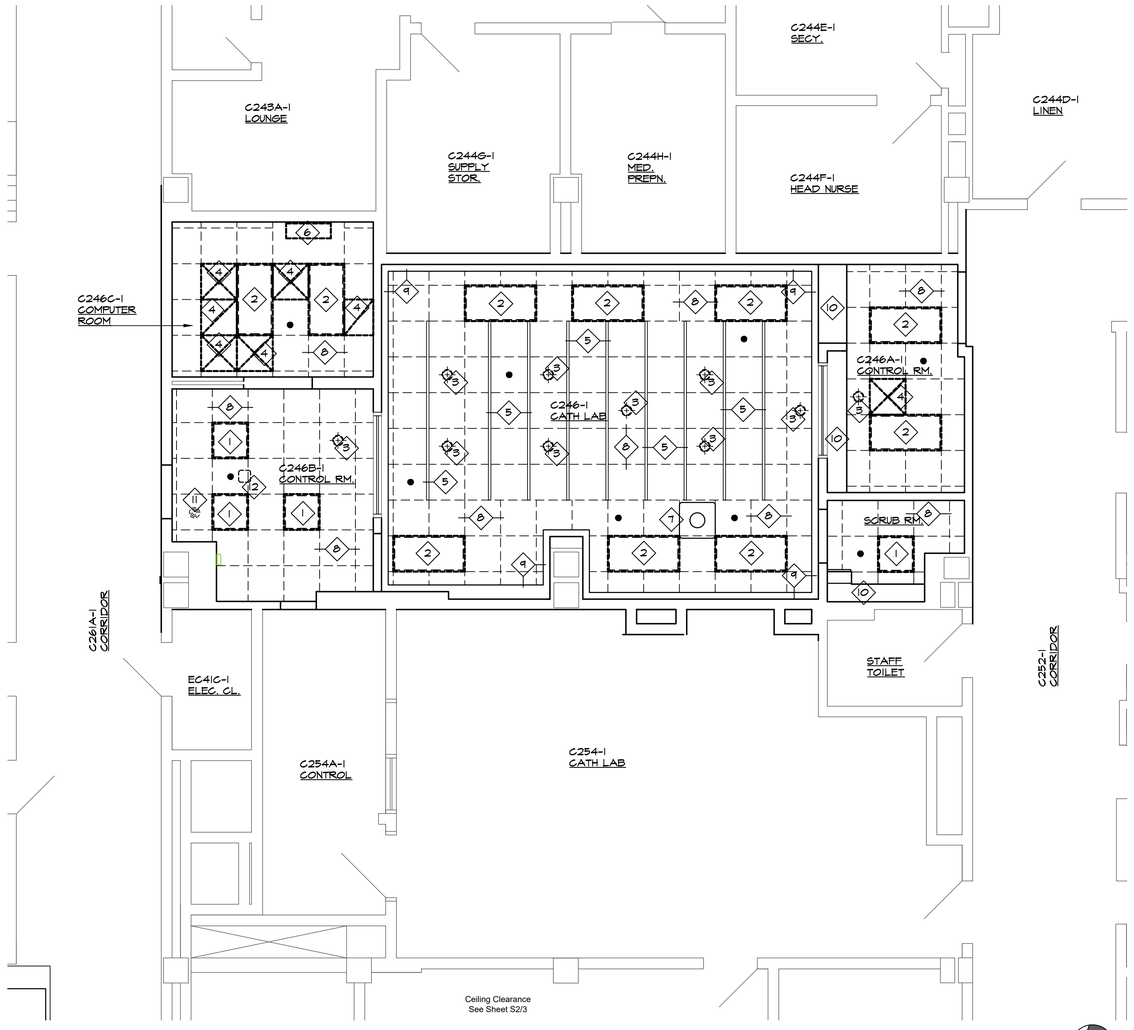
1. REMOVE EXISTING 2x2 LIGHT FIXTURE.
2. REMOVE EXISTING 2x4 LIGHT FIXTURE.
3. REMOVE EXISTING DOWNLIGHT.
4. REMOVE EXISTING HVAC DIFFUSERS AND SAVE FOR CLEANING AND REINSTALLATION.
5. EXISTING UNISTRUT RAILS AND SUPPORTS TO REMAIN.
6. REMOVE EXISTING WALL MOUNTED DAIKIN MINI-SPLIT.
7. EXISTING MEDICAL GAS BOOM TO REMAIN.
8. REMOVE EXISTING ACOUSTIC TILE CEILING INCLUDING GRID.
9. EXISTING SOFFIT TO REMAIN.
10. EXISTING HEADER.
11. WRAP EXISTING ALARM DEVICE IN PLASTIC AND KEEP CONNECTED FOR SUBSEQUENT REINSTALLATION.
12. WRAP EXISTING LOCATING DEVICE IN PLASTIC AND KEEP CONNECTED FOR SUBSEQUENT REINSTALLATION.

● = EXISTING SPRINKLER HEAD LOCATIONS.

FIRE PROTECTION NOTE:

PRIOR TO THE START OF CONSTRUCTION, THE VA SHALL INSTALL HEAT DETECTORS AT UNDERSIDE OF DECK IN LIEU OF TURNING SPRINKLER HEADS UP.

AFTER CONSTRUCTION - THE VA SHALL REMOVE HEAT DETECTORS AFTER CONSTRUCTION IS COMPLETE AND NEW CEILING IS INSTALLED.

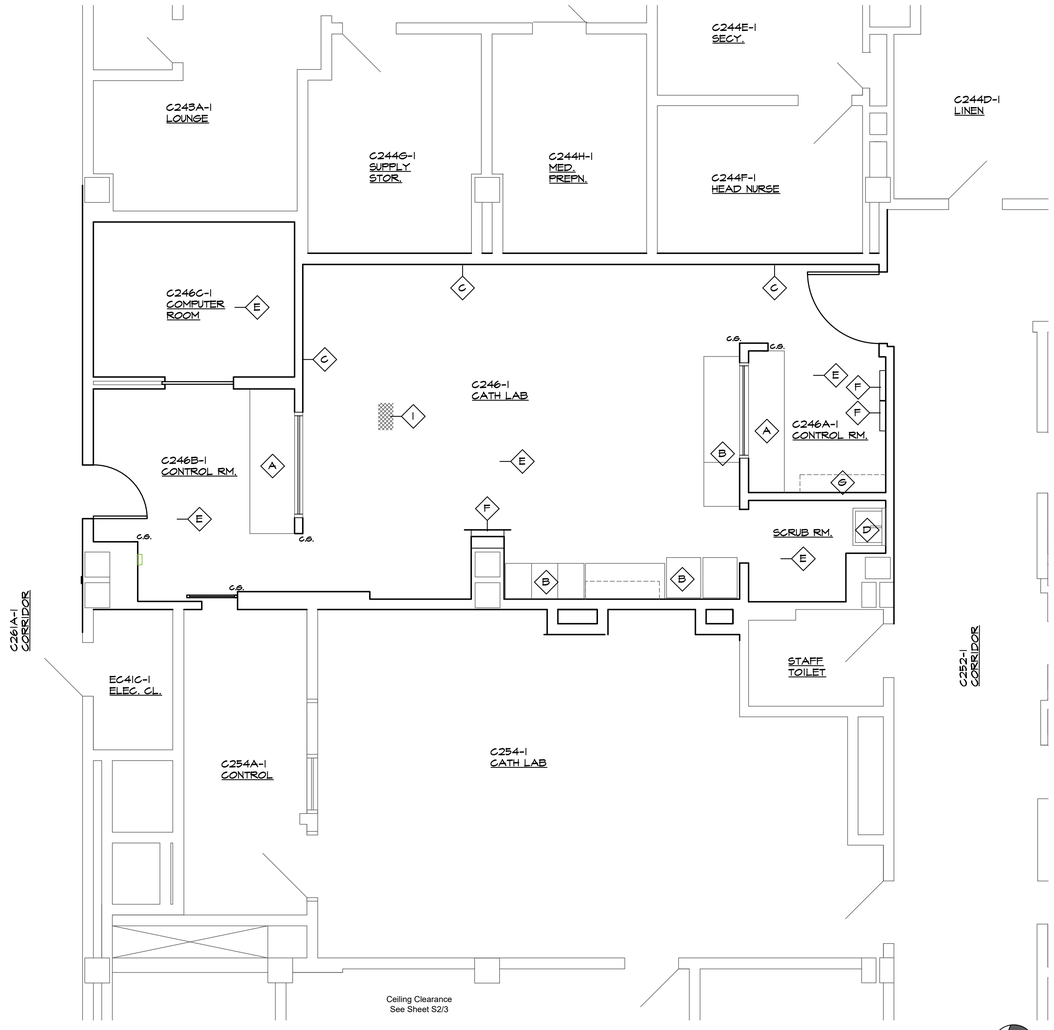


DEMOLITION CEILING PLAN — SCALE 1/4" = 1'-0" — 1

DEMOLITION PLAN NOTES:

A. EXISTING COUNTERTOP TO REMAIN.
B. EXISTING CABINETS TO REMAIN.
C. EXISTING BUMPER GUARD AND WALL PROTECTION TO REMAIN.
D. EXISTING SCRUB SINK AND ACCESSORIES TO REMAIN.
E. REMOVE EXISTING SEAMLESS FLOORING AND BASE (12"x12" VCT IN COMPUTER ROOM).
F. EXISTING ELECTRICAL PANELS TO REMAIN.
G. EXISTING SHELVES TO REMAIN.
H. ALL DOORS TO REMAIN.
I. REMOVE EXISTING FLOOR MOUNTED ELECTRICAL OUTLET BOXES.

c.g. = EXISTING CORNER GUARDS TO REMAIN.



DEMOLITION FLOOR PLAN — SCALE 1/4" = 1'-0" — 2

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SHEET TITLE: DEMO FLOOR & CEILING PLANS

DATE: AUGUST 8, 2025

PROJECT NO.: 0623-02

SHEET NO.: A-3

CEILING LEGEND

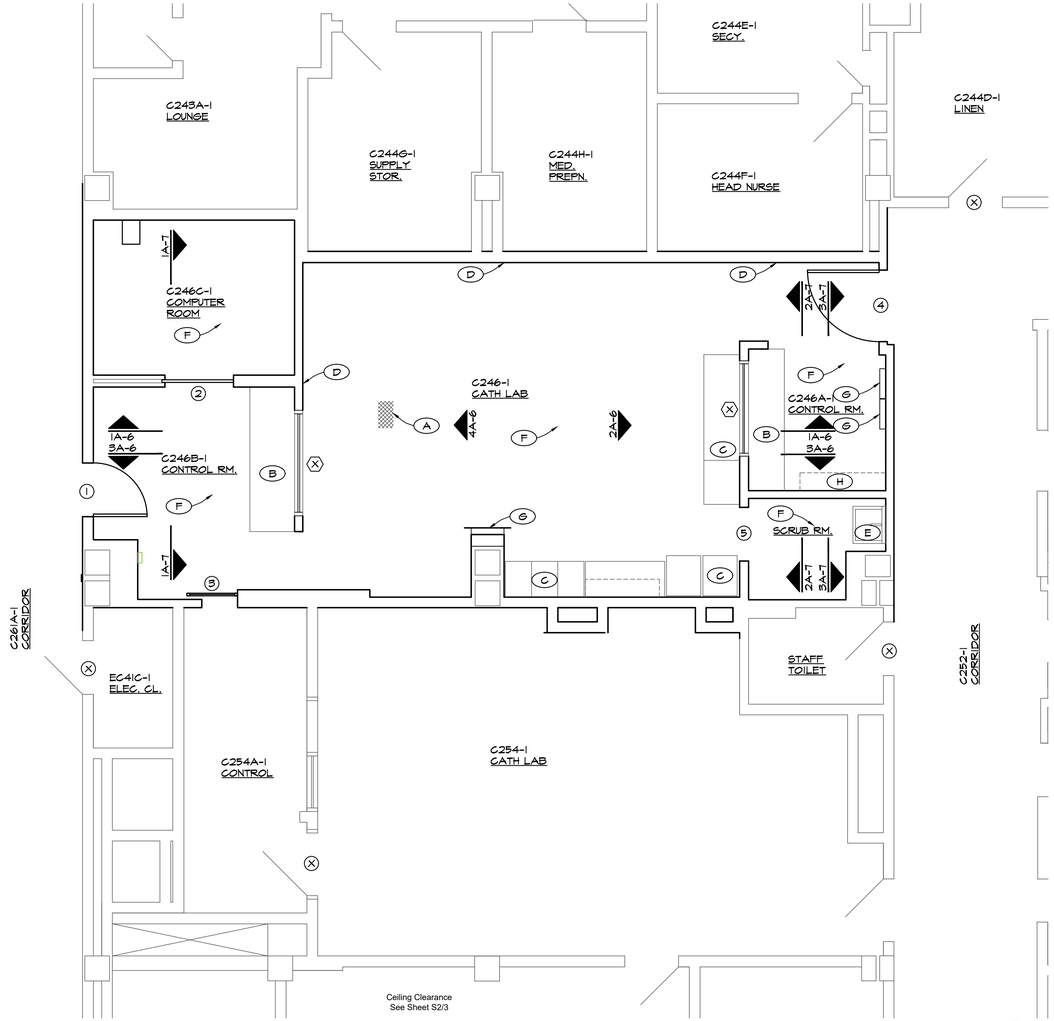
- EXISTING MEDICAL GAS BOOM
- NEW PHILIPS EP EQUIPMENT BOOM - SEE SHEET A-8
- STRYKER BOOM MOUNTING LOCATION - SEE SHEET A-8 FOR TYPICAL SUPPORT DETAILS
- 18"x18" FLUSH MOUNTED CEILING BOX FOR PHILIPS
- EXISTING UNISTRUT TO REMAIN
- PHILIPS EQUIPMENT SUPPORT RAILS SHOWN FOR COORDINATION
- NEW LED LOW PROFILE DOWNLIGHT
- NEW 2x2 LED LOW PROFILE LIGHT FIXTURE
- EXISTING CLEANED HVAC SUPPLY DIFFUSER IN ORIGINAL LOCATION
- EXISTING CLEANED HVAC RETURN DIFFUSER IN ORIGINAL LOCATION
- REINSTALL SAVED / WRAPPED DEVICES
- NEW MINI-SPLIT A/C
- EXISTING SPRINKLER HEAD TO REMAIN

REFLECTED CEILING PLAN | SCALE 1/4" = 1'-0" | 2

(A) CONSTRUCTION PLAN NOTES:

A. PATCH FLOOR WHERE ELECTRICAL BOXES WERE REMOVED.
B. EXISTING COUNTERTOP.
C. EXISTING CABINETS.
D. EXISTING BUMPER GUARD AND WALL PROTECTION.
E. EXISTING SCRUB SINK.
F. NEW SEAMLESS FLOORING AND INTEGRAL 6" BASE.
G. EXISTING ELECTRICAL PANELS.
H. EXISTING SHELVES.

(X) = EXISTING DOOR & FRAME TO REMAIN AS IS.



CONSTRUCTION FLOOR PLAN | SCALE 1/4" = 1'-0" | 3

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SHEET TITLE
CONSTRUCTION & CEILING PLANS

DATE
AUGUST 8, 2025

PROJECT NO.
0623-02

SHEET NO.
A-4

IN GENERAL, THE EXISTING LEAD SHIELDING SHOWN BELOW MUST BE AT LEAST 1/16" TO A HEIGHT OF 7' FROM WITHIN 1" ABOVE THE FINISHED FLOOR. REQUIRES AT LEAST 1" OVERLAP OF AT SEAMS. ALL WALL PENETRATIONS MUST BE BACK SHIELDED WITH LEAD, AGAIN OVERLAPPING TO ENSURE PROTECTION. LEAD MUST BE HUNG SO AS TO NOT TO FALL OR SAG. VERIFY DOORS ARE 1/16" LEAD. LEAD GLASS WINDOW MUST BE 1/16" LEAD EQUIVALENT, RATED AT 135KVP.

NOTE:

THE VA IS RESPONSIBLE FOR THE PRE-CONSTRUCTION RADIATION PROTECTION SURVEY PLUS THE PHYSICIST'S REPORT.

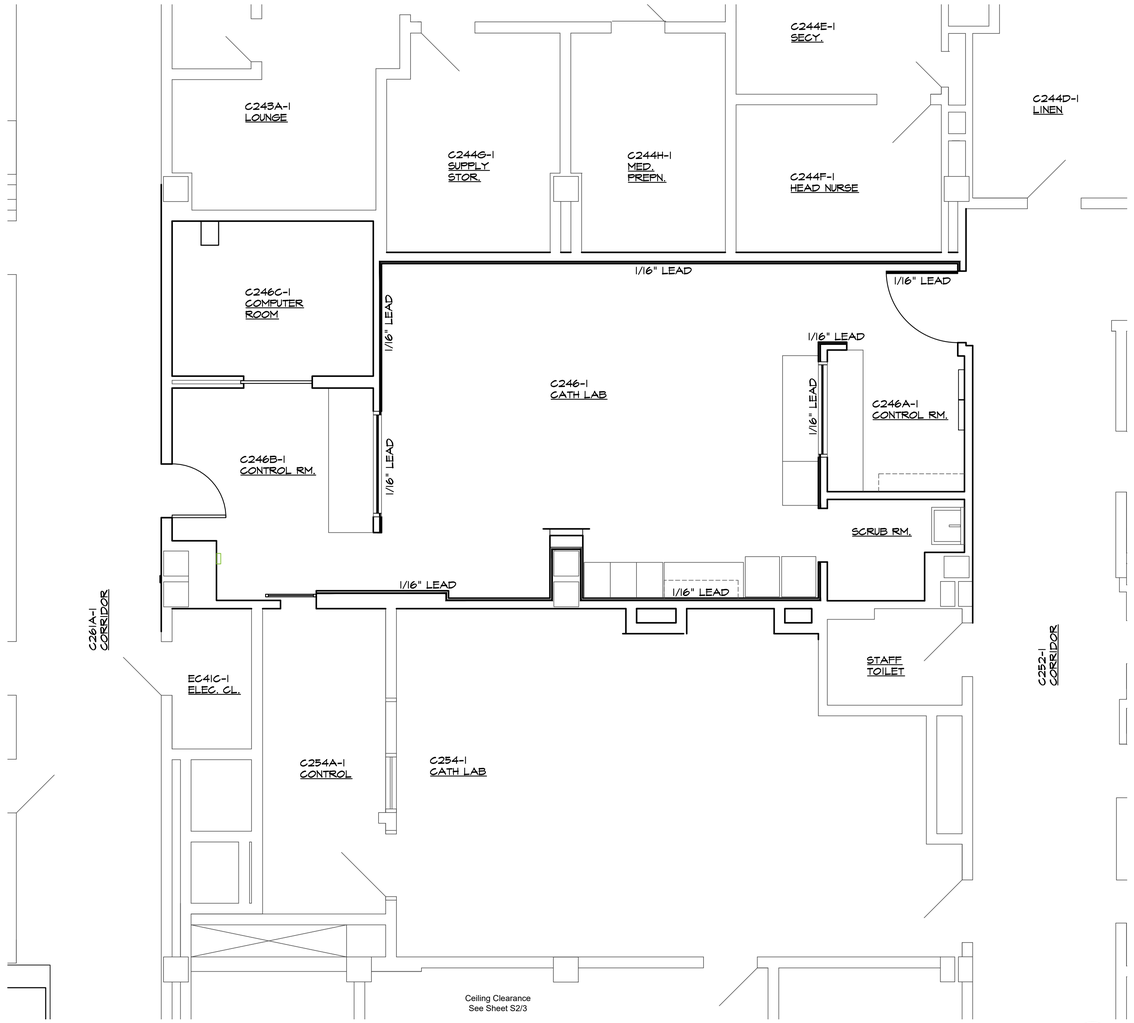
Equipment Legend

A Furnished and installed by Philips
B Furnished by customer/contractor and installed by customer/contractor
C Installed by customer/contractor
D Furnished by Philips and installed by contractor
E Existing
F Future
G Optional
H Existing to be Moved
I Furnished by Philips and installed by Philips 3rd Party

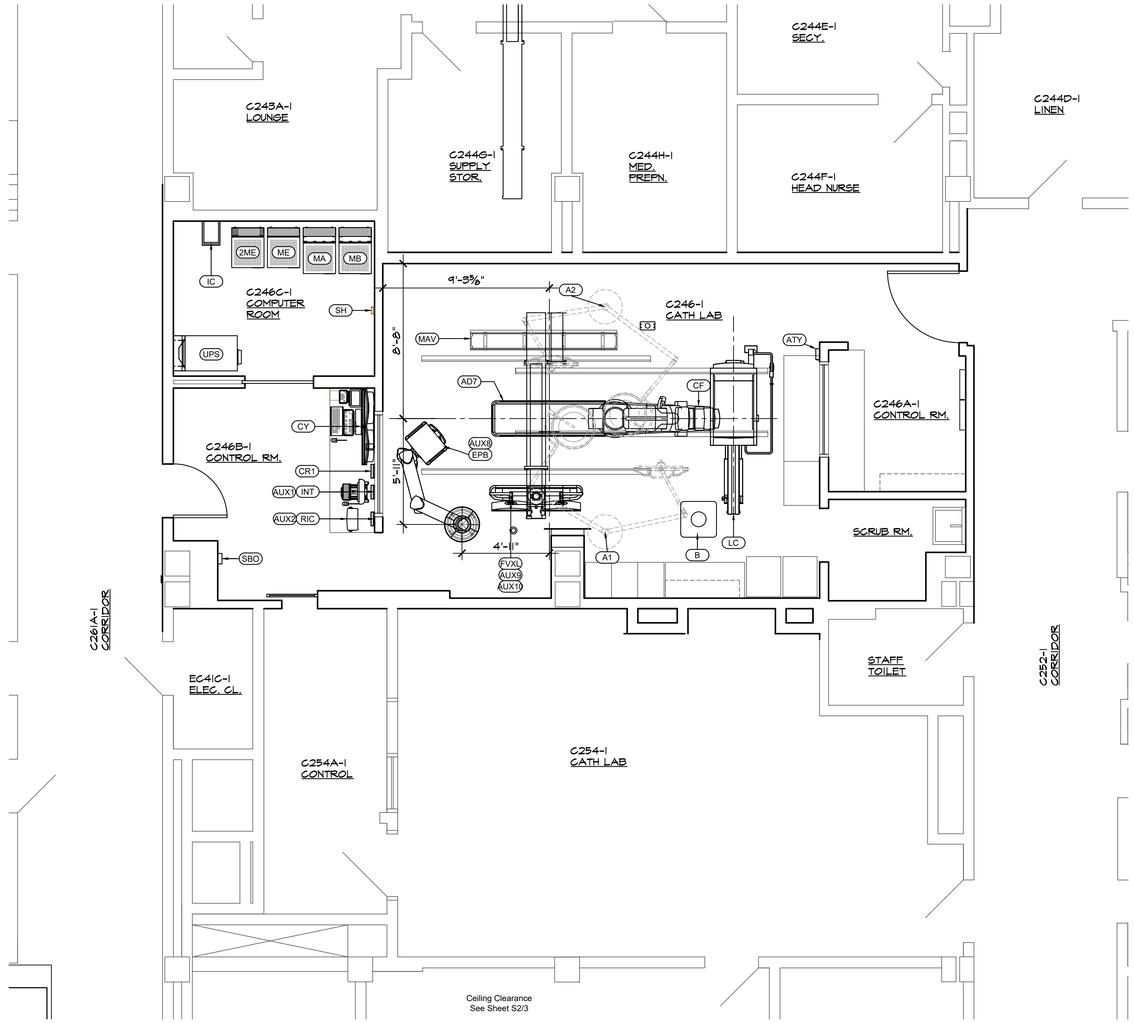
	Equipment Designation	Description	Weight (lbs)	Weight (kg)	Detail Sheet
A	CF	Clea Floor	2557	1160	AD1
A	LC	Larc C Cardiac	1841	835	AD1
A	AD7	Angio Diagnost 7 Premium Tilt & Swivel Table (Swivel, Tilt and Cradle)	1249	567	AD1
A	ME	Certeray iX Generator Cabinet	320	145	AD1
A	2ME	Certeray iX Generator Cabinet	320	145	AD1
A	MA	Mains 40E Cabinet	717	325	AD1
A	MB	Image 40E Cabinet	497	225	AD1
A	DB	Documentation Box - Mounted on Wheels (Final location to be coordinated with customer and/or local Philips Service)	176	80	AD1

A	ATY	Exam Room Auxiliary Box	7	3	AD1
A	CY	Control Room Junction Box	86	39	AD2
A	SH	Service Hub	7	3	AD2
A	CR1	Control Room Equipment Adapter	4	2	AD2
A	FVXL	FlexVision XL + (2) 27" LCD Monitor Suspension	607	276	AD1
A	AUX1	Auxiliary Equipment Adapter	4	2	AD2
	~				
A	AUX10	Auxiliary Equipment Adapter	4	2	AD2
A	VOX1	Auxiliary Video Output	4	2	AD2
	~				
A	VOX4	Auxiliary Video Output	4	2	AD2
A	IH	Interventional Hardware (Integrated with FlexSpot - Not shown)	73	33	-
A	INT	IntraSight- Workstation (Integrated with FlexSpot)	83	38	AD2
A	IC	Injector Room Console	11	4.9	AD2
A	RIC	Injector Remote Panel	7	3	AD2

A	INJ	Medrad Universal T-Rail Bracket for Injector Head (Not shown on plan)	-	-	-
A	MAV	Mavig 2.5m Ceiling Track 360 w/ Rad Shield and Y LED 1F Surgical Light	167	76	AD2
A	EPB	Equipment Rack DVI (EP Power Boom)-(Including Accessories) with Round Plate	865	393	AD2
		Items not on Philips Quote/Order			
D	UPS	Socomec - Low Load Fluoro (LLF) UPS	1873	850	AD2
D	SBO	Signaling Box Option	6.7	3	AD2
B	A1	Stryker - SLX 628 NFC Light / UDM - 1500/1400 Arms	-	-	-
B	A2	Stryker - SLX 628 NFC Light / UDM - 1500/1400 Arms	-	-	-
E	B	Berchtold Teletom Boom	-	-	-



RADIATION PROTECTION PLAN | SCALE 1/4" = 1'-0" | 1



MEDICAL EQUIPMENT FLOOR PLAN | SCALE 1/4" = 1'-0" | 2

DONALD H. BERG, ARCHITECT
3904 TURKEY OAK DRIVE
VALRICO, FLORIDA 33596
TEL: 813-681-7588
FL LICENSE NO. AR-0018524

Digitally signed by DONALD H BERG
Date: 2025.09.06 16:54:33 -04'00'

IR EQUIPMENT REPLACEMENT
ROOM C246-1
PHILIPS AZURION BI-PLANE

MALCOM RANDALL VA MEDICAL CENTER
1601 SOUTHWEST ARCHER ROAD,
GAINESVILLE, FLORIDA 32608

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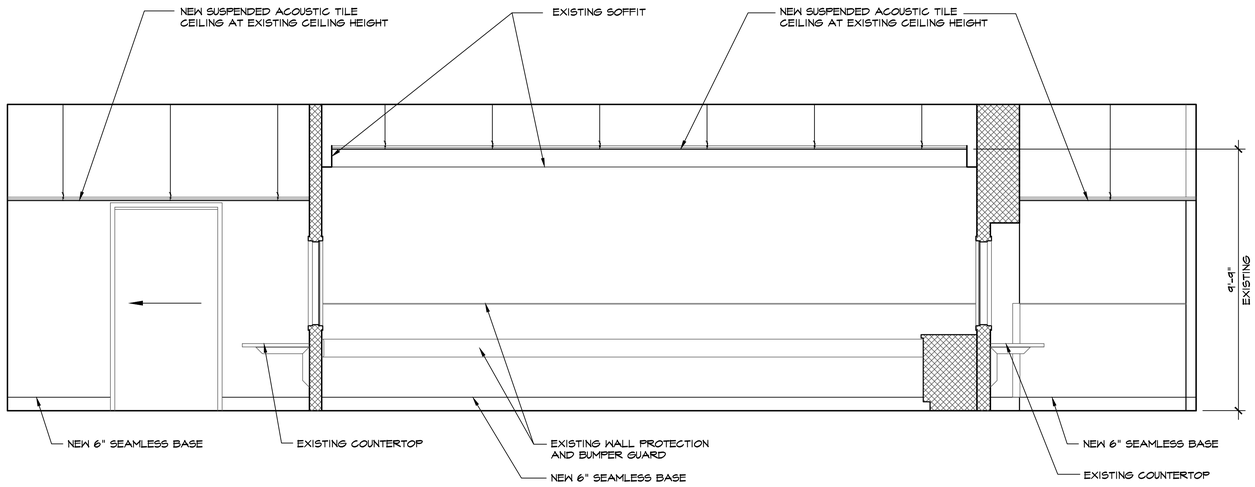
■ CONSTRUCTION	09/03/25

SHEET TITLE
EQUIPMENT & PROTECTION FLOOR PLANS

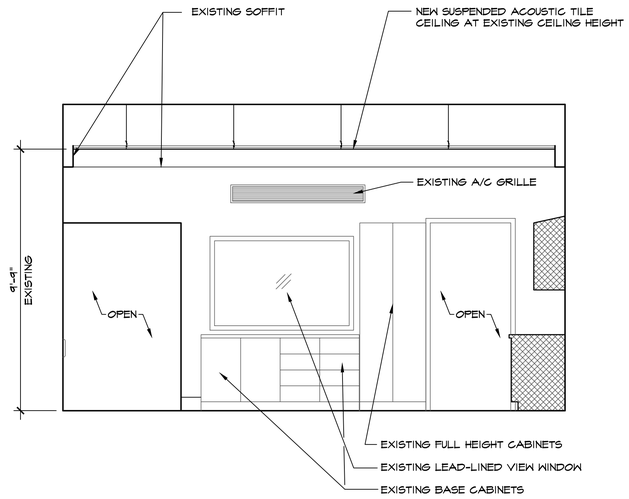
DATE
AUGUST 8, 2025

PROJECT NO.
0623-02

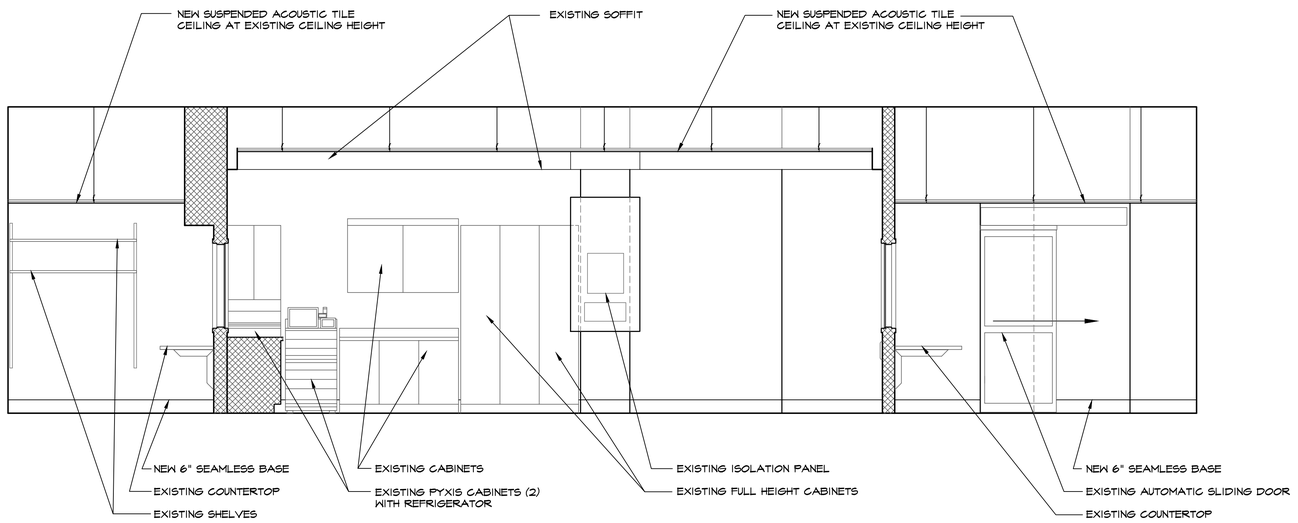
SHEET NO.
A-5



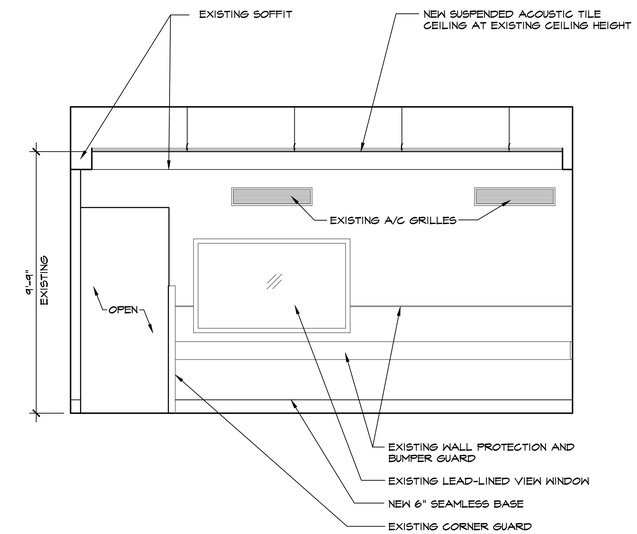
INTERIOR ELEVATION | SCALE 3/8" = 1'-0" | 1



INTERIOR ELEVATION | SCALE 3/8" = 1'-0" | 2



INTERIOR ELEVATION | SCALE 3/8" = 1'-0" | 3



INTERIOR ELEVATION | SCALE 3/8" = 1'-0" | 4

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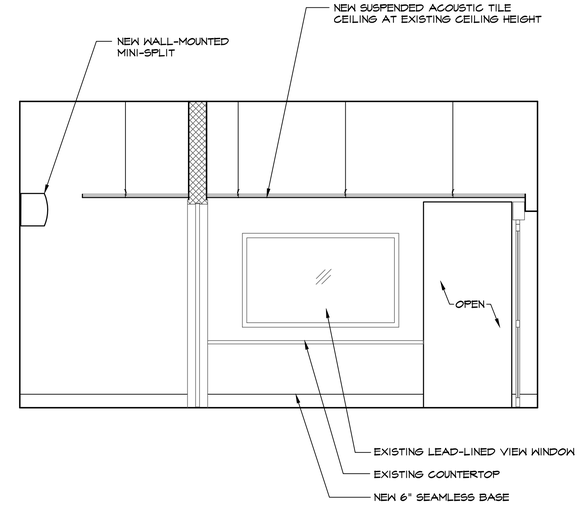
SHEET TITLE
INTERIOR ELEVATIONS

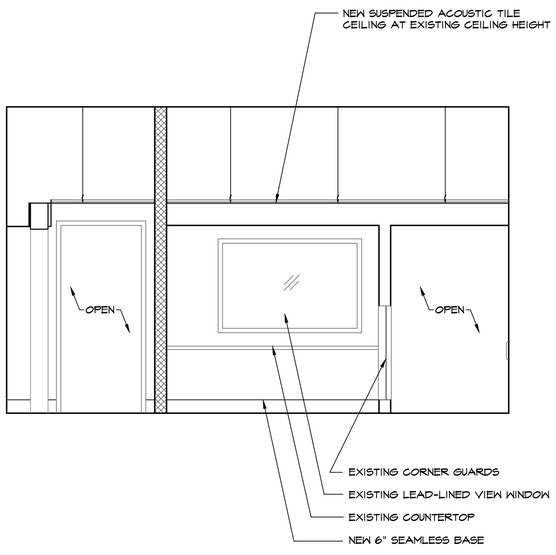
DATE
AUGUST 8, 2025

PROJECT NO.
0625-02

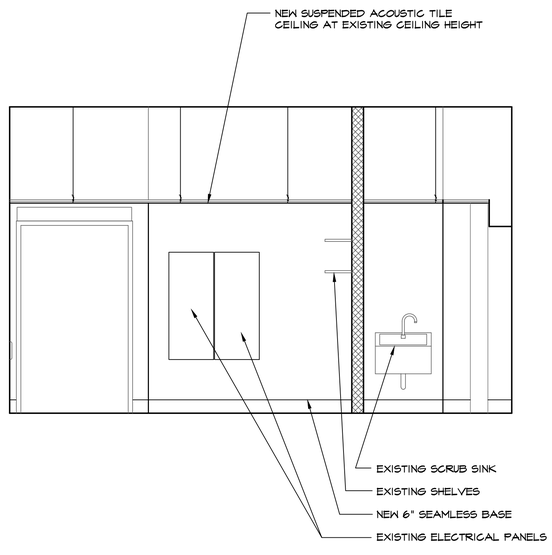
SHEET NO.
A-6



INTERIOR ELEVATION | SCALE 3/8" = 1'-0" | 1



INTERIOR ELEVATION | SCALE 3/8" = 1'-0" | 2



INTERIOR ELEVATION | SCALE 3/8" = 1'-0" | 3

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Digitally signed by DONALD H BERG
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IR EQUIPMENT REPLACEMENT
ROOM C246-1
PHILIPS AZURION BI-PLANE

MALCOM RANDALL VA MEDICAL CENTER
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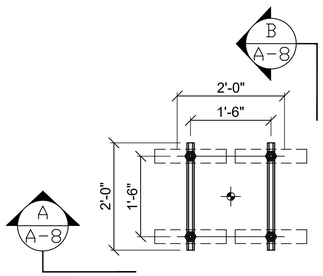
SHEET TITLE
INTERIOR ELEVATIONS

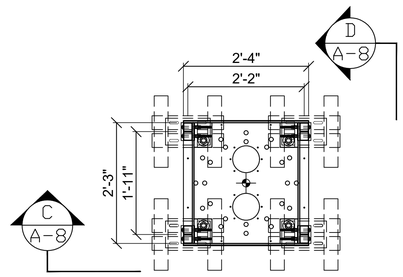
DATE
AUGUST 8, 2025

PROJECT NO.
0625-02

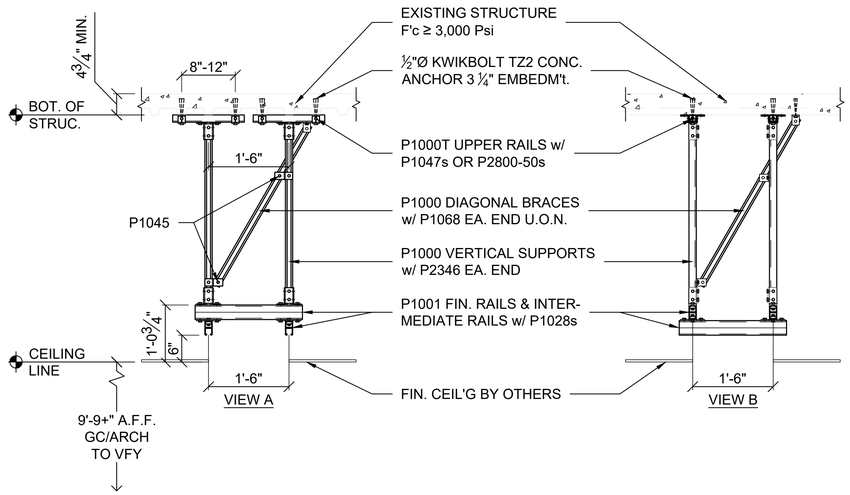
SHEET NO.
A-7



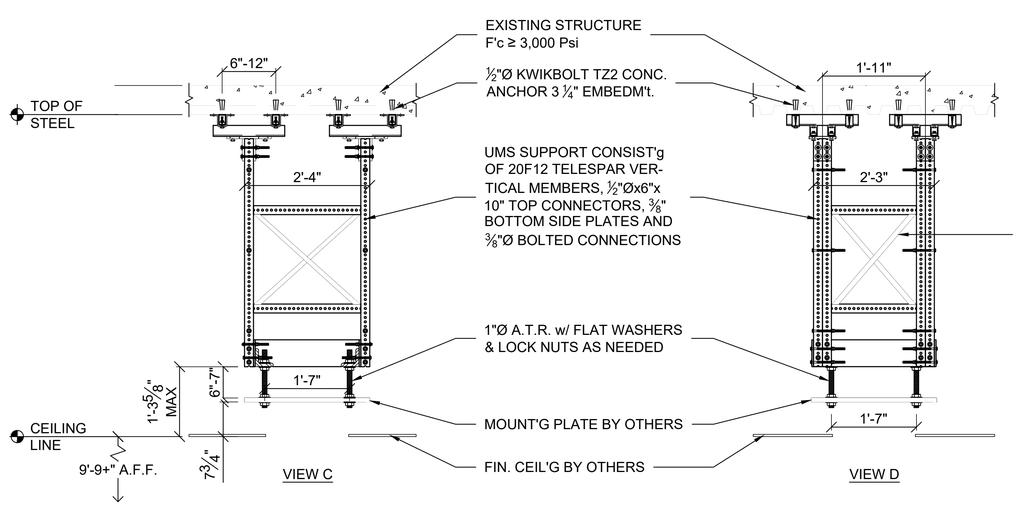
DETAIL UNISTRUT TYP EXAM LIGHT SUPPORT | SCALE 3/4" = 1'-0" | 1



DETAIL UNISTRUT TYP UMS BOOM SUPPORT | SCALE 3/4" = 1'-0" | 2



SECTION UNISTRUT TYPICAL EXAM LIGHT SUPPORT | SCALE 3/4" = 1'-0" | 3



BOOM SUPPORTS AND ASSOCIATED DETAILS SHALL BE ENGINEERED BY UNISTRUT - DRAWINGS FOR SUPPORTS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL - DETAILS SHOWN HERE ARE GENERIC - CEILING TO STRUCTURE ABOVE HEIGHT IS MUCH SHORTER THAN SHOWN HERE

SECTION UNISTRUT TYPICAL UMS BOOM SUPPORT | SCALE 3/4" = 1'-0" | 4

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DONALD H BERG
Date: 2025.09.06
16:55:27 -04'00'

IR EQUIPMENT REPLACEMENT
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PHILIPS AZURION BI-PLANE

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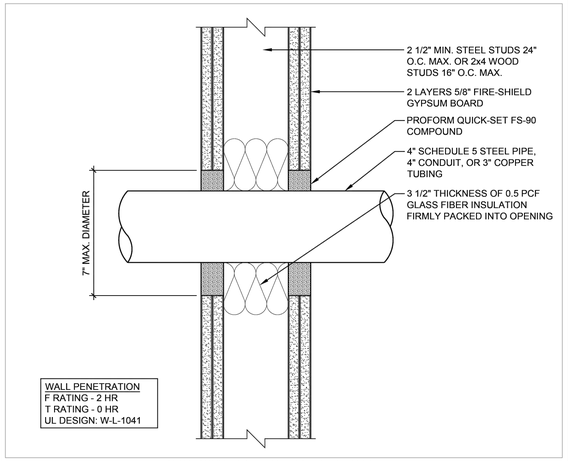
SHEET TITLE
TYPICAL
BOOM
SUPPORTS

DATE
AUGUST 8, 2025

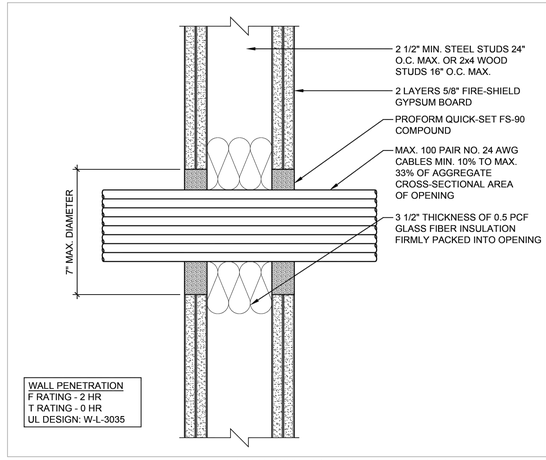
PROJECT NO.
0625-02

SHEET NO.
A-8



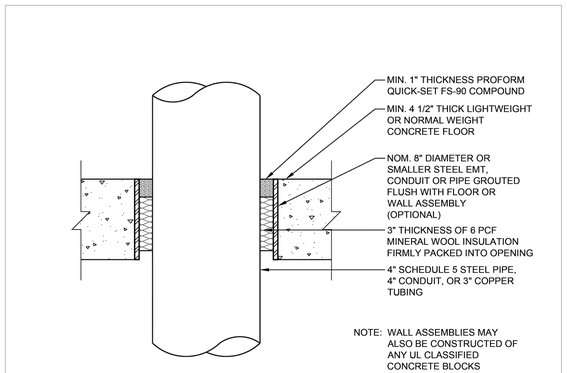
PIPE PENETRATION THROUGH WALL

PENETRATION DETAIL | SCALE N.T.S. | 1



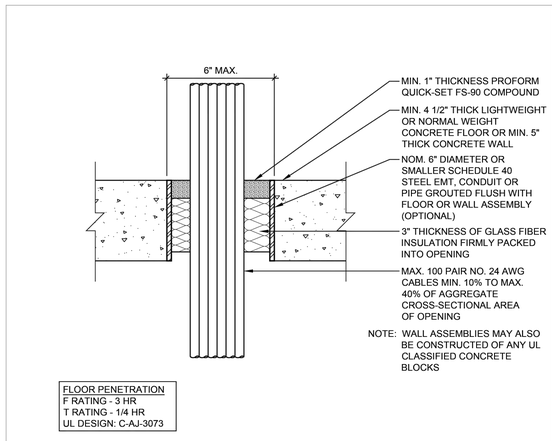
CABLE PENETRATION THROUGH WALL

PENETRATION DETAIL | SCALE N.T.S. | 2



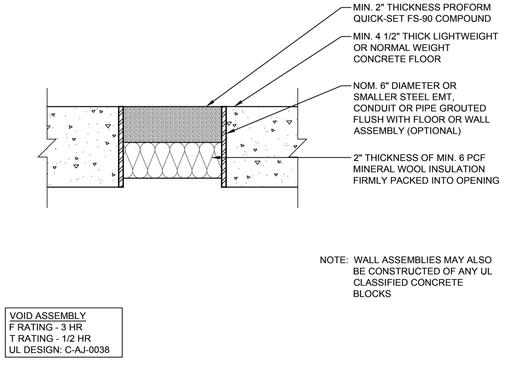
PIPE PENETRATION THROUGH FLOOR

PENETRATION DETAIL | SCALE N.T.S. | 3



CABLE PENETRATION THROUGH FLOOR

PENETRATION DETAIL | SCALE N.T.S. | 4



VOID FILL ASSEMBLY

PENETRATION DETAIL | SCALE N.T.S. | 5

NO.	SIZE	DOOR	FRAME	GLASS	ELEV.	HARDWARE	REMARKS
1	EXISTING	EXISTING WOOD DOOR	EXISTING HOLLOW METAL	-	-	EXISTING	NOTE 1
2	EXISTING	EXISTING SLIDING WOOD DOOR	EXISTING HOLLOW METAL	-	-	EXISTING	NOTE 1
3	EXISTING	EXISTING ALUMINUM / GLASS AUTOMATIC	-	EXISTING	-	EXISTING	NOTE 2
4	EXISTING	EXISTING LEAD-LINED WOOD	EXISTING LEAD-LINED HOLLOW METAL	-	-	EXISTING	NOTE 1
5	EXISTING	EXISTING CASED OPENING	EXISTING HOLLOW METAL	-	-	-	-
X	EXISTING TO REMAIN	EXISTING	EXISTING			EXISTING	

NOTES:

1. REFINISH / REPAINT EXISTING WOOD DOOR. FINISH HARDWARE SHALL REMAIN.
2. EXISTING AUTOMATIC POWERED SLIDING DOOR TO REMAIN AS IS.

DOOR SCHEDULE | SCALE N/A | 6

RM NUMBER	NAME	FLOOR	BASE	WALLS / TRIM	CEILING	CEILING HEIGHT	REMARKS
C246C-1	COMPUTER ROOM	WSF-1	WSF-2	P-1 / P-2	AT-1	EXISTING	-
C246B-1	CONTROL RM.	WSF-1	WSF-2	P-1 / P-2	AT-1	EXISTING	-
C246-1	CATH LAB	WSF-1	WSF-2	P-1 / P-2	AT-1	EXISTING	-
C246A-1	CONTROL RM.	WSF-1	WSF-2	P-1 / P-2	AT-1	EXISTING	-
	SCRUB ROOM	WSF-1	WSF-2	P-1 / P-2	AT-1	EXISTING	-

FINISH SCHEDULE | SCALE N/A | 7

ITEM	MATERIAL	MANUFACTURER	COLOR
AT-1	ACOUSTICAL TILE 24"x24"x1"	ARMSTRONG	CALLA HEALTH ZONE - SQUARE LAY-IN - WHITE IN STANDARD 15/16" GRID
P-1	PAINT - WALLS	SHERWIN WILLIAMS	ORIGAMI WHITE SW7636, EGGSHELL
P-2	PAINT - TRIM / DOORS	SHERWIN WILLIAMS	ORIGAMI WHITE SW7636, SEMI-GLOSS
WSF-1	SEAMLESS SHEET W/ WELDED SEAMS	MANNINGTON	HOMOGENEOUS SHEET BIOSPEC ARMOR - COLOR - BREEZY
WSF-2	SEAMLESS SHEET COVE BASE 6" HIGH	MANNINGTON	HOMOGENEOUS SHEET BIOSPEC ARMOR - COLOR - BREEZY, FLASH COVING WITH SCHLUTER CAP / TRIM - RONDEC RO 60 AT - SATIN NICKEL ANODIZED ALUMINUM NICKEL)

MATERIAL / COLOR SCHEDULE | SCALE N/A | 8

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Date: 2025.09.06 16:55:43 -04'00'

IR EQUIPMENT REPLACEMENT
ROOM C246-1
PHILIPS AZURION BI-PLANE

MALCOM RANDALL VA MEDICAL CENTER
1601 SOUTHWEST ARCHER ROAD,
GAINESVILLE, FLORIDA 32608

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SHEET TITLE
DETAILS SCHEDULES

DATE
AUGUST 8, 2025

PROJECT NO.
0623-02

SHEET NO.
A-9

GENERAL PROJECT NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL DRAWINGS AND SPECIFICATIONS AS PART OF THIS DRAWING SET INCLUDING ARCHITECTURAL, MECHANICAL, FIRE PROTECTION, PLUMBING, ELECTRICAL, AND PHILIPS DRAWINGS PRIOR TO SUBMITTING A BID. REPORT ANY DISCREPANCIES TO ARCHITECT OR APPLICABLE ENGINEER PRIOR TO BID.

2. BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF WORK. THE SUBMISSION OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED, OR FOR ANY DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION BEEN MADE, WILL NOT BE ALLOWED.

3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT OR HOSPITAL OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO SUBMISSION OF BID.

DIVISION 1 - GENERAL REQUIREMENTS

CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM THE DATE OF ACCEPTANCE AND SHALL ADVISE HOSPITAL IN WRITING OF ANY HOSPITAL REQUIRED MAINTENANCE TO MAINTAIN WARRANTY.

CORRECTION OF ANY DEFECTS TO BE COMPLETED WITHOUT ADDITIONAL CHARGE AND TO INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.

ALL REQUIRED INSURANCE TO BE PROVIDED FOR THE PROTECTION AGAINST PUBLIC LIABILITY OF PROPERTY DAMAGE FOR THE DURATION OF THE WORK.

CONTRACTOR SHALL MAINTAIN ON SITE A DEDICATED COMPLETE COPY OF THESE DRAWINGS TO BE MARKED UP WITH ALL CONSTRUCTION DEVIATIONS. A COPY OF THIS MARKED-UP SET OF DRAWINGS WILL BE GIVEN TO THE ARCHITECT AFTER WORK HAS BEEN COMPLETED AND ACCEPTED BY THE MEDICAL CENTER. TRANSMITTAL SHALL TAKE PLACE WITHIN 30 DAYS OF ACCEPTANCE.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL CONSTRUCTION MATERIALS AND MANUFACTURED ITEMS / PRODUCTS.

DIVISION 2 - SITE WORK (DEMOLITION)

REMOVE ALL ITEMS AS SHOWN IN THE DRAWINGS.

VA TO CLEAN UP / ORGANIZE ALL EXISTING IT/DATA CABLING, COMMUNICATIONS, SECURITY, FIRE ALARM, ETC. ABOVE CEILINGS.

REMOVE ALL UNNECESSARY ELECTRICAL CONDUITS, LIGHTING FIXTURES AND ELECTRICAL DEVICES, ETC. AS REQUIRED FOR THE NEW WORK.

REMOVE SUSPENDED CEILINGS AND GRID WHERE SHOWN.

REMOVE EXISTING FLOORING WHERE SHOWN.

DIVISION 3 - CONCRETE

IF REQUIRED PATCH AND LEVEL EXISTING FLOOR SLAB WITH ARDEX LU-100 OR EQUAL TO MEET PHILIPS SPECIFICATIONS. REFER TO PHILIPS "S1" DRAWING.

DIVISION 4 - MASONRY - N/A

DIVISION 5 - METALS

THE EXISTING UNISTRUT ENGINEERED METAL FRAMING SYSTEM HAS BEEN REVIEWED AND FOUND ACCEPTABLE FOR REUSE WITH NEW EQUIPMENT.

WHERE REQUIRED FOR FUTURE STRYKER AND PHILIPS CEILING MOUNTED BOOMS - PROVIDE UNISTRUT ENGINEERED METAL FRAMING SYSTEM FOR BOTH STRYKER BOOMS AND PHILIPS EQUIPMENT BOOM. FRAMING DESIGNS SHALL BE DONE BY A STRUCTURAL ENGINEER LICENSED IN THE UNITED STATES AND SHALL BEAR HIS SEAL / SIGNATURE.

DESIGN SHALL INCLUDE ALL MEMBERS, CONNECTIONS, ANCHORS, ETC. AND SUBMITTED TO THE ARCHITECT AND MEDICAL CENTER FOR REVIEW AND APPROVAL. THE DESIGN WILL PERMIT ANY UTILITIES AND OTHER UNISTRUT FRAMING LOCATED ABOVE THE CEILING TO REMAIN IN PLACE IF AT ALL POSSIBLE. A COPY OF THE APPROVED DESIGN WILL REMAIN ON SITE AND SHALL BE MARKED-UP IF ANY CHANGES ARE MADE.

DIVISION 6 - WOOD & PLASTICS - N/A

DIVISION 7 - THERMAL & MOISTURE PROTECTION

CAULK AND SEAL ALL PENETRATIONS THROUGH ALL PARTITIONS AND SLABS IN ACCORDANCE WITH NEC 300-21. SEE EXAMPLE DRAWINGS ON SHEET A-9. PENETRATIONS THROUGH CORRIDOR PARTITIONS, ADJOINING ROOMS AND SLABS SHALL BE SEALED OR SLEEVED AND SEALED IN ACCORDANCE WITH THE SPECIFICATIONS TO STOP AIR PASSAGE.

DIVISION 8 - DOORS & WINDOWS - N/A

DIVISION 9 - FINISHES

STANDARD CEILINGS SHALL BE CLASS A, NON-COMBUSTIBLE SQUARE EDGE LAY-IN TILE 24"X24"X1" ACOUSTIC PANELS IN A SUSPENDED GRID SYSTEM. ACOUSTIC PANELS SHALL BE ARMSTRONG CALLA HEALTH ZONE IN A STANDARD WHITE 15/16" EXPOSED TEE GRID. SURFACE BURNING CHARACTERISTICS PER ASTM E84: FLAME SPREAD RATING - 25 MAXIMUM & SMOKE DEVELOPED RATING - 450 MAXIMUM.

RESILIENT SHEET (SEAMLESS) FLOORING SHALL BE MANNINGTON SEAMLESS HOMOGENEOUS SHEET BIOSPEC ARMOR WITH INTEGRAL 6" ROLLED BASE AND SATIN NICKEL ANODIZED ALUMINUM CAPS. FIRE TEST PERFORMANCE OF: ASTM E 648 CRITICAL RADIANT FLUX OF 0.45 WATTS PER SQ. CM. OR GREATER, CLASS 1, ASTM E 662 (SMOKE GENERATION) MAXIMUM SPECIFIC OPTICAL DENSITY OF 450 OR LESS.

PAINT ALL NEW GYPSUM WALL BOARD WITH ONE (1) COAT PRIMER AND TWO (2) FINISH COATS OF SHERWIN WILLIAMS PAINT.

PAINT PREVIOUSLY PAINTED DRYWALL AND OTHER AREAS NEEDING TOUCH UP PAINT WITH TWO (2) FINISH COATS OF PAINT.

PAINT ALL HOLLOW METAL FRAMES WITH ONE (1) COAT LATEX PRIMER AND TWO (2) COATS SHERWIN WILLIAMS PAINT.

DO NOT USE OIL BASED PAINTS.

DIVISION 10 - SPECIALTIES - N/A

DIVISION 11 - EQUIPMENT - N/A

DIVISION 12 - FURNISHINGS - N/A

DIVISION 13 - SPECIAL CONSTRUCTION

PROVIDE 1/16" LEAD LINED 5/8" GYPSUM WALL BOARD OR ROLLED LEAD FOR PATCHING IF NEEDED. LEAD SHALL EXTEND FROM FLOOR TO 7'-0" ABOVE FINISH FLOOR. INCLUDE LEAD CAPS OVER WALL BOARD SCREWS. ALL OUTLET BOXES, JUNCTION BOXES, ETC. IN LEADED WALLS SHALL BE LINED WITH 1/16" LEAD.

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Date: 2025.09.06 16:56:03 -04'00'

IR EQUIPMENT REPLACEMENT
ROOM C246-1
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SHEET TITLE
ARCHITECTURAL SPECIFICATIONS

DATE
AUGUST 8, 2025

PROJECT NO.
0623-02

SHEET NO.
A-10

CONTRACTOR NOTES

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT, LANDLORD OR TENANT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO SUBMISSION OF BID.

BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK. THE BASE BID SHALL REFLECT MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY STATE, LOCAL AND FEDERAL CODES WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS. THE SUBMISSIONS OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES/REQUIREMENTS HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION AND CODE/REQUIREMENTS REVIEW BEEN MADE, WILL NOT BE ALLOWED.

MINI-SPLIT A/C SCHEDULE

AIR HANDLING UNIT DATA					
TAG	–	MSAHU-1			
AREA SERVED	–	COMPUTER ROOM			
STYLE/TYPE	–	WALL MOUNTED			
NOMINAL CAPACITY	TONS	2.5			
COOLING CAPACITY	BTUH	30,000			
SUPPLY AIR	CFM	775			
FILTER TYPE	–	WASHABLE			
OPERATING WEIGHT	LBS.	46			
HEATING CAPACITY	BTUH	32,000			
MANUFACTURER	–	MITSUBISHI			
MODEL NO.	–	PKA-A30KA8			
NOTES/ACCESSORIES	①	①			
CONDENSING UNIT DATA					
TAG	–	MSCU-1			
OUTDOOR TEMP.	°F	95			
ELECTRICAL	VOLT/PH	208/1			
MCA	AMPS	19.0			
MOCP	AMPS	26.0			
SEER	BTU/W*HR	20			
HSPF	BTU/W*HR	8.8			
LOCATION	–	ROOF MOUNTED			
OPERATING WEIGHT	LBS.	153			
MANUFACTURER	–	MITSUBISHI			
MODEL NO.	–	PUZ-A30NHA7			
NOTES/ACCESSORIES	①	①			

① PROVIDE WITH SINGLE POINT ELECTRICAL CONNECTION. WEATHERPROOF OUTDOOR UNIT DISCONNECT BY ELECTRICAL. INDOOR UNIT POWERED FROM OUTDOOR UNIT. PROVIDE TOGGLE DISCONNECT SWITCH FOR INDOOR UNIT. PROVIDE WITH CONDENSATE PUMP GOBI II WITH BUILT-IN ALARM RELAY THAT TURNS OFF INDOOR UNIT POWER WHEN TRIPPED. PROVIDE FACTORY PROGRAMMABLE THERMOSTAT. VERIFY REFRIGERANT LINE SIZE WITH MANUFACTURER PER FINAL REFRIGERANT RUN. SUCTION AND LIQUID LINES ARE TO BE INSULATED. PROVIDE WITH SHORT CYCLE PROTECTION. PROVIDE ALL ACCESSORIES/SPECIALTIES AS RECOMMENDED BY MANUFACTURER. PROVIDE WITH FACTORY LOW AMBIENT KIT.

MINI SPLIT HEAT PUMPS – SEQUENCE OF OPERATION

PER 7-DAY PROGRAMMABLE THERMOSTAT:

COOLING: THE SUPPLY FAN AND THE COMPRESSOR(S) SHALL CYCLE AS REQUIRED TO MAINTAIN COOLING SETPOINT.

HEATING: THE SUPPLY FAN AND THE HEAT PUMP SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE HEATING SETPOINT.

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	NEW DUCTWORK, PIPING, OR EQUIPMENT
	EXISTING DUCTWORK, PIPING, OR EQUIPMENT TO REMAIN
	FLEXIBLE DUCT
	SUPPLY OR OUTSIDE AIR DUCT SECTION
	RETURN OR EXHAUST DUCT SECTION
	EXISTING DUCTWORK, PIPING, OR EQUIPMENT TO BE REMOVED
	DUCTWORK TRANSITION
	MANUAL AIR VOLUME CONTROL DAMPER
	MOTORIZED DAMPER (24 VOLTS)
	NEW COMBINATION SMOKE & FIRE DAMPER
	SUPPLY AIR DEVICE. CLEAR TRIANGLE SIDES INDICATE AIR FLOW PATTERN
	RETURN AIR DEVICE
	EXHAUST AIR DEVICE
	CONNECTION BETWEEN NEW AND EXISTING WORK
-U-	UNDERCUT DOOR 1"
T	WALL MOUNTED THERMOSTAT
CD	CONDENSATE DRAIN
(E)	EXISTING
(N)	NEW
MSAHU	MINI SPLIT AIR HANDLING UNIT
MSCU	MINI SPLIT CONDENSING UNIT

REFRIGERANT PIPE NOTES:

A. RIGID OR FLEXIBLE METAL ENCLOSURES OR PIPE DUCTS SHALL BE PROVIDED FOR SOFT, ANNEALED COPPER TUBING PER SECTION 1107.3 OF THE 2023 FLORIDA MECHANICAL CODE, 8TH EDITION. OR THE REFRIGERANT PIPE MATERIAL SHALL BE SEAMLESS COPPER TUBING, TYPE "K", ASTM B819, HARD DRAWN TEMPER, WITH WROUGHT COPPER FITTINGS CONFORMING TO ASME B16.22 OR BRAZING FITTINGS COMPLYING WITH ASME B16.50. SIZE DESIGNATED REFLECTING NOMINAL INSIDE DIAMETER.

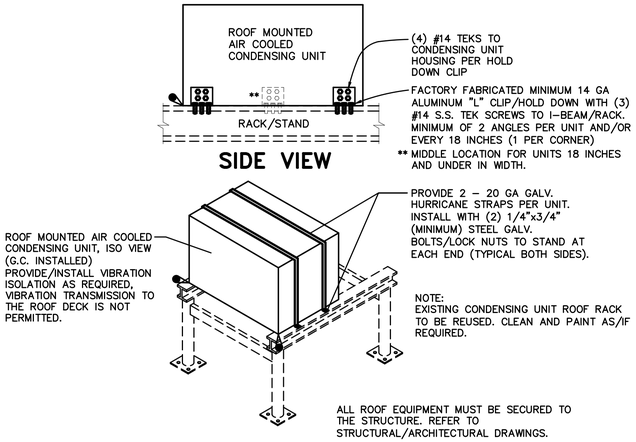
B. BRAZING ALLOY: AWS A5.8M/A5.8, CLASSIFICATION BCUP, GREATER THAN 538 DEGREES C (1,000 DEGREES F) MELTING TEMPERATURE. FLUX IS STRICTLY PROHIBITED FOR COPPER-TO-COPPER CONNECTIONS.

MECHANICAL GENERAL NOTES

- IN GENERAL, PLANS AND DIAGRAMS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED.
- INTENT OF THESE NOTES AND MECHANICAL NOTES ON DRAWINGS IS TO CLARIFY THE SCOPE OF WORK AND ALERT CONTRACTOR OF EXISTING CONDITIONS. CONTRACTOR TO VISIT SITE AND VERIFY ALL CLEARANCES BEFORE FABRICATION OF DUCTWORK AND PROVIDE ADDITIONAL OFFSET AND/OR CHANGES IN DUCT SIZES TO MEET FIELD CONDITIONS AND COORDINATE WITH ELECTRICAL, PLUMBING AND FIRE PROTECTION SUBCONTRACTOR BEFORE ANY CONSTRUCTION WORK.
- CONTRACTOR SHALL NOTIFY THE OWNER, ARCHITECT OR HIS AUTHORIZED REPRESENTATIVE OF ANY DAMAGE TO THE EXISTING INSTALLATION BEFORE PROCEEDING WITH THE WORK.
- PROVIDE ADDITIONAL DUCTWORK AND PIPING SUPPORTS ON BOTH SIDES AND WITHIN 18" OF FIRE RATED WALL. DUCTWORK OR PIPING SHALL NOT BE SUPPORTED FROM ANY FIRE RATED WALL.
- ALL WALL MOUNTED THERMOSTATS AND/OR TEMPERATURE SENSORS SHALL BE INSTALLED AT AN ELEVATION OF 48" ABOVE FINISHED FLOOR TO THE TOP UNLESS OTHERWISE NOTED ON DRAWINGS. LOCATION OF THE WALL MOUNTED THERMOSTAT SHALL BE COORDINATED WITH OTHER TRADES FOR A NEAT APPEARANCE. FINAL LOCATION OF THERMOSTAT SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER OR HIS REPRESENTATIVE IN THE FIELD.
- CONTRACTOR SHALL PROVIDE A COPY OF THE TEST AND BALANCE REPORT AT THE FINAL INSPECTION. TEST AND BALANCE REPORT SHALL BE PERFORMED BY AN INDEPENDENT NEBB OR AABC CERTIFIED AGENCY. THIS REPORT MUST BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO THE FINAL ACCEPTANCE.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL TRADES INSTALLATION SCHEDULES. FIXED WORK SUCH AS DUCTWORK AND PLUMBING SHALL BE INSTALLED PRIOR TO ANY TRADE WORK THAT CAN BE EASILY RELOCATED OR OFFSET SUCH AS ELECTRICAL CONDUITS, SMALL WATER LINES ETC.
- CONTRACTOR SHALL PROVIDE ALL SUPPLEMENTARY STEEL REQUIRED TO SUSPEND MECHANICAL EQUIPMENT AND MATERIALS.
- ALL MECHANICAL WORK SHALL MEET ALL THE REQUIREMENTS OF THE "FLORIDA BUILDING CODE, MECHANICAL-8TH EDITION (2023)".
- PROVIDE A TRAP IN ALL CONDENSATE PIPING LOCATED AT THE AIR HANDLING UNIT. CONDENSATE PIPING TO BE COPPER INDOORS AND SCHEDULE 40 PVC WHEN USED OUTDOORS. EXTERNALLY INSULATE PIPING WITH ARMAFLEX, THICKNESS PER CODE. PROVIDE ALUMINUM JACKET UV PROTECTION WHEN INSTALLED OUTDOORS. PVC IS NOT PERMITTED IN PLENUMS.
- SPACE ABOVE CEILING IS LIMITED. CONTRACTOR SHALL FULLY INVESTIGATE SITE FOR THE NEW WORK PROPOSED PRIOR TO BIDDING OR FABRICATION AND FULLY COORDINATE WITH EXISTING CONDITIONS AND SERVICES PASSING THROUGH PROJECT AREA. NOTIFY OWNER & ENGINEER FOR ALL REQUIRED SHUTDOWNS TO EXISTING SERVICES REQUIRED TO INSTALL NEW EQUIPMENT DUCTWORK OR PIPING. COORDINATE SHUTDOWN SCHEDULE WITH OWNER PRIOR TO ONSET OF WORK. MODIFICATIONS TO EXISTING SYSTEMS REQUIRING SHUTDOWN SHALL BE ON PREMIUM TIME.

DESIGN DRAWINGS ARE SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

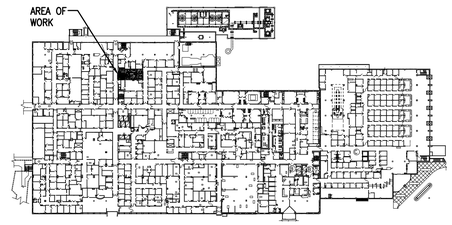
THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT THE CONTRACTOR'S EXPENSE.



ROOF MOUNTED EQUIPMENT HEIGHT REQUIREMENTS	
WIDTH OF EQUIPMENT (INCHES)	HEIGHT OF LEGS (INCHES)
UP TO 24	14
25 TO 36	18
37 TO 48	24
49 TO 60	30
61 AND WIDER	48

CONDENSING UNIT ROOF RACK/STAND DETAIL

NO SCALE



KEY SITE PLAN

NO SCALE

SHANE R. HAMILTON, P.E.
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Date: 2025.09.03 16:44:49-04'00'

SHANE R. HAMILTON LICENSE No 75420 STATE OF FLORIDA PROFESSIONAL ENGINEER

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PHILIPS AZURION BI-PLANE

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☐ PERMIT	
■ CONSTRUCTION	09/03/25

SHEET TITLE
MECHANICAL NOTES & DETAILS

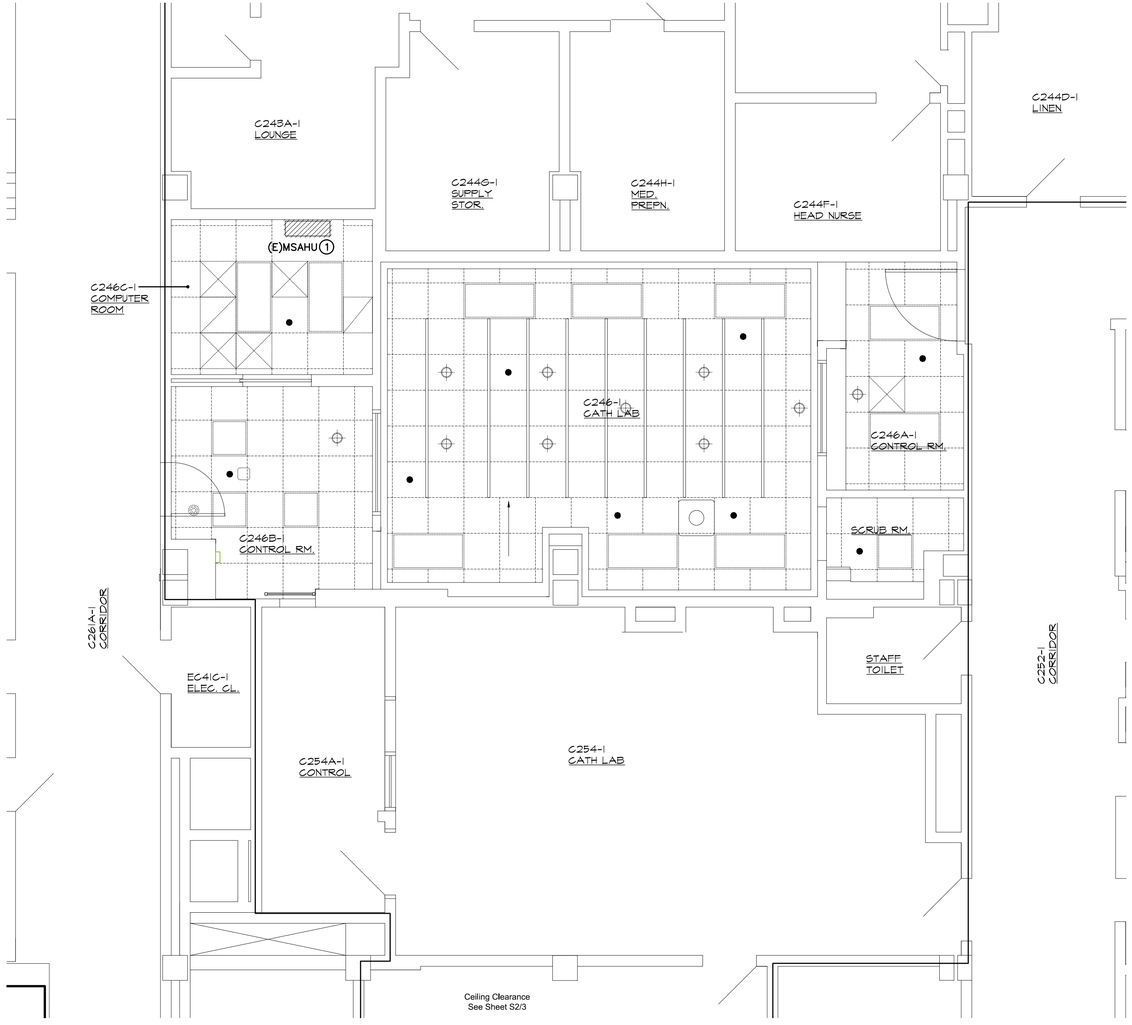
DATE
AUGUST 8, 2025

PROJECT NO.
0625-02

SHEET NO.
M-0

MECHANICAL DEMOLITION NOTES

1. EXISTING MINI SPLIT AIR HANDLING UNIT TO BE REMOVED AND REPLACED WITH NEW. REMOVE ASSOCIATED PIPING. COORDINATE EQUIPMENT DISPOSAL WITH OWNER/FIELD REPRESENTATIVE.



DEMOLITION FLOOR PLAN – MECHANICAL

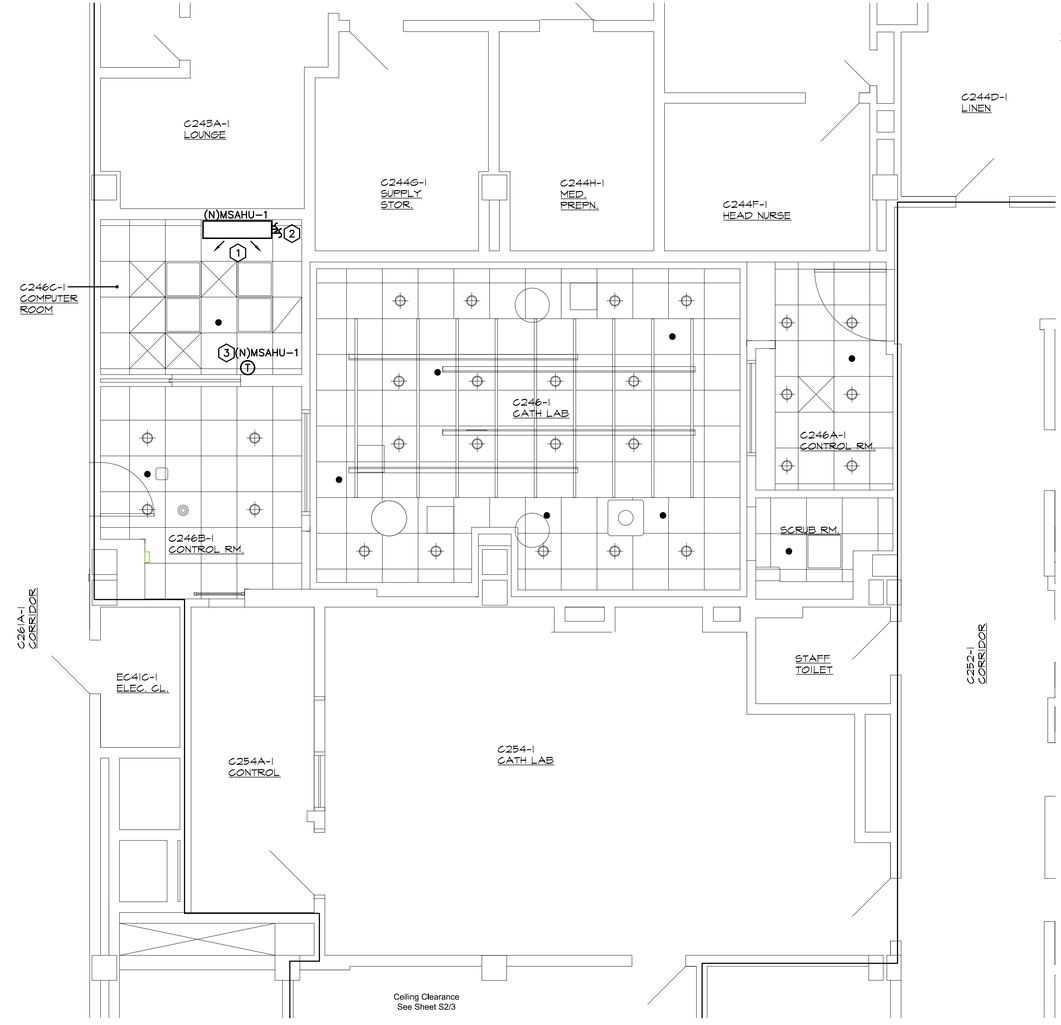
23.0239

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

MECHANICAL CONSTRUCTION NOTES

1. NEW WALL MOUNTED MINI SPLIT TO SERVE COMPUTER ROOM. MAINTAIN MANUFACTURERS RECOMMENDED CLEARANCES FOR SERVICE AND AIR FLOW. ROUTE NEW REFRIGERANT LINES THROUGH EXISTING REFRIGERANT PIPING CURB TO ROOF MOUNTED CONDENSING UNIT. CONTRACTOR SHALL FIELD VERIFY/COORDINATE EXACT LOCATION WITH ARCHITECT/FIELD REPRESENTATIVE PRIOR TO CONSTRUCTION. REFER TO MINI-SPLIT A/C SCHEDULE FOR FURTHER INFORMATION.
2. ROUTE PUMPED CONDENSATE DRAIN LINE TO EXISTING DISCHARGE LOCATION USED BY PREVIOUS MINI SPLIT. FIELD VERIFY EXACT LOCATION PRIOR CONSTRUCTION.
3. WALL MOUNTED THERMOSTAT. COORDINATE FINAL LOCATION WITH FIELD REPRESENTATIVE.

NOTE: CLEAN/REPLACE EXISTING SUPPLY/RETURN DIFFUSERS IN WORK AREA AS/IF REQUIRED. COORDINATE WITH ARCHITECT AND FIELD REPRESENTATIVE.



CONSTRUCTION FLOOR PLAN – MECHANICAL

23.0239

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

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PROFESSIONAL ENGINEER

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■ CONSTRUCTION	09/03/25

SHEET TITLE
MECHANICAL FLOOR PLAN

DATE
AUGUST 8, 2025

PROJECT NO.
0623-02

SHEET NO.
M-1

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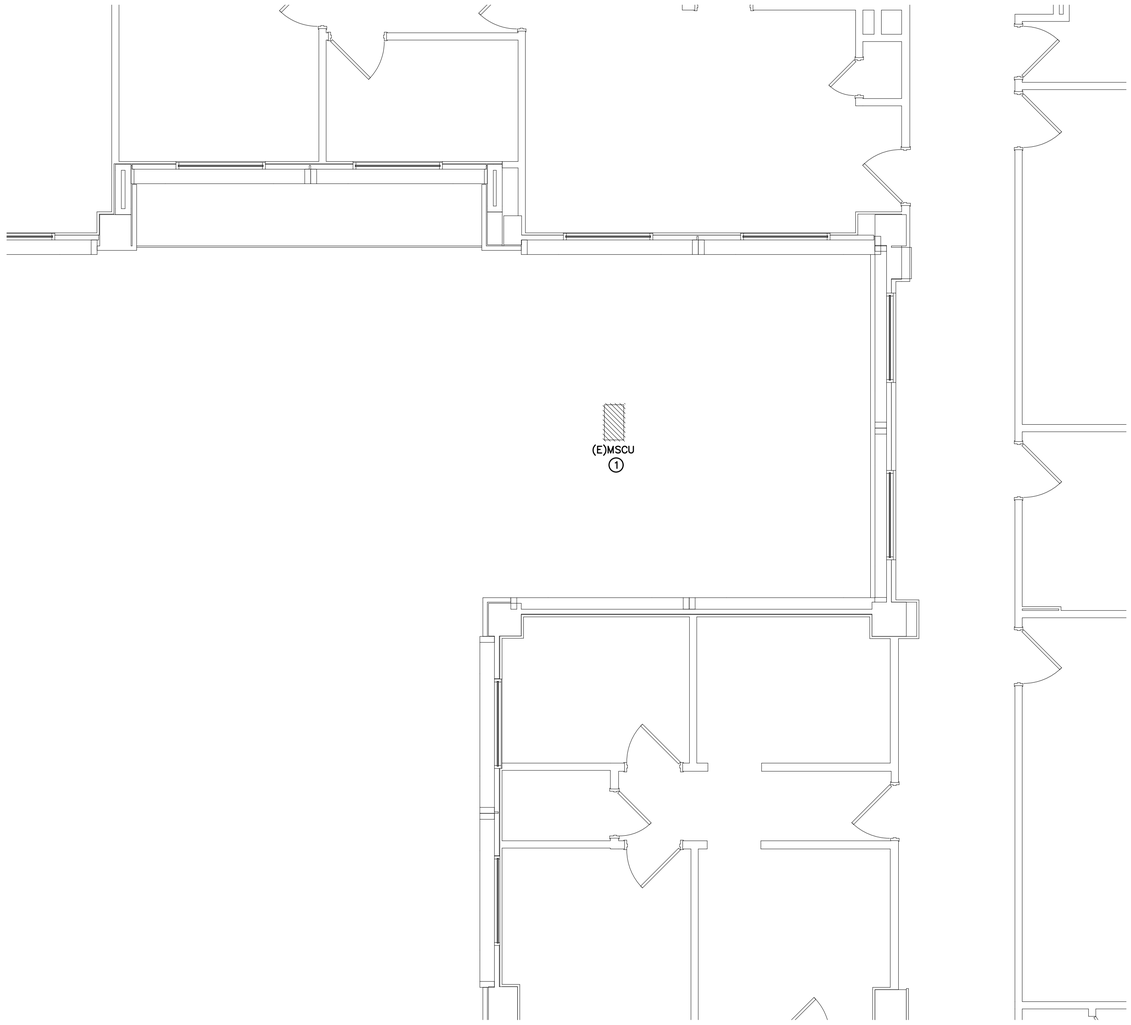
MECHANICAL DEMOLITION NOTES

1. EXISTING MINI SPLIT CONDENSING UNIG TO BE REMOVED AND REPLACED WITH NEW. REMOVE ASSOCIATED PIPING. COORDINATE EQUIPMENT DISPOSAL WITH OWNER/FIELD REPRESENTATIVE.



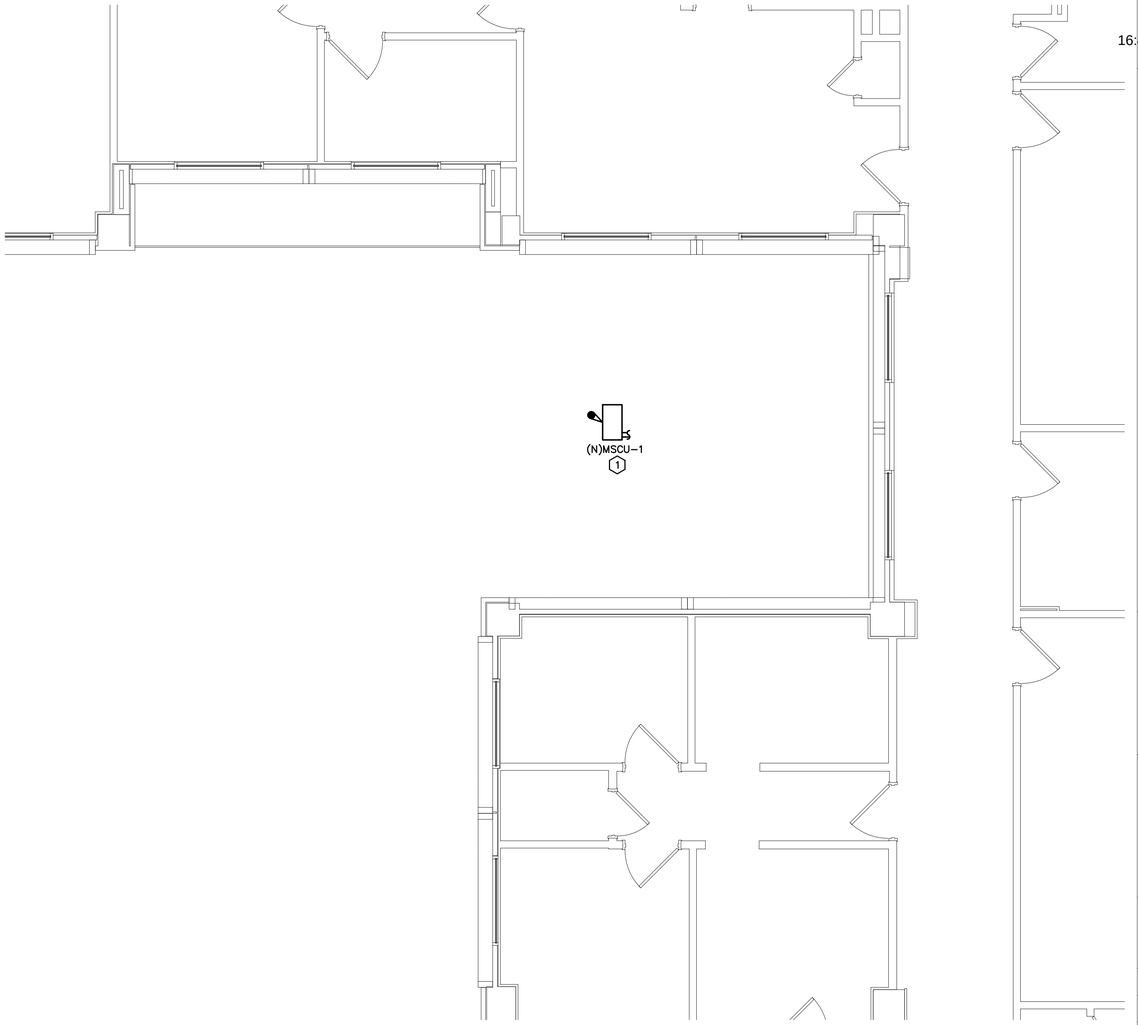
DEMOLITION ROOF PLAN – MECHANICAL

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

23.0239

MECHANICAL CONSTRUCTION NOTES

1. NEW MINI–SPLIT CONDENSING UNIT MOUNTED ON EXISTING EQUIPMENT STAND. CLEAN AND PAINT AS/IF REQUIRED, COORDINATE WITH ARCHITECT AND FIELD REPRESENTATIVE. MAINTAIN ALL MANUFACTURER'S RECOMMENDED CLEARANCES FOR SERVICE AND AIRFLOW. ROUTE NEW REFRIGERANT LINES THROUGH EXISTING ROOF PIPING CURB. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.



CONSTRUCTION ROOF PLAN – MECHANICAL

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

23.0239

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SHEET TITLE
MECHANICAL ROOF PLAN

DATE
AUGUST 8, 2025

PROJECT NO.
0623-02

SHEET NO.
M-2

CONTRACTOR NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL DRAWINGS AND SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL PRIOR TO SUBMITTING A BID.
2. REPORT ANY DISCREPANCIES TO ARCHITECT OR ENGINEER PRIOR TO BID.
3. BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK.
4. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS INCLUDING BUT NOT LIMITED TO, SERVICE LOCATION, SERVICE LAYOUTS, AND TELEPHONE LOCATION., ETC.
5. THE SUBMISSION OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR ANY DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION BEEN MADE, WILL NOT BE ALLOWED.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO SUBMISSION OF BID.
7. COORDINATE WITH OTHER TRADES FOR ITEMS IN THEIR SCOPE OF WORK WHICH WOULD REQUIRE ELECTRICAL WORK (DISCONNECTION, RECONNECTION, ETC.) AND ARE NOT INDICATED ON ELECTRICAL DRAWINGS.

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS.

N3B

GENERAL DEMOLITION NOTES

1. ELECTRICAL PLANS DO NOT INCLUDE A DEMOLITION PLAN FOR THE RENOVATED AREAS. THE RENOVATED AREAS, INCLUDING WALLS, CEILINGS, ETC., TO BE REMOVED, ARE SHOWN ON THE ARCHITECTURAL PLANS. MAJOR MECHANICAL EQUIPMENT TO BE REMOVED IS SHOWN ON THE MECHANICAL PLANS. CONTRACTOR SHALL REVIEW THESE PLANS AND COORDINATE WITH THE GENERAL CONTRACTOR ON SITE TO THE DETERMINE THE EXTENT OF THE DEMOLITION WORK AND PROJECT PHASING REQUIRED AND PROVIDE ACCORDINGLY. ALL ELECTRICAL DEMOLITION WORK SHOWN OR IMPLIED IN THE ELECTRICAL, MECHANICAL, PLUMBING, AND ARCHITECTURAL PLANS SHALL BE PART OF THE ELECTRICAL CONTRACTOR'S WORK.
2. ELECTRICAL DEMOLITION WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, REMOVING, RECEPTACLES, WIRE, CONDUIT, ETC., AS REQUIRED FOR THE INSTALLATION OF NEW EQUIPMENT AND REMODELING OF THE EXISTING FACILITY AS INDICATED ON THE PLANS.
3. CONTRACTOR SHALL REMOVE ANY EXPOSED WIRE, CONDUIT, HANGERS, CLAMPS, ETC., WHICH ARE NOT BEING UTILIZED FOR THE NEW INSTALLATION.
4. EXISTING WIRE AND CONDUITS CONCEALED ABOVE CEILING OR IN WALLS AND NOT BEING REUSED SHALL BE REMOVED. EXISTING CONDUITS, WHERE APPLICABLE, MAY BE REUSED.
5. REVISE ALL EXISTING PANEL DIRECTORIES TO REFLECT ALL REVISIONS.
6. THE CONTRACTOR SHALL PROVIDE RUBBER MATS AND PLYWOOD COVERS TO ALL OWNER'S EQUIPMENT SUSCEPTIBLE TO DAMAGE DURING CONSTRUCTION. VERIFY SPECIFIC LOCATIONS WITH OWNER'S AUTHORIZED REPRESENTATIVE.
7. ALL WORK SHALL BE PERFORMED DURING TIME PERIODS ACCEPTABLE TO THE OWNER. SCHEDULE ALL WORK WITH THE OWNER'S AUTHORIZED REPRESENTATIVE 48 HOURS BEFORE PROCEEDING.
8. CONTRACTOR SHALL VISIT THE JOB SITE AND BE THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH THE WORK MUST BE PERFORMED.
9. ANY LIGHTING FIXTURES AND LAMPS BEING REMOVED SHALL BE DISPOSED OF IN AN ENVIRONMENTALLY SAFE MANNER. COORDINATE DISPOSITION OF ALL FIXTURES WITH OWNER'S PROJECT MANAGER PRIOR TO REMOVAL.
10. ANY PANELS AND/ OR CIRCUIT BREAKERS BEING REMOVED AND NOT REUSED SHALL BE RETURNED TO THE OWNER'S PROJECT MANAGER.

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS.

N15A

EXISTING CONDITION NOTES

GENERAL:

THESE DRAWINGS ARE BASED ON EXISTING DOCUMENTS FOR THE SAID BUILDING AND ON A VISUAL FIELD OBSERVATION. THEREFORE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO, SERVICE LOCATION AND AVAILABLE BRANCH PANELBOARDS, AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO BID. FAILURE TO DO SO MAY CONSTITUTE THAT THE CONTRACTOR PROVIDE ANY AND ALL ADDITIONAL EQUIPMENT, LABOR, ETC. TO MEET THE INTENDED DESIGN PARAMETERS AT HIS/HER SOLE EXPENSE.

SPECIFIC ITEMS TO BE VERIFIED:

CONTRACTOR SHALL VERIFY LOCATION AND TYPE OF EXISTING SERVICE DISTRIBUTION PANELBOARDS SERVING THE PROJECT AREA.

CONTRACTOR SHALL REVISE ALL EXISTING PANEL DIRECTORIES, AS REQUIRED, TO REFLECT ALL REVISIONS. PROVIDE NEW DIRECTORIES FOR PANELS WITH CURRENT DIRECTORIES MISSING.

PROJECT NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND SHALL ALSO COMPLY WITH ALL APPLICABLE VA STANDARDS.
2. ALL CONDUCTORS SHALL BE COPPER. CONDUCTOR INSULATION SHALL BE TYPE THNN-THWN THERMOPLASTIC, 75 DEGREE, 600 VOLT OR EQUAL U.O.N.
3. THE INTERIOR ELECTRICAL SYSTEMS SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED AS REQUIRED BY THE NEC. ALL METALLIC RACEWAYS SHALL BE MECHANICALLY AND ELECTRICALLY SECURE AT ALL JOINTS AND AT ALL BOXES, CABINETS, FITTINGS AND EQUIPMENT. METALLIC RACEWAYS SHALL BE CONNECTED TO A DIRECT GROUND AT THE POINT OF ELECTRICAL SERVICE ENTRANCE.
4. UPON COMPLETION OF WORK, CORRECT ALL PANELBOARD CIRCUIT DIRECTORY CARDS TO REFLECT AS-BUILT CONDITIONS. A SET OF AS-BUILT DRAWINGS SHALL ALSO BE PREPARED AND TURNED OVER TO THE ARCHITECT.
5. ALL RACEWAYS SHALL BE PROVIDED WITH EQUIPMENT GROUND CONDUCTOR.
6. CONTRACTOR SHALL FIELD VERIFY RECEPTACLE CONFIGURATION, VOLTAGE, PHASE AND AMPERAGE FOR ALL REQUIRED OUTLETS. PROVIDE DEDICATED CIRCUITS AS REQUIRED. ADVISE ENGINEER IF NECESSARY.
7. CONTRACTOR SHALL SUPPLY AND INSTALL ALL JUNCTION BOXES, TROUGHS, WIRE, CIRCUIT BREAKERS, ETC., UNLESS OTHERWISE SPECIFIED.
8. CONDUIT RUNS ARE SHOWN SCHEMATICALLY. BUILDING CONDITIONS TO DETERMINE THE ACTUAL RUNS.
9. CONDUIT ELBOWS TO BE LARGE SWEEPS PER NEC 346.10.
10. CONTRACTOR SHALL PROVIDE AND COIL A MINIMUM 5'-0" OF SLACK CONDUCTOR FOR CONNECTION TO EQUIPMENT BY OTHERS. IDENTIFY BOTH ENDS OF WIRE.
11. CONTRACTOR SHALL OBTAIN A COPY OF THE VENDOR'S INSTALLATION DRAWINGS PRIOR TO START OF CONSTRUCTION AND COMPLY ACCORDINGLY.
12. ALL TELEPHONE, DATA, INTERCOM, NURSE CALL, CODE BLUE, PA, AND CCTV JACKS AND CABLING TO BE PROVIDED AND INSTALLED BY OWNER'S VENDORS. BOXES AND CONDUITS TO ABOVE CEILING BY ELECTRICAL CONTRACTOR.
13. CONDUITS AND DUCT, ABOVE CEILING OR BELOW FINISHED FLOOR, MUST BE INSTALLED PER VENDOR'S DRAWINGS TO REDUCE RUN LENGTH.
14. THESE DRAWINGS ARE DIAGRAMMATIC AND INTENDED ONLY TO SHOW THE SCOPE OF WORK TO BE DONE. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY ALL EXISTING CONDUIT RUNS AND THEIR CONDITIONS AS WELL AS THE SUITABILITY OF LOCATING ALL NEW CONDUIT SHOWN ON THE PLANS OR IDENTIFIED IN THE NOTES.

DIVISION 26 ELECTRICAL REQUIREMENTS

1. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE N.E.C., ALL APPLICABLE VA STANDARDS, AND COMPLY WITH THE SPECIFICATIONS.
2. ALL MATERIALS SHALL BE NEW AND OF DOMESTIC ORIGIN AND SHALL BEAR UNDERWRITERS' LABEL WHERE APPLICABLE.
3. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST-CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM IS TO BE FULLY OPERABLE AND ACCEPTANCE OF THIS SYSTEM BY THE ENGINEER/ARCHITECT MUST BE A CONDITION OF THE SUB CONTRACT.
4. ALL WORK TO BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
5. CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE.
6. CORRECTION OF ANY DEFECTS TO BE COMPLETED WITHOUT ADDITIONAL CHARGE AND TO INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
7. ALL REQUIRED INSURANCE TO BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OF PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
8. MINIMUM WIRE SIZE SHALL BE #12 AWG, EXCLUDING CONTROL WIRING. UNLESS OTHERWISE NOTED, ALL CONDUCTORS SHALL BE COPPER WITH THWN/THHN INSULATION. CONDUCTORS #10 AND SMALLER SHALL BE SOLID; ALL THOSE #8 AND LARGER TO BE STRANDED, PER N.E.C. 310.3.
9. ALL RECESSED OUTLET BOXES IN WALLS OR CEILINGS, SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS, AND BE OF SPECIAL CONSTRUCTION FOR OTHER CLASSIFIED AREAS.
10. ALL GENERAL PURPOSE SWITCHES AND RECEPTACLES SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. COLOR OF DEVICES AND PLATES SHALL BE DICTATED BY ARCHITECT/OWNER TO MATCH BUILDING STANDARD. ALL NEW RECEPTACLES SHALL BE HOSPITAL GRADE, ALL NEW SWITCHES SHALL BE INDUSTRIAL GRADE. ALL DEVICES ON GENERATOR POWER SHALL BE RED. ALL RECEPTACLE AND LIGHT SWITCH COVER PLATES SHALL BE ENGRAVED WITH PAINT FILLED LETTERS (BLACK) TO INDICATE PANEL AND CIRCUIT NUMBER POWERING THE DEVICE. COVER PLATES FOR GENERATOR SUPPLIED RECEPTACLES AND SWITCHES SHALL ALSO HAVE "EMERGENCY" ENGRAVED IN BLACK LETTERS.
11. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM, AND PROVIDE ALL NECESSARY DEVICES AND COMPONENTS FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
12. ALL ELECTRICAL RACEWAYS (METALLIC AND NONMETALLIC) SHALL HAVE AN EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH THE N.E.C.
13. LOAD DATA IS BASED ON INFORMATION GIVEN ENGINEER AT THE TIME OF DESIGN. VERIFY ALL EQUIPMENT NAMEPLATE RATINGS BEFORE ORDERING.
14. CIRCUITS SHOWN ON PLANS ARE TO DETERMINE LOAD DATA AND PANEL SIZES. THE CONTRACTOR IS TO PROVIDE CIRCUITS AND ROUTING OF CONDUITS TO SUIT JOB CONDITIONS.
15. ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN AN APPROVED RACEWAY.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL CONDUIT PENETRATIONS. PENETRATION SEALS SHALL BE PER U.L. LISTED ASSEMBLY STANDARDS FOR EACH LOCATION.
17. TANDEM AND HALF-SPACE CIRCUIT BREAKERS SHALL NOT BE USED.

ELECTRICAL PROJECT SYMBOLS LEGEND

MOUNTING HEIGHTS SHOWN ARE MAXIMUM/MINIMUM HANDICAPPED ACCESSIBILITY STANDARDS - THEY SHALL NOT BE ALTERED WITHOUT WRITTEN AUTHORIZATION.

- FLUORESCENT LIGHT FIXTURE, LETTER INDICATES TYPE
- INCANDESCENT OR HID LIGHT FIXTURE, LETTER INDICATES TYPE
- WALL BRACKET LIGHT FIXTURE, LETTER INDICATES TYPE
- EXIT LIGHT (ARROW INDICATES DIRECTION)
- BATTERY POWERED EMERGENCY LIGHT
- SINGLE POLE SWITCH, LOWER CASE LETTER INDICATES LIGHT CONTROLLED, MOUNT 48" A.F.F. U.O.N.
- DOUBLE POLE SWITCH, MOUNT 48" A.F.F. U.O.N.
- THREE-WAY SWITCH, MOUNT 48" A.F.F. U.O.N.
- FOUR-WAY SWITCH, MOUNT 48" A.F.F. U.O.N.
- SINGLE POLE SWITCH WITH PILOT LIGHT, MOUNT 48" A.F.F. U.O.N.
- KEY OPERATED SINGLE POLE SWITCH, MOUNT 48" A.F.F. U.O.N.
- DIMMER SWITCH, WATTS AS NOTED, MOUNT 48" A.F.F. U.O.N.
- DUPLEX RECEPTACLE HOSPITAL-GRADE, MOUNT 18" A.F.F. U.O.N.
- DUPLEX RECEPTACLE HOSPITAL-GRADE, MOUNT ABOVE COUNTER HEIGHT U.O.N.
- QUADRAPLEX RECEPTACLE HOSPITAL-GRADE, MOUNT 18" A.F.F. U.O.N.
- FLOOR MOUNTED DUPLEX RECEPTACLE HOSPITAL-GRADE.
- GROUND FAULT INTERRUPTER RECEPTACLE, HOSPITAL-GRADE, MOUNT ABOVE COUNTER HEIGHT U.O.N.
- DUPLEX RECEPTACLE, ISOLATED GROUND TYPE, HOSPITAL-GRADE, MOUNT AT 18" A.F.F. U.O.N.
- 277/480V, 3-PH PANELBOARD
- LIGHTING OR POWER PANELBOARD
- QUAD TELEPHONE/DATA WALL OUTLET, PROVIDE SINGLE GANG BOX WITH 1" CONDUIT WITH WIRING AND INSULATING BUSHING STUBBED INTO CEILING SPACE. MOUNT BOX 18" A.F.F. U.O.N.
- QUAD TELEPHONE/DATA WALL OUTLET, PROVIDE SINGLE GANG BOX WITH 1" CONDUIT WITH WIRING AND INSULATING BUSHING STUBBED INTO CEILING SPACE. MOUNT BOX ABOVE COUNTER HEIGHT, U.O.N.

NOT ALL DEVICES SHOWN IN LEGEND ARE REQUIRED. REVIEW POWER & LIGHTING PLANS AND DETAILS FOR ITEMS WHICH APPLY TO THIS PROJECT.

- MSB — MAIN SWITCHBOARD
- MDP — MAIN DISTRIBUTION PANEL
- SPECIAL NOTES, SEE PLANS
- CONDUIT CONCEALED IN WALL OR ABOVE CEILING WITH CONDUCTORS AS SHOWN ON PANEL SCHEDULE. U.O.N.
- CONDUIT CONCEALED BELOW FLOOR SLAB OR FINISHED GRADE WITH CONDUCTORS AS SHOWN ON PANEL SCHEDULE U.O.N.
- CONDUIT EXPOSED ON WALL OR CEILING WITH CONDUCTORS AS SHOWN ON PANEL SCHEDULE. U.O.N.
- FLEXIBLE CONDUIT NOT TO EXCEED 6 FEET IN LENGTH
- T.V. CAMERA
- T.V. MONITOR
- TELEVISION OUTLET, PROVIDE SINGLE GANG BOX WITH 3/4" CONDUIT WITH PULL WIRE AND INSULATING BUSHING STUBBED INTO CEILING SPACE. MOUNT BOX 18" A.F.F. U.O.N.
- DISCONNECT SWITCH
- 100/3/60 — DISCONNECT DESIGNATION (SIZE/POLES/FUSE) "NF" INDICATES NON-FUSED, "DE" INDICATES DUAL ELEMENT FUSES.
- COMBINATION MAGNETIC MOTOR STARTER/DISCONNECT SWITCH
- DRY TYPE TRANSFORMER
- CONTACTOR (AS NOTED)
- T/C — TIME CLOCK
- P/C — PHOTO-CELL
- MOTOR PERMANENTLY CONNECTED WITH FLEXIBLE CONDUIT
- JUNCTION BOX (PLUSH MOUNT IN FINISHED AREAS U.O.N.)
- DEVICE AS NOTED
- TELEPHONE BACKBOARD WITH #6 CU. GROUND (SIZE AS NOTED)
- FIRE ALARM AUDIO/ VISUAL NOTIFICATION APPLIANCE (ADA)
- FIRE ALARM VISUAL ONLY NOTIFICATION APPLIANCE (ADA)

ABBREVIATIONS

EG	EQUIPMENT GROUND	EWC	ELECTRIC WATER COOLER	NL	NIGHT LIGHT	AFG	ABOVE FINISH GRADE
IG	ISOLATED GROUND	E/F-EF	EXHAUST FAN	C/T	CURRENT TRANSFORMER	U.O.N.	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF	A/H-AHU	AIR HANDLING UNIT	EX	EXISTING DEVICE	N.T.S.	NOT TO SCALE
EWH	ELECTRIC WATER HEATER	ACC-CU	CONDENSING UNIT	AFF	ABOVE FINISH FLOOR	NIC	NOT IN CONTRACT

NOTE: MOUNTING HEIGHTS NOTED ARE TO CENTERLINE OF DEVICE SHOWN. U.O.N.

SPECIFIC NATIONAL CODES

NFPA 101 - 2024
LIFE SAFETY CODE.

NFPA 70 - 2023
NATIONAL ELECTRICAL CODE.

NFPA 99 - 2024
STANDARD FOR HEALTH CARE FACILITIES.

NFPA 72 - 2025
FIRE ALARM CODE.

NFPA 241 - 2022
STANDARD FOR SAFEGUARDING CONSTRUCTION ALTERATION AND DEMOLITION OPERATIONS.

VA CONSTRUCTION STANDARDS

ELECTRICAL SHEET INDEX

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Souheil S Chehayeb
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IR EQUIPMENT REPLACEMENT
ROOM C246-1
PHILIPS AZURION BI-PLANE

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REVISIONS

ISSUED FOR:	DATE:
☐	
☐	
☐ REVIEW	08/08/25
☐ BIDDING	
☐ PERMIT	
■ CONSTRUCTION	09/03/25

SHEET TITLE
ELECTRICAL LEGEND AND NOTES

DATE
AUGUST 8, 2025

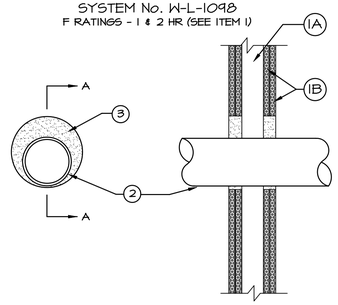
PROJECT NO.
0623-02

SHEET NO.
E-1

THROUGH-PENETRATION DETAIL

FIRE STOP SYSTEM

SYSTEM No. W-L-1098
F RATINGS - 1 & 2 HR (SEE ITEM 1)



SECTION A-A

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

   A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNELS STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. O.C. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE AND SPACED MAX 24 IN. O.C.

   B. WALLBOARD, GYPSUM* - THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IS 14-1/8 IN. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

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

   A. STEEL PIPE

   B. IRON PIPE

   C. CONDUIT - NOMINAL 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT) OR STEEL CONDUIT. WHEN EMT OR STEEL CONDUIT IS USED T RATING IS 1/4 HR.

   D. COPPER TUBING

   E. COPPER PIPE

3. FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN 5/8 IN. AND 1-1/4 IN. THICKNESS OF FILL MATERIAL FOR 1 AND 2 HR RATED WALL ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL.

   FIRESTOP SYSTEMS, INC. - 4800DW (RED)

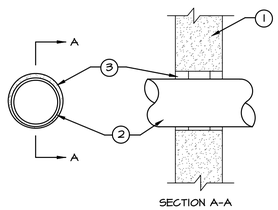
   * BEARING THE U.L. CLASSIFICATION MARKING.

P6A

THROUGH-PENETRATION DETAIL

FIRESTOP SYSTEM

SYSTEM No. W-J-1048
F RATINGS - 2 HR



SECTION A-A

1. WALL ASSEMBLY - MIN 6-1/8 IN. THICK NORMAL WEIGHT OR LIGHTWEIGHT (100-150PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY U.L. CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 14-1/8 IN. SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAME OF MANUFACTURERS.

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

   A. STEEL PIPE

   B. IRON PIPE

   C. CONDUIT - NOMINAL 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT) OR STEEL CONDUIT. WHEN EMT OR STEEL CONDUIT IS USED T RATING IS 1/4 HR.

   D. COPPER TUBING

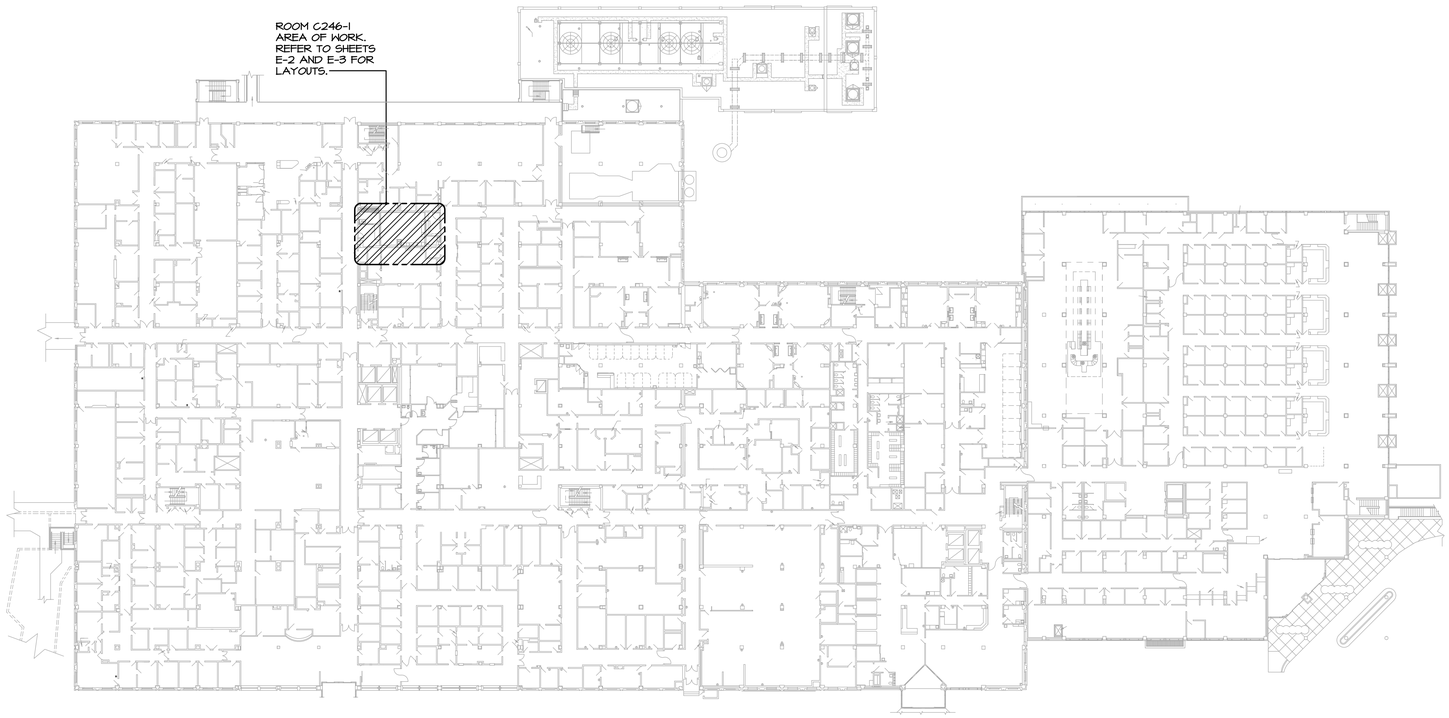
   E. COPPER PIPE

3. FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN 1-1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL.

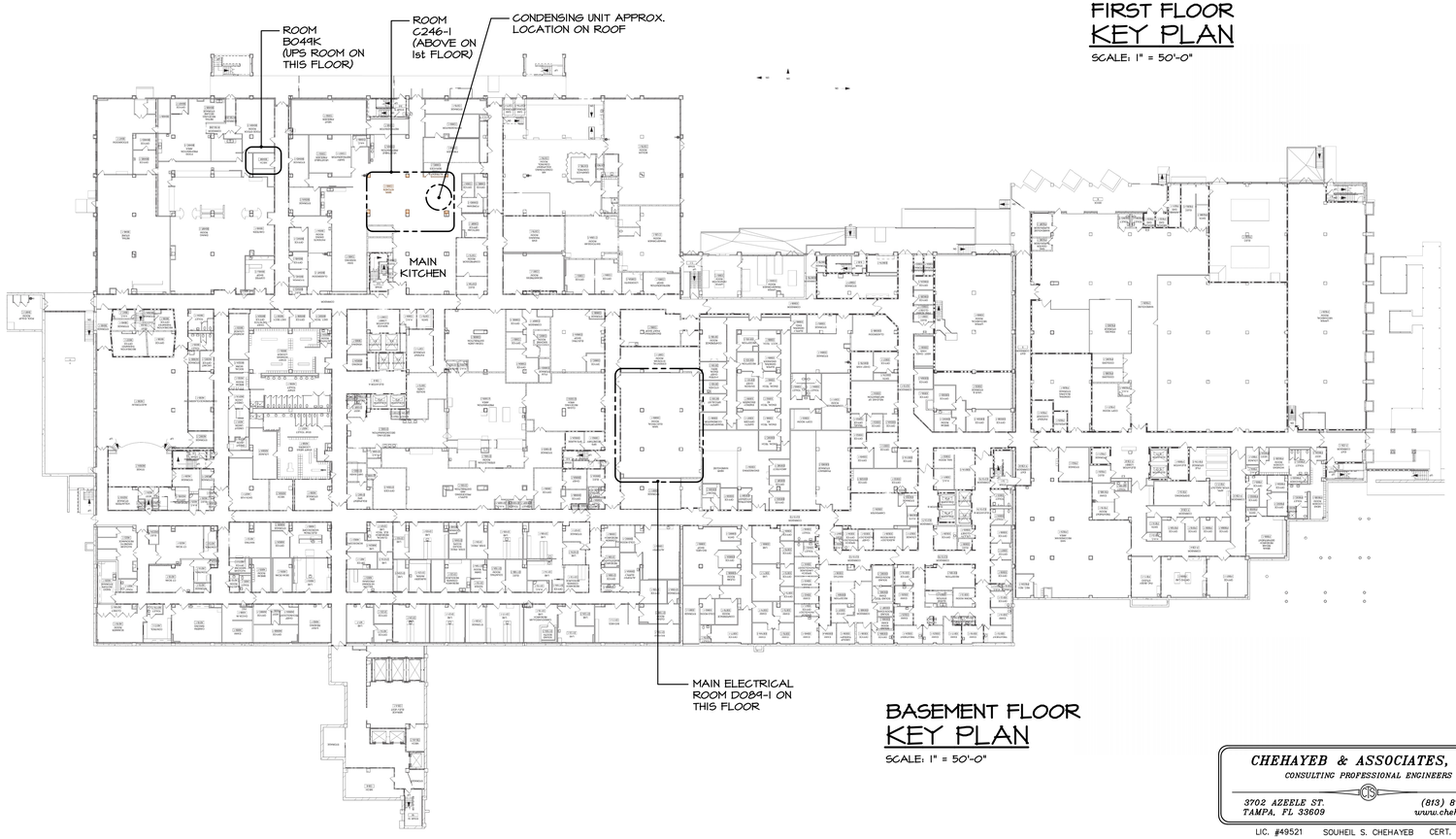
   FIRESTOP SYSTEMS, INC. - FLOWGUARD GOLD FIRESTOP SEALANT (RED)

   * BEARING THE U.L. CLASSIFICATION MARKING.

P6C



FIRST FLOOR
KEY PLAN
SCALE: 1" = 50'-0"



BASEMENT FLOOR
KEY PLAN
SCALE: 1" = 50'-0"

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SOUHEIL S. CHEHAYEB
LICENSE
No. 49521
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Souheil S Chehayeb
Digitally signed by Souheil S Chehayeb
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IR EQUIPMENT REPLACEMENT
ROOM C246-1
PHILIPS AZURION BI-PLANE

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REVISIONS

ISSUED FOR:	DATE:
REVIEW	08/08/25
BIDDING	
PERMIT	
CONSTRUCTION	09/03/25

SHEET TITLE
ELECTRICAL KEY PLANS

DATE
AUGUST 8, 2025

PROJECT NO.
0623-02

SHEET NO.
E-1.1

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25-67

FIXTURE SCHEDULE

LIGHTING

TYPE	MANUFACTURER	CATALOG NO.	DESCRIPTION	VOLT	LAMPS	MOUNTING	LOAD (VA)
A	LITHONIA	CPX-2x2-3200LM-80CRI-40K-SNL-MINI-ZT-MVOLT	2x2 LED FLAT PANEL	120/277	3200 LUMEN LED	LAY-IN	30
B	LITHONIA	LDN6-40/25-L06-AR-LD-TRW-MVOLT-GZI	6" LED DOWNLIGHT	120/277	2500 LUMEN LED	RECESSED	28
BE	LITHONIA	LDN6-40/25-L06-AR-LD-TRW-MVOLT-GZI-ELSD	6" LED DOWN LIGHT WITH BATTERY	120/277	2500 LUMEN LED	RECESSED	28

CBA = COLOR AS SELECTED BY ARCHITECT.

NOTES:

1. PROVIDE NECESSARY MOUNTING HARDWARE AND ACCESSORIES FOR ALL FIXTURES. ACCESSORIES SHALL INCLUDE ALL HARDWARE TO MOUNT FIXTURES AS SHOWN ON SCHEDULES AND/OR DESCRIBED IN THE NOTES.
2. ALL FIXTURE SUBSTITUTIONS MUST BE SUBMITTED FOR APPROVAL (EQUALS ONLY).
3. ALL EMERGENCY, EXIT, AND NIGHT LIGHT FIXTURES SHALL BE CONNECTED AHEAD OF LOCAL SWITCHES, RELAYS, OR CONTACTORS UNLESS OTHERWISE NOTED.
4. ALL PRE SUBMITTALS SHALL BE ACCOMPANIED WITH PHOTOMETRIC DATA.
5. ALL FIXTURES SHALL BE SUPPORTED FROM STRUCTURE AND NOT FROM SUSPENDED CEILING SYSTEM.
6. ACCEPTED MANUFACTURERS ARE: DAY-BRITE, COOPER, ACUITY BRANDS, AND HUBBELL LIGHTING.
7. CATALOG NUMBER ON FIXTURE SCHEDULE MAY NOT REFERENCE EVERY HARDWARE COMPONENT REQUIRED TO MOUNT FIXTURE AS INTENDED, VERIFY WITH MANUFACTURER FOR PROPER MOUNTING HARDWARE AND ANY ADDITIONAL COMPONENTS REQUIRED TO MOUNT FIXTURE AS INTENDED OR SHOWN.
8. LEDS SHALL BE 4000K COLOR TEMPERATURE AS SHOWN ON SCHEDULE WITH MINIMUM CRI OF 80.
9. SHOP DRAWINGS SHALL INCLUDE:
   A. COMPLETE FIXTURE CUT SHEETS INCLUDING PHOTOMETRICS.
   B. WHERE COLOR SELECTION IS REQUIRED, COLOR CHART SHALL BE PROVIDED WITH THE SHOP DRAWINGS FOR SELECTION BY ARCHITECT/OWNER.

NOTES:

1. SHOP DRAWINGS SHALL BE PREPARED BY MANUFACTURER'S REPRESENTATIVE, AND NOT BY CONTRACTOR.
2. CONTRACTOR SHALL PROVIDE ALL OF THE REQUIRED DATA LISTED ABOVE WITH THE SHOP DRAWINGS.

S4A

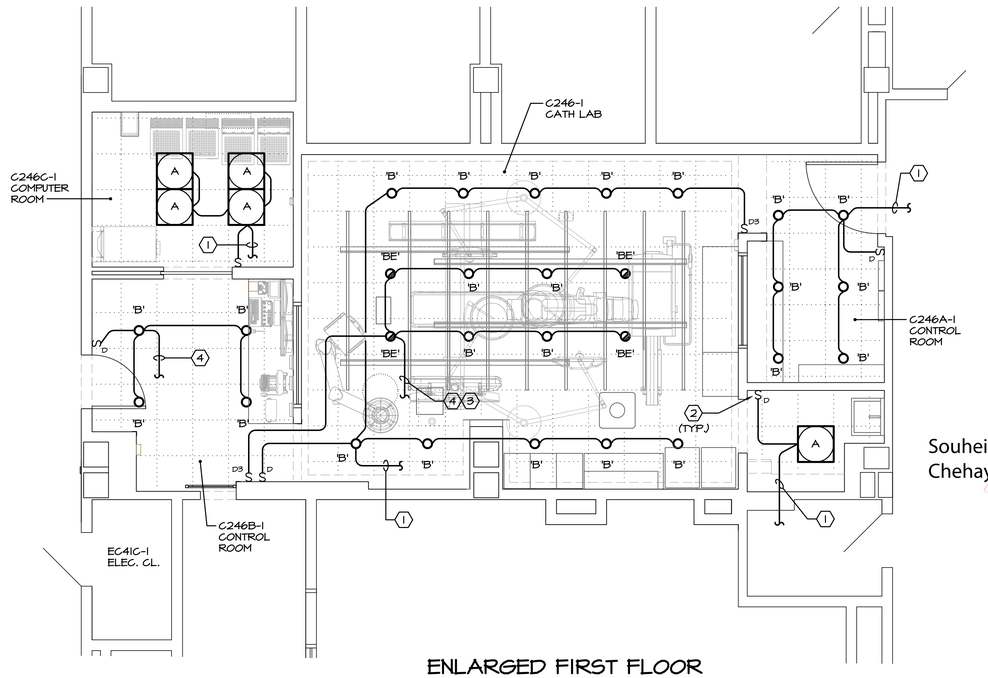
OCCUPANCY/VACANCY SENSOR DEVICE LEGEND

ITEM	MANUFACTURER	CATALOG NO.	DESCRIPTION
LINE VOLTAGE - WALL VACANCY SENSOR WITH ON AND OFF CONTROL			
S^{M}	SENSOR SWITCH	WSXA-PDT-SA-(CBA) (DUAL TECHNOLOGY)	LINE VOLTAGE (120-277) WALL MOUNTED VACANCY SENSOR WITH 180 DEGREES DETECTION, ADJUSTABLE "LIGHTS OFF" TIMER AND OVERRIDE SWITCH. SET AS MANUAL ON - AUTO OFF.
LINE VOLTAGE - CEILING MOUNTED OCCUPANCY SENSOR			
Ⓜ	SENSOR SWITCH	CMR-PDT-9 (DUAL TECHNOLOGY) (BELOW 15 FT. MOUNTING HEIGHT)	LINE VOLTAGE (120-277) CEILING MOUNTED OCCUPANCY SENSOR WITH 360 DEGREES OF DETECTION AND ADJUSTABLE "LIGHTS OFF" TIMER.
LINE VOLTAGE - DIMMER / VACANCY SENSOR CONTROL			
S^{DM}	SENSOR SWITCH	WSXA-PDT-D-SA-(CBA) (DUAL-TECHNOLOGY)	WALL MOUNTED LINE VOLTAGE DIMMER/ VACANCY SENSOR WITH 180 DEGREES DETECTION, ADJUSTABLE "LIGHTS OFF TIMER" AND OVERRIDE SWITCH, SET AS MANUAL ON AND AUTO OFF.
0-10 VOLT WALL CONTROL - DIMMER SHALL BE COMPATIBLE WITH LIGHT FIXTURES PROPOSED			
S^{D} S^{D3}	SENSOR SWITCH	SPODMRA-MNO-D (CBA)	WALL MOUNTED 0-10V DIMMER. PROVIDE 0-10V WIRING TO ASSOCIATED FIXTURES AS REQUIRED. SEE NOTE 6 BELOW.

NOTES:

1. PROVIDE ALL MOUNTING ACCESSORIES AS REQUIRED. SET TIME DELAY TO OFF AT 20 MINUTES, UNLESS NOTED OTHERWISE.
2. CBA - COLOR TO MATCH SELECTED DEVICES IN BUILDING.
3. NOT ALL DEVICES MAY BE USED. REFER TO PLANS FOR APPLICABLE ITEMS.
4. ALL WIRING FOR OCCUPANCY/VACANCY SENSORS SHALL BE PER MANUFACTURER INSTALLATION SHEET PROVIDED WITH PRODUCT.
5. PROVIDE DIMMING CONTROL WIRING AS REQUIRED. DIMMING CONTROL WIRING ARE NOT SHOWN ON THE PLANS FOR DRAWING CLARITY. CONTRACTOR SHALL VERIFY TYPE OF DIMMING CONTROL WIRING BEING CLASS 1 OR CLASS 2 AND PROVIDE ACCORDINGLY.
6. DIMMER SHALL MAINTAIN ITS CURRENT STATE DURING POWER OFF, POWER LOSS, AND RE-ESTABLISHMENT OF POWER, e.g. THE DIMMER SHALL NOT RESET TO ON IF POWER IS LOST AND THEN RE-ESTABLISHED.

L23A-1



ENLARGED FIRST FLOOR LIGHTING PLAN

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

PLAN KEY NOTES

LTG

1. RECONNECT TO EXISTING LIGHTING CIRCUIT SERVING THIS AREA.
2. 0-10V DIMMER SWITCH (SEE DEVICE LEGEND ON THIS SHEET). VERIFY DIMMER IS COMPATIBLE WITH LED LIGHT FIXTURE INSTALLED.
3. CIRCUIT ALSO CONTROLLED BY PHILIPS FOOT-PEDAL, REFER TO PHILIPS DRAWINGS AND PROVIDE CONTROL RELAY AND WIRING AS REQUIRED.
4. RECONNECT TO EXISTING EMERGENCY LIGHTING CIRCUIT SERVING THIS AREA.

N4A

SITE SPECIFIC NOTE

INFORMATION SHOWN ON THIS DRAWING IS BASED ON INFORMATION PROVIDED TO ENGINEER AT TIME OF DESIGN. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES BACK TO ARCHITECT/ENGINEER PRIOR TO BID.

N18A

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IR EQUIPMENT REPLACEMENT
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PHILIPS AZURION BI-PLANE

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REVISIONS

ISSUED FOR:	DATE:
☐	
☐	
☐ REVIEW	08/08/25
☐ BIDDING	
☐ PERMIT	
■ CONSTRUCTION	09/03/25

SHEET TITLE: ELECTRICAL LIGHTING PLAN AND SCHEDULE

DATE: AUGUST 8, 2025

PROJECT NO.: 0623-02

SHEET NO.: E-2

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25-67

COORDINATION NOTES:

1. THIS SHEET SHALL BE USED IN CONJUNCTION WITH PHILIPS. REFERENCE DRAWINGS FOR CONNECTION REQUIREMENTS, CONDUITS, BOX SIZES, ETC.
2. INFORMATION SHOWN IN THIS DOCUMENT IS AN EXTRACT OF THE INFORMATION SHOWN ON THOSE DRAWINGS.
3. CONTRACTOR SHALL REFER TO ARCHITECTURAL INTERIOR DETAILS FOR ALL WALL MOUNTED DEVICES AND EQUIPMENT.

SPECIAL NOTES:

1. REFER TO ARCHITECTURAL PLANS FOR INFORMATION REGARDING CONSTRUCTION BARRIER AND CONTAINMENT REQUIREMENTS. ALL WORK SHALL BE PERFORMED TO MEET THESE REQUIREMENTS.
2. PROVIDE 120 VOLT, 20 AMP CIRCUIT FOR THE NEGATIVE AIR SYSTEM FAN. THIS IS FOR TEMPORARY CONSTRUCTION USE ONLY. MAKE ALL CONNECTIONS REQUIRED. COMPLETELY REMOVE AT END OF PROJECT.

SITE SPECIFIC NOTE

INFORMATION SHOWN ON THIS DRAWING IS BASED ON INFORMATION PROVIDED TO ENGINEER AT TIME OF DESIGN. ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES BACK TO ARCHITECT/ ENGINEER PRIOR TO BID.

N.T.S.

CRITICAL NOTE

THESE ELECTRICAL DRAWINGS WERE CREATED FOR USE WITH THE PHILIPS AZURION 7-B20 SYSTEM INSTALLATION DRAWINGS. REFER TO THE PLANS NOTED BELOW FOR ADDITIONAL ELECTRICAL DETAILS AND NOTES AND PROVIDE ACCORDINGLY. CONTRACTOR MUST COORDINATE THESE ELECTRICAL DRAWINGS WITH PHILIPS SYSTEM DRAWINGS TO PROVIDE A COMPLETE INSTALLATION. NOTIFY ARCHITECT/ ENGINEER IF SYSTEM DRAWINGS ARE NOT AS INDICATED IN THIS NOTE.

PHILIPS DRAWING LIST:

R-EI.1:	ELECTRICAL PLAN
R-EC1:	POINT-TO-POINT RUN LENGTHS
R-EC2:	POINT-TO-POINT RUN LENGTHS
R-EC3:	POINT-TO-POINT RUN LENGTHS
R-ED.5:	ELECTRICAL SCHEMATIC

ELECTRICAL CONTRACTOR SHALL COORDINATE CLOSELY WITH PHILIPS REPRESENTATIVE FOR CLARIFICATION OF CABLES AND EQUIPMENT TO BE:

- SUPPLIED/INSTALLED BY PHILIPS
- SUPPLIED/INSTALLED BY CONTRACTOR
- SUPPLIED BY PHILIPS, INSTALLED BY CONTRACTOR
- AVAILABLE THROUGH PHILIPS, SUPPLIED/ INSTALLED BY CONTRACTOR

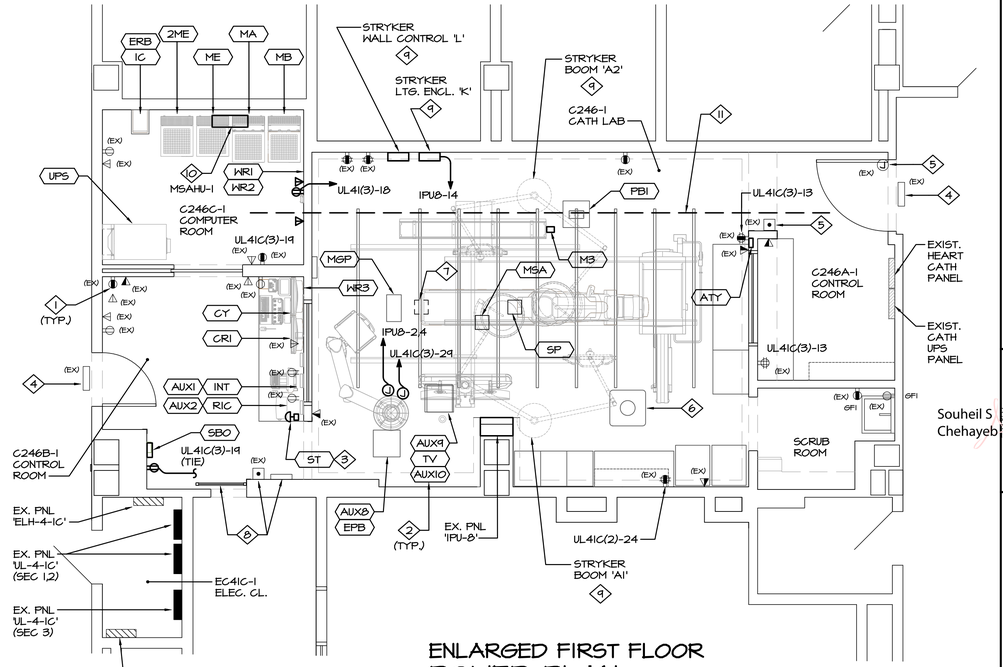
GENERAL NOTES

1. THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING WIRING AND EQUIPMENT MADE UNNECESSARY BY THE RENOVATION. ALL MATERIALS REMOVED SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH INTERIOR ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND/OR LOCATIONS OF ALL OUTLETS AND WIRING DEVICES.

CONDUIT AND WIRE SYSTEMS WITHIN THIS PROJECT SHALL COMPLY WITH REQUIREMENTS FOR REDUNDANT GROUNDING PER N.E.C. 517.13(A)(B).

SYSTEM GROUNDING NOTES

1. DEDICATED EARTH CONDUCTOR (GROUND) SHALL BE SAME SIZE AS POWER WIRES AT ALL TIMES FOR ALL ROUTINGS FROM GROUNDED NEUTRAL SOURCE TO PHILIPS EQUIPMENT (REFER TO DETAILS ON DRAWINGS).
2. GROUND THE NEWLY DERIVED NEUTRAL IN ACCORDANCE WITH N.E.C. ART. 250.30. HOWEVER, DO NOT USE ELECTRICAL CONDUITS OR ELECTRICAL RACEWAYS AS GROUNDING ELECTRODES.
3. VERIFY WITH EQUIPMENT SUPPLIER/INSTALLER FOR ALL REQUIRED GROUNDING LOCATIONS AND PROVIDE ACCORDINGLY.
4. ALL METAL DEVICES, INCLUDING METAL SURFACES OF FIXED MEDICAL EQUIPMENT, WITHIN THE PROCEDURE ROOM SHALL BE BONDED WITH MINIMUM #10 AWG CU. ITEMS SHALL INCLUDE, BUT NOT LIMITED TO:
   a. MEDICAL GAS PIPES AND WATER PIPES
   b. ALL INTERCOM, TELEPHONE AND NURSE CALL OUTLET BOXES
   c. ALL EXPOSED CONDUCTIVE SURFACES
   d. GROUNDING TERMINAL OF ROOM RECEPTACLES
5. ELECTRICAL CONTRACTOR SHALL PERFORM EQUIPOTENTIAL GROUND TESTING IN THE PATIENT CARE AREAS WITH AN APPROVED METER AS STIPULATED IN NFPA 99 SECTION 6.3.3. TESTING REPORTS SHALL BE PROVIDED TO THE VA AND ARCHITECT, AND ONE COPY SHALL REMAIN AT THE JOB SITE FOR REFERENCE BY THE INSPECTING AUTHORITIES.



ENLARGED FIRST FLOOR POWER PLAN

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

NOTES: (UNLESS OTHERWISE SPECIFIED)
1. ALL CONDUIT RUNS INCLUDE INSULATED BUSHINGS AND PULL STRINGS.
2. CONDUIT RUNS CANNOT EXCEED 45' FROM END-TO-END. DO NOT EXCEED FOUR (4) 90 DEGREE BENDS.
3. CABLES BETWEEN ITEMS OVER 45 FEET IN LENGTH ARE PROVIDED BY THE CUSTOMER / CONTRACTOR. PLEASE REFER TO EQUIPMENT LIST FOR CABLE SPECIFICATIONS.
4. THE PRE-INSTALL MANUAL REQUIREMENTS SUPERSEDE ALL PRE-INSTALL NOTES IN THIS DRAWING PACKAGE.
5. EQUIPMENT LIST:

PRE-INSTALL NOTES SCHEDULE

KEY ITEM	NAME
A1 A2	**SLX 628 NFC LIGHT / UDM** **SLX 628 NFC LIGHT / UDM** STRUCTURAL: - STRYKER PRE-INSTALL PLATE SHALL BE INSTALLED BY CUSTOMER/CONTRACTOR AT 3-INCH, ± .25-INCH ABOVE FINISHED CEILING PER CUSTOMER PROVIDED STRUCTURAL ENGINEER SPECS. CONTRACTOR IS RESPONSIBLE FOR PROTECTING THREADED HOLES DURING THE PLATE WELDING/INSTALLATION PROCESS. TO PREVENT SLAG FROM OBSTRUCTING THREADED HOLES. - COMMON MOUNTING PLATE. A 21.25-INCH CIRCULAR HOLE CENTERED ON STRYKER PRE-INSTALL PLATE IN THE FINISHED CEILING IS REQUIRED FOR INSTALLATION. A 23.25-INCH CIRCULAR CEILING COVER CONCEALS HOLE AFTER SUSPENSION IS INSTALLED POWER: - A UDM JUNCTION BOX (SUPPLIED BY STRYKER AND MEASURES 10-INCH HEIGHT X 8-INCH WIDTH X 4-INCH DEPTH) MUST BE MOUNTED WITHIN 18-INCHES OF SUSPENSION MOUNT AND ACCESSIBLE FROM THE ACCESS PANEL. THIS IS MOUNTED BY AN ELECTRICIAN AND IS REQURIED FOR MONITOR CABLING. - PLEASE CONSULT PM FOR UDM POWER REQUIREMENTS: - NEW CONSTRUCTION TYPICALLY UTILIZES AC POWER REQUIREMENTS. UPGRADES TO EXISTING SUSPENSIONS MUST UTILIZE DC POWER REQUIREMENTS. - IF UDM MONITOR IS POWERED VIA AC POWER, CONTRACTOR TO PROVIDE AN AC CIRCUIT TO THE AC TERMINAL BLOCK ON THE FLANGE TUBE. - IF UDM MONITOR IS POWERED VIA DC POWER, A DC POWER CABLE WILL BE PULLED BY STRYKER THROUGH A SEPARATE CONDUIT. (REFER TO CONDUIT SCHEDULE) CONDUIT: - REFER TO ROOM LAYOUT FOR CONDUIT QUANTITY AND SIZE. TERMINATE ALL CONDUIT WITHIN 18"" OF THE CENTER OF THE CEILING MOUNT. ACCESS PANEL: - ONE (1) 24"" X 24"" ACCESS PANEL ADJACENT TO SUSPENSION (REV A)

PRE-INSTALL NOTES SCHEDULE

KEY ITEM	NAME
K	**SK ENCLOSURE FOR LIGHTING** ENCLOSURE DIMENSIONS/MOUNTING: - SINGLE ENCLOSURE 19.69"" X 15.75"" x 7.87"" (1-2 LIGHTHEADS), WEIGHT = 64LBS - DOUBLE ENLCOSURE 19.69"" x 31.5"" X 7.87"" (3-4 LIGHTHEADS), WEIGHT = 128 LBS CONDUIT: - MAXIMUM LENGTH OF 45 FEET (15M) OF CONDUIT RUN TO BOTH THE MOUNTING PLATE AND THE TO WALL CONTROL BOX - TWO (2) 1"" FROM SK ENCLOSURE TO EACH LIGHT MOUNTING LOCATION. - ONE (1) 1"" BETWEEN LIGHT MOUNTING LOCATIONS. - ONE (1) 1"" FOR MAINS 120VAC TO SK ENCLOSURE (UP TO TWO(2)) LIGHTS PER CIRCUIT). POWER: - MAINS AC POWER SHOULD BE 120 VAC, 50/60 HZ CONNECTED WITH 3 WIRE, 12 AWG MIN., 600 V TERMINATED TO FUSED TERMINAL BLOCK INSIDE THE SK ENCLOSURE - DC WIRING FROM SK ENCLOSURE TO MOUNTING PLATE SHOULD BE 12 AWG, 600 VOLT, 1 WIRE PAIR PER LIGHT HEAD AND 1 GROUND WIRE PER MOUNTING PLATE. WIRES TERMINATE AT NON-FUSED TERMINAL BLOCK INSIDE THE SK ENCLOSURE AND FALL A MINIMUM OF 18 INCHES BELOW THE CEILING AT THE MOUNTING PLATE - CONTRACTOR IS RESPONSIBLE FOR RUNNING POWER FROM AN AC MAINS SUPPLY TO THE SK BOX - CONTRACTOR IS RESPONSIBLE FOR RUNNING DC WIRING FROM THE SK ENCLOSURE TO THE SURGICAL LIGHT MOUNTING PLATE - CONTRACTOR IS RESPONSIBLE FOR MAKING BOTH AC AND DC CONNECTIONS IN THE SK ENCLOSURE (REV A)
L	**SLX WALL CONTROL PANEL (SURFACE MOUNT)** CONDUIT: - ONE (1) 1"" CONDUIT WITH FINISH GROMMETS TO SK ENCLOSURE OR ON TUBE ELECTRONICS. ENSURE ONE END OF CONDUIT TERMINATES TO THE BACK OF THE BACKBOX - ONE (1) 1"" CONDUIT WITH FINISH GROMMETS TO VIDEO INTEGRATION/HUB LOCATION. REFER TO ROOM LAYOUT FOR LOCATION. ENSURE ONE END OF CONDUIT TERMINATES TO THE BACK OF THE BACKBOX BACK BOX: - CONTRACTOR MUST SUPPLY ONE (1) STANDARD 4X4 JUNCTION BOX MOUNTED DIRECTLY BEHIND THE STRYKER-PROVIDED WALL CONTROL BOX, LOCATED 53"" (1.35M) ABOVE FLOOR. POWER: NONE (REV A)

CONDUIT SCHEDULE

CONDUIT RUN ITEM - ITEM	CONDUIT QTY	CONDUIT SIZE
A1 - E	1	2"
A1 - K	2	1"
A1 - A2	1	1"
A2 - E	1	2"
A2 - K	2	1"
K - L	1	1"
K	1 X 1" CONDUIT TO NEAREST ELECTRICAL PANEL	

stryker
671 SILVERSON BLVD.
FLOWER MOUND, TX. 75028
PHONE: (877) 789-8106
WWW.STRYKER.COM

REV:	DATE:	DRAWING #: FL-2438853_1	DRAFTER: IR
1	1/4/2023	REFERENCE #:	STUART.COURTNEY

DISCLAIMER
THE DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION OF STRYKER. NEITHER THIS DOCUMENT NOR THE INFORMATION HEREIN MAY BE REPRODUCED, USED, OR DISCLOSED TO OR FOR THE BENEFIT OF ANY THIRD PARTY WITHOUT THE PRIOR WRITTEN CONSENT OF STRYKER.

PRE-INSTALL NOTES
MALCOM RANDALL VA MEDICAL CENTER
EP LAB
GAINESVILLE, FL 32608

REP: ISHY DONALDSON
P.M.: BROCK LAUER
SHEET: P-1

PRELIMINARY
DISCLAIMER: THIS DRAWING IS IN A PRELIMINARY STATE AND PENDING FINAL APPROVAL. ALL DRAWINGS IN A PRELIMINARY STATE SHALL NOT BE USED FOR CONSTRUCTION.

AUTOCAD DRAWING TEMPLATE | TEM100XX | REV: A

PLOT STAMP:COURTNEY, STUART | DATE: 3/14/2023 3:45 PM

KEYNOTES

1. EXISTING RECEPTACLES AND CIRCUITRY TO REMAIN. LABEL COVER PLATE WITH CORRECT CIRCUIT DESTINATION.
2. PHILIPS EQUIPMENT DESIGNATION. REFER TO SHEETS E-4 AND E-4.1.
3. NEW EMERGENCY POWER OFF, SHUNT-TRIP PUSHBUTTON. REFER TO PHILIPS DIAGRAMS ON SHEET E-4.1.
4. EXISTING WARNING LIGHT TO REMAIN. PROVIDE RELAY AND REWIRE PER PHILIPS DETAILS ON SHEET ED4. ALSO, SEE SHEET E4.1.
5. EXISTING AUTOMATIC DOOR AND CONTROLLER TO REMAIN.
6. EXISTING MED GAS BOOM TO REMAIN.
7. EXISTING FLOOR PEDESTAL TO BE COMPLETELY REMOVED.
8. AUTOMATIC DOOR, CONTROLLER, AND WARNING SIGN FOR ADJACENT CATH LAB #1 TO REMAIN.
9. STRYKER BOOM EQUIPMENT. REFER TO REFERENCE DRAWING ON THIS SHEET. ALSO REFER TO COMPLETE STRYKER SHOP DRAWING PACKAGE. VERIFY ALL EQUIPMENT LOCATIONS WITH VA PROJECT MANAGER PRIOR TO ROUGH-IN.
10. REFER TO WIRING DETAIL ON SHEET E3.1.
11. PROVIDE WIRE MESH CABLE TRAY (6" WIDE WITH 2" HIGH SIDES) ROUTED ABOVE CEILING. FIELD VERIFY EXACT PLACEMENT AND ROUTING WITH VA PROJECT MANAGER AND GENERAL CONTRACTOR.

N.T.S.

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FL LICENSE NO. AR-0009524

SOUHEIL S. CHEHAYEB LICENSE No. 49521 STATE OF FLORIDA PROFESSIONAL ENGINEER
Souheil S Chehayeb

IR EQUIPMENT REPLACEMENT
ROOM C246-1
PHILIPS AZURION BI-PLANE

MALCOM RANDALL VA MEDICAL CENTER
1601 SOUTHWEST ARCHER ROAD,
GAINESVILLE, FLORIDA 32608

REVISIONS

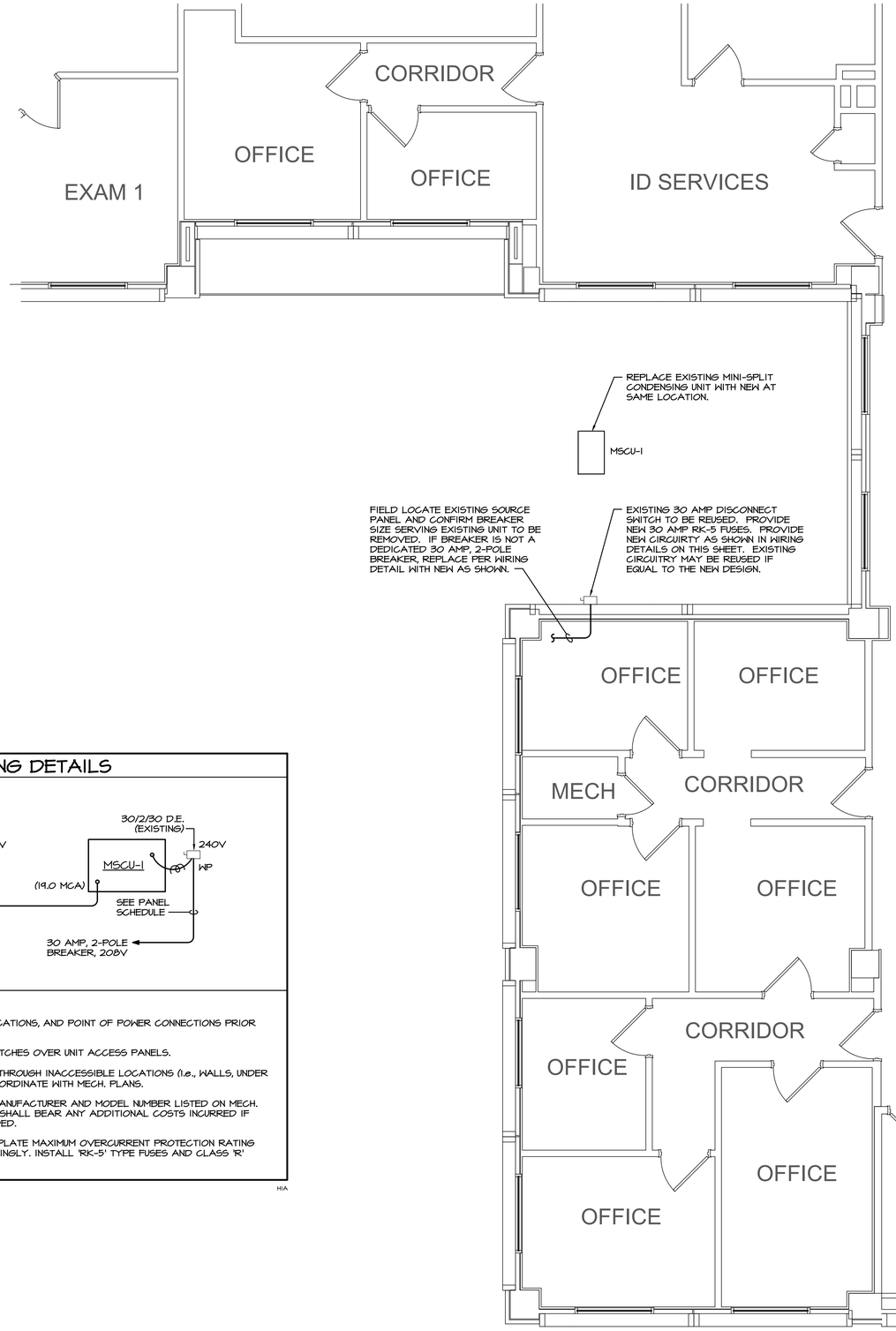
ISSUED FOR:	DATE:
REVIEW	08/08/25
BIDDING	
PERMIT	
CONSTRUCTION	09/09/25

SHEET TITLE: ELECTRICAL POWER PLAN AND DETAILS

DATE: AUGUST 8, 2025

PROJECT NO.: 0623-02

SHEET NO.: E-3



WIRING DETAILS

MECHANICAL EQUIPMENT

NOTES:

1. VERIFY NAMEPLATE RATINGS, LOCATIONS, AND POINT OF POWER CONNECTIONS PRIOR TO ROUGH-IN.
2. DO NOT LOCATE DISCONNECT SWITCHES OVER UNIT ACCESS PANELS.
3. PROVIDE A 3/4" EMPTY CONDUIT THROUGH INACCESSIBLE LOCATIONS (i.e., WALLS, UNDER SLAB) FOR CONTROL WIRING. COORDINATE WITH MECH. PLANS.
4. EQUIP. REQUIREMENTS ARE FOR MANUFACTURER AND MODEL NUMBER LISTED ON MECH. PLANS. THE MECH. CONTRACTOR SHALL BEAR ANY ADDITIONAL COSTS INCURRED IF ALTERNATE EQUIPMENT IS PROVIDED.
5. VERIFY ACTUAL EQUIPMENT NAMEPLATE MAXIMUM OVERCURRENT PROTECTION RATING AND ADJUST FUSE SIZES ACCORDINGLY. INSTALL 'RK-5' TYPE FUSES AND CLASS 'R' REJECTION CLIPS.

HIA

PARTIAL ELECTRICAL ROOF PLAN

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

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Souheil S Chehayeb Digitally signed by Souheil S Chehayeb Date: 2025.09.04 16:14:17 -04'00'

IR EQUIPMENT REPLACEMENT
ROOM C246-1
PHILIPS AZURION BI-PLANE

MALCOM RANDALL VA MEDICAL CENTER
1601 SOUTHWEST ARCHER ROAD,
GAINESVILLE, FLORIDA 32608

REVISIONS

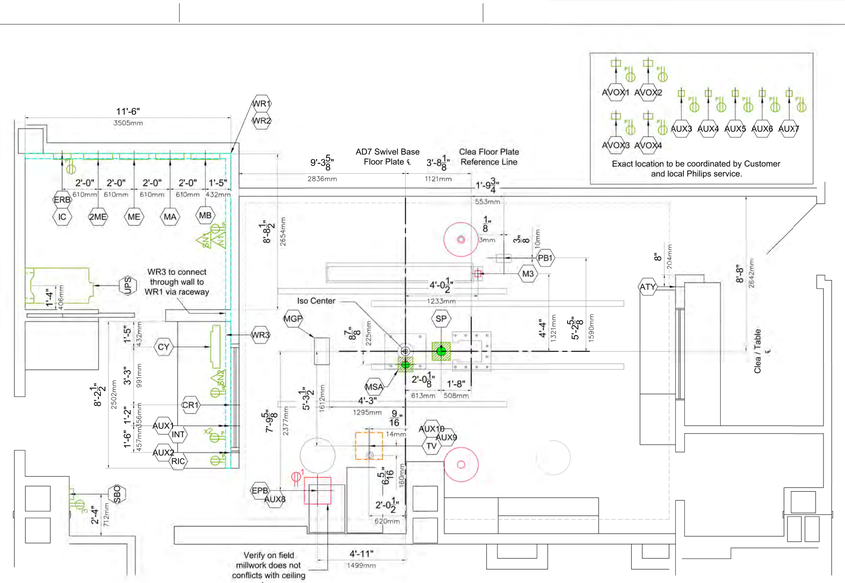
ISSUED FOR:	DATE:
REVIEW	08/08/25
BIDDING	
PERMIT	
CONSTRUCTION	09/03/25

SHEET TITLE
ELECTRICAL ROOF PLAN AND DETAILS

DATE
AUGUST 8, 2025

PROJECT NO.
0623-02

SHEET NO.
E3.1



1 / E1 ELECTRICAL PLAN (ref.)

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

Required Unistrut Height: 9' - 9 3/8", +1/8" (2981mm, +3mm) Unistrut height measured from top of Clea floor plate to bottom of Unistrut.

PHILIPS PROVISIONAL

Project Azurion 7 B20/12 (Cardiac) - Swivel
VA Medical Center Gainesville
Gainesville, FL
ROOM: C246-1

Philips Contacts
Project Manager: Michelle Horvath
Contact Number: (904) 716-3362
Email: michelle.horvath@philips.com
Drawn By: Nicole Romero

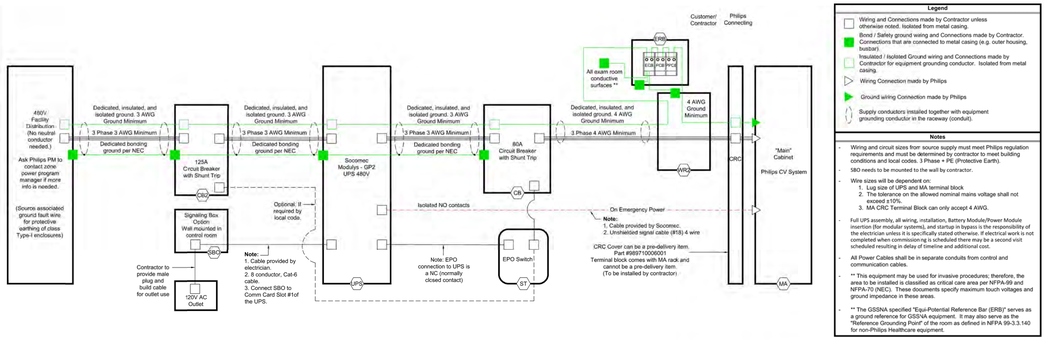
Project Details
Drawing Number: **N-SOU250567_RevA**
Date Drawn: 8/25/2025
Quote: SOU250254
Order: None

R-E1.1

03.31.2025

THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED.

NOTE:
ALL SHEETS IN THE "R" SERIES ARE REFERENCES TO VIEWS IN THE MAIN SET AND ARE MEANT TO BE PLOTTED AT 11x17



5 / ED ELECTRICAL SCHEMATIC WITH SOCOMEC LLF DETAIL (ref.)

SCALE: N.T.S.

PHILIPS PROVISIONAL

Project Azurion 7 B20/12 (Cardiac) - Swivel
VA Medical Center Gainesville
Gainesville, FL
ROOM: C246-1

Philips Contacts
Project Manager: Michelle Horvath
Contact Number: (904) 716-3362
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Drawn By: Nicole Romero

Project Details
Drawing Number: **N-SOU250567_RevA**
Date Drawn: 8/25/2025
Quote: SOU250254
Order: None

R-ED.5

03.31.2025

THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED.

NOTE:
ALL SHEETS IN THE "R" SERIES ARE REFERENCES TO VIEWS IN THE MAIN SET AND ARE MEANT TO BE PLOTTED AT 11x17

Electrical Legend

A Furnished and installed by Philips
B Furnished by customer/contractor and installed by customer/contractor
C Installed by customer/contractor
D Furnished by Philips and installed by contractor
E Existing
F Future
G Optional

	Item Number	Description	Detail Sheet
		Wall	
B	ERB	Equi-Potential Reference Bar mounted in a 12" (305mm) W x 12" (305mm) H x 4" (105mm) D pull box with hinged cover, surface mounted to the bottom of "WR2" when possible.	ED
B	MA ME MB 2ME	**Customer/Contractor** procures and installs Philips Back Boxes from Distinctive Manufacturing Group. Please see 4-ED for ordering instructions for back boxes. Part # 98980122036?. These back boxes are FDA / UL approved and certified for Philips equipment installations. (NO SUBSTITUTION MATERIAL IS ALLOWED)	ED
B	CY CR1 AUX1 AUX2 INT RIC	2" grommet opening in WR3. Align with grommet opening on countertop.	
B	AUX3 AUX4 AUX5 AUX6 AUX7	4" (105mm) W x 4" (105mm) H x 4" (105mm) D pull box with removable screw-type cover plate, flush mounted. Exact height to be cetermined. Verify location with local Philips Service.	
E	WR1	10" (255mm) W x 3 1/2" (89mm) D wall raceway, surface mounted with removable screw-type cover plate. "WR1" is at finished floor.	ED
E	WR3	10" (255mm) W x 3 1/2" (89mm) D wall raceway, surface mounted with removable screw-type cover plate. "WR3" is at finished floor.	ED3
B	WR2	10" (255mm) W x 4" (105mm) D wall raceway, surface mounted with removable screw-type cover plate. "WR2" is at 77" (1960mm) A.F.F. to bottom of raceway.	ED3
G	PHY	Stub up point for physiological monitoring cables. Run conduit to customer's physiological console location. Contact manufacturer for power requirements, etc. Not Shown.	
E	ATY	Auxiliary Box - 6" (155mm) W x 6" (155mm) H x 4" (105mm) D wall box, flush mounted with removable screw-type cover plate. . ATY to be clearly visible. Location shown is existing and customer may change location to meet clinical needs.	
B	WL	Warning Light - Provide a surface or flush mounted light fixture above door to indicate when X-ray is on, if required by local code or physicist of record. (Not shown on plan)	ED
B	RL	Exam Room Light Refer to Detail 3-ED. (Not shown on plan	ED
B	IC	Grommet opening cn "WR1". Exact size and location to be determined by local Philips Service.	
B	AVOX1 AVOX2 AVOX3 AVOX4	6" (155mm) W x 6" (155mm) H x 4" (105mm) D pull box. Location to be determined, verify location with local Philips Service.	
B	CB	480V, 3 phase, Type D 80 A circuit breaker with long-time delay and shunt trip (e.g. Square D HDL36080 or equivalent). Run power from breaker to "MA", leaving an 8' (2440mm) tail at "MA". See Sheet "5-ED" for power quality requirements. Location per local code or owner requirements. (Not shown on plan)	ED
B	ST	Shunt Trip (emergency off) - Large mushroom-head button on remote control station with contacts to operate feature of "CB" and "CB2" (if required by local code or owner, and mandatory for VA and D.O.D installations). If UPS is utilized, EPO switch will run 2 sets of communication wires to input breaker to UPS and to UPS itself (Not shown on plan)	ED
B	CB2	UPS input breaker. 125A, 3-pole circuit breaker with shunt trip if required by local code. (Not shown on plan).	ED
D	UPS	UPS - 75 kVA.	ED
D	SBO	Signaling Box Option (wall mounted in the control area). Exact height to be determined. Location shown is recommended and may be changed - verify relocation with customer/contractor.	ED
		Floor	
B	MSA	10" (255mm) W x 10" (255mm) L x 6" (155mm) D floor box, under the floor with a 5" (130mm) core drill up to the underside of AD7 Swivel Floor Plate. Contractor to provide protection around core drill hole so that there are no sharp edges for protection of cables. Consult with local Philips Service.	
B	SP	12" (305mm) W x 12" (305mm) L x 4" (105mm) D floor box, under the floor with a 6" (152mm) core drill. See "Detail - Clea Floor Plate Cable Entrance" on Sheet "E1 / 1, 2, 3" for cable routing methods. Contractor to provide protection around core drill hole so that there are no sharp edges for protection of cables. Consult with local Philips Service.	E1
B	MGP	Med Gas Pedestal. Verify exact size with customer/contractor and location with Local Philips Service.	
		Ceiling	
E	PB1	18" (460mm) W x 18" (460mm) L x 6" (155mm) D ceiling box, flush mounted with removable screw-type cover plate. Provide one 3" (80mm) diameter knockout.	
E	TV AUX9 AUX10	18" (460mm) W x 18" (460mm) L x 6" (155mm) D ceiling box, flush mounted with removable screw-type cover plate. Provide a 2 3/4" (65mm) round cutout (Two 2 3/4" (65mm) round cutouts are required for systems with two monitor carriages - verify with local Philips Service). "AUX9" and "AUX10" to be mounted on back of FlexVision Monitor.	
B	M3	4" (105 mm)W x 4" (105 mm)L x 2 1/2" (65 mm)D ceiling box, flush mounted with removable screw-type cover plate. Hardwire 120 - 240 VAC, 50 - 60 Hz hospital power to "M3".	
B	EPS AUX8	18" (460 mm) W x 18" (460 mm) L x 6" (150 mm) D ceiling box, above finished ceiling. Auxiliary Equipment Adapter mounted on Equipment Rack DVI (EP Power Boom). AUX8 to be mounted on EP Boom.	
		Duplexes	
B	S	120V/20A dedicated duplex outlet for service.	
B	P	120V/20A dedicated duplex outlet for Philips equipment.	
G	250	NEMA L6-30R, Hubbell Part# HBL2620, 250VAC, 30A, wall mount twist lock outlet for Spectranetics Laser. (Not shown on plan)	
B	1	Provide (2) 120V/20A power supply for the Equipment Rack DVI (EP Power Boom) convenience and emergency outlets. Contractor to install power to the EP Power Boom.	
B	3	120VAC with 1Amp power draw SBO (Signaling Box Option)	
		Network Connectors	
B	N1	Single gang box for RJ45 type Ethernet 10/100/1000 Mbit network connector with access to customer's network. Locate within 10' (3050mm) of network card. Network fiber optic and Ethernet cabling, connectors, wall boxes, patch panels, etc. are the responsibility of the purchaser. Philips assumes no responsibility for procurement, installation, or maintenance of these components.	
B	SN1	Single gang box for an RJ45 Ethernet 10/100/1000 Mbit network connector, terminated to a CAT6 single RJ45 outlet dedicated for Service Hub connection in the equipment room. A dedicated conduit and CAT6 network connection must be terminated at each end (not be combined with X-ray system cabling).	
B	SN2	Single gang box for an RJ45 Ethernet 10/100/1000 Mbit network connector, terminated to a CAT6 single RJ45 outlet dedicated for service connection in the control room. A dedicated conduit and CAT6 network connection must be terminated at each end (not be combined with X-ray system cabling).	

COORDINATION NOTES:

1. THIS SHEET SHALL BE USED IN CONJUNCTION WITH (PHILIPS VENDOR REFERENCE DRAWINGS) FOR CONNECTION REQUIREMENTS, CONDUITS, BOX SIZES, ETC.
2. INFORMATION SHOWN IN THIS DOCUMENT IS AN EXTRACT OF THE INFORMATION SHOWN ON PHILIPS DRAWINGS.
3. INFORMATION SHOWN ON SHEETS E-4 AND E4.1 IS PROVIDED TO SHOW CONDUIT, WIRE, BOXES, ETC., BETWEEN PHILIPS EQUIPMENT AND DEVICES. THE ACTUAL PLACEMENT OF THIS EQUIPMENT IS SHOWN ON SHEET E-3. THEREFORE; A CLOSE COORDINATION IS REQUIRED BETWEEN THE TWO DRAWINGS TO ASSURE PROPER EXECUTION OF THESE DOCUMENTS.

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Souheil S Chehayeb
Digitally signed by Souheil S Chehayeb
Date: 2025.09.26 16:14:42 -04'00'

SOUHEIL S. CHEHAYEB LICENSE No. 49521 STATE OF FLORIDA PROFESSIONAL ENGINEER

IR EQUIPMENT REPLACEMENT
ROOM C246-1
PHILIPS AZURION BI-PLANE

MALCOM RANDALL VA MEDICAL CENTER
1601 SOUTHWEST ARCHER ROAD,
GAINESVILLE, FLORIDA 32608

REVISIONS

ISSUED FOR:	DATE:
REVIEW	08/08/25
BIDDING	
PERMIT	
CONSTRUCTION	09/03/25

SHEET TITLE
REFERENCE VENDOR'S DRAWINGS

DATE
AUGUST 8, 2025

PROJECT NO.
0623-02

SHEET NO.
E-4

Point to Point Run Lengths

Electrician Requirements and Notes

1. A Greenlee measuring tape (part no. 435) must be provided with raceway (conduit) runs
2. All raceway (conduit) runs must take most direct route point to point.
3. All conduits shall be labeled and identified at each end by run number/destination.
4. For conduit use the minimum bending radius specific to the conduit diameter. All conduit and raceway shall be sweeps.

A Raceway (Conduit) supplied/installed by contractor - Philips cables installed by Philips
B Raceway (Conduit) supplied/installed by contractor - Philips cables installed by contractor
C Raceway (Conduits) and cables supplied and installed by contractor
D Raceway (Conduit) existing - cables supplied and installed by Philips
E Raceway (Conduit) existing - cables supplied by Philips and installed by contractor
F Raceway (Conduit) existing - cables supplied and installed by contractor
G Optional equipment, verify with local Philips Service

P Power (AC)
D Power (DC)
G Ground
S Signal
H High Tension
C Cooling Hose
A Air Supply Hose

	Run No.	From	To	Raceway (Conduit) Quantity	Cable Type (*)	Minimum Raceway (Conduit) Size	Maximum Point to Point Run Length	Special Requirements	(RECURED) Electrician to document point to point measurements
C	1	ERB	Third Party Room Outlets	-	G	-	-	For Injector, Auxiliary Box. Patient Monitoring, Video Networking, etc.	
C	2	ERB		1	G	3/4"	-	See Sheet "2-ED" for details.	
A	3	SP	ME	1	C	2-1/2"	61'	Tube Cooling Hoses.	
A	4	SP	ME	1	H	2-1/2"	55'	X-Ray high-voltage cables, the use of 90 deg. ells is not acceptable.	
A	5	SP	MA	1	P/G	1-1/2"	50'	-	
A	6	SP	ME	1	P/G	1-1/2"	57'	-	
A	7	SP	MA	1	S	2"	50'	-	
A	8	SP	ME	1	S	1"	57'	-	
A	9	MSA	MA	1	P/G	2"	44'	-	
A	10	MSA	MA	1	S	3"	44'	-	
A	11	MSA	MB	1	S	1"	44'	-	
A	12	PB1	2ME	1	C	2-1/2"	60'	Tube Cooling Hose.	
A	13	PB1	2ME	1	H	2"	62'	X-Ray high-voltage cables, the use of 90 deg. ells is not acceptable.	
A	14	PB1	MA	1	P/G	1-1/2"	59'	-	
A	15	PB1	2ME	1	P/G	1-1/2"	83'	-	
A	16	PB1	MA	1	S	3"	59'	-	
A	17	PB1	2ME	1	S	1"	63'	-	
A	18	TV	MA	1	P	1-1/2"	60'	-	
A	19	TV	MB	1	P/G	1-1/2"	60'	-	
A	20	TV	MB	1	S	1-1/2"	60'	For FlexVision XL.	
A	21	TV	CY	1	S	1"	60'	-	
A	22	ATV	TV	1	S	1"	80'	-	
A	23	CY	MA	1	S	3"	60'	Conduits to land on wall raceway adjacent to CY. Via raceway.	
A	24	CY	MB	1	S	1-1/2"	60'	Conduits to land on wall raceway adjacent to CY. Via raceway.	
A	25	CY	MA	1	P/G	2"	60'	Conduits to land on wall raceway adjacent to CY. For Philips Workstations. Via raceway.	
A	26	CY	MB	1	S	2"	86'	-	
A	27	ATV	MA	1	S	2"	47'	For Service Hub. Dedicated conduit and CAT 6 network connection terminated at each end (not allowed with x-ray system cabling).	
C	28	SN1	SN2	1	S	1"	-	X-ray Warning Light Refer to Detail 3-ED	
C	29	WL	MA	1	P	PER NEC	PER NEC	Exam Room Light Refer to Detail 3-ED	
C	30	RL	MA	1	P	PER NEC	PER NEC		

PHILIPS
PROVISIONAL

Project
Azurion 7 B20/12 (Cardiac) - Swivel
VA Medical Center Gainesville
Gainesville, FL
Room: C246-1

Philips Contacts
Project Manager: Michelle Horvath
Contact Number: (904) 716-3362
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Drawn By: Nicole Romero

Project Details
Drawing Number
N-SOU250567_RevA
Date Drawn: 8/25/2025
Quote: Q-3005526554
Order: None

R-EC1

THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED.

NOTE:
ALL SHEETS IN THE "R" SERIES ARE REFERENCES TO VIEWS IN THE MAIN SET AND ARE MEANT TO BE PLOTTED AT 11x17

03.31.2025

Point to Point Run Lengths

Electrician Requirements and Notes

1. A Greenlee measuring tape (part no. 435) must be provided with raceway (conduit) runs
2. All raceway (conduit) runs must take most direct route point to point.
3. All conduits shall be labeled and identified at each end by run number/destination.
4. For conduit use the minimum bending radius specific to the conduit diameter. All conduit and raceway shall be sweeps.

A Raceway (Conduit) supplied/installed by contractor - Philips cables installed by Philips
B Raceway (Conduit) supplied/installed by contractor - Philips cables installed by contractor
C Raceway (Conduits) and cables supplied and installed by contractor
D Raceway (Conduit) existing - cables supplied and installed by Philips
E Raceway (Conduit) existing - cables supplied by Philips and installed by contractor
F Raceway (Conduit) existing - cables supplied and installed by contractor
G Optional equipment, verify with local Philips Service

P Power (AC)
D Power (DC)
G Ground
S Signal
H High Tension
C Cooling Hose
A Air Supply Hose

	Run No.	From	To	Raceway (Conduit) Quantity	Cable Type (*)	Minimum Raceway (Conduit) Size	Maximum Point to Point Run Length	Special Requirements	(RECURED) Electrician to document point to point measurements
G	31	MSA	PHY	1	S	3"	-	For future options (Patient Monitoring).	
A	32	AUX1	MB	1	S	1-1/2"	86'	Via raceway.	
A	33	AUX2	MB	1	S	1-1/2"	86'	Via raceway.	
A	34	AUX3	MB	1	S	1-1/2"	86'	-	
A	35	AUX4	MB	1	S	1-1/2"	86'	-	
A	36	AUX5	MB	1	S	1-1/2"	86'	-	
A	37	AUX6	MB	1	S	1-1/2"	86'	-	
A	38	AUX7	MB	1	S	1-1/2"	86'	-	
C	39	MSA	MGP	1	-	2"	-	For med gas pedestal.	
A	40	INT	MGP	1	P	1 1/2"	75'	Conduit opening must be covered if the IntraSight system is planned for future installation.	
A	41	INT	MGP	1	S	1 1/2"	75'	Conduit opening must be covered if the IntraSight system is planned for future installation.	
C	42	Power Supply	M3	1	P	3/4"	-	Project electrician to land 120 - 240 VAC, 50 - 60 Hz in M3 terminal block. Light request: Plus 24, Minus 24, and Ground.	
A	43	EPB	WR2	1	G	1"	-	Wire to be connected to the ERB.	
A	44	EPB	CY	1	S	1"	78'	-	
A	45	EPB	MB	1	S	1"	68'	-	
C	46	EPB	WR3	1	S	2-1/2"	-	*For 3rd party equipment.	
G	47	EPB	WR3	1	P	2-1/2"	-	*For 3rd party equipment.	
C	48	WR1	WR3	1	P	2-1/2"	-	*For 3rd party equipment to control room.	
G	49	WR1	WR3	1	S	2-1/2"	-	*For 3rd party equipment to control room.	
A	50	IC	MSA	1	S	3"	65'	For Table Mounted Injector.	
A	51	IC	RIC	1	S	3"	90'	Via raceway.	
A	52	AVOX1	MB	1	S	1-1/2"	86'	-	
A	53	AVOX2	MB	1	S	1-1/2"	86'	-	
A	54	AVOX3	MB	1	S	1-1/2"	86'	-	
A	55	AVOX4	MB	1	S	1-1/2"	86'	-	
C	56	Power Panel	CB2	1	P/G	Per N.E.C.	Per N.E.C.	3 AWG minimum phase/ground wire size.	
C	57	CB2	UPS	1	P/G	Per N.E.C.	Per N.E.C.	3 AWG minimum phase/ground wire size.	
C	58	UPS	CB	1	P/G	Per N.E.C.	Per N.E.C.	3 AWG minimum phase/ground wire size.	
C	59	CB	WR2	1	P/G	Per N.E.C.	Per N.E.C.	4 AWG minimum phase/ground wire size. Final connections to terminate at MA terminal block.	

PHILIPS
PROVISIONAL

Project
Azurion 7 B20/12 (Cardiac) - Swivel
VA Medical Center Gainesville
Gainesville, FL
Room: C246-1

Philips Contacts
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Contact Number: (904) 716-3362
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Drawn By: Nicole Romero

Project Details
Drawing Number
N-SOU250567_RevA
Date Drawn: 8/25/2025
Quote: Q-3005526554
Order: None

R-EC2

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NOTE:
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03.31.2025

Point to Point Run Lengths

Electrician Requirements and Notes

1. A Greenlee measuring tape (part no. 435) must be provided with raceway (conduit) runs
2. All raceway (conduit) runs must take most direct route point to point.
3. All conduits shall be labeled and identified at each end by run number/destination.
4. For conduit use the minimum bending radius specific to the conduit diameter. All conduit and raceway shall be sweeps.

A Raceway (Conduit) supplied/installed by contractor - Philips cables installed by Philips
B Raceway (Conduit) supplied/installed by contractor - Philips cables installed by contractor
C Raceway (Conduits) and cables supplied and installed by contractor
D Raceway (Conduit) existing - cables supplied and installed by Philips
E Raceway (Conduit) existing - cables supplied by Philips and installed by contractor
F Raceway (Conduit) existing - cables supplied and installed by contractor
G Optional equipment, verify with local Philips Service

P Power (AC)
D Power (DC)
G Ground
S Signal
H High Tension
C Cooling Hose
A Air Supply Hose

	Run No.	From	To	Raceway (Conduit) Quantity	Cable Type (*)	Minimum Raceway (Conduit) Size	Maximum Point to Point Run Length	Special Requirements	(RECURED) Electrician to document point to point measurements
C	60	SBO	UPS	1	S	Per N.E.C.	Per N.E.C.	For Signaling Box Option. Cable by electrician.	
B	61	UPS	MA	1	S	Per N.E.C.	Per N.E.C.	UPS communication cable by Socomec.	
C	62	UPS	ST	1	S	Per N.E.C.	Per N.E.C.		
C	63	CB	ST	1	P	Per N.E.C.	Per N.E.C.		
G	64	CB2	ST	1	P	Per N.E.C.	Per N.E.C.		

PHILIPS
PROVISIONAL

Project
Azurion 7 B20/12 (Cardiac) - Swivel
VA Medical Center Gainesville
Gainesville, FL
Room: C246-1

Philips Contacts
Project Manager: Michelle Horvath
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Drawn By: Nicole Romero

Project Details
Drawing Number
N-SOU250567_RevA
Date Drawn: 8/25/2025
Quote: Q-3005526554
Order: None

R-EC3

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03.31.2025

COORDINATION NOTES:

1. THIS SHEET SHALL BE USED IN CONJUNCTION WITH (PHILIPS VENDOR REFERENCE DRAWINGS) FOR CONNECTION REQUIREMENTS, CONDUITS, BOX SIZES, ETC.
2. INFORMATION SHOWN IN THIS DOCUMENT IS AN EXTRACT OF THE INFORMATION SHOWN ON PHILIPS DRAWINGS.
3. INFORMATION SHOWN ON SHEETS E-4 AND E-4.1 IS PROVIDED TO SHOW CONDUIT, WIRE, BOXES, ETC., BETWEEN PHILIPS EQUIPMENT AND DEVICES. THE ACTUAL PLACEMENT OF THIS EQUIPMENT IS SHOWN ON SHEET E-3. THEREFORE; A CLOSE COORDINATION IS REQUIRED BETWEEN THE TWO DRAWINGS TO ASSURE PROPER EXECUTION OF THESE DOCUMENTS.

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Souheil S Chehayeb
Digitally signed by Souheil S Chehayeb
Date: 2025.08.08 16:15:11

IR EQUIPMENT REPLACEMENT
ROOM C246-1
PHILIPS AZURION BI-PLANE

MALCOM RANDALL VA MEDICAL CENTER
1601 SOUTHWEST ARCHER ROAD,
GAINESVILLE, FLORIDA 32608

REVISIONS

ISSUED FOR:	DATE:
REVIEW	08/08/25
BIDDING	
PERMIT	
CONSTRUCTION	09/03/25

SHEET TITLE
REFERENCE VENDOR'S DRAWINGS

DATE
AUGUST 8, 2025

PROJECT NO.
0623-02

SHEET NO.
E-4.1

EXISTING PANEL: UL-4-1C

MANUFACTURER: GE — LOCATION: ELEC ROOM EC41C-1 — SPECIAL: SECTION 3

PANEL TYPE: PANELBOARD — FED FROM: BC-N-DP1 — 120/208 VOLTS — 3 PHASE — 4 WIRE/SOLID NEUTRAL — AMPERE BUS 100 — AMPERE MAIN 100

(EX) INTERRUPTING CAPACITY (AIC) — RATED: SERIES: - FULL: - — MOUNTING: FLUSH - SURFACE X — MAIN TYPE BREAKER

No.	KVA	NOTE	WIRE	GND	COND	Description	LD	BRK	A	B	C	BRK	LD	Description	WIRE	GND	COND	NOTE	KVA	No.
1	0.0	-					-		0.0			20	-	REC - COMP RM C246B	EX	EX	EX	-	0.0	2
3	0.0	-	-	-	-	BACK-FED MAIN	-	100		0.0		20	-	REC - COMP RM	EX	EX	EX	-	0.0	4
5	0.0	-					-				0.0							-	0.0	6
7	0.0	-	EX	EX	EX	SINE PROCESSOR	-	30	0.0			20	-	HUMIDIFIER	EX	EX	EX	-	0.0	8
9	0.0	-					-			0.0		20	-	FAN COIL EAST END	EX	EX	EX	-	0.0	10
11	0.0	-	EX	EX	EX	WATER COOLER	-	20			0.0	20	-	FAN COIL WEST END	EX	EX	EX	-	0.0	12
13	0.0	-	EX	EX	EX	REC - C246B	-	20	0.0			20	-	CATH LAB S. WALL	EX	EX	EX	-	0.0	14
15	0.0	-	EX	EX	EX	REC - DARK ROOM	-	20		0.0		20	-	REC - EAST END	EX	EX	EX	-	0.0	16
17	0.0	-	EX	EX	EX	REC - WEST END	-	20			0.3	20	M	CATH 2 EQUIPMENT	2#12	1#12	1/2*	-	0.3	18
19	0.0	-	EX	EX	EX	REC - CATH LAB C246B	-	20	0.0			20	-	(UNLABELED)	EX	EX	EX	-	0.0	20
21	0.0	-	EX	EX	EX	AIR CURTAIN	-	20		0.0		20	-	LTG - CATH LAB C246B	EX	EX	EX	-	0.0	22
23	0.0	-					-				0.0	30	-	REC - COMP RM C246B	EX	EX	EX	-	0.0	24
25	0.0	-	EX	EX	EX	(UNLABELED)	-	20	0.0			20	-	CATH LAB AUTO DOOR	EX	EX	EX	-	0.0	26
27	0.0	-	EX	EX	EX	(UNLABELED)	-	20		0.0		20	-	(UNLABELED)	EX	EX	EX	-	0.0	28
29	0.3	NB	2#12	1#12	1/2*	CATH 2 BOOM BREAKS	M	20			0.3	20	-	SIEMENS CONTROL PNL.	EX	EX	EX	-	0.0	30

LEGEND/NOTES:

20(L) = PROVIDE HANDLE LOCKING DEVICE FOR THIS BREAKER

KVA SUB TOTALS: 0.0 | 0.0 | 0.6

- - 0.0 | 0.0 | 0.0

GRAND TOTAL: 0.0 | 0.0 | 0.6

CONNECTED LOAD KVA: 0.6

KVA DEMAND LOAD ADJUSTMENTS

+ 25% SPACE HEATING	0.00
+ 25% LIGHTING:	0.00
100 % KITCHEN DEMAND:	0.0
+ 25% EV CHARGERS:	0.00

KITCHEN MULTIPLIER PER NEC TABLE 220.56

ONLY NEW LOADS ARE SHOWN IN TOTALS

TOTAL DEMAND KVA: 0.6

DEMAND AMPERES: 1.7

EXISTING PANEL: IPU-8

MANUFACTURER: SQUARE 'D' — LOCATION: CATH LAB C246-1 — SPECIAL: CRITICAL BRANCH

PANEL TYPE: 10H55BB51CDDI — FED FROM: 'CLH-4-1C' — 120 VOLTS — 1 PHASE — 3 WIRE/SOLID NEUTRAL — AMPERE BUS 125 — AMPERE MAIN 30 PRIMARY

10K INTERRUPTING CAPACITY (AIC) — RATED: SERIES: - FULL: X — MOUNTING: FLUSH X SURFACE - — MAIN TYPE BREAKER

No.	KVA	NOTE	WIRE	GND	COND	Description	LD	BRK	A	B	BRK	LD	Description	WIRE	GND	COND	NOTE	KVA	No.
1	0.4	-	EX	EX	EX	RECEPTACLES	M	20	1.2		20	M	REC - EQUIP. BOOM	2#10	1#10	3/4*	-	0.8	2
3	0.4	-	EX	EX	EX	RECEPTACLES	M	20		1.2	20	M	REC - EQUIP. BOOM	2#10			-	0.8	4
5	0.4	-	EX	EX	EX	RECEPTACLES	M	20	0.8		20	M	REC - MED GAS BOOM	EX	EX	EX	-	0.4	6
7	0.4	-	EX	EX	EX	RECEPTACLES	M	20		0.6	20	M	REC - IN PANEL	EX	EX	EX	-	0.2	8
9	0.4	-	EX	EX	EX	REC - MED GAS BOOM	M	20	0.6		20	M	REC - IN PANEL	EX	EX	EX	-	0.2	10
11	0.4	-	EX	EX	EX	RECEPTACLES	M	20		0.6	20	M	REC - IN PANEL	EX	EX	EX	-	0.2	12
13	0.4	-	EX	EX	EX	RECEPTACLES	M	20	0.7		20	M	STRYKER BOOMS	2#10	1#10	3/4*	-	0.3	14

LEGEND/NOTES:

20(L) = PROVIDE HANDLE LOCKING DEVICE FOR THIS BREAKER

ALL BREAKERS ARE EXISTING, 2-POLE, SWITCHED NEUTRAL TYPE.

PANEL EQUIPPED WITH AN INTEGRAL 10.0KVA XMFR.

ALL CIRCUITS SHALL HAVE DEDICATED NEUTRALS.

ALL BRANCH CIRCUIT WIRING SHALL BE TYPE XHHW-2.

KVA SUB TOTALS: 3.3 | 2.4

- - 0.0 | 0.0

GRAND TOTAL: 3.3 | 2.4

CONNECTED LOAD KVA: 5.7

KVA DEMAND LOAD ADJUSTMENTS

+ 25% SPACE HEATING	0.00
+ 25% LIGHTING:	0.00
0 % KITCHEN DEMAND:	0.00
+ 25% EV CHARGERS:	0.00

INTEGRAL TRANSFORMER PRIMARY SIDE IS 480V, 1-PHASE.

DEMAND LOAD SHOWN IS AT LOAD SIDE OF INTEGRAL 10.0KVA TRANSFORMER (120 VOLT).

TOTAL DEMAND KVA: 5.7

DEMAND AMPERES: 47.5

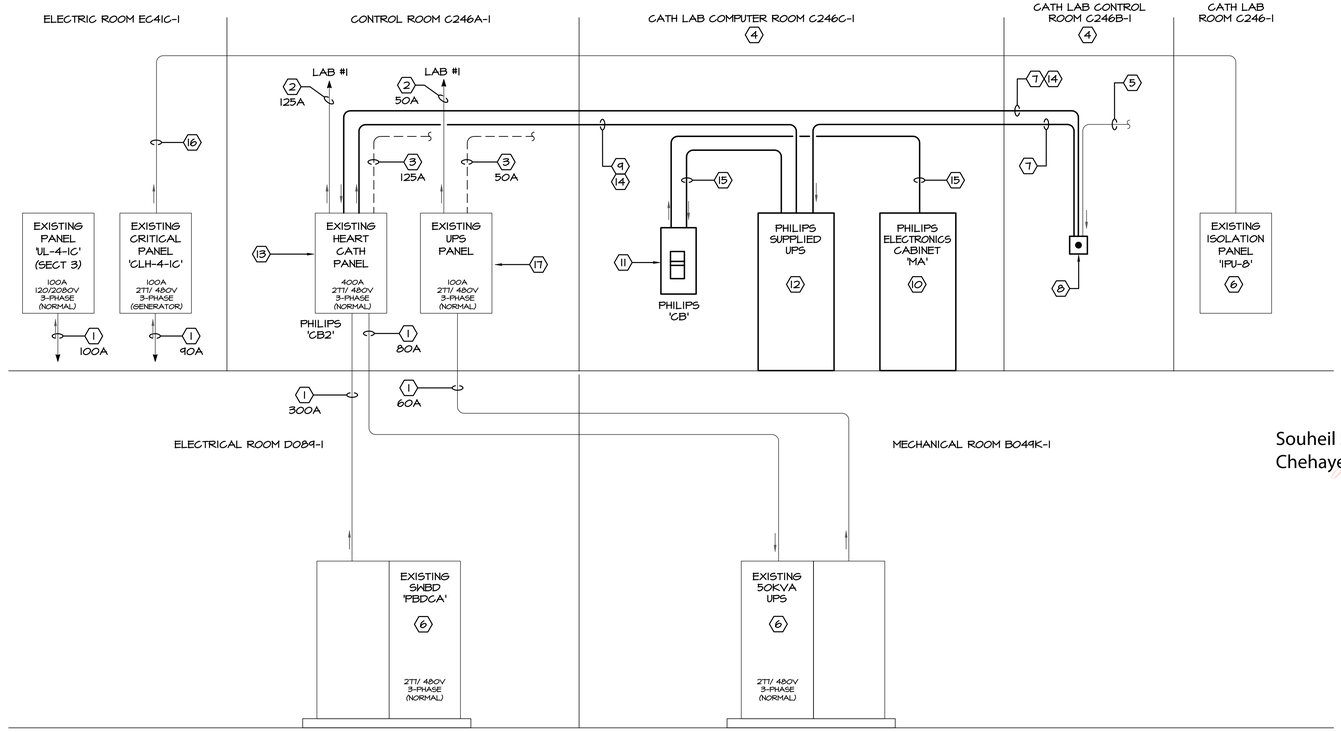
PANEL SCHEDULE LEGEND

LOAD CODES

- A/A3 = HVAC LOAD
- K# = KITCHEN LOADS (1, 2 OR 3 CIRCUIT)
- L/L3 = LIGHTING LOAD
- M/M3 = MISCELLANEOUS LOAD
- R = RECEPTACLE LOAD
- F/F3 = REFRIGERATION LOAD
- W/W3 = WATER HEATER
- U/U3 = USER SPECIFIED LOAD
- X = EXCLUDED, NON-CONCURRENT LOAD. (HVAC LOADS ARE NON-CONCURRENT; TOTALS BASED ON HIGHER VALUE.

DESIGNATION

- IG = ISOLATED GROUND CIRCUIT
- GFI = GROUND FAULT INTERRUPTER
- C# = CONTACTOR CONTROLLED (#) INDICATES CONTACTOR NUMBER
- PC = PHOTOCELL CONTROLLED
- R# = CONTROLLED BY LCP. (#) INDICATES RELAY NUMBER
- SF = SUB-FEED BREAKER
- NB = NEW BREAKER TO MATCH EXISTING IN TYPE, STYLE AND AIC RATING.
- EB = EXISTING BREAKER TO REMAIN AS IS, LABELED AS SPARE OR REVISED AS SHOWN.



LINE LEGEND:

EXISTING TO REMAIN

EXISTING TO BE REMOVED — — — —

NEW WORK THIS SCOPE

M1A

PARTIAL POWER RISER DIAGRAM

NO SCALE

NOTE: SCOPE OF WORK IS "EQUIPMENT REPLACEMENT". NO NEW LOAD IS ADDED TO THE EXISTING ELECTRICAL DISTRIBUTION SYSTEM.

NOTES

KEY

1. EXISTING 2T1/480V, 3-PHASE, PANEL FEEDERS TO REMAIN.
2. EXISTING 2T1/480V, 3-PHASE FEEDERS TO REMAIN FOR LAB #1.
3. EXISTING 2T1/480V, 3-PHASE FEEDERS FOR LAB #2 TO BE COMPLETELY REMOVED.
4. ALL EXISTING EQUIPMENT AND ASSOCIATED ELECTRICAL TO BE COMPLETELY REMOVED.
5. MAINTAIN EXISTING POWER SERVICE FOR SHUNT-TRIP DEVICES.
6. EXISTING EQUIPMENT TO REMAIN.
7. #12 AWG CU CONDUCTORS IN 3/4" CONDUIT, VERIFY QUANTITY WITH PHILIPS.
8. SHUNT-TRIP PUSH BUTTON (ST) WITH ONE NORMALLY-OPEN AND ONE NORMALLY-CLOSED CONTACTS, RED NON-ILLUMINATED BUTTON WITH EXTENDED GUARD, EQUAL TO SQUARE 'D'. REFER TO PHILIPS SYSTEM DRAWINGS FOR ADDITIONAL INFORMATION AND CONNECTION REQUIREMENTS.
9. 3 #1, 1 #1 E.G. IN 1-1/2" CONDUIT.
10. MAIN SYSTEM ELECTRONICS CABINET.
11. 80 AMP, 480V 3-POLE, ENCLOSED CIRCUIT BREAKER, 35K A.I.C., IN NEMA 1 SURFACE MOUNTED ENCLOSURE.
12. CONTRACTOR SHALL PROVIDE ALL MATERIAL AND LABOR REQUIRED FOR INTERCONNECTION OF 50 KVA UPS / BATTERY CABINET. REFER TO UPS MANUFACTURER'S INSTRUCTIONS.
13. EXISTING 125 AMP, 3-POLE BREAKER CURRENTLY SERVING LAB #2 EQUIPMENT TO BE REMOVED, SHALL BE REUSED TO SERVE NEW UPS. FIELD VERIFY EXISTING BREAKER IS EQUIPPED WITH A SHUNT-TRIP MECHANISM. IF NOT, REPLACE WITH NEW BREAKER EQUIPPED WITH SHUNT-TRIP PER PHILIPS REQUIREMENTS AND EQUAL TO EXISTING.
14. EXISTING CONDUIT MAY BE REUSED IF POSSIBLE. PROVIDE NEW CONDUCTORS AS SHOWN. EXISTING CONDUCTORS MAY BE REUSED IF EQUAL TO NEW CONDUCTORS SPECIFIED (FIELD VERIFY PRIOR TO BID).
15. 3 #4, 1 #4 E.G. IN 1-1/4" CONDUIT.
16. EXISTING 2T1/480V, 1-PHASE, PANEL FEEDERS TO REMAIN.
17. EXISTING 50 AMP BREAKER FOR CATH LAB #2 SHALL BE DECOMMISSIONED AND SET TO THE OFF POSITION. MARK AS "SPARE".

N4A

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Souheil S Chehayeb — Digitally signed by Souheil S Chehayeb Date: 2025.08.08 16:15:36 -04'00'

IR EQUIPMENT REPLACEMENT
ROOM C246-1
PHILIPS AZURION BI-PLANE

MALCOM RANDALL VA MEDICAL CENTER
1601 SOUTHWEST ARCHER ROAD,
GAINESVILLE, FLORIDA 32608

REVISIONS

ISSUED FOR:	DATE:
REVIEW	08/08/25
BIDDING	
PERMIT	
CONSTRUCTION	09/03/25

SHEET TITLE: POWER RISER DIAGRAM AND SCHEDULES

DATE: AUGUST 8, 2025

PROJECT NO. 0623-02

SHEET NO. E-5

SPECIFICATIONS - ELECTRICAL

DIVISION 26 - ELECTRICAL

SECTION 260500 COMMON WORK

1. GENERAL

1.01 The following are minimum requirements and shall govern, except that VA Standards and/or drawings shall govern when their requirements are in excess thereof.

2. DRAWINGS AND SPECIFICATIONS

2.01 The architectural, mechanical, electrical and equipment drawings and specifications are hereby incorporated into and become a part of this Division. This Contractor shall examine all such drawings and specifications and become thoroughly familiar with provisions contained herein and the submission of his bid shall be construed as indicating such knowledge.

2.02 Electrical drawings are diagrammatic and are intended to show the approximate locations of equipment and piping. Dimensions given on the plans shall be verified in the field. Drawings may not be scaled to obtain exact dimensions.

2.03 The exact locations of apparatus, fixtures, equipment and conduits shall be ascertained from the Owner's representative in the field, and the work shall be laid out accordingly. Should the Contractor fail to ascertain such locations, the work shall be changed at his own expense when so ordered by the Owner. The Owner reserves the right to make minor changes in the location of conduit and equipment up to the time of installation, without additional cost.

2.04 The electrical drawings and specifications are intended to supplement each other and any material or labor called for in one shall be furnished and supplied even though not specifically mentioned in both. Labor and/or materials neither shown nor specified, but necessary for the completion and proper functioning of the system, shall be provided by this Contractor.

2.05 The work required under these specifications includes all labor, materials, equipment and services necessary to provide lighting and power systems, service entrances, motor controls and connections, branch circuiting, feeders, panels, fixtures, wiring devices, and other items shown on the plans or specified.

2.06 When the specification of an item is not identified with a particular area, the item shall pertain to all areas.

2.07 This Contractor shall furnish such labor and materials as hereinafter specified and as required to complete all electrical connections in accordance with the manufacturer's requirements for all mechanical equipment and Owner's equipment as shown and/or specified.

3. EXAMINATION OF SITE

3.01 Contractor shall visit the site and familiarize himself with existing conditions and satisfy himself as as to the nature and scope of work.

4. DEFINITIONS

4.01 "Install" shall mean to place, fix in position, secure, anchor, wire, etc., including necessary appurtenances and labor so that equipment or installation will function as specified and intended.

4.02 "Furnish" shall mean to purchase and supply equipment or components.

4.03 "Provide" shall mean to "furnish and install".

4.04 "Or approved equal" shall mean equal in type, design, quality, style, color, etc., as determined by the Engineer/Architect.

5. INTERFERENCES

5.01 It shall be the duty of this Contractor to report any interferences between his work and that of any other Contractor to the Owner or Architect as soon as they are discovered. The Owner or Architect will determine which equipment shall be relocated regardless of which was first installed, and his decision shall be final.

6. MATERIALS AND WORKMANSHIP

6.01 All work shall be installed in a practical and workmanlike manner by competent workmen, skilled in their branch of the trade.

6.02 Unless otherwise specified or indicated on the drawings, all materials shall be new and free from defects.

6.03 All material and equipment shall meet or exceed standards specified by UL, NEMA, ANSI and IEEE wherever such standards have been established.

6.04 From time-to-time during the operation and at the completion thereof, this Contractor shall remove all debris and excess materials caused by his work and he shall leave the area of the operation broom clean.

6.05 All electrical equipment and material shall bear the Underwriter's Laboratories label.

7. SUPPORTS

7.01 This Contractor shall furnish and install all angle iron, channel iron, rods, supports or hangers required to install or mount panelboards, switchboards, or any electrical equipment called for on the plans, in these specifications, or as necessary to mount any piece of electrical equipment, material, or device. Conduit, fixtures, or any electrical devices shall not be supported from steel deck, bridging, ceiling, or ceiling support wires.

8. TEMPORARY CONSTRUCTION POWER AND LIGHTING

8.01 Sufficient temporary power, during construction, for tools and portable equipment shall be provided by the Electrical Contractor. Contractor shall coordinate with Owner.

9. CODES, LAWS, PERMITS AND INSPECTIONS

9.01 Install all work in full accordance with codes, rules and regulations of the VA Design Standards, public utility, and all other authorities having jurisdiction over the premises. This shall include all requirements of the local Building Code, regulations of the State Department of Industrial Relations, OSHA, ADA (Americans with Disabilities Act), and the requirements of the National Electric Code, as interpreted by the Local Inspection Division. All these codes, rules, and regulations are hereby incorporated into this specification.

9.02 Comply with specification requirements which are in excess of code requirements and not in conflict with same.

9.03 The Contractor shall secure all permits and certificates of inspection incidental to the work, required by foregoing authorities. All such certificates shall be delivered to the Owner in duplicate, before final payment on contract will be allowed. The Contractor shall pay all fees, charges and other expenses in connection therewith.

10. FIELD CHANGES (AS BUILT DRAWINGS)

10.01 Keep one (1) set of working drawings and shop drawings at the job site for sole purpose of recording all changes made during construction. After completion of the work and before requesting final payment, the above mentioned drawings shall be delivered to the Owner.

11. LABELING AND NAMEPLATES

11.01 Permanently label switchboards, panelboards, time switches and safety switches indicating equipment or panels and areas which they serve.

11.02 Lighting and appliance panels shall be labeled as shown on drawings.

11.03 Electrical Contractor shall furnish and install identification for pull or junction boxes furnished by him.

11.04 Identify as to use on face of equipment by means of laminated black and white phenolic label with 3/8" letters engraved through black to white.

11.05 Materials

A. Nameplates: Engraved three-layer laminated plastic, white letters on a black background.

11.06 Installation

A. Degrease and clean surfaces to receive nameplates and tape labels.

B. Install nameplates and tape labels parallel to equipment lines.

C. Secure nameplates to equipment fronts using screws, rivets or adhesive. Secure nameplates to inside face of recessed panelboard doors in finished locations.

D. Mark every junction or pull box cover plates with the circuit number(s) of all wires contained therein.

11.07 Wire Identification:

A. Provide wire markers on each conductor at terminal strips and at final line and load connections. Identify with branch circuit or feeder number of power and lighting circuits, and with control wire number as indicated on equipment manufacturer's shop drawings for control wiring or as drawings indicate.

B. All wires shall be color coded. Color code branch circuit wiring as follows:

1. Three Phase System:

	120/208V	277/480V
Phase A	Black	Brown
Phase B	Red	Orange
Phase C	Blue	Yellow
Neutral	White	Gray
Ground	Green	Green

2. Switched Wires: Other than colors listed above

3. Travelers Between 3-Way Switches: Purple

4. Isolated Ground: Green with Yellow Stripe

12. GUARANTEE

12.01 In addition to guarantees of equipment by manufacturer of same, this Contractor shall also guarantee equipment provided by him and shall be held for a period of one (1) year to make good any defects in material and and workmanship occurring during this period, at his sole expense. This one year period shall start from the date of final occupancy by Owner.

13. SCOPE OF WORK

13.01 Furnish all labor and material necessary to complete the electrical work shown on the drawings, specified herein or required to complete the construction of the building as shown.

13.02 The listing herein of article or material, operation or method, required that the Contractor shall provide and install, unless noted to be supplied by others, each item listed of quality or subject to qualification noted. Each operation shall be performed according to standard practice, manufacturer's instructions and conditions stated, providing, therefore, all necessary labor, equipment, and incidentals.

13.03 The electrical Contractor shall schedule his work to conform to the progress of the other trades and Contractors and employed on this project.

13.04 The electrical work shall include but is not limited to the following:

A. Complete power and lighting distribution systems including panels and light fixtures, as shown on plans.

B. Temporary electric service as required for construction.

C. Testing of all electrical equipment.

14. MANDATORY SHOP DRAWINGS

14.01 Submit all required electrical shop drawings.

14.02 Shop Drawings shall be submitted for:

Panels, Switchgear
All Lighting Fixtures and lamps
All Wiring Devices and Cover Plates

END OF SECTION 260500

SECTION 260519/260533/262726 CONDUCTORS/RACEWAYS/DEVICES

1. CONDUIT

1.01 All wire shall be run in accordance with the applicable codes in corrosion resistant, rigid, threaded, metal conduit or electrical metallic tubing (E.M.T.), unless otherwise specifically stated herein.

A. Conduit below floor slab, exposed to weather, or underground shall be rigid, threaded, galvanized, heavy wall type.

B. Carlon PVC, Type 40 heavy wall conduit may be used underground below floor slab or pavement in lieu of rigid, threaded, galvanized conduit except where prohibited in NEC 517. PVC schedule 40 conduit shall not be run in or above floor slab. PVC conduit shall terminate below floor slab with rigid, threaded metal conduit adapter. Conduit above slab shall be metal.

C. A ground conductor shall be supplied in all conduits and raceways. The ground conductor shall be sized per the N.E.C. or as shown on drawing, whichever is larger.

1.02 Conduit and E.M.T. shall be delivered to the building in 10-foot lengths and each length shall have the Underwriter's Laboratories label.

1.03 Conduit and E.M.T. shall be run concealed in all finished areas of the building.

1.04 E.M.T. connectors and couplers shall be compression type made of steel as manufactured by Thomas & Betts, Steel City, or Appleton. Bends and offsets shall be made with a hickey or power bender without kinking or destroying the smooth bore of the conduit. Paralleled conduits shall run straight and true with offsets uniform and symmetrical. Conduit terminals at boxes and cabinets shall be rigidly secured with locknuts and bushings as required by the National Electrical Code and local electrical code. Insulated bushings shall be used on all conduit 1-1/4" trade size and larger.

1.05 Conduit shall be securely fastened in place at no more than 8-foot centers, and hangers, supports or fastenings shall shall be provided at each conduiet, elbow and at the end of each straight run, terminating at a box or cabinet. Conduit shall not be suspended from the ceiling or ceiling suspension wires.

1.06 Horizontal and vertical conduit runs shall be supported by one-hole malleable straps or other approved metal device with suitable bolts, expansion shield or beam clamp for mounting to building structure or special brackets. Conduit shall be supported from structural steel or joist and independent of other piping. Do not support conduit from metal roof deck or any other support device of another trade.

1.07 Armored cable (BX) or nonmetallic sheathed cable (Romex) shall not be used. No aluminum conduit shall be used.

1.08 Only short runs of flexible metal conduit not over 6' in length and having a ground conductor, shall be used for terminal connections to motors and also for electrical equipment where it is not practical to make final connection with rigid conduit. Flexible conduit exposed to weather shall be Sealtite.

1.09 Exposed conduit and conduit in ceiling space shall be run parallel to the building structure.

1.10 Conduit system shall conform to all requirements of the National Electrical Code (N.E.C./N.F.P.A.-70) and local codes.

2. CONDUCTORS

2.01 Sizes of conductors for feeders are given on the drawings and no wire smaller than #12 gauge shall be used for branch lighting or power circuits. All wiring shall have the U.L. label and be of 98% conductivity copper. Aluminum wire or aluminum cable is not acceptable.

A. The gauge of all wire shall be in accordance with B&S standard.

2.02 All wire and cable for branch lighting or small power circuits shall have NEC Type "THHN" or "THWN" 600 volt insulation.

2.03 Wire and cable above #10 gauge shall be stranded Type "THWN" insulated for 600 volts

2.04 For special conditions, as provided by the National Electrical Code, Type "R.H.H., A.V.A." or other required insulation shall be used.

2.05 Where lighting fixtures are used as raceways, 90 degree C. minimum insulated wire shall be used.

3. GROUNDING

3.01 This Contractor shall provide, install and connect a complete system of grounding for all equipment and structures. A good mechanical and electrical connection shall be made with approved grounding connectors.

3.02 Electrical system and equipment grounds shall comply with the N.E.C. as well as all local and state codes and regulations.

3.03 Panels, conduit systems, motor frames, lighting fixtures and other equipment that are part of this installation shall be securely grounded both mechanically and electrically in accordance with all codes.

3.04 A ground conductor shall be supplied in ALL conduit. It shall be an insulated, stranded, annealed copper conductor.

4. TOGGLE SWITCHES AND RECEPTACLES

4.01 All general purpose switches and receptacles color shall be as described in Electrical Requirements - Division 26 on sheet E-1.

4.02 Acceptable device manufacturers are Leviton, Arrow Hart, Hubbell, or Pass & Seymour.

4.03 Refer to Electrical Requirements on Sheet E-1 for specification of Switches and receptacles.

5. WALL PLATES

5.01 Unless otherwise noted, all plates for wall switches, receptacles and telephone outlets shall be as specified in Construction Documents.

5.02 All plates shall have full contact with the wall and boxes. Edges shall be parallel to the finished walls and ceilings.

6. OUTLETS

6.01 Locations of outlets are shown approximately on the drawings. Contractor shall refer to the shop drawings of the manufacturer of the equipment for the exact location of outlets for fixtures, motors, heaters and their respective control devices. Approximate locations of light fixtures are shown on the drawings.

6.02 Outlet boxes for concealed work shall be pressed steel boxes, galvanized and not less than #12 gauge, except floor boxes which shall be cast iron. Each ceiling outlet designated for a lighting fixture shall have a fixture support secured in place with nuts and bolts. Ceiling boxes shall be four inches (4") round and octagonal with lugs and screws for back plates. Wall outlets shall be four inches (4") square by 1-1/2" deep, single or double cover, except gang boxes of similar depth shall be used at locations requiring more than 2-gang.

6.03 Outlets on the exterior of the building shall be weatherproof type.

6.04 All outlets shall be firmly secured in place. Outlets in finished areas shall be flush with finished ceiling or walls.

7. BRANCH CIRCUIT WIRING

7.01 The Electrical Contractor shall provide and connect a complete system of panels, conduits, wire fittings, boxes, supports and all other miscellaneous materials required for equipment as indicated on the plans and ready for operation by the Owner.

7.02 All circuits shall be color coded.

END OF SECTION 260519/260533/262726

SECTION 262416 PANELBOARDS

1. LIGHTING AND APPLIANCE PANELBOARDS

1.01 Panels shall be copper bus and shall have 20 amp, single, double, or three pole circuit breakers (capable of interrupting available short circuit current) as required in each branch circuit. Where breakers larger than 20 amperes are required, the sizes are noted on the drawings. Breakers shall be bolt-on, quick-make, quick-break and capable of interchanging 1, 2 or 3-pole units. Multiple units shall be common trip. Provide spare breakers in each panel as shown. All lugs shall be U.L. approved CU/AL type.

1.02 Electrical Contractor shall arrange circuits as near as possible to circuit numbers on the drawings. At finish of job, Electrical Contractor shall take current reading checks of respective phases. Contractor shall rearrange some circuit connections to balance the load across all phases as closely as possible.

1.03 Panels shall be mounted as indicated on the drawings. The fronts shall be made of code thickness sheet metal having door cutouts, leaving forms of proper width around the door. Doors shall be provided with an approved lock and shall be keyed alike. Provide new door fronts and keyed doors as required.

1.04 Breakers used for lighting circuits shall be switch duty style.

2. GENERAL (FOR ALL PANELS AND PANELBOARDS)

2.01 Metal framed card holders with typewritten circuit directory must be provided for each panel. Directory shall be clear and designation shall match identification on equipment. Panelboards (switchboard, distribution, power panels and lighting panels) shall be identified by a label on the switch and/or panel door. Provide engraved laminated phenolic nameplates with 3/8" letters engraved through black to white.

2.02 All panels, safety switches, starters and in general, all equipment requiring lugs shall be equipped with solderless type U.L. approved lugs.

2.03 Provide all necessary unistrut, channel, backing and supports to mount switchboard and panelboards securely in place.

END OF SECTION 262416

SECTION 265100 LIGHTING

1. LIGHTING FIXTURES

1.01 All fixtures shall be as shown on Fixture Schedules.

1.02 Unless otherwise indicated, all lighting fixtures shall be furnished and installed by Electrical Contractor as indicated on the Lighting Fixture Schedules, including lamps.

1.03 All fixtures shall bear the Underwriter's Laboratories label and shall be installed according to manufacturer's instruction.

1.04 All fixtures shall be new and undamaged.

1.05 This Contractor shall provide and install all necessary support media for all lighting fixtures including structural steel, angle, rods, etc. In general, fixtures shall be supported in a manner acceptable to the local inspection authorities. All fixtures shall be firmly supported from beams or joists, and not dependent on suspended ceiling system for support. All fixtures installed in the ceiling grid shall be supported from the building structure (less than 10 lbs - one #12 gauge hangerwire; 10 lbs or more - two #12 gauge hangerwires attached at opposing corners of the fixture).

END OF SECTION 265100

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Souheil S Chehayeb
Digitally signed by Souheil S Chehayeb
Date: 2025.08.08 16:16:02 -04'00'

IR EQUIPMENT REPLACEMENT
ROOM C246-1
PHILIPS AZURION BI-PLANE

MALCOM RANDALL VA MEDICAL CENTER
1601 SOUTHWEST ARCHER ROAD,
GAINESVILLE, FLORIDA 32608

REVISIONS

ISSUED FOR:	DATE:
REVIEW	08/08/25
BIDDING	
PERMIT	
CONSTRUCTION	09/03/25

SHEET TITLE
ELECTRICAL SPECIFICATIONS

DATE
AUGUST 8, 2025

PROJECT NO.
0623-02

SHEET NO.
E-6