

ROY COOPER • Governor

MANDY COHEN, MD, MPH • Secretary

MARK PAYNE • Director, Division of Health Service Regulation

VIA EMAIL ONLY

April 28, 2021

Catharine Cummer @duke.edu

Exempt from Review – Replacement Equipment

Record #: 3546

Date of Request: April 21, 2021 Project ID#: J-7797-07

Facility Name: Duke University Hospital

FID #: 943138

Business Name: Duke University Health System, Inc.

Business #: 640

Project Description: Replace existing linear accelerator

County: Durham

Dear Ms. Cummer:

The Healthcare Planning and Certificate of Need Section, Division of Health Service Regulation (Agency), determined that the above referenced project is exempt from certificate of need review in accordance with G.S. 131E-184(a)(f). Therefore, you may proceed to acquire without a certificate of need the Varian True Beam Linear Accelerator to replace the Varian Novalis TX Linear Accelerator (serial# 293691). This determination is based on your representations that the existing unit will be sold or otherwise disposed of and will not be used again in the State without first obtaining a certificate of need if one is required.

It should be noted that the Agency's position is based solely on the facts represented by you and that any change in facts as represented would require further consideration by this office and a separate determination. If you have any questions concerning this matter, please feel free to contact this office.

Sincerely,

Kim Meymandi

Ku Miznandi

Project Analyst

Lisa Pittman

Acting Chief, Certificate of Need

thumah Wilson for

cc: Radiation Protection Section, DHSR

Construction Section, DHSR

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES • DIVISION OF HEALTH SERVICE REGULATION HEALTHCARE PLANNING AND CERTIFICATE OF NEED SECTION

LOCATION: 809 Ruggles Drive, Edgerton Building, Raleigh, NC 27603

MAILING ADDRESS: 809 Ruggles Drive, 2704 Mail Service Center, Raleigh, NC 27699-2704

https://info.ncdhhs.gov/dhsr/ • TEL: 919-855-3873



Catharine W. Cummer

Regulatory Counsel, Strategic Planning

April 21, 2021

Via Electronic Mail

Ms. Lisa Pittman
Healthcare Planning and Certificate of Need Section
Division of Health Service Regulation
2704 Mail Service Center
Raleigh, NC 27699-2704

Re: Exempt Linear Accelerator Replacement Project at Duke University Hospital

Dear Ms. Pittman:

The purpose of this letter is to request the CON Section's written confirmation that the acquisition of replacement linear accelerator equipment satisfies the requirements under N.C.G.S. 131E-184(f) for replacement equipment that exceeds the two million dollar (\$2,000,000) threshold set forth in G.S. 131E-176(22), if all of the following conditions are met:

- (1) The equipment being replaced is located on the main campus.
- (2) The Department has previously issued a certificate of need for the equipment being replaced. This subdivision does not apply if a certificate of need was not required at the time the equipment being replaced was initially purchased by the licensed health service facility.
- (3) The licensed health service facility proposing to purchase the replacement equipment shall provide prior written notice to the Department, along with supporting documentation to demonstrate that it meets the exemption criteria of this subsection.

As set forth below, we believe that Duke University Hospital's project meets these requirements and is exempt from certificate of need review.

(1) Main Campus

The purpose of this project is to replace an existing linear accelerator currently in service in the Morris Clinic, which is part of the main building of Duke University Hospital. The "main campus" of the facility is defined in N.C.G.S. 131E-176(14n) to include both "[t]he site of the main building from which a licensed health service facility provides clinical patient services and

exercises financial and administrative control over the entire facility, including the buildings and grounds adjacent to that main building" and "[o]ther areas and structures that are not strictly contiguous to the main building but are located within 250 yards of the main building."

In this case, Duke University Hospital is a licensed health service facility, and the main hospital building from which Duke University Hospital provides its clinical services and exercises financial and administrative control is the physically contiguous structure that includes Duke South, Duke North, the Duke Children's Hospital, the Duke Medicine Pavilion, the Morris Clinic, the Duke Cancer Center, the Wadsworth Building, and the Hudson Building. The hospital's license and campus map have been previously provided to the CON Section. The construction plans showing the location of the project within the Morris Clinic are enclosed.

(2) Previous Certificate of Need

The existing equipment was acquired pursuant to Project J-7797-07 (see enclosed CON).

(3) Replacement equipment

The equipment qualifies as replacement equipment pursuant to the existing statutory and regulatory definitions. A completed Equipment Comparison form is enclosed. Both the existing equipment and the replacement equipment provide radiation oncology procedures. The total project cost exceeds \$2,000,000 reflecting major medical equipment, related equipment, and renovation/installation expenses. A copy of the equipment quotation is available upon request. The total operating costs per procedure will increase by less than 1%, as the result of the cost of the services agreement for the replacement equipment. Duke will not acquire any other major medical equipment or develop any other new institutional health services other than those described in Section 131E-176(16)(b). The existing equipment will be removed from service in the state upon its replacement.

Thank you for your attention to this request. If you have questions about this information, please let me know.

Very truly yours,

Catharine W. Cummer

Catharine W. Cummer

Enclosures

EQUIPMENT COMPARISON

	EXISTING EQUIPMENT	REPLACEMENT EQUIPMENT	
Type of Equipment (List Each Component)	Linear Accelerator	Linear Accelerator	
Manufacturer of Equipment	Varian	Varian	
Tesla Rating for MRIs	NA	NA	
Model Number	Novalis TX	TrueBeam	
Serial Number	293691	NA	
Provider's Method of Identifying Equipment	SN	SN	
Specify if Mobile or Fixed	Fixed	Fixed	
Mobile Trailer Serial Number/VIN #	NA	NA	
Mobile Tractor Serial Number/VIN	NA	NA	
#			
Date of Acquisition of Each Component	September 2007	May 2021	
Does Provider Hold Title to Equipment or Have a Capital	Owned	Owned	
Lease?	- Cwilea	owned	
Specify if Equipment Was/Is New or Used When Acquired	New	New	
Total Capital Cost of Project (Including Construction, etc.)	4,430,774	4,603,895	
<use attached="" form=""></use>			
Total Cost of Equipment	3,153,138	2,705,783	
Fair Market Value of Equipment			
Net Purchase Price of Equipment			
Locations Where Operated	Morris Bldg Rm 005133	Morris Bldg Rm 005133	
Number Days In Use/To be Used in N.C. Per Year	365	365	
Percent of Change in Patient Charges (by Procedure)	NA	0	
Percent of Change in Per Procedure Operating Expenses	NA	0	
(by Procedure)			
Type of Procedures Currently Performed on Existing	Radiation treatment /IMRT	NA	
Equipment			
Type of Procedures New Equipment is Capable of Performing	NA	Radiation treatment /IMRT	







Duke Health FPDC # 4195

Blue Vault Linac Replacement

Duke Cancer Center, Sub-Basement, Morris Building 30 Duke Medicine Circle, Durham NC 27710

Architect: IHR Architecture

Durham, North Carolina

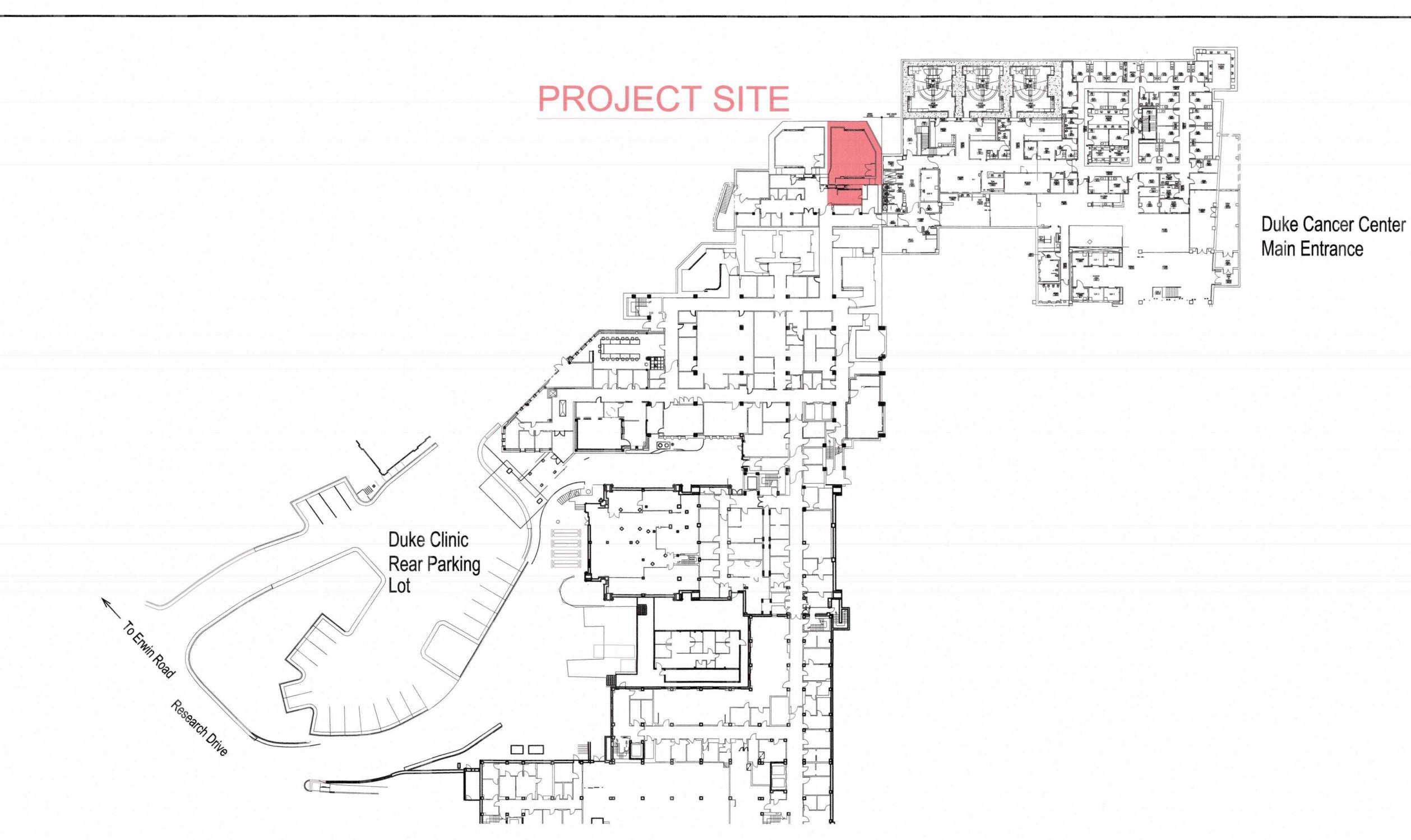
MEP Engineers: Edmondson Engineers

Durham, North Carolina

Structural Engineers: Gardner & McDaniel

Durham, North Carolina

Construction Documents 01-06-2021



INDEX OF DRAWINGS

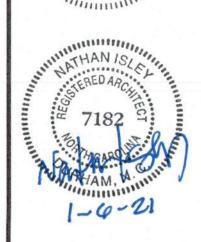
A0.1	Cover Sheet
A0.2	Building Code Summary
A0.3	Life Safety Plan
A0.4	Infection Control and Construction Risk Assessment, Contractor Access Route
A0.5	UL Details
A0.6	UL Details
A1.1	Floor Plans: Concrete Slab Demolition and Replacement
A1.2	Floor Plans: Demolition
A1.3	Floor Plans: Renovation, Schedules
A1.4	Floor Plans: Interior Design Finishes
A2.1	Reflected Ceiling Plans: Demolition
A2.2	Reflected Ceiling Plans: Renovation
A3.1	Interior Elevations and Casework
A3.2	Interior Elevations and Casework
A4.1	Wall Types and Construction Details
A 5.1	Reference Structural and Utility Maze Shielding
V1.1	Vendor Drawings - Varian

S1.1	Foundation Plan, Sections and Details		
P0.1	Plumbing Legends, Notes and Schedules		
P1.1	Plumbing Demolition Plan - Medical Gas - Sub-Basement		
P2.1	Plumbing Renovation Plan - Medical Gas - Sub-Basement		
M0.1	Mechanical Legends, Notes and Abbreviations		
M0.2	Mechanical Specifications		
M1.1	Mechanical Demolition Plans		
M2.1	Mechanical Renovation Plans		
M3.1	Mechanical Details		
FP0.1	Fire Protection Schedules, Legends and Details		
FP1.1	Fire Protection Demolition Plans		
FP2.1	Fire Protection Renovation Plans		
E1.1	Electrical Demolition Plan		
E2.1	Power and Lighting Plans		
E2.2	Varian Equipment Raceway Plans		
E2.3	Electrical Schedules and Details		
E2.4	Electrical Specifications		

IHR ARCHITECTURE,
1011 Lamond Avenue
Durham, NC 27701
ARCHITECTURE
919.489.7417

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lue Vault Linac Replacement
Morris Building, Duke Cancer Center

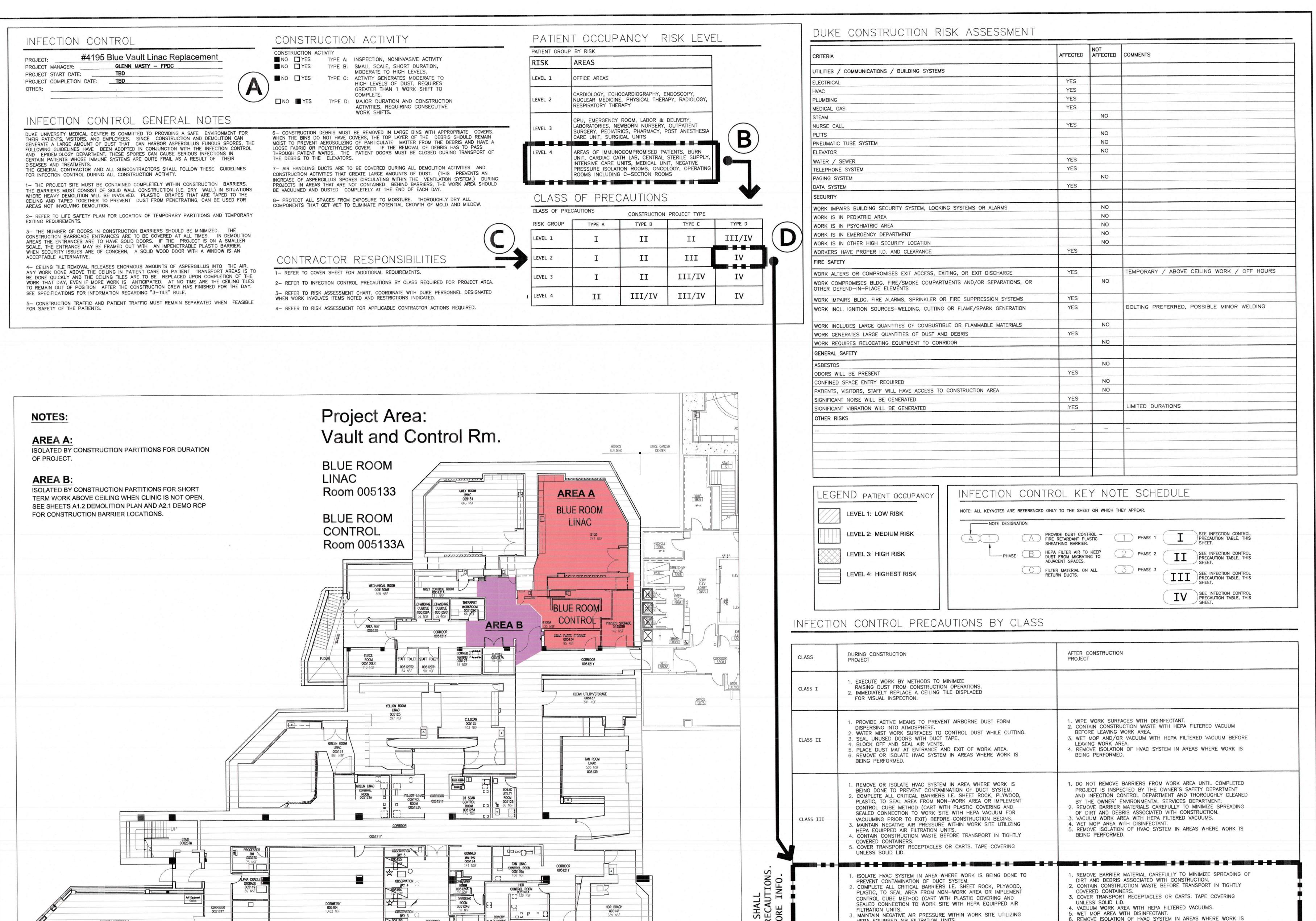
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#4195
Duke Blue Vault Linad
IHR #19 0028

DATE: REVISIONS: 1-6-2021

DATE: REVISION
1-6-2021
ISSUE: Construction Documents
APPROVED:

A0.1



CORRIDOR 005100W

OBSERVATION

PLANING 005104B 225 NSF

PLANNING 005141B

COMMUNICATION ROOM

Scale: 1/16'' = 1'-0''

Infection Control Plan

HEPA EQUIPPED AIR FILTRATION UNITS.

TIME THEY LEAVE THE WORK SITE.

THE WORKER EXITS THE WORK AREA.

CLASS IV

. SEAL HOLES, PIPES, CONDUITS, AND PUNCTURES APPROPRIATELY. CONSTRUCT ANTEROOM AND REQUIRE ALL PERSONNEL TO PASS THROUGH THIS ROOM SO THEY CAN BE VACUUMED USING A HEPA

VACUUM CLEANER BEFORE LEAVING WORK SITE OR THEY CAN

6. ALL PERSONNEL ENTERING WORK SITE ARE REQUIRED TO WEAR

SHOE COVERS. SHOE COVERS MUST BE CHANGED EACH TIME

7. DO NOT REMOVE BARRIERS FROM WORK ARE UNTIL COMPLETED

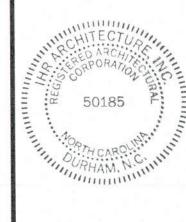
PROJECT IS INSPECTED BY THE OWNER'S SAFETY DEPARTMENT AND INFECTION CONTROL DEPARTMENT AND THOROUGHLY CLEANED

BY THE OWNER'S ENVIRONMENTAL SERVICES DEPARTMENT.

WEAR CLOTH OR PAPER COVERALLS THAT ARE REMOVABLE EACH

BEING PERFORMED.

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Replacement Cancer Center 195 FPDC Linac ing, Duke ault Lir Building,

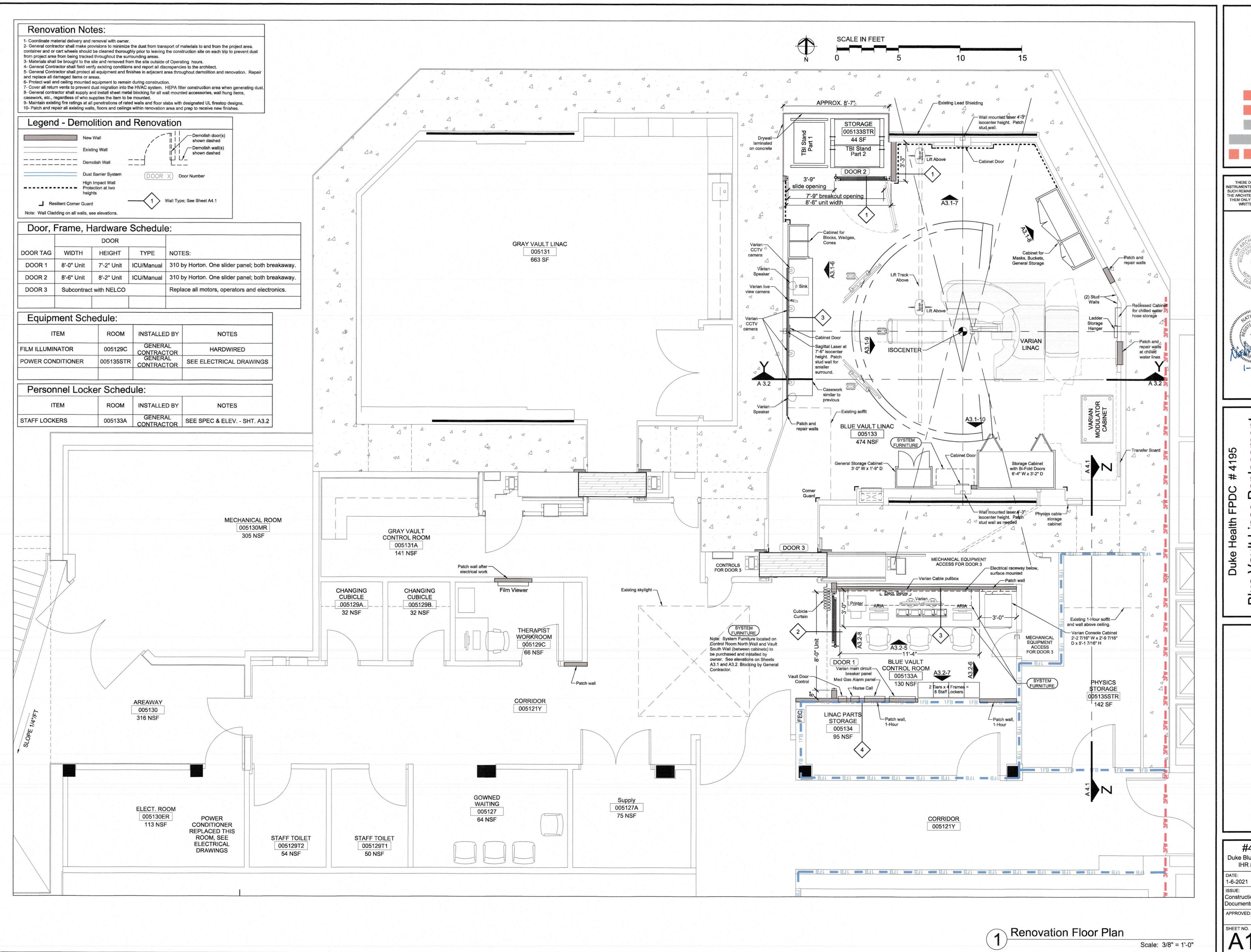
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#4195 **Duke Blue Vault Linac** IHR #19 0028

REVISIONS: DATE: 1-6-2021 ISSUE: Construction Documents APPROVED:

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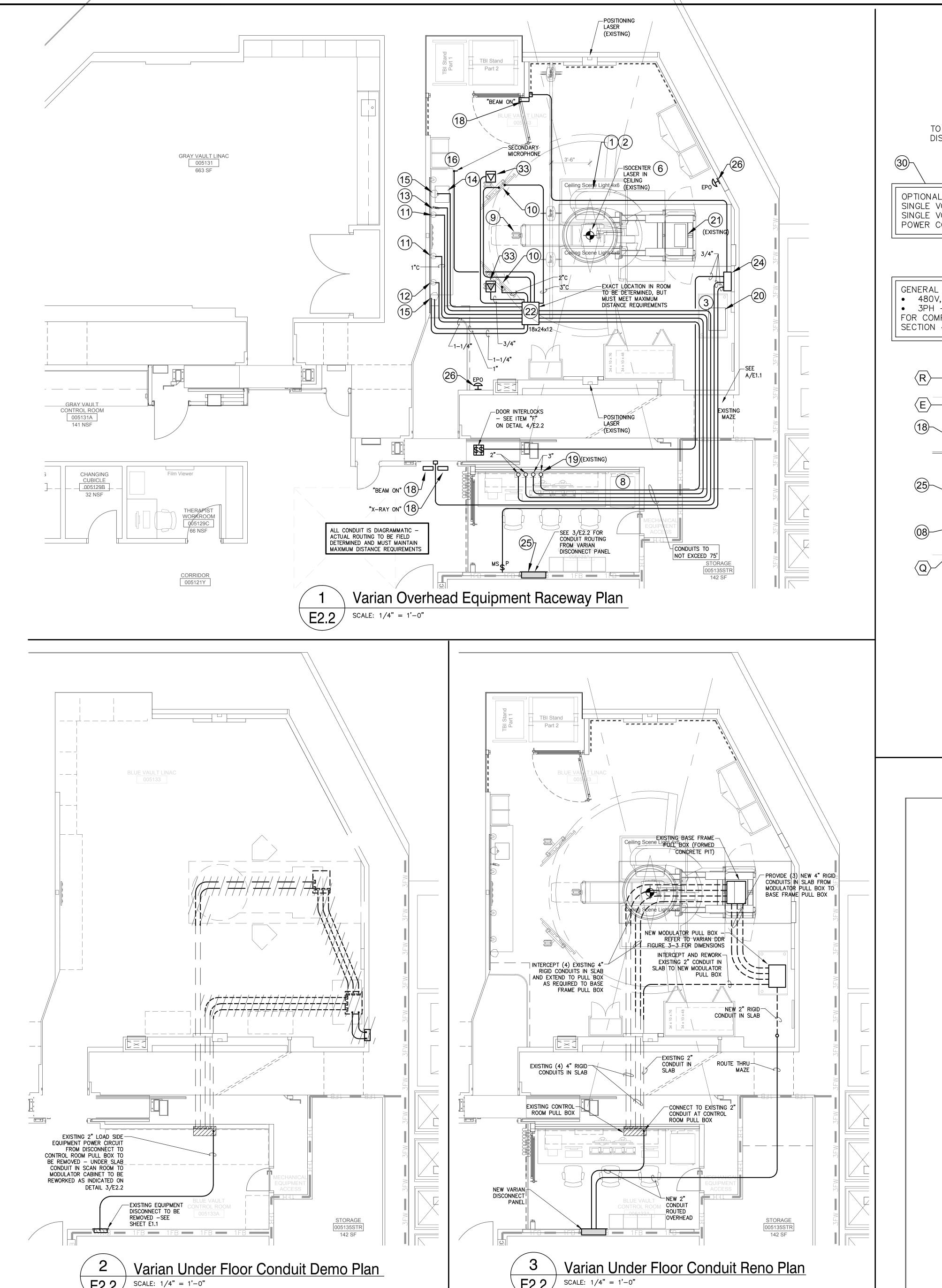


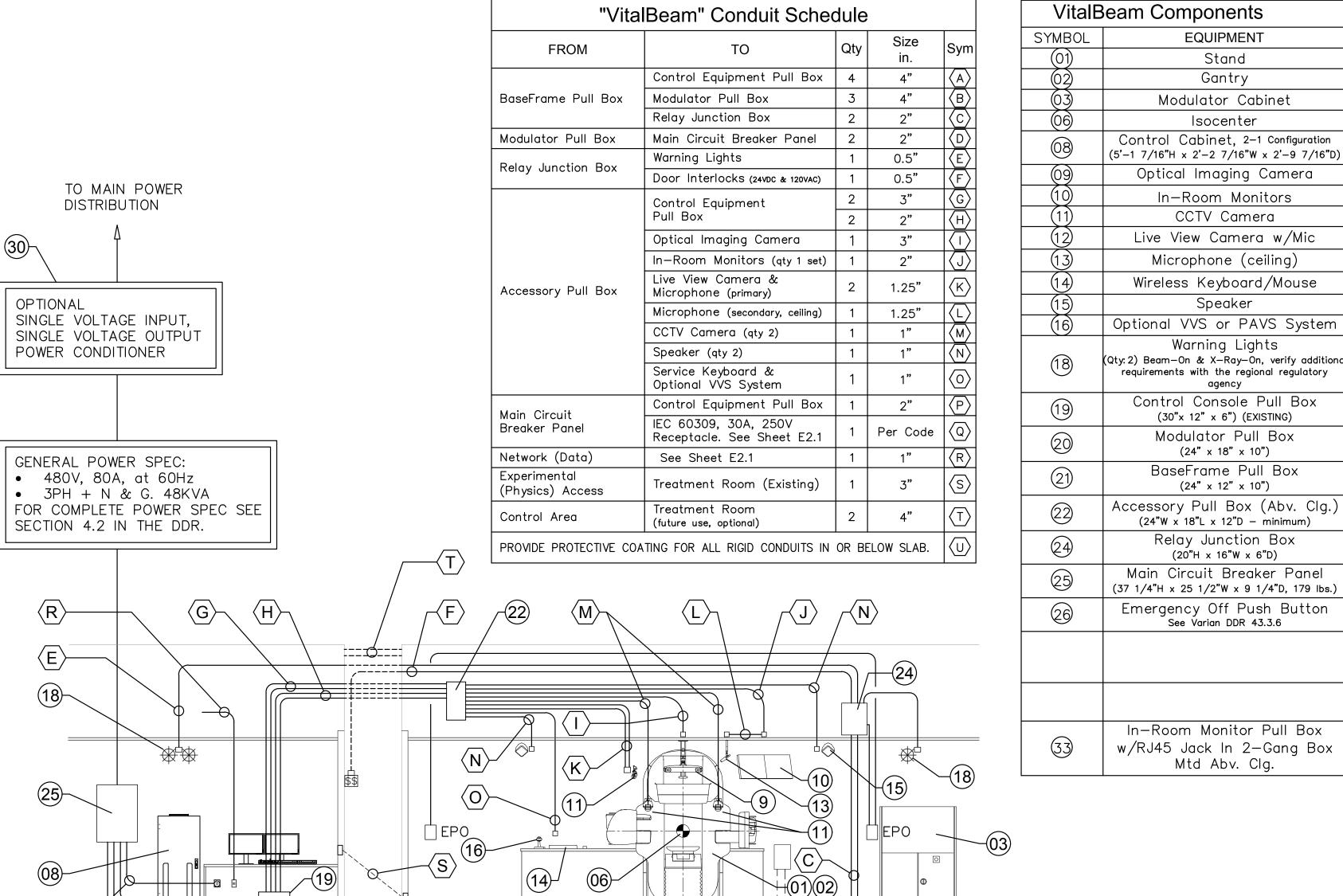
Replacement te Cancer Center

Floc Sch

#4195 Duke Blue Vault Linac IHR #19 0028 REVISIONS:

1-6-2021 Construction Documents APPROVED:





Treatment Room Raceway Elevation

SEE VARIAN INSTALLATION MANUAL

FOR ADDITIONAL INFORMATION

E2.2 | SCALE: NONE

-(2) 2" CONDUITS

Provide adequate clearance for typical

conduit radius of six times the diameter.

penetrations with the Physicist of Record.

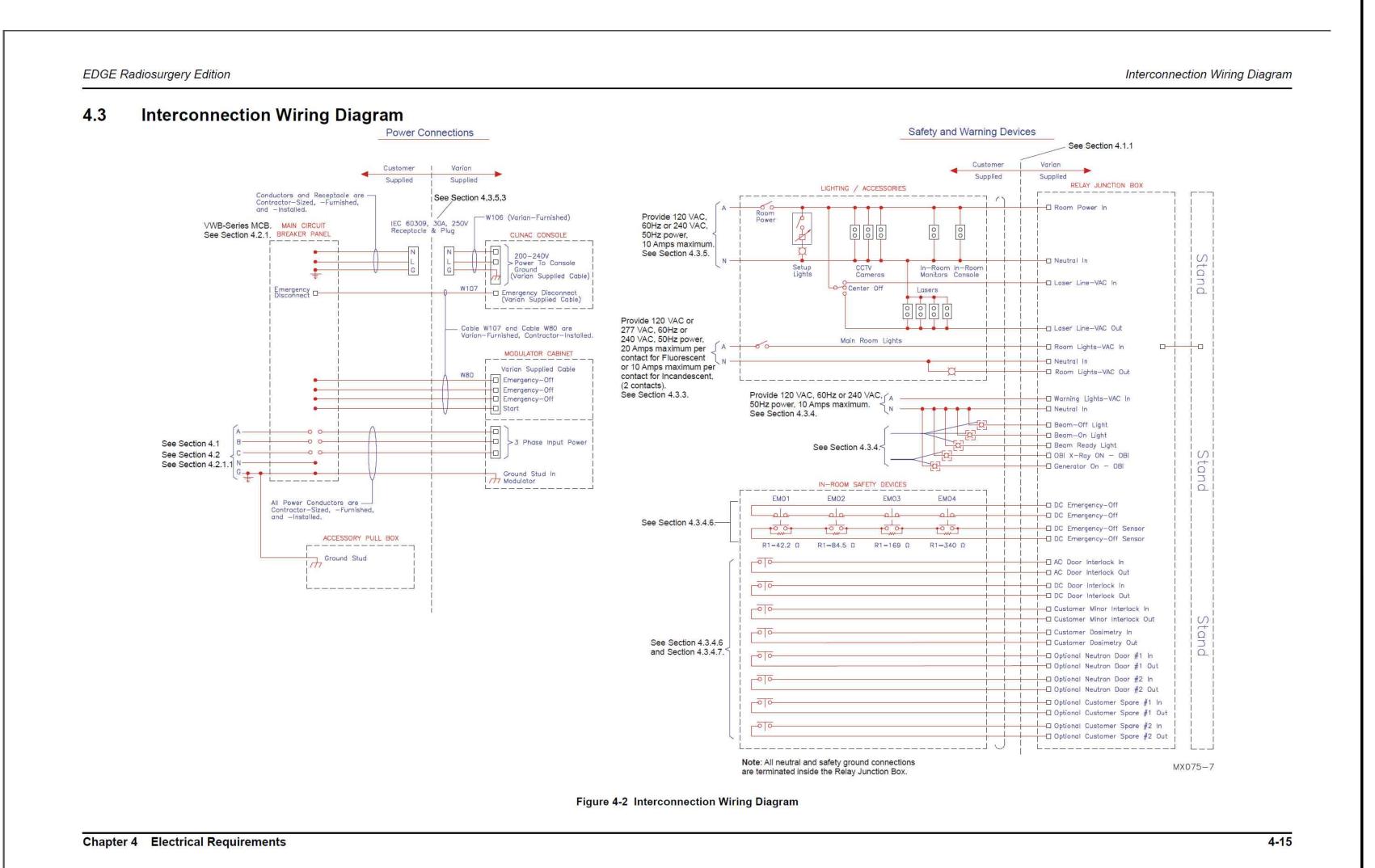
Conduit run lengths for Varian supplied

cables shall not exceed 75'-0"

Conduit bends shall not exceed 270 degrees per cable run. Route all room penetrations

as perpendicular to the isocenter as possible to avoid radiation scatter. Verify all room

FÓR COOLING WATER LINES





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OFESSIO

EDMONDSON ENGINE 1920 Hwy. 54, Suite 700, Durham, NC 2777 Ph. 919-544-1936 · Fax 919-544-2540 · License:

Blue Vault Linac Replacement
Morris Building, Duke Cancer Center

ent Raceway Plans

#4195
Duke Blue Vault Linac
IHR #19 0028
EE #20-073

DATE:
1-6-2021

ISSUE:

DATE: REVISION 1-6-2021
ISSUE: Construction Documents
APPROVED: JDH

SHEET NO.

GATE OF NORTH CAROLINA

Department of Health and Human Services Division of Facility Services

CERTIFICATE OF NEED

For Project Identification Number #J-7797-07 FID# 943138

ISSUED TO: Duke University Health System

d/b/a Duke University Hospital

3000 Erwin Road Durham, NC 27710

Pursuant to N.C. Gen. Stat. § 131E-175, et. seq., the North Carolina Department of Health and Human Services hereby authorizes the person or persons named above (the "certificate holder") to develop the certificate of need project identified above. The certificate holder shall develop the project in a manner consistent with the representations in the project application and with the conditions contained herein and shall make good faith efforts to meet the timetable contained herein. The certificate holder shall not exceed the maximum capital expenditure amount specified herein during the development of this project, except as provided by N.C. Gen. Stat. § 131E-176(16) e. The certificate holder shall not transfer or assign this certificate to any other person except as provided in N.C. Gen. Stat. § 131E-189(c). This certificate is valid only for the scope, physical location, and person(s) described herein. The Department may withdraw this certificate pursuant to N.C. Gen. Stat. § 131E-189 for any of the reasons provided in that law.

SCOPE:

Duke University Health System d/b/a Duke University Hospital proposes replacement and upgrade of one Varian 2100C Linear Accelerator to a Varian Trilogy Linear Accelerator. The Varian 2100C, from DUH, will be used to replace a 13 year old Linear Accelerator at Durham Regional Hospital/Durham County.

CONDITIONS:

See Reverse Side

PHYSICAL LOCATION:

Duke University Hospital

3000 Erwin Road Durham, NC 27710

MAXIMUM CAPITAL EXPENDITURE:

\$ 3,173,855

TIMETABLE:

See Reverse Side

FIRST PROGRESS REPORT DUE: January 7, 2008

January /, 2000

This certificate is effective as of the 28th day of June, 2007.

Chief, Certificate of New Section Division of Facility Services

CONDITIONS:

- 1. Duke University Health System d/b/a Duke University Hospital shall materially comply with the representations made in its certificate of need application.
- 2. Duke University Health System d/b/a Duke University Hospital shall not acquire as part of this project, equipment that is not included in the capital expenditure in Section VIII of the application that would otherwise require a certificate of need.
- 3. Duke University Health System d/b/a Duke University Hospital shall acknowledge acceptance and compliance with all conditions stated herein to the Certificate of Need Section in writing prior to issuance of the certificate of need.

A letter acknowledging acceptance of and agreeing to comply with all conditions was received by the Certificate of Need Section on May 30, 2007.

TIMETABLE:

Ordering Equipment	July 6, 2007
Arrival of Equipment Nove	ember 30, 2007
Occupancy/Operation of Equipment	January 2, 2008