

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES

ROY COOPER • Governor MANDY COHEN, MD, MPH • Secretary MARK PAYNE • Director, Division of Health Service Regulation

#### VIA EMAIL ONLY

November 24, 2021

Catharine Cummer, Regulatory Counsel, Strategic Planning catharine.cummer@duke.edu

Exempt from Review – Replacement Equipment				
3748				
November 12, 2021				
Duke Raleigh Hospital				
923421				
Duke University Health System, Inc.				
640				
Replace a cardiac catheterization system				
Wake				

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(f). Therefore, you may proceed to acquire without a certificate of need the Philips Azurion cardiac catheterization equipment to replace the Philips Alura FD20 cardiac catheterization equipment (Serial # 4867). This determination is based on your representations that the existing unit will be re-purposed as interventional radiology equipment and will not be used as cardiac catheterization equipment 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,

Michael J. McKillip Project Analyst

Ucheala Mitchell

Micheala Mitchell Chief

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

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER



**Catharine W. Cummer** Regulatory Counsel, Strategic Planning

November 12, 2021

Via Electronic Mail

Ms. Micheala Mitchell, Chief Ms. Lisa Pittman, Assistant Chief Mr. Michael McKillip, Project Analyst Healthcare Planning and Certificate of Need Section Division of Health Service Regulation 2704 Mail Service Center Raleigh, NC 27699-2704

#### Re: Equipment Replacement Project at Duke Raleigh Hospital

Dear Ms. Mitchell, Ms. Pittman, and Mr. McKillip:

On behalf of the Duke University Health System, I am writing to provide prior written notice of an equipment replacement project and to request the Section's written confirmation that the project is exempt from certificate of need review. The project involves the replacement of cardiac catheterization equipment originally installed pursuant to a CON (and subsequently replaced) at Duke Raleigh Hospital.

Duke Raleigh Hospital has recently decreased the number of cardiac catheterization labs operated pursuant to a services agreement with DLP Cardiac Partners from two to one. With the resulting decrease in overall cardiac cath capacity, the Duke Raleigh Hospital-owned cath lab equipment, which is seven years old, needs to be replaced, in order to minimize any downtime for maintenance and service as the equipment ages.

This equipment replacement project 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."

#### Main campus

The existing and replacement catheterization equipment are/will be located in the main Duke Raleigh Hospital building. This is on the "main campus" of the facility, as defined in 131E-176(14n), as "[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."

Duke Raleigh Hospital is a licensed health service facility (license available upon request), and the main hospital building from which Duke Raleigh Hospital provides its inpatient clinical services and exercises financial and administrative control over all Duke Raleigh Hospital services is located at 3400 Wake Forest Road in Raleigh.

Floor plans showing the location of the project within the hospital building are enclosed.

#### Certificate of Need

Duke Raleigh Hospital originally acquired a single unit of cardiac catherization equipment pursuant to project J-6753-03. After this replacement, the inventory of Duke-owned cardiac cath labs at the hospital will remain at one.

#### Replacement Equipment

The equipment qualifies as replacement equipment pursuant to the existing statutory and regulatory definition. A completed Equipment Comparison form is enclosed. Both the existing equipment and the replacement equipment are equipment capable of providing cardiac catheterization and interventional radiology procedures.

A copy of the equipment quotation is available upon request. 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).

#### **Disposition of Existing Equipment**

After the installation of the replacement cardiac catheterization lab, Duke Raleigh Hospital will discontinue cardiac catheterization procedures on the existing equipment. However, rather than simply disposing of the equipment out of state, Duke Raleigh Hospital seeks confirmation that it may continue to use this equipment for non-cardiac cath services, namely, interventional radiology procedures that do not meet the definition of cardiac catheterization. Accordingly, the total inventory of cardiac cath equipment at the hospital will not change.

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Duke Raleigh Hospital could trade in the existing equipment, and then repurchase it from the vendor as non-cardiac catheterization equipment for under the \$2 million cost threshold applicable for major medical equipment; interventional radiology equipment under that cost threshold does not constitute a new institutional health service for which a CON is required. The total cost of the existing equipment was only \$1.2M at its original acquisition, and its current depreciated/book value is zero. The proposed arrangement – redeployment of the existing equipment of its useful life as solely interventional radiology equipment – achieves the same result.

If you have questions or need any further information, please let me know. We would appreciate your confirmation that this project is exempt from CON review. Thank you for your attention to this request.

Very truly yours,

Catharíne W. Cummer

Catharine W. Cummer

Enclosures

#### EQUIPMENT COMPARISON DUKE RALEIGH HOSPITAL CARDIAC CATHETERIZATION EQUIPMENT REPLACEMENT

	EXISTING EQUIPMENT	REPLACEMENT EQUIPMENT
Type of Equipment	Cardiac Cath/Angio	Cardiac Cath/Angio
Manufacturer of Equipment	Philips	Philips
Tesla Rating for MRIs	N/A	N/A
Model Number	Allura FD20	Azurion 7 C20
Serial Number	4867	TBD
Provider's Method of Identifying Equipment	Cath/IR Lab	Lab 1
Specify if Mobile or Fixed	Fixed	Fixed
Mobile Trailer Serial Number/VIN #	N/A	N/A
Mobile Tractor Serial Number/VIN #	N/A	N/A
Date Acquired	August 2014	TBD
Does Provider Hold Title to Equipment or Have a Capital Lease?	Own	Capital purchase
Specify if Equipment Was/Is New or Used When Acquired	New	New
Total Capital Cost of Project (Including Construction, etc.) <use attached="" form=""></use>	\$1.7M	\$5.1M
Total Cost of Equipment	\$1.2M	\$1.2M
Fair Market Value of Equipment	NA	\$1.2M
Net Purchase Price of Equipment	NA	\$1.2M
Locations Where Operated	Duke Raleigh Hospital	Duke Raleigh Hospital
Number of Times Existing Equipment was Used to Provide a Health Service during the 12 months prior to the Date of the Written Notice	>10 for cath and interventional radiology procedures (equipment used daily during normal	N/A
	business hours and available for use 24/7)	
Type of Procedures Currently Performed on Existing Equipment	Cath/Interventional Radiology	NA
Type of Procedures New Equipment is Capable of Performing	NA	Cath/Interventional Radiology/EP

Date of last revision: 12/4/2020

# **PROPOSED INTERIOR ALTERATIONS FOR:** DUKE RALEIGH HOSPITAL CATH LAB EQUIPMENT UPGRADE

APF	PENDIX B -	BUILDING	G CODE	E SUMMA	RY	
Name of Project: Address of Project: Owner or Authorized	CATH LAB EQUIPMENT U <u>3400 WAKE FOREST RD</u> Agent: Pierre Mercier	PGRADE Suite #: PI	ROUND FLOOR	939	STORY NO.	DESCRIPTION
	Fax:	Email:	e@studioforty.net			AND USE
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lechanical	Edmondson Engineers	Jeremiah I Bullis	036659	(919) 544.1936 (919) 544.1936		
tructural	Lysaght and Associates	Patrick M. Kyzer	18123	(919) 544.1936 (919) 833.0495		
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ASIC BUILDING DA construction Type: check all that apply) Sprinklers: No Standpipes: No Primary Fire District: Special Inspections F Floor Penthouse 5th Floor 4th Floor 3rd Floor 2nd Floor Mezzanine 1st Floor Basement Total	GORY (Table 1604.5)       Current:         GORY (Table 1604.5)       Current:         TA:       □         □       I-A       □         □       I-A       □         □       I-A       □         □       I-B       □         □       Partial       X Yes       NH         Class:       □       □       □       □         Quo       □       □       □       □         2400       □       □       □       □         28,400       □       □       □       □         28,40	III-A       IV       V         III-A       IV       V         III-B       V         FPA 13       NFPA 13R       V         I       X       Wet       Dry         flood Hazard Area:       X         VILDING AREA TABLE       Altered         1,260 SF OF ALTERED AREA         1,260 SF OF ALTERED AREA         A-2       A-3         F-2 Low       H-3 Coml         1-2       I-3         2       3       4       5		V	BUILDING EL Structural Frar columns, girde Bearing Walls Exterior Nor Eas Wes Sou Interior Non Bearing ' Exterior Non Bearing ' Exterior Nor Eas Wes Sou Interior v Floor Construc supporting bea Floor Construc supporting bea Roof Construc supporting bea Roof Construc supporting bea Roof Construc supporting bea Roof Construc Supporting bea Roof Columns Supp Shaft Enclosu Shaft Enclosu Shaft Enclosu Shaft Enclosu Shaft Enclosu Shaft Enclosu Shaft Enclosu Shaft Enclosu	EMENT me, including ers, trusses th th st tth Walls and Partitio Walls th tth tth tt Walls and partition tth tth st tth valls and partition ction Including ams and joists Assembly porting floors ction Including ams and joists th st tth st tth tres - Other ration ll Separation ll Separation
ASIC BUILDING DA construction Type: check all that apply) Sprinklers: No Standpipes: No Primary Fire District: Special Inspections F Floor Penthouse 5th Floor 4th Floor 3rd Floor 2nd Floor Mezzanine 1st Floor Basement Total	GORY (Table 1604.5)       Current:         GORY (Table 1604.5)       Current:         TA:       □         □       I-A       □         □       I-A       □         □       I-B       □         □       Partial       Xes       Xes         ○       Partial       Yes       Xes         ○       Partial       Yes       F         Class:       □       □       □       □         ○       No       Yes       F         Required:       Square       F       F         Required:       Square       F       F         Required:       Square       F       F         Square       Square       F       F         Required:       Square       F       F         Square	III-A       IV       V         III-A       IV       V         III-B       V       V         FPA 13       NFPA 13R       V         I       Wet       Dry         flood Hazard Area:       N         VILDING AREA TABLE       Altered         1,260 SF OF ALTERED AREA         1,260 SF OF ALTERED AREA         A-2       A-3         F-2 Low         H-2 Deflagrate       H-3 Coml         1-2       1-3         2       3       4       5		V	BUILDING EL Structural Frar columns, girde Bearing Walls Exterior Nor Eas Wes Sou Interior Non Bearing ' Exterior Non Bearing ' Exterior Nor Eas Wes Sou Interior v Floor Construc supporting bea Floor Construc supporting bea Roof Construc Supporting	EMENT  me, including ers, trusses  th  th  st  th  Walls and Partitio  Walls th  walls and partition th  st  tth  valls and partition ction Including ams and joists Assembly borting floors ction Including ams and joists Assembly borting Roof res - Exit res - Other ration aparation Il Separation aparation f ng Unit/
ASIC BUILDING DA construction Type: check all that apply) Sprinklers: No Standpipes: No Primary Fire District: Special Inspections F Floor Penthouse 5th Floor 4th Floor 3rd Floor 2nd Floor Mezzanine 1st Floor Basement Total	GORY (Table 1604.5)       Current:         GORY (Table 1604.5)       Current:         TA:       □         □       I-A       □         □       I-A       □         □       I-B       □         □       Partial       Xes       N         □       Partial       Yes       N         □       Partial       Yes       F         Class:       □       □       □         ○       No       Yes       F         Required:       Stono       28,400       28,400         28,400       28,400       28,400       28,400         28,400       28,400       28,400       24,00         35,500       210,200       AL       Assembly       A-1       □         Hazardous       H-1       Detonate	III-A       IV       Pr         III-A       IV       V         III-B       V       V         FPA 13       NFPA 13R       V         I       Wet       Dry         flood Hazard Area:       N         VILDING AREA TABLE       Altered         1,260 SF OF ALTERED AREA         1,260 SF OF ALTERED AREA         A-2       A-3         F-2 Low       H-3 Coml         I-2       I-3         2       3       4       5         R-2       R-3         S-2 Low       High-Pile		V	BUILDING EL Structural Frar columns, girde Bearing Walls Exterior Nor Eas Wee Sou Interior Non Bearing 'I Exterior Non Bearing 'I Exterior Nor Eas Wee Sou Interior v Floor Construc supporting bea Floor Construc supporting bea Floor Construc supporting bea Floor Construc supporting bea Roof Construc supporting bea Roof Construc supporting bea Roof Construc supporting bea Roof Columns Supp Shaft Enclosuf Shaft Shaft Sh	EMENT  me, including ers, trusses  th  th  ti  th  Walls and Partitio  Walls th  Walls and partition  tith  ti  st  tth  valls and partition  ction Including ams and joists  Assembly  porting floors  ction Including ams and joists  th  st  tres - Other ration  paration  I Separation  f  gunit/ Separation  Separation  Separation
ASIC BUILDING DA construction Type: check all that apply) Sprinklers: Special Inspections F Floor Penthouse 5th Floor 4th Floor 3rd Floor 2nd Floor Mezzanine 1st Floor Basement Total	GORY (Table 1604.5)       Current:         GORY (Table 1604.5)       Current:         TA:       II-A       II-A         I-B       II-B       II-B         Partial       Yes       NF         Class:       I       II       II         No       Yes       F         Required:       No       Yes       F         Required:       No       Yes       F         2.400       28,400       28,400       28,400         28,400       28,400       28,400       4         Station       Station       Station       Station         Station       Station       Station       Station         Station       Station       Station       Station         Station       Station       Station       Station         Station       Station       Station       Station       Station         Station       Station       Station       Station       Station       Station         Station       Station       Station       Station       Station       Station       Station       Station       Station       Station       Station       Station       Station       Station	III-A       IV       Pr         III-A       IV       V         III-B       V       V         FPA 13       NFPA 13R       V         I       Wet       Dry         flood Hazard Area:       N         VILDING AREA TABLE       Altered         1.260 SF OF ALTERED AREA       1,260 SF OF ALTERED AREA         A-2       A-3         F-2 Low       H-3 Coml         I-2       I-3         2       3       4         S-2 Low       High-Pile         Open       Enclosed		V	BUILDING EL Structural Frar columns, girde Bearing Walls Exterior Nor Eas Wea Sou Interior Non Bearing <sup>1</sup> Exterior Non Bearing <sup>1</sup> Exterior Nor Eas Wea Sou Interior v Floor Construc supporting bea Floor Ceiling A Columns supp Roof Construc supporting bea Roof Ceiling A Columns supp Shaft Enclosuf Shaft S	EMENT  me, including ers, trusses  th  th  tt  Walls and Partitio Walls th  tt  Walls and Partition  tt  tt  tt  tst  tt  valls and partition  ttion Including ams and joists  Assembly  porting floors  ttion Including ams and joists  tssembly  porting Roof  res - Exit res - Other ration  paration  I Separation  f  gunit/ Separation  f  Separation  Separation  Separation  Separation  Separation  Separation  Compute Permeter  ttion number permeter
DCCUPANCY CATE         BASIC BUILDING DA         Construction Type:         check all that apply)         Sprinklers:       No         Standpipes:       No         Primary Fire District:         Special Inspections F <u>Floor</u> Penthouse         5th Floor         4th Floor         3rd Floor         1st Floor         Basement         Total	GORY (Table 1604.5) Current: GORY (Table 1604.5) Current: TA: □ I-A □ II-A □ □ Partial □ Yes □ NF Class: □ I □ II □ II □ No □ Yes F Required: □ No □ Yes GROSS BU Existing (sq ft) 2,400 28,400 20,00 Mercantile □ Residential □ R-1 □ Mercantile □ Parking Garage □ Utility and Miscellaneous □ y Classifications: □	IV       Pr         III-A       IV       V         III-B       V         FPA 13       NFPA 13R       V         I       Wet       Dry         flood Hazard Area:       N         VILDING AREA TABLE       Altered         1,260 SF OF ALTERED AREA         1,260 SF OF ALTERED AREA         A-2       A-3         F-2 Low       H-3 Coml         1-2       1-3         2       3       4       5         R-2       R-3       S-2 Low       High-Pile         Open       Enclosed       Enclosed	ioposed: N -A -B NFPA 13D lo □ Yes  Sub-Total   	V	BUILDING EL Structural Frar columns, girde Bearing Walls Exterior Nor Eas Wea Sou Interior Non Bearing <sup>1</sup> Exterior Non Bearing <sup>1</sup> Exterior Nor Eas Wea Sou Interior v Floor Construc supporting bea Floor Ceiling A Columns supp Roof Construc supporting bea Roof Ceiling A Columns supp Roof Construc supporting bea Roof Ceiling A Columns Supp Shaft Enclosuf Shaft Encl	EMENT  me, including ers, trusses  th  th  tt  Walls and Partition Walls th  tt  Walls and partition walls and partition and joists th  tion Including ams and joists tion Second for the
DCCUPANCY CATE         BASIC BUILDING DA         Construction Type:         check all that apply)         Sprinklers:       No         Standpipes:       No         Primary Fire District:         Special Inspections F         Floor         Penthouse         5th Floor         4th Floor         3rd Floor         1st Floor         Basement         Total	GORY (Table 1604.5)       Current:         GORY (Table 1604.5)       Current:         TA:       II-A       II-A         I-B       II-B       II-B         Partial       Yes       NF         Class:       I       II       II         No       Yes       F         Required:       Stono       28,400       28,400         28,400       28,400       28,400       28,400         28,400       28,400       28,400       28,400         28,400       28,400       28,400       28,400         29,000       AL       Assembly       A-1       E         Alassembly	III-A       IV       Pr         III-A       IV       V         III-B       V       V         FPA 13       NFPA 13R       V         I       Wet       Dry         flood Hazard Area:       N         VILDING AREA TABLE       Altered         1.260 SF OF ALTERED AREA         1.260 SF OF ALTERED AREA         A-2       A-3         F-2 Low       H-3 Coml         I-2       I-3         2       3       4       5         R-2       R-3       S-2 Low       High-Pile         Open       Enclosed       Enclosed	A -A -B NFPA 13D Io    Yes Sub-Total    A-4    A-4 bust    H-4 Health    I-4    R-4    R-4    Repair Gara	V	BUILDING EL Structural Frar columns, girde Bearing Walls Exterior Nor Eas Wea Sou Interior Non Bearing <sup>1</sup> Exterior Non Bearing <sup>1</sup> Exterior Nor Eas Wea Sou Interior v Floor Construc supporting bea Floor Ceiling A Columns supp Roof Construc supporting bea Roof Ceiling A Columns supp Shaft Enclosuf Shaft S	EMENT  me, including ers, trusses  th  th  ti  th  Walls and Partitio  Walls th  ti  ti  ti  st  tith  Walls and partitions ction Including ams and joists  Assembly  porting floors ction Including ams and joists  Assembly  porting Roof  res - Exit res - Other ration  paration I Separation I Separation I Separation  f  gunit/ Separation  f  Separatio
Accessory Occupancy Accessory Occupancy Accessory Occupancy Accessory Occupancy nidental Uses (Tably Description Des	GORY (Table 1604.5) Current: GORY (Table 1604.5) Current: TA:	IV       Pr         III-A       IV       V         III-B       V         FPA 13       NFPA 13R       V         FPA 13       NFPA 13R       V         I       Wet       Dry         Flood Hazard Area:       N         VILDING AREA TABLE       Altered         1,260 SF OF ALTERED AREA       A         1,260 SF OF ALTERED AREA       A-2         A-2       A-3         F-2 Low       H-3 Coml         H-2 Deflagrate       H-3 Coml         1-2       1-3         2       3       4       5         R-2       R-3         S-2 Low       High-Pile         Open       Enclosed	i-A         i-B         NFPA 13D         lo       Yes         Sub-Total	V	BUILDING EL Structural Francolumns, girde Bearing Walls Exterior Nor Eas Wea Sou Interior Non Bearing ' Exterior Non Bearing ' Exterior Nor Eas Wea Sou Interior v Floor Construct supporting bea Floor Ceiling A Columns supp Roof Construct supporting bea Roof Ceiling A Columns Supp Shaft Enclosuf Shaft Encl	EMENT  me, including ers, trusses  th  th  tt  Walls and Par  Walls th  tt  Walls and Par  Walls th  tt  tt  th  tt  St  tth  ction Including ams and joists Assembly borting floors tion Including ams and joists Assembly borting floors tion Including ams and joists assembly borting Roof res - Exit res - Other ration eparation II Separation II SeparatI

Emergency Lighting: Exit Signs: Fire Alarm: Smoke Detection Systems: Xes No

Rooms containing fire pumps Group I-2 storage rooms over 100 square feet

Group I-3 cells equipped with padded surfaces

Waste and linen collection rooms over 100 square feet

Group I-2 waste and linen collection rooms

Laundry rooms over 100 square feet

Group I-2 commercial kitchens

Group I-2 laundries equal to or less than 100 square feet Group I-2 rooms or spaces that contain fuel-fired heating equipment

Paint shops, not classified as Group H, located in occupancies other than Group F

Laboratories and vocational shops, not classified as Group H located in a Group E or I-2 occupancy

Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons, or a lithium-ion

capacity of 1,000 pounds used for facility standby power, emergency power or uninterrupted power supplies

Special Uses: (Chapter 4 - List Code Sections): <u>403, 407</u> Special Provisions: (Chapter 5 - List Code Sections): \_ Mixed Occupancy: 🗌 No 🛛 Yes Separation: \_\_\_\_\_\_ Hr. Exception: Non-Separated Use (508.3)

Separated Use (508.4) - See below for area calculations Fore each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1

Select one Actual Area of Occupancy A + Actual Area of Occupancy B - ≤1 Allowable Area of Occupancy A Allowable Area of Occupancy B



#### (C) AREA FOR FRONTAGE INCREASE<sup>1, 5</sup> ALLOWABLE AREA PER STORY (A) BLDG. AREA PER STORY (ACTUAL) TABLE 506.2<sup>4</sup> AREA OR UNLIMITED<sup>2, 3</sup> 35,500 U.L. 58,100 29,000 28,400 28,400 28,400 U.L.

# eases from Section 506.2 are computed thus:

fronts a public way or open space having 20 feet minimum width = \_\_\_\_\_ft (F) erimeter = \_\_\_\_\_ft (P)

\_\_\_\_(F/P) vidth of public way =

\_\_\_\_\_ft (W) e increase If = 100 (F/P - 0.25) x W/30 = \_\_\_\_\_

licable under conditions of Section 507.

Area = total number of stories in the building x D (maximum 3 stories) (506.2 a of parking garages must comply with 406.5.4. The maximum area or air traffic control towers

s based on the unsprinklered area value in Table 506.2

# ALLOWABLE HEIGHT

	Allowable	Shown on Plans	Code Reference		
Table 504.3)	U.L.				
s (Table 504.4)	U.L.	6			
if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4					

# FIRE PROTECTION REQUIREMENTS

	FIRE	RA	TING	DETAIL #	DESIGN #	SHEET #	SHEET #
S	SEPARATION DISTANCE (FEET)	REQ'D	PROVIDED (W/* REDUCTION)	AND SHEET #	FOR RATED ASSEMBLY	FOR RATED PENETRATION	JOINTS
		3	3	X-800			
		N/A	N/A				
		NI/A	NI/A				
ns		N/A	IN/A				
		0					
s		0					
		2	2	D-902			
				-			-
		3	3	X-800			
		1 1/2	1 1/2	N/A			
		N/A	N/A				
		2	2	N/A			
		2	2	U-419			
		2	2	U-419			
		smoke tight	smoke tight				
		2	2	N/A			
		3	3	N/A			
		1	1	U-419			
		1	1	U-419			
		N/A	N/A				
					+		

# PERCENTAGE OF WALL OPENING CALCULATIONS

Degree of Openings Protections (Table 705.8)	Allowable Area (%)	Actual Shown on Plans (%)

# LIFE SAFETY SYSTEM REQUIREMENTS

🛛 Yes	🗌 No
🛛 Yes	🗌 No
🛛 Yes	🗌 No

Carbon Monoxide Detection: 🗌 Yes 🛛 No

#### LIFE SAFETY PLAN REQUIREMENTS Life Safety Plan Sheet #: \_\_\_\_\_A0.2\_\_

Fire and/or smoke rated wall locations (Chapter 7)

Assumed and real property line locations (if not on the site plan) Exterior wall opening area with respect to distance to assumed property lines (705.8)

Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)

Occupant loads for each area

Exit access travel distances (1017) Common path of travel distances [Tables 1006.2.1 & 1006.3.2(1)]

- Dead End lengths (1020.4)
- Clear exit widths for each exit door
- Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3) Actual occupant load for each exit door
- A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes
- of occupancy separation
- Location of doors with panic hardware (1010.1.10) Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
- Location of doors with electromagnetic egress locks (1010.1.9.9)
- Location of doors equipped with hold-open devices
- Location of emergency escape windows (1030)
- ☐ The square footage of each fire area (202) The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)

□ Note any code exceptions or table notes that may have been utilized regarding the items above

#### ACCESSIBLE DWELLING UNITS (SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
NONE							

#### ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING	TOTAL # OF PA	RKING SPACES	# OF ACCES	TOTAL #		
AREA	REQUIRED	PROVIDED	REGUL REGUL REGUL	VAN SPAC	ES WITH	PROVIDED
			AQCESS OSLE	132" ACCESS AISLE	8' ACCESS AISLE	
		NO.1	STUAN			
		I Er	REN			
TOTAL						

# PLUMBING FIXTURE REQUIREMENTS

				(	TABLE 290	JZ. I)					
LISE	WATERCLOSETS		URINALS	IRINALS LAVATORIES		SHOWERS/	DRINKING FOUNTAINS				
UGL		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	TUBS	REGULAR	ACCESSIBLE
	EXISTING										
	NEW										
	REQUIRED										

#### SPECIAL APPROVALS

Special Approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)

## ENERGY SUMMARY

#### ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method is used, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: 🛛 (If checked, the remainder of this section is not applicable)

Exempt Building: 
Provide code or statutory reference: \_\_\_\_\_ Climate Zone: 3A 4A 5A

- Method of Compliance:
  - Energy Code 
    Performance 
    Prescriptive ASHRAE 90.1 
    Performance 
    Prescriptive OTHER: 
    Performance (specify source)

THERMAL ENVELOPE (Prescriptive method only)

Roof/Ceiling Assembly (each assembly)

Description of Assembly:

U-Value of total assembly:

R-Value of insulation: Skylights in each assembly:

U-Value of skylight: total square footage of skylights in each assembly:

Exterior Walls (each assembly)

Description of Assembly: U-Value of total assembly:

- R-Value of insulation: Openings (windows or doors with glazing)
- U-Value of assembly:
- Solar head gain coefficient: projection factor:
- Door R-Values:
- Walls below grade (each assembly)
- Description of Assembly: U-Value of total assembly:
- R-Value of insulation:
- Floors over unconditioned space (each assembly) Description of Assembly: U-Value of total assembly:
- R-Value of insulation:
- Floors slab on grade Description of Assembly:
- U-Value of total assembly: R-Value of insulation:
- Horizontal/vertical requirement: Slab heated:

# DukeHealth

# LIST OF DRAWINGS

#### T1.1 TITLE SHEET & APPENDIX B ARCHITECTURAL

- A0.1 OVERALL FIRST FLOOR/ LIFE SAFETY PLAN PROJECT LOCATION A0.2 U.L. DETAILS AND WALL TYPES
- AD1.1 DEMOLITION FLOOR PLAN AND NOTES
- A1.1 FLOOR SLAB PLAN & ALTERATIONS FLOOR PLANS AND NOTES A2.1 EQUIPMENT AND ACOUSTICAL CEILING PLANS AND NOTES
- PARTIAL ROOF PLAN, SIGHT-LINE SECTION AND PARTIAL EXTERIOR ELEVATION A3.1 A6.1 DOOR SCHEDULE, DOOR & FRAME ELEVATIONS & DETAILS
- FINISH PLAN, LEGEND AND NOTES A6.2 A7.1 CASEWORK ELEVATIONS & NOTES

# STRUCTURAL

- S0.1 GENERAL STRUCTURAL NOTES S1.1 PARTIAL EXISTING ROOF FRAMING PLAN
- S2.1 FRAMING DETAILS
- FIRE PROTECTION
- FP0.1 FIRE PROTECTION SCHEDULES, LEGENDS, NOTES & DETAILS FP1.1 FIRE PROTECTION DEMOLITION PLAN LEVEL 1 FP2.1 FIRE PROTECTION RENOVATION PLAN LEVEL 1

# PLUMBING

- P0.1 PLUMBING SCHEDULES, LEGENDS & DETAILS
- P1.1 PLUMBING WASTE & VENT DEMOLITION PLAN LEVEL 1 P1.2 PLUMBING WATER DEMOLITION PLAN LEVEL 1
- P1.3 PLUMBING MEDICAL GAS DEMOLITION PLAN LEVEL 1 P2.1 PLUMBING MEDICAL GAS RENOVATION PLAN LEVEL 1

# MECHANICAL

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# LOCATION MAP:



	No. 9059 ALEIGH
	RALE GH, North Caroline, NORTH
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	FPDC PROJECT # 3970HSRH PREPARED FOR DUKE HEALTH / FACILITY PLANNING
	DESIGN & CONSTRUCTION
	PROPOSED INTERIOR ALTERATIONS FOR: <b>Duke Raleigh Hospital</b> <b>Cath Lab Equippment Upgrade:</b> 3400 WAKE FOREST ROAD 3400 WAKE FOREST ROAD RALEIGH, NC 27609 FPDC PROJECT #3970HSRH DHSR #HL-12289
	SHEET NAME:
	REVISIONS:
SE I	DATE: 06.11.21 PROJECT NO.: 20-027 DRAWN BY: PFM
	SHEET NO.: <b>T1.1</b>

